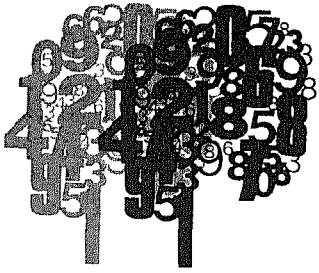


Section 25

Forests and Forest Products

This section presents data on the area, ownership, and timber resource of commercial timberland; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper and paperboard, turpentine, and rosin, and similar data.

The principal sources of these data are *An Analysis of the Timber Situation in the United States, 1952-2030, Appendix 3; U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81; Land Areas of the National Forest System;* and *Wildfire Statistics,* issued annually by the Forest Service of the Department of Agriculture, *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every five years) and the monthly and annual *Current Industrial Reports,* issued by the Bureau of the Census. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp and Fiber Statistics* and *The Statistics of Paper, Paperboard, and Wood Pulp* of the American Paper Institute, New York, N.Y.

The Bureau of the Census also collects data on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of producer prices for lumber.

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas which have been recently surveyed than for those for which only estimates are available. Estimates of fire damage or causes of fires for Federal lands are considered much better than those for private lands. In general, more data are available for lumber and other manufactured products such as veneer and plywood, etc., than for the primary forest products such as poles and piling and fuelwood.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix I.

No. 1232. National Forest Lands and Purchases: 1950 to 1981

[Area as of **June 30** except, beginning **1978**, as of **Sept. 30**; purchases for years ending **June 30**, except as noted. Includes Puerto Rico. Prior to Oct. 1976, lands to be purchased under the Weeks Law and related acts were approved by the National Forest Reservation Commission which also set prices on such lands. With the passage of the National Forest Management Act, all functions of the Commission were transferred to the Secretary of Agriculture. Actual purchases are made by U.S. Department of Agriculture. See also *Historical Statistics, Colonial Times to 1970,* series L 10-14]

ITEM	Unit	1950	1955	1960	1965	1970	1975	1978	1979	1980	1981
Gross area [1]	Mil. acres	229	236	227	226	226	226	226	226	226	230
National Forest System	Mil. acres	181	188	186	187	187	188	188	187	187	191
Approved for purchase	*1,000 acres*	61	19	8	29	92	12	51	58	42	111
Average price per acre	Dollars	9	10	15	47	125	275	442	520	664	454
Total price	Mil. dol	.5	.2	.1	1.3	11.5	3.3	22.5	30.2	27.9	50.4
Purchases completed	1,000 acres	97	12	8	33	113	34	29	37	27	83
Average price per acre	Dollars	7	12	31	39	96	267	411	616	617	530
Total price	Mil. dol	.7	.1	.2	1.3	10.9	9.1	11.9	22.3	17.1	44.0
Gross area of purchase units	Mil. acres	53	62	56	56	56	56	56	56	56	56
Purchase completed, net area [2]	Mil. acres	19	19	19	19	20	20	20	20	20	20
Average price per acre	Dollars	4	4	4	4	6	9	11	12	12	14
Total price	Mil. dol	71	73	75	79	125	179	211	233	250	278

[1] Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, national grasslands, and land utilization projects (research and experimental areas, and other areas). [2] Cumulative total. Under the March 1, 1911 Act of Congress (Weeks Law), as amended, and related acts.

Source: U.S. National Forest Reservation Commission, *Final Report to October 1976*; and U.S. Forest Service, *Land Areas of the National Forest System,* annual; and unpublished data.

No. 1233. National Forest System—Summary: 1960 to 1981

[Through 1976, for years ending June 30, except as noted; thereafter, ending Sept. 30. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1970*, series J 33-34, for similar but not comparable grazing data, and L 15-31]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Timber cut, total value	Mil. dol	157.1	161.9	308.6	368.4	495.4	735.9	858.5	973.0	736.6	728.9
Commercial and cost sales: [1]											
Volume	Mil. bd. ft	9,367	11,244	11,527	9,174	9,575	10,482	10,080	10,377	9,178	8,036
Value	Mil. dol	156	161	308	366	492	733	855	968	730	721
Free use:											
Volume	Mil. bd. ft	123	191	179	618	[2] 1,080	1,028	1,221	1,637	2,070	2,107
Value [3]	Mil. dol	.2	.3	.3	1.1	[2] 2.1	2.4	2.6	3.8	5.7	6.4
Misc. forest products	Mil. dol	.5	.5	.7	1.4	1.2	1.0	1.2	1.1	1.1	1.6
Livestock grazing: [4]											
Cattle and horses [5]	1,000	1,307	1,376	1,607	1,626	[2] 1,690	1,587	1,557	1,540	1,521	1,535
Sheep and goats	1,000	2,574	2,112	2,105	1,549	[2] 1,750	1,473	1,284	1,249	1,328	1,341
Roads and trails:											
Road construction [6]	Miles	851	1,613	942	136	168	1,021	793	820	925	1,217
Trail construction [6]	Miles	142	671	278	298	270	[7] 1,222	[7] 2,119	[7] 1,390	[7] 2,419	727
Expenditures	Mil. dol	43.2	105.5	155.1	157.7	167.6	247.5	279.6	292.0	266.5	(NA)
Receipts, total	Mil. dol	148.2	149.2	299.7	373.1	454.7	691.6	765.4	881.0	702.9	680.7
Timber use	Mil. dol	140.1	138.8	283.9	341.3	418.6	652.1	723.3	827.6	625.4	581.4
Grazing use	Mil. dol	4.5	3.5	4.4	7.7	10.9	11.4	11.0	12.5	15.8	14.9
Special land use, etc	Mil. dol	3.6	6.9	11.4	24.1	25.2	28.1	31.0	40.9	61.6	84.4
Payments to local gov't. [8]	Mil. dol	36.1	36.2	72.8	91.0	111.2	225.9	240.6	279.2	236.9	238.0
25-percent fund [9]	Mil. dol	35.4	35.5	71.9	89.8	109.5	224.1	238.9	277.0	233.6	230.5
Other [10]	Mil. dol	.7	.7	.9	1.2	1.7	1.8	1.7	2.3	3.3	7.6
Allotments to Forest Service, total [11]	Mil. dol	14.9	15.0	29.5	39.5	47.0	75.1	83.0	93.9	73.1	68.2
Roads and trails	Mil. dol	14.2	14.2	28.8	35.9	43.8	66.0	73.5	84.2	65.5	60.9
Other	Mil. dol	.7	.8	.8	3.6	3.2	9.0	9.5	9.7	7.6	7.3

NA Not available. [1] Includes land exchanges. [2] For 15 months ending Sept. 30. [3] Includes some free use timber not reducible to board feet.

[4] For 1960-1970, data for livestock permitted to graze; 1975 and 1976, for authorized use; 1977-1981 for number actually grazed. Calendar-year data. Excludes Puerto Rico. [5] Excludes animals under 6 months of age. 1960-1970 includes swine. Includes burros beginning in 1977. [6] Includes reconstruction. Through 1965, excludes national grasslands. [7] Figures include work done by the Human Resources Programs. [8] Payments made in following year. [9] Includes Tongass Alaska suspense account. [10] Includes Arizona and New Mexico School Fund, State of Minn., and receipts paid to counties under Bankhead-Jones Farm Tenant Act. [11] For use in following year.

Source: U.S. Forest Service. In *Agricultural Statistics*, annual, and unpublished data.

No. 1234. Forest Land—Total and Commercial Area, Volume of Sawtimber, and Growing Stock: 1952 to 1977

[As of Jan. 1. For composition of regions, see table 1235]

YEAR AND REGION	Total forest land (mil. acres)	COMMERCIAL TIMBERLAND, OWNERSHIP [1]					NET VOLUME OF SAWTIMBER [3]			Growing stock, net (bil. cu. ft.)
		All ownerships (mil. acres)	Federally owned or managed [2] (mil. acres)	State, county, and municipal (mil. acres)	Private		Total (bil. bd. ft.)	Softwood (bil. bd. ft.)	Hardwood (bil. bd. ft.)	
					Total (mil. acres)	Percent of total				
United States, 1952	664	499	116	28	355	71.1	2,513	2,067	446	603
North	209	170	13	19	137	80.6	249	59	190	111
South	197	192	14	3	175	91.1	410	197	213	136
West	258	138	89	6	43	31.2	1,855	1,811	44	356
United States, 1962	759	509	116	28	366	71.9	2,517	2,033	484	648
North	178	173	12	19	141	81.5	282	70	212	137
South	220	200	14	3	183	91.5	465	246	219	156
West	360	139	90	6	42	30.2	1,769	1,717	52	354
United States, 1970	754	496	111	31	358	72.2	2,539	2,002	537	680
North	186	173	12	20	141	81.5	321	83	237	156
South	212	193	14	3	175	90.7	535	296	239	177
West	355	135	85	8	42	31.1	1,684	1,623	61	348
United States, 1977	737	482	105	30	347	72.8	2,579	1,985	594	711
North	178	166	12	19	136	81.3	359	97	263	173
South	207	188	14	3	170	91.0	615	341	274	202
West	352	128	79	8	41	32.0	1,605	1,548	57	336

[1] See footnote 1, table 1235. [2] Includes Indian land. [3] See footnote 3, table 1235.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States, 1952-2030*, Appendix 3.

NO. 1235. FOREST LAND AREA, COMMERCIAL AREA OWNERSHIP, AND VOLUME OF SAWTIMBER AND GROWING STOCK, BY STATES: 1977 (JAN. 1)

STATE	Total forest land (1,000 acres)	COMMERCIAL TIMBERLAND, OWNERSHIP [1] (1,000 acres)				SAWTIMBER NET VOLUME [3]		GROWING STOCK, NET VOLUME [4]	
		Total	Federally owned or managed [2]	State, county, municipal	Private	Total (mil. bd. ft.)	Softwood (mil bd. ft.)	Total (mil. cu. ft.)	Softwood (mil. cu. ft.)
U.S	**736,558**	**482,486**	**105,472**	**30,249**	**346,764**	**2,578,940**	**1,985,408**	**710,968**	**455,779**
North	**177,662**	**166,141**	**11,964**	**18,549**	**135,628**	**359,021**	**96,504**	**173,145**	**44,574**
New Eng	**32,461**	**30,985**	**770**	**1,317**	**28,898**	**75,507**	**43,800**	**41,848**	**23,383**
Conn	1,861	1,806	2	144	1,659	5,870	1,305	2,662	425
Maine	17,718	16,864	73	468	16,323	36,118	25,232	22,604	16,060
Mass	2,952	2,798	10	356	2,422	7,868	4,168	3,893	1,439
N.H	5,014	4,692	472	108	4,112	14,564	8,607	7,286	3,526
R.I	404	395	–	32	363	697	289	412	108
Vt	4,512	4,430	213	209	4,008	10,391	4,199	4,990	1,826
Mid. Atl	**50,686**	**46,415**	**1,505**	**4,554**	**40,355**	**101,959**	**17,094**	**56,461**	**7,606**
Del	392	384	1	13	370	1,393	408	625	169
Md	2,653	2,523	*25*	*218*	*2,280*	*8,167*	*1,728*	*3,492*	*793*
N.J	1,928	1,857	28	291	1,538	3,127	575	1,534	251
N.Y	17,218	14,243	58	835	13,351	26,088	7,771	13,256	3,523
Pa	16,826	15,924	503	2,968	12,453	34,251	3,714	23,403	1,778
W. Va	11,669	11,484	892	229	10,363	28,934	2,901	14,153	1,092
Lake	**51,644**	**47,579**	**6,750**	**11,886**	**28,944**	**97,766**	**30,984**	**44,517**	**11,901**
Mich	19,270	18,778	2,472	3,947	12,359	42,441	13,205	19,214	5,061
Minn	16,709	13,695	2,336	4,992	6,367	24,607	8,531	11,454	3,477
N. Dak	422	405	114	10	281	474	–	257	(z)
S. Dak. (east)	335	223	74	3	146	448	66	134	23
Wis	14,908	14,478	1,753	2,934	9,792	29,797	9,183	13,457	3,340
Central	**42,872**	**41,163**	**2,940**	**792**	**37,431**	**83,788**	**4,625**	**30,319**	**1,684**
Ill	3,810	3,692	269	11	3,413	7,094	30	2,180	24
Ind	3,943	3,815	239	171	3,405	10,967	255	3,758	87
Iowa	1,561	1,460	57	56	1,348	3,419	14	1,038	6
Kans	1,344	1,187	27	10	1,151	2,020	1	584	1
Ky	12,161	11,902	819	77	11,007	28,941	2,091	11,968	916
Mo	12,876	12,269	1,313	219	10,757	15,270	1,292	6,022	392
Nebr	1,029	789	67	12	710	1,737	510	442	119
Ohio	6,147	6,029	150	237	5,642	14,341	433	4,328	139
South	**206,875**	**188,046**	**14,485**	**3,245**	**170,315**	**614,709**	**341,023**	**202,009**	**97,136**
So. Atl	**48,710**	**47,677**	**3,897**	**883**	**42,897**	**171,401**	**74,317**	**59,988**	**23,333**
N.C	20,043	19,562	1,365	398	17,799	76,794	35,375	26,131	10,742
S.C	12,249	12,176	662	*233*	*11,081*	*40,837*	*22,609*	*14,201*	*7,079*
Va	16,417	15,939	1,670	252	14,017	53,771	16,134	19,657	5,512
E. Gulf	**42,296**	**40,142**	**3,040**	**620**	**36,482**	**112,478**	**74,078**	**40,134**	**24,405**
Fla	17,040	15,330	1,623	492	13,215	31,950	21,129	11,733	7,525
Ga	25,256	24,812	1,417	128	23,268	80,529	52,949	28,402	16,880
Ctr. Gulf	**51,237**	**50,657**	**2,935**	**1,016**	**46,707**	**162,351**	**87,903**	**51,977**	**23,555**
Ala	21,361	21,333	800	209	20,324	69,396	46,509	22,240	12,339
Miss	16,716	16,504	1,216	461	14,828	60,642	35,370	17,234	8,929
Tenn	13,161	12,820	919	346	11,555	32,313	6,024	12,504	2,287
W. Gulf	**64,632**	**49,569**	**4,614**	**726**	**44,229**	**168,478**	**104,724**	**49,910**	**25,843**
Ark	18,282	18,207	2,718	256	15,233	48,969	26,462	17,145	7,060
La	14,558	14,527	694	309	13,525	63,418	38,648	17,431	9,417
Okla	8,513	4,323	463	105	3,755	6,067	3,576	2,062	1,010
Tex	23,279	12,513	740	56	11,717	50,025	36,039	13,272	8,356
West	**352,021**	**128,299**	**79,023**	**8,455**	**40,821**	**1,605,211**	**1,547,882**	**335,814**	**314,069**
Pac. NW	**172,136**	**53,283**	**29,552**	**5,630**	**18,101**	**950,326**	**911,892**	**186,130**	**173,155**
Alaska	119,145	11,150	8,423	2,438	289	188,858	184,406	43,073	40,620
Oreg	29,810	24,211	14,201	926	9,084	431,172	414,186	79,554	74,735
Wash	23,181	17,922	6,928	2,266	8,728	330,296	313,300	63,503	57,800
Pac. SW	**42,138**	**17,251**	**8,581**	**548**	**8,122**	**264,716**	**255,611**	**49,870**	**45,979**
Calif	40,152	16,303	8,569	106	7,628	263,669	255,594	49,668	45,975
Hawaii	1,986	948	12	442	494	1,047	17	202	4
No. Rocky Mt	**55,682**	**33,478**	**23,227**	**1,595**	**8,657**	**269,646**	**267,567**	**68,699**	**67,942**
Idaho	21,727	13,541	9,640	880	3,021	139,618	139,050	31,864	31,662
Mont	22,559	14,359	9,260	534	4,565	97,334	96,238	27,977	27,691
S. Dak. (west)	1,367	1,244	958	70	215	5,615	5,597	1,643	1,627
Wyo	10,028	4,334	3,369	111	855	27,079	26,683	7,195	6,963
So. Rocky Mt	**82,065**	**24,287**	**17,663**	**682**	**5,941**	**120,524**	**112,812**	**31,116**	**26,993**
Ariz	18,494	3,896	3,696	34	166	22,711	22,063	4,982	4,763
Colo	22,271	11,315	7,962	234	3,118	54,941	50,684	15,036	12,624
Nev	7,683	134	61	5	69	1,388	1,363	262	249
N. Mex	18,060	5,538	3,439	171	1,927	25,919	24,346	6,395	5,796
Utah	15,557	3,405	2,505	239	661	15,565	14,357	4,440	3,562

– Represents zero. Z Less than 500,000 cubic feet. [1]Commercial timberland is forest land which is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as commercial timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included. [2]Includes Indian lands. [3]Net volume of the saw log portion of live sawtimber trees in board feet, International ¼-inch log rule. [4]Net volume in cubic feet of live sawtimber and poletimber trees from stump to a minimum 4-inch top (of central stem) outside bark or to the point where the central stem breaks into limbs.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States, 1952-2030,* Appendix 3.

No. 1236. National Forest Lands—States and Other Areas: 1981

[In thousands of acres. As of Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series L 10-11]

STATE	Gross area within unit boundaries [1]	National forest system lands	Other lands within unit boundaries	STATE OR OTHER AREA	Gross area within unit boundaries [1]	National forest system lands	Other lands within unit boundaries
Total	**229,694**	**190,719**	**38,975**	Nev	5,435	5,147	288
				N.H	819	705	114
Ala	1,274	644	630	N. Mex	10,271	9,245	1,026
Alaska	24,018	23,167	851	N.Y	13	13	-
Ariz	11,936	11,271	665	N.C	3,165	1,213	1,952
Ark	3,502	2,478	1,024	N. Dak	1,106	1,106	(z)
Calif	24,290	20,380	3,910	Ohio	834	177	657
Colo	15,967	14,431	1,536	Okla	461	294	167
Conn	(z)	(z)	-	Oreg	17,455	15,616	1,839
Fla	1,225	1,098	127	Pa	743	509	234
Ga	1,911	864	1,047	S.C	1,382	610	772
Hawaii	(z)	(z)	-	S. Dak	2,269	1,998	271
Idaho	21,700	20,422	1,278	Tenn	1,212	623	589
Ill	840	262	578	Tex	1,994	782	1,212
Ind	645	188	457	Utah	9,129	8,046	1,083
Kans	108	108	-	Vt	630	291	339
Ky	2,102	670	1,432	Va	3,226	1,627	1,599
La	1,023	598	425	Wash	10,025	9,054	971
Maine	94	51	43	W. Va	1,861	969	892
Mich	4,872	2,757	2,115	Wis	2,023	1,500	523
Minn	5,467	2,800	2,667	Wyo	9,692	9,255	437
Miss	2,310	1,141	1,169				
Mo	3,082	1,466	1,616	Puerto Rico	56	28	28
Mont	19,086	16,763	2,323	Virgin Islands	(z)	(z)	-
Nebr	441	352	89				

- Represents zero. Z Less than 500 acres. [1] See footnote 1, table 1232.

Source: U.S. Forest Service, *Land Areas of the National Forest System*, annual.

No. 1237. Wildfires—Summary: 1960 to 1980

[See also *Historical Statistics, Colonial Times to 1970*, series L 44-55]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980
ACREAGE (1,000)									
Protected area: Federal [1 2]	362,836	655,001	647,239	677,949	680,243	681,564	680,185	680,223	680,261
Area burned [1]	622	146	719	408	519	802	202	1,237	751
State and private [3 4]	402,800	472,023	520,501	726,356	737,228	748,692	773,772	783,609	805,927
Area burned	1,909	1,206	1,541	1,119	2,119	2,096	1,553	1,317	2,348
Unprotected area: Federal	-	55	65,537	54,232	54,232	54,232	54,232	54,232	54,232
State and private	32,030	30,294	45,751	70,848	101,192	98,501	93,972	89,518	115,204
Area burned	1,947	1,300	1,019	(NA)	2,472	(NA)	2,156	433	2,162
REPORTED FIRES (1,000)									
Total	103.4	113.7	121.7	134.9	241.7	174.0	218.8	163.2	234.9
On protected areas [4]	89.6	100.6	116.4	103.3	172.8	158.9	144.9	118.3	[5] 155.7
Federal area [6]	[7] 12.1	9.1	15.0	12.3	15.8	16.3	14.1	13.9	14.6
State and private	91.3	104.6	106.8	122.6	225.9	157.7	204.8	149.3	220.3
Protected	77.5	91.5	101.5	91.0	157.0	142.6	130.8	104.4	141.0
Unprotected	13.8	13.1	5.3	31.6	68.9	15.1	74.0	44.9	79.2
Cause of fires: [6]									
Incendiary (arson)	21.2	26.9	30.9	28.2	51.3	45.3	46.2	32.5	45.2
Debris burning	21.9	22.9	28.3	18.2	38.9	36.1	31.5	26.6	35.5
Smoking	16.0	16.5	14.5	10.5	17.7	15.4	13.2	10.2	12.6
Lightning	11.1	8.7	12.8	9.4	11.7	15.8	10.8	9.6	11.3
Caused by children	(NA)	(NA)	7.7	10.8	14.4	13.1	11.6	11.2	11.8
Railroads	3.9	([8])	6.8	5.2	10.8	8.1	6.9	5.5	7.2
Equipment use	(NA)	(NA)	3.4	4.6	7.7	6.7	7.1	7.2	9.2
Campfires	3.6	3.4	3.8	4.0	5.1	4.6	4.3	3.8	4.2
Miscellaneous [9]	12.0	22.1	8.1	12.4	15.2	13.7	13.3	11.7	16.7
FIRE PROTECTION EXPENDITURES [3 10] (mil. dol.)									
Total funds	56.6	76.6	113.5	169.0	189.8	217.0	212.0	216.2	(NA)
Federal	9.4	12.8	16.4	25.2	22.6	20.7	30.0	30.6	22.7
State and county	45.1	62.6	95.3	143.9	167.1	196.3	182.0	185.6	[11] 220.7
Private	2.2	1.2	1.8						

- Represents zero. NA Not available. [1] Comprises land administered by U.S. Dept. of Agriculture, U.S. Dept. of Interior, and Tennessee Valley Authority, etc. [2] Beginning 1965, includes nonforest watershed areas under U.S. Dept. of Interior protection. [3] 1960 excludes Alaska; 1975 and 1977 include Guam. [4] Includes nonforest watershed areas. [5] Includes 2,000 fires in Puerto Rico not reported by cause. [6] For protected areas only. [7] Excludes nonforested watershed lands under U.S. Dept. of Interior protection. [8] Included in various other classifications. [9] 1960, lumbering included in "Miscellaneous"; thereafter in various other classifications. [10] For fire protection on State, county, and private lands only; years ending June 30, through 1976; thereafter, ending Sept. 30. [11] State funds only.

Source: U.S. Forest Service, *Wildfire Statistics*, annual, and unpublished data.

No. 1238. Forest Tree Distribution and Forest Management: 1960 to 1978

[For years ending **June 30** except, beginning **1976**, ending **Sept. 30**. See also *Historical Statistics, Colonial Times to 1970*, series L 32-43]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Forest trees distributed [1]	Millions	845	509	495	553	581	540	578	506	657	(NA)
Costs, total	$1,000	6,573	6,865	8,544	5,810	6,200	6,890	5,537	(NA)	(NA)	(NA)
Federal contributions	$1,000	186	216	197	175	214	216	225	143	145	(NA)
State expenditures	$1,000	6,387	6,649	8,347	5,636	5,986	6,674	5,312	(NA)	(NA)	(NA)
Acreage planted [2]	1,000	2,137	1,325	1,600	1,680	1,750	1,604	1,931	1,892	1,978	2,089
Forest management program: [3]											
Woodland owners assisted	1,000	82	99	115	274	106	118	141	105	134	165
Woodland involved	1,000 acres	4,116	6,165	6,945	11,158	6,472	7,106	10,369	4,085	4,614	5,750
Products harvested	Mil. bd. ft	596	717	1,226	956	1,579	907	678	597	921	1,121
Gross sale value	Mil. dol	14	17	32	24	38	44	28	(NA)	(NA)	(NA)
Expenditures, total	Mil. dol	3.9	6.8	11.6	14.6	16.5	19.4	22.4	23.3	(NA)	(NA)
Federal	Mil. dol	1.4	2.7	3.7	4.3	4.1	4.3	4.7	4.7	5.5	(NA)
State	Mil. dol	2.5	4.1	8.0	10.3	12.4	15.2	17.8	18.6	(NA)	(NA)

NA Not available. [1]Provided by Clark-McNary Program Act of June 7, 1924 as amended. [2]Includes areas planted by direct seeding; excludes areas satisfactorily reforested or established as wind barriers because some of the plantings or seedings are not successful. [3]Under the Cooperative Forest Management Act of August 25, 1950, and related legislation.

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

No. 1239. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1960 to 1980

[**In millions of cubic feet, roundwood equivalent.** See also *Historical Statistics, Colonial Times to 1970*, series L 72-86]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980, prel.
Industrial roundwood:										
Domestic production [1]	8,920	10,555	11,105	11,540	10,575	11,815	11,960	12,235	12,510	11,665
Softwoods	6,930	8,130	8,635	8,815	8,380	9,340	9,430	9,515	9,695	8,850
Hardwoods	1,995	2,430	2,470	2,725	2,195	2,475	2,535	2,725	2,815	2,815
Imports	1,580	2,105	2,430	2,755	2,220	2,840	3,310	3,755	3,655	3,260
Exports	455	740	1,540	1,805	1,685	1,870	1,795	1,845	2,135	2,355
Consumption [2]	10,145	11,925	11,995	12,490	11,105	12,785	13,475	14,145	14,030	12,575
Softwoods	8,065	9,380	9,425	9,710	8,875	10,225	10,835	11,325	11,155	9,895
Hardwoods	2,080	2,545	2,565	2,780	2,230	2,560	2,640	2,825	2,875	2,680
Lumber:										
Domestic production	[3]5,080	5,665	5,215	5,095	4,890	5,475	5,730	5,825	5,660	4,860
Imports	610	815	955	1,115	930	1,290	1,675	1,910	1,800	1,540
Exports	135	145	195	270	255	290	260	275	335	395
Consumption	5,560	6,335	5,970	5,940	5,565	6,475	7,140	7,460	7,145	6,010
Plywood and veneer:										
Domestic production	705	1,030	1,020	1,150	1,165	1,355	1,425	1,460	1,370	1,195
Imports	60	100	170	155	170	215	210	230	195	120
Exports	(z)	5	15	50	70	65	35	45	45	45
Consumption	765	1,125	1,170	1,255	1,265	1,500	1,600	1,645	1,520	1,270
Pulp products:										
Domestic production	2,575	3,095	3,835	4,220	3,485	3,805	3,645	3,745	4,110	4,390
Imports	985	1,175	1,280	1,470	1,105	1,320	1,395	1,595	1,630	1,570
Exports	275	380	720	805	715	710	725	720	805	1,075
Consumption	3,290	3,890	4,400	4,885	3,875	4,420	4,320	4,625	4,935	4,885
Logs: Imports	20	15	25	15	15	15	30	20	25	25
Exports	45	205	465	455	455	555	525	585	665	560
Pulpwood chips, exports	–	5	145	230	195	245	250	225	280	275
Other industrial prod. [4] consumption	510	560	425	395	385	380	385	395	405	385
Fuelwood consumption	**1,300**	**915**	**540**	**535**	**570**	**600**	**1,030**	**1,570**	**2,275**	**3,120**

– Represents zero. Z Less than 500,000 cubic feet. [1]Includes log exports. [2]Includes log imports. [3]Excludes Alaska and Hawaii. [4]Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

No. 1240. Timber Products—Per Capita Consumption: 1960 to 1980

[Based on total population estimated as of **July 1**. See also *Historical Statistics, Colonial Times to 1970*, series L 87-97]

PRODUCT	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980, prel.
All products	**Cu. ft**	**63.3**	**66.1**	**61.1**	**60.9**	**54.1**	**61.4**	**65.9**	**70.6**	**72.4**	**68.9**
Industrial roundwood	Cu. ft	56.1	61.4	58.5	58.4	51.4	58.6	61.2	63.5	62.3	55.2
Lumber	Cu. ft	30.8	32.6	29.1	27.8	25.8	29.7	32.4	33.5	31.7	26.4
Plywood and veneer	Cu. ft	4.2	5.8	5.7	5.9	5.9	6.9	7.3	7.4	6.8	5.6
Pulp products	Cu. ft	18.2	20.0	21.4	22.8	17.9	20.3	19.6	20.8	21.9	21.5
Other products	Cu. ft	2.8	2.9	2.1	1.8	1.8	1.7	1.7	1.8	1.8	1.7
Fuelwood	Cu. ft	7.2	4.7	2.6	2.5	2.6	2.8	4.7	7.1	10.1	13.7
Lumber	Bd. ft	199	212	193	188	171	196	213	219	209	174
Plywood and veneer	Bd. ft	25	35	34	33	32	37	39	40	37	30
Pulp products	Cords (128 cu. ft.)	.2	.3	.3	.3	.2	.3	.2	.3	.3	.3

Source of tables 1239 and 1240: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81*, annual.

No. 1241. Selected Timber Products—Producer Price Indexes: 1960 to 1981

[1967 = 100. 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Lumber products	**92**	**94**	**114**	**159**	**205**	**207**	**193**	**233**	**277**	**322**	**354**	**326**	**325**
Softwood lumber	93	93	113	168	214	211	201	248	297	346	380	345	343
Douglas fir	89	92	109	161	210	214	212	251	291	340	384	353	312
Southern pine	94	91	115	152	188	185	175	217	263	305	324	297	292
Ponderosa pine, #3 boards	104	94	116	192	264	248	211	271	340	385	466	422	(NA)
Hardwood lumber	91	97	115	126	169	190	160	176	200	236	260	252	255
Oak, red, flooring, select	99	108	113	126	202	203	159	(NA)	227	285	359	323	(NA)
Gum #1, common	68	82	93	109	142	159	115	125	127	164	182	182	(NA)
Poplar #1, common	80	86	105	108	150	173	121	131	137	163	174	167	(NA)
Birch #1, common	89	96	91	96	123	140	122	127	137	144	157	165	(NA)
Plywood	110	104	108	131	155	161	161	187	212	236	251	247	246
Softwood	113	106	114	155	194	187	201	248	296	326	323	309	307
Hardwood	105	101	103	104	113	130	120	123	128	140	169	177	180
Insulation board	114	98	111	119	122	134	144	161	178	203	199	208	242
Woodpulp	102	100	110	112	128	218	283	286	281	267	315	380	397
Paper	93	95	111	116	121	149	173	182	194	206	230	257	280
Paperboard	105	102	101	106	115	152	170	176	176	180	202	235	258
Containerboard	106	104	99	104	113	146	172	176	172	173	198	231	253
Hardboard and particleboard	104	104	93	96	106	115	114	124	141	170	166	191	213

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, annual.

No. 1242. Selected Species—Stumpage and Log Prices: 1960 to 1981

[**In dollars per 1,000 board feet.** Stumpage prices are based on sales of sawtimber from National Forests. See also *Historical Statistics, Colonial Times to 1970*, series L 199-205]

SPECIES	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Softwoods:											
Douglas-fir [1]	32.00	42.60	41.90	202.40	169.50	176.20	225.90	250.30	394.40	432.20	350.20
Southern pine [2]	34.50	31.70	44.10	76.20	57.00	87.00	100.30	134.50	155.20	155.40	172.00
Sugar pine [3]	29.00	23.30	38.50	104.00	99.20	187.20	169.60	159.60	365.00	666.60	225.20
Ponderosa pine [4]	19.10	19.80	32.10	100.60	71.20	101.80	131.40	164.70	239.00	206.10	195.20
Western hemlock [5]	10.50	19.10	20.50	110.80	68.80	79.70	89.30	113.60	200.80	212.70	163.40
Hardwoods: [6]											
All eastern hardwoods	22.80	25.00	26.90	45.90	33.90	34.90	37.90	41.10	46.80	52.40	50.90
Oak, white, red, and black	23.40	21.30	26.60	54.70	29.70	43.40	60.00	59.20	68.80	65.60	63.20
Maple	35.00	31.90	34.40	79.50	39.60	36.60	42.10	57.40	33.90	37.40	41.50
Douglas-fir log prices: [7]											
Saw logs [8]	58.40	63.00	89.30	180.50	168.70	202.90	242.80	284.60	382.20	379.80	331.40
Peeler logs [9]	100.10	93.90	136.60	299.30	274.40	377.70	322.20	446.40	571.30	584.40	563.90

[1]Western Washington and western Oregon. [2]Southern region. [3]Pacific Southwest region (formerly California region). [4]Pacific Southwest region (formerly California region). Includes Jeffrey pine. [5]Pacific Northwest region. [6]Eastern and Southern regions. [7](Scribner log scale.) *Prices are for western Washington* and northwest Oregon and represent average transactions which may take place at a variety of points in the distribution process, e.g., at a river dump, reloading or truck scaling station, or on delivery to a mill. [8]Includes mixed grades, ungraded, and, beginning 1974, grade 4 logs. [9]Includes special fir peeler or special mill grade.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81*, annual.

No. 1243. Timber-Based Industries—Employment and Average Hourly Earnings: 1970 to 1981

[Data for production or nonsupervisory workers. See also *Historical Statistics, Colonial Times to 1970*, series L 212-223]

ITEM	EMPLOYEES (1,000)						EARNINGS (dollars)					
	1970	1975	1978	1979	1980	1981	1970	1975	1978	1979	1980	1981
Lumber and wood products [1]	554	615	647	654	578	556	2.96	4.26	5.60	6.07	6.55	7.00
Logging camps and contractors	(NA)	74	69	73	71	65	(NA)	5.28	7.26	7.97	8.64	9.18
Sawmills and planing mills	196	202	208	212	190	182	2.84	4.34	5.82	6.32	6.70	7.19
Millwork, plywood, and structural members	(NA)	166	189	190	164	158	(NA)	4.26	5.56	5.95	6.41	6.89
Paper and allied products	543	642	525	536	523	518	3.44	5.01	6.52	7.13	7.84	8.60
Furniture and fixtures	362	417	406	406	376	376	2.77	3.78	4.68	5.06	5.49	5.91

NA Not available. [1]Excludes furniture.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

No. 1244. Lumber Production and Consumption, by Kind of Wood: 1960 to 1980

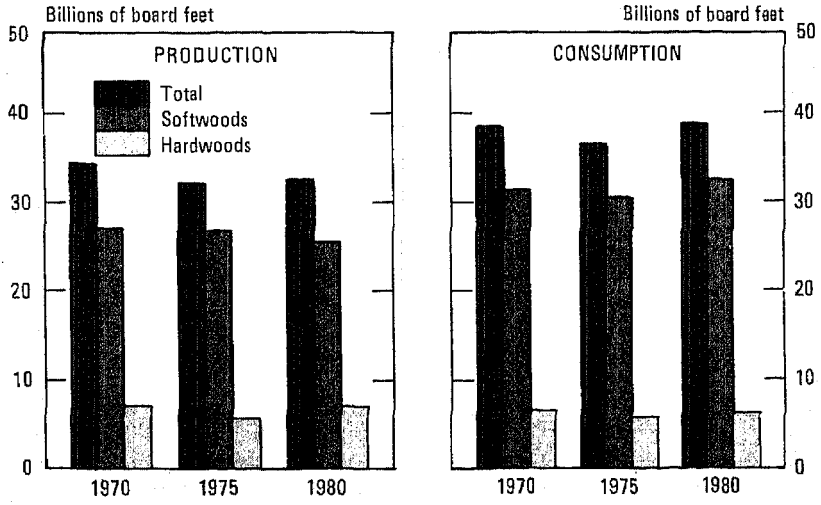
[In millions of board feet, except as indicated. 1960 excludes Alaska and Hawaii. Based on sample survey; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series L 98-112 and L 122-137]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	*1980, prel.*
Total production	**32,926**	**36,762**	**34,668**	**38,595**	**34,608**	**32,619**	**36,295**	**37,882**	**38,270**	**37,678**	**32,322**
Softwoods [1]	26,672	29,295	27,530	31,586	27,704	26,747	29,878	31,202	31,273	30,411	25,264
Cedar	(s)	633	633	785	811	821	934	987	929	637	722
Douglas fir	8,632	8 783	7,727	8,686	7,901	7,329	8,207	8,543	8,601	8,425	6,853
Hemlock	2,032	2,576	1,980	2,711	2,105	2,020	2,454	2,439	2,728	2,505	1,855
Ponderosa pine	3,169	3,776	3,429	4,030	3,580	3,544	4,032	4,167	4,175	3,966	3,299
Redwood	1,000	1,087	1,078	1,277	1,170	1,054	1,128	1,148	917	896	770
Southern yellow pine	5,660	6,626	7,063	7,895	6,921	6,967	7,598	8,239	8,267	8,034	6,880
White fir	2,224	2,422	2,063	2,438	2,071	2,012	2,104	2,184	2,099	2,140	1,643
White pine	675	693	898	1,069	925	947	1,060	1,080	1,154	(s)	(s)
Hardwoods [1]	6,254	7,467	7,138	7,009	6,904	5,872	6,417	6,680	6,997	7,257	7,058
Ash	125	141	159	140	143	124	137	144	160	(s)	(s)
Beech	195	182	188	176	167	136	140	137	146	193	133
Cottonwood	206	198	229	326	312	253	309	355	372	374	303
Elm	195	206	155	145	155	117	131	149	151	151	149
Maple	602	786	742	623	574	531	569	563	561	[2]217	[2]229
Oak	2,789	3,356	3,250	3,227	3,160	2,724	2,996	3,103	3,220	3,461	3,356
Sweet gum [1]	331	387	376	342	294	245	286	377	412	401	371
Tupelo and black gum	292	385	335	303	331	251	277	252	267	(s)	(s)
Yellow poplar	592	681	606	701	710	555	596	605	645	673	661
Domestic consumption [1]	**35,225**	**40,782**	**38,073**	**45,555**	**38,866**	**36,099**	**42,194**	**46,969**	**48,432**	**46,292**	**38,771**
Percent net imports [3]	8.7	10.6	12.7	16.6	14.2	12.0	15.2	19.3	21.6	20.3	19.1
Softwoods	28,974	32,701	31,585	38,088	32,082	30,308	35,753	40,079	41,435	39,353	32,499
Per capita (bd. ft.)	164	172	155	180	178	14	164	182	186	175	143
Mill stocks, yearend	5,285	4,145	4,340	4,006	4,322	4,053	4,199	4,077	3,999	4,172	4,057
Exports	688	777	1,152	1,773	1,506	1,373	1,583	1,413	1,369	1,745	1,956
Imports	3,631	4,895	5,769	9,002	6,807	5,711	7,950	10,380	11,825	11,118	9,540
Canada [6]	3,756	4,856	5,722	8,644	6,732	5,677	7,913	10,327	11,777	11,101	9,546
Hardwoods	6,252	8,081	6,485	7,467	6,784	5,791	6,441	6,890	6,997	6,939	6,272
Per capita (bd. ft.)	35	39	32	35	32	27	30	32	31	31	28
Mill stocks, yearend	2,067	1,086	1,144	459	802	875	877	773	800	1,163	1,765
Exports	173	145	138	222	235	245	262	251	320	307	379
Imports	291	338	347	558	464	237	288	341	361	376	293
Canada [6]	118	161	145	155	115	62	83	81	103	87	72

S Figure does not meet publication standards. [1] Includes types not shown separately. [2] Excludes hard maple. [3] Red and sap. [4] Source: Copeland Economics Group, Inc., Stamford, Conn. [5] Imports minus exports. [6] Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81*, annual.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

Figure 25.1
Lumber Production and Consumption, by Kind of Wood: 1970 to 1980



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1244.

No. 1245. Lumber Production, by Geographic Division: 1970 to 1980

[Data based in part on a sample of sawmills and are subject to sampling variability, see source. For composition of divisions, see fig. I, inside front cover. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions]

Geographic Division	Production (bil. bd. ft.)									Percent			
	1970	1973	1974	1975	1976	1977	1978	1979	1980, prel.	1970	1975	1979	1980, prel.
United States	**34.7**	**38.6**	**34.6**	**32.6**	**36.3**	**37.9**	**38.3**	**37.7**	**32.3**	**100.0**	**100.0**	**100.0**	**100.0**
North [1]	4.4	4.6	4.4	4.1	4.5	4.7	4.9	5.0	4.9	12.8	12.6	13.2	15.2
Hardwood	3.4	3.5	3.3	3.0	3.3	3.4	3.4	3.6	3.4	9.8	9.2	9.5	10.7
Softwood	1.0	1.1	1.1	1.1	1.3	1.3	1.5	1.4	1.5	3.0	3.4	3.7	4.5
South [1]	10.8	11.4	10.4	9.7	10.6	11.4	11.7	11.6	10.2	31.2	29.7	30.8	31.7
Hardwood	3.6	3.4	3.4	2.7	3.0	3.1	3.3	3.5	3.3	10.5	8.3	9.3	10.3
Softwood	7.2	8.0	7.0	7.0	7.7	8.3	8.4	8.1	6.9	20.7	21.4	21.5	21.4
West [1,2]	19.4	22.6	19.7	18.8	21.1	21.8	21.7	21.1	17.2	56.0	57.7	56.0	53.1
New England	.7	.8	.8	.8	.9	.9	1.0	1.0	1.1	2.2	2.5	2.7	3.3
Middle Atlantic	.8	.8	.9	.7	.8	.9	.9	.9	.9	2.3	2.2	2.4	2.6
East North Central	1.2	1.3	1.2	1.1	1.2	1.3	1.4	1.4	1.3	3.5	3.4	3.6	4.1
West North Central	.6	.6	.6	.5	.6	.6	.7	.6	.6	1.8	1.7	1.7	1.9
South Atlantic	5.2	5.5	5.1	4.7	5.2	5.3	5.4	5.8	5.2	15.1	14.6	15.4	16.0
East South Central	3.4	3.6	3.4	3.0	3.3	3.6	3.7	3.6	3.2	9.8	9.1	9.6	10.0
West South Central	3.2	3.3	2.9	3.0	3.1	3.5	3.6	3.2	2.9	9.3	9.1	8.6	9.1
Mountain	4.2	4.6	3.9	3.9	4.6	4.7	4.7	4.5	3.8	12.0	12.1	11.9	11.8
Pacific	15.3	18.0	15.8	14.8	16.6	17.1	17.0	16.6	13.4	44.0	45.4	44.2	41.4

[1] Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81*, annual. [2] Includes small volumes of western hardwoods—about .2 billion board feet in recent years.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

No. 1246. Logs—Exports and Imports: 1960 to 1981

[See also *Historical Statistics, Colonial Times to 1970*, series L 138-150]

Item	Volume (mil. bd. ft., log scale)						Value (mil. dol.)					
	1960	1970	1975	1979	1980	1981	1960	1970	1975	1979	1980	1981
Exports	**266**	**2,741**	**2,667**	**3,897**	**3,261**	**2,534**	**29**	**356**	**724**	**1,751**	**1,581**	**1,095**
Softwoods	210	2,672	2,601	3,768	3,109	2,377	16	320	681	1,614	1,452	1,003
Hardwoods	56	69	66	129	152	157	13	36	43	138	129	92
Imports	**112**	**144**	**85**	**133**	**128**	**101**	**9**	**13**	**16**	**29**	**20**	**20**
Softwoods	32	107	69	118	114	88	1	9	12	26	17	17
Hardwoods	80	38	17	15	13	14	7	5	3	3	3	3

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81*, annual.

No. 1247. Wood Products—Production: 1960 to 1981

Item	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981, prel.
Hardwood flooring	Mil. bd. ft.	915	808	333	155	190	390	385	360	270	280
Softwood plywood	Bil. sq. ft., ⅜" basis	7.8	12.4	14.1	15.7	17.9	18.9	19.5	18.2	15.7	16.1
Insulation boards	1,000 short tons	1,098	1,258	1,219	1,249	1,434	1,403	1,425	1,351	1,051	846
Hardboard	1,000 short tons	686	1,093	1,463	1,784	2,110	2,237	2,416	2,291	1,970	1,858
Particleboard	Mil. sq. ft. ¾" basis	268	780	1,764	2,503	3,189	3,569	3,866	3,536	3,029	2,900

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, *Forest Products Review*, monthly; and unpublished data. Based on reports of U.S. Bureau of the Census and National Particleboard Association, Silver Spring, Md.

No. 1248. Plywood—Production, Imports, Exports, Consumption, and Value of Shipments: 1960 to 1980

[See also *Historical Statistics, Colonial Times to 1970*, series L 151-165]

Item	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Total production	Mil. sq. ft. ⅜" basis	**8,861**	**14,477**	**15,945**	**16,707**	**16,758**	**18,989**	**20,065**	**20,676**	**19,354**	**16,786**
Softwood	Mil. sq. ft. ⅜" basis	7,759	12,428	14,149	15,306	15,706	17,906	18,877	19,492	18,204	15,749
Hardwood	Mil. sq. ft. ⅜" basis	1,102	2,049	1,796	1,401	1,052	1,083	1,187	1,185	1,150	1,039
Imports	Mil. sq. ft. ⅜" basis	725	1,052	2,049	1,649	1,925	2,368	2,273	2,555	2,097	1,235
Exports	Mil. sq. ft. ⅜" basis	15	37	172	610	859	795	357	328	430	413
Consumption	Mil. sq. ft. ⅜" basis	9,571	15,492	17,822	17,746	17,823	20,561	21,981	22,903	21,021	17,610
Total shipments [1]	Mil. dol.	(NA)	**1,124**	**1,268**	**2,020**	**2,073**	**2,779**	**3,602**	**4,078**	**3,822**	**3,243**
Softwood	Mil. dol.	(NA)	775	959	1,626	1,726	2,362	3,125	3,549	3,218	2,670
Hardwood	Mil. dol.	(NA)	349	310	394	347	417	477	529	604	573

NA Not available. [1] Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24F and MA-24H, both annual. Includes interplant transfers.

Source: Except as noted, U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-81*, annual.

No. 1249. Pulpwood—Production, Consumption, and Prices: 1960 to 1980

[In millions of standard cords of 128 cubic feet, except as indicated. Excludes Hawaii in 1960. See *Historical Statistics, Colonial Times to 1970*, series L 166 and L 168, for similar data]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980, prel.
Production, total	**40.0**	**52.3**	**70.5**	**71.2**	**77.2**	**81.9**	**69.0**	**77.4**	**79.8**	**80.1**	**86.2**	**88.6**
Softwood	31.5	39.8	53.4	53.2	56.7	59.6	52.4	58.1	60.2	58.9	63.3	65.2
Hardwood	8.5	12.5	17.1	18.0	20.4	22.2	16.6	19.3	19.6	21.2	22.9	23.4
Consumption, total [1]	**40.5**	**52.0**	**67.6**	**71.5**	**73.6**	**74.3**	**65.4**	**73.2**	**73.9**	**74.2**	**77.6**	**79.7**
Softwood	32.1	39.7	51.3	53.6	54.8	54.6	48.9	54.8	55.7	54.9	57.9	58.8
Hardwood	8.4	12.3	16.3	17.9	18.8	19.8	16.5	18.4	18.3	19.2	19.7	20.9
Prices: (Dol. per standard cord)												
Southern pine:												
Midsouth	16.05	16.30	18.80	20.80	23.85	28.25	28.70	29.75	31.40	33.15	40.10	43.30
Southeast	16.45	17.65	21.10	22.85	28.20	32.80	33.20	33.60	34.65	36.25	40.65	43.90
Louisiana	14.85	15.70	17.75	19.25	22.50	28.30	29.25	30.45	31.65	34.55	38.95	41.45
Hardwoods:												
Midsouth	13.10	13.80	16.95	18.55	21.30	25.30	25.70	26.50	28.10	30.35	33.90	36.70
Southeast	13.60	14.35	17.15	18.95	21.15	24.10	24.55	24.55	26.55	28.15	30.40	32.90
Louisiana	12.15	13.65	17.45	19.00	22.00	24.95	26.20	26.10	27.20	28.30	32.05	33.60
New Hampshire	18.50	16.50	20.00	22.00	23.50	26.50	28.50	31.65	33.00	35.00	37.00	41.50

[1] Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-26A, monthly and annual.

Source: Except as noted, U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950–81*, annual.

No. 1250. Paper and Paperboard—Production and Consumption: 1965 to 1981

[In millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series L 172, L 174, and L 178–191]

ITEM	PRODUCTION						CONSUMPTION					
	1965	1970	1975	1979	1980	1981	1965	1970	1975	1979	1980	1981
Total paper and paperboard	**43.5**	**51.7**	**51.1**	**64.5**	**63.7**	**64.4**	**46.3**	**56.0**	**54.3**	**70.0**	**67.3**	**68.1**
Paper	**19.2**	**23.4**	**23.4**	**29.8**	**30.2**	**31.0**	**25.1**	**29.8**	**28.4**	**37.6**	**37.1**	**37.5**
Newsprint	2.2	3.5	3.7	4.1	4.7	5.2	8.5	9.8	9.0	11.2	11.4	11.7
Coated printing, converting	2.8	3.3	3.2	4.5	4.7	4.9	2.8	3.2	3.1	4.6	4.7	4.9
Uncoated free sheet	4.2	5.1	5.4	7.8	8.0	7.9	4.2	5.1	5.3	7.9	8.0	7.9
Other printing, writing, etc.	2.3	2.6	2.5	3.0	2.9	2.9	2.4	2.7	2.6	3.6	3.4	3.4
Packaging and industrial converting	4.7	5.2	4.7	5.9	5.6	5.6	4.5	5.1	4.4	5.8	5.3	5.3
Tissue and other machine creped	2.9	3.7	4.0	4.5	4.4	4.5	2.9	3.7	3.9	4.5	4.3	4.5
Paperboard	**21.3**	**25.4**	**24.8**	**31.4**	**31.0**	**31.2**	**20.2**	**23.2**	**22.8**	**28.8**	**27.2**	**28.2**
Unbleached kraft	8.3	11.5	11.5	15.2	15.3	15.6	7.4	9.9	10.5	13.5	13.0	13.8
Bleached kraft	2.8	3.3	3.3	4.0	3.9	3.9	2.8	3.2	3.1	3.5	3.3	3.4
Semichemical	2.7	3.5	3.7	4.7	4.7	4.7	2.6	3.4	3.6	4.6	4.4	4.6
Recycled furnish	7.5	7.0	6.2	7.6	7.1	7.0	7.5	7.0	6.2	7.6	7.0	7.0
Construction paper and board [1]	**3.0**	**3.0**	**3.0**	**3.3**	**2.6**	**2.1**	**3.0**	**3.0**	**3.0**	**3.6**	**3.0**	**2.4**

[1] Includes wet machine board, approximately .1 million tons per year.

Source: American Paper Institute, Inc., New York, N.Y., *The Statistics of Paper, Paperboard, and Woodpulp*, annual.

No. 1251. Newsprint—Production, Stocks, Consumption, Imports, and Price: 1960 to 1981

[In thousands of short tons, except price. See also *Historical Statistics, Colonial Times to 1970*, series L 192–198]

COUNTRY AND ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Canada:											
Production	6,739	7,720	8,607	9,548	7,679	8,915	8,988	9,746	9,652	9,507	9,861
Shipments from mills	6,752	7,747	8,592	9,597	7,727	8,712	9,005	9,825	9,678	9,504	9,827
Stocks at mills, end of year	140	150	236	143	95	299	282	203	178	182	214
United States: [1]											
Total estimated consumption, all users [2]	7,313	8,483	9,706	10,284	9,254	9,611	10,228	10,874	11,240	11,121	11,205
Production [3]	2,038	2,245	3,464	3,561	3,690	3,736	3,870	3,767	4,062	4,672	5,239
Shipments from mills [3]	2,031	2,248	3,457	3,560	3,690	3,728	3,866	3,779	4,066	4,667	5,220
Stocks, end of year: At mills [3]	26	19	33	25	21	29	34	22	18	23	42
At and in transit to publishers	628	573	749	827	734	921	796	726	692	807	1,059
Imports [4]	5,412	6,323	6,635	7,399	5,847	6,569	6,559	7,484	7,223	7,279	6,977
Producer price index (1967=100)	96.1	94.6	107.6	151.2	184.0	198.2	215.4	226.3	249.4	[5] 279.3	308.1

[1] Excludes Alaska and Hawaii, except as noted. [2] Based on Newspaper Publishers Association sample of publishers. See also table 952. [3] Beginning 1965, includes Alaska and Hawaii. [4] Source: Reports of U.S. Bureau of the Census. Includes Alaska, Hawaii, and Puerto Rico. [5] Average for 11 months.

Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly. Data from American Newspaper Publishers Association, Reston, Va., and American Paper Institute, Inc., New York, N.Y.

No. 1252. Woodpulp—New Supply and Consumption: 1960 to 1981

[In millions of short tons. 1960 excludes Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series L 169-170]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total new supply [1]	**26.6**	**35.7**	**44.0**	**50.0**	**49.7**	**43.6**	**48.9**	**50.4**	**51.4**	**52.6**	**52.4**	**54.5**
Production, total [2]	25.3	34.0	43.5	48.3	48.3	43.1	47.7	49.1	50.0	51.2	52.1	54.3
Sulphate	14.6	21.5	29.5	33.0	33.0	29.2	32.8	34.2	35.5	36.3	37.3	39.6
Groundwood [3]	3.3	3.6	4.4	4.7	4.7	4.4	4.6	4.9	4.7	4.6	4.9	5.3
Imports	2.4	3.1	3.5	4.0	4.1	3.1	3.7	3.9	4.0	4.3	4.1	4.1
Exports	1.1	1.4	3.1	2.3	2.8	2.6	2.5	2.6	2.6	2.9	3.8	3.9
Consumption in paper and board [2]	25.7	34.0	43.2	48.8	48.3	42.4	47.5	48.5	49.8	51.6	51.8	52.6

[1] Production plus imports, less exports. [2] Source: U.S. Bureau of the Census, *Current Industrial Reports*, through 1980. Production includes other, not shown separately. [3] Beginning 1975, includes thermochemical pulp.

Source: Except as noted, American Paper Institute, Inc., New York, N.Y., *Statistics of Paper, Paperboard, and Wood Pulp*, annual, and *Monthly Statistical Summaries*.

No. 1253. Wastepaper Utilization and Recovery Rates: 1960 to 1981

[**In millions of short tons, except percent.** Recovery rate is ratio of total wastepaper recovered to new supply. Wastepaper utilization is the ratio of wastepaper consumption at paper and board mills to paper and board production. See *Historical Statistics, Colonial Times to 1970*, series L 175, for U.S. wastepaper consumption]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Paper and board, production	[1] 34.4	[1] 44.1	[1] 53.5	61.1	52.9	60.5	62.4	64.6	66.9	65.7	66.2
Wastepaper consumption	[1] 9.0	[1] 10.2	11.8	14.0	11.7	13.6	14.1	14.8	15.4	14.9	15.4
Wastepaper utilization rate (percent)	26.2	23.1	22.1	22.9	22.2	22.5	22.6	22.9	23.0	22.7	23.3
Other wastepaper uses [1]	.20	.20	.42	.49	.54	.63	.87	.50	.51	.47	.49
Wastepaper exports [2]	.15	.29	.42	1.31	.86	1.27	1.51	1.60	2.23	2.66	2.21
Total wastepaper recovered	9.3	10.6	12.6	15.7	13.1	15.4	16.3	16.8	18.0	17.9	18.0
Paper and board, new supply	[1] 39.1	[1] 49.1	[1] 57.9	65.5	56.0	64.3	66.4	70.5	72.8	69.4	70.1
Recovery rate (percent)	23.8	21.5	21.2	23.9	23.3	23.9	24.6	23.8	24.7	25.7	25.7

[1] Estimated. [2] Source: U.S. Bureau of the Census.

Source: Except as noted, American Paper Institute, Inc., New York, N.Y., *Statistics of Paper, Paperboard, and Wood Pulp*, annual, and unpublished data.

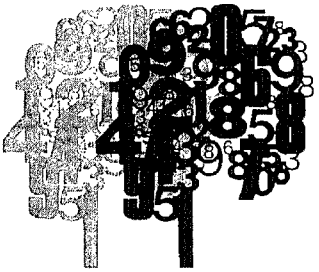
No. 1254. Turpentine and Rosin—Production, Imports, Exports, and Consumption: 1960 to 1980

[For years beginning **April 1**. See *Historical Statistics, Colonial Times to 1970*, series L 176 and L 177, for total production]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
TURPENTINE												
Production	1,000 bbl. [1]	604.8	700.7	575.8	530.6	467.0	447.6	482.2	477.1	507.7	527.8	(NA)
Gum	1,000 bbl. [1]	119.0	111.4	25.8	21.4	15.6	20.7	17.4	14.5	9.7	6.7	6.3
Wood	1,000 bbl. [1]	485.8	589.3	550.0	509.2	471.4	426.9	464.8	462.6	498.0	521.1	(NA)
Value of production	$1,000	2,849	3,091	1,550	863	1,084	1,640	1,278	1,035	784	686	(NA)
Price per gallon (dol.)	Dollars	.479	.555	1.200	.806	1.389	1.585	1.427	1.425	1.610	2.036	(NA)
Imports	1,000 bbl. [1]	15.6	18.0	24.1	33.6	29.7	58.6	16.3	7.9	7.1	7.8	12.7
Exports	1,000 bbl. [1]	81.8	45.1	39.7	30.7	16.3	4.2	20.3	19.4	15.3	13.5	23.0
Gum	1,000 bbl. [1]	23.2	21.5	6.1	3.2	2.1	1.5	2.1	.9	.6	.6	.5
Wood	1,000 bbl. [1]	58.6	23.6	33.5	27.5	14.2	2.7	18.2	18.5	14.7	12.9	22.5
Industrial consumption	1,000 bbl. [1]	376.8	535.6	536.2	443.1	439.7	423.5	480.6	473.3	505.3	504.3	(NA)
Gum	1,000 bbl. [1]	3.5	8.2	3.1	1.9	2.0	2.2	1.8	1.7	1.5	1.1	(NA)
Wood	1,000 bbl. [1]	373.2	527.4	533.1	441.4	437.7	421.2	478.8	471.5	503.7	503.2	(NA)
ROSIN												
Production	1,000 drums	2,010	2,067	1,656	1,584	1,306	1,088	1,357	1,301	1,339	1,363	(NA)
Gum	1,000 drums [2]	370	361	88	74	54	72	61	51	35	24	22
Wood	1,000 drums [3]	1,640	1,706	1,568	1,510	1,252	1,016	1,296	1,250	1,304	1,339	(NA)
Value of production	$1,000	27,787	19,352	6,818	8,737	10,106	9,338	7,971	6,702	4,925	4,385	(NA)
Price per 100 lb. net (dol.)	Dollars	14.52	10.36	15.03	22.72	35.92	25.15	24.46	25.35	27.54	35.05	(NA)
Imports	1,000 drums [2]	(z)	1	(z)	106	162	21	25	31	55	52	39
Exports	1,000 drums [2]	628	541	570	424	268	174	280	215	328	396	383
Gum	1,000 drums [2]	157	81	124	26	18	13	15	14	18	18	15
Wood	1,000 drums [3]	471	460	446	398	250	161	265	201	310	378	368
Industrial consumption	1,000 drums	1,409	1,536	1,462	1,271	1,103	1,046	1,203	1,074	1,168	1,065	(NA)
Gum	1,000 drums [2]	258	136	121	100	110	104	56	74	64	41	(NA)
Wood	1,000 drums [3]	1,151	1,400	1,341	1,171	993	942	1,146	1,000	1,104	1,024	(NA)

NA Not available. Z Less than 500. [1] 50 gallon barrels. [2] 517 pounds per drum. [3] 520 pounds per drum.

Source: U.S. Department of Agriculture, Statistical Reporting Service, *Agricultural Statistics*, annual, and *Naval Stores*, annual summary.



Section 26

Fisheries

This section presents statistics on commercial fishing and the fish processing industry. The principal sources of these data are *Fishery Statistics of the United States,* and *Fisheries of the United States,* both issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA).

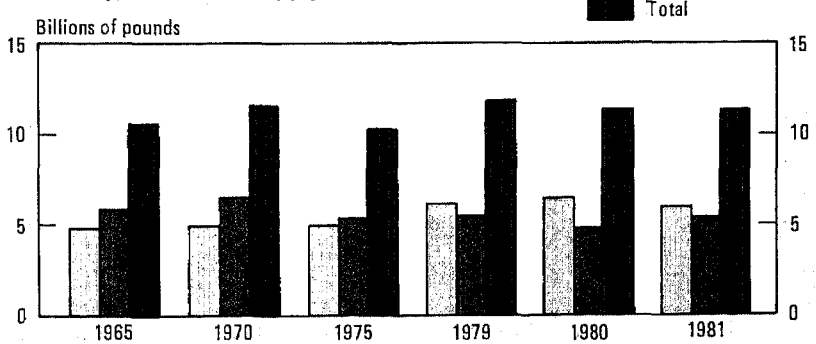
The NMFS collects and disseminates data on commercial landings of fish and shellfish, freezings and holdings of fishery products, fish meal and oil production, and foreign trade in fishery products. Quarterly data are published on U.S. output of fish sticks, fish portions, and breaded shrimp. Annual reports include quantity and value of commercial landings of fish and shellfish (by species, region, State, and type of fishing gear), disposition of landings, number of fishermen, and number and kinds of fishing vessels and fishing gear. Reports for the fish-processing industry include annual output of canned, packaged, and industrial products and, for the wholesaling and fish processing establishments, annual and seasonal employment, and number of firms, by product and State. Annual data are published on foreign trade in fishery products and per capita consumption of edible fishery products.

The Magnuson Fishery Conservation and Management Act of 1976 established a Fisheries Conservation Zone (FCZ) which gives the Federal Government exclusive authority over domestic and foreign fisheries within 200 nautical miles of U.S. shores and over certain living marine resources beyond the FCZ. Within the FCZ, the total allowable level of foreign fishing, if any, is that portion of the "optimum yield" not harvested by U.S. vessels. Adjustments in the "optimum yield" level may occur periodically. For details, see *Fisheries of the United States, 1981.* The NMFS collects and disseminates data on catches by foreign fishing vessels in the FCZ.

The catch value as presented in various tables is "ex-vessel," or value at the dock. It represents the price received by fishermen and vessel owners for fish, shell-fish, etc.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix I.

Figure 26.1
Fishery Products—Supply: 1965 to 1981



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1258.

1978

No. 1255. Fisheries—Quantity and Value of Domestic Catch: 1940 to 1981

[Prior to 1950, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1970,* series L 224-226, L 229, and L 310]

Year	Quantity (mil. lb.[1]) Total	For human food	For industrial products[2]	Ex-vessel value (mil. dol.)	Average price per lb. (cents)	Year	Quantity (mil. lb.[1]) Total	For human food	For industrial products[2]	Ex-vessel value (mil. dol.)	Average price per lb. (cents)
1940	4,060	2,675	1,385	99	2.4	1973	4,858	2,398	2,460	937	19.3
1945	4,598	3,167	1,431	270	5.9	1974	4,967	2,496	2,471	932	18.7
1950	4,901	3,307	1,594	347	7.1	1975	4,877	2,465	2,412	977	20.0
1955	4,809	2,579	2,230	339	7.1	1976	5,388	2,775	2,613	1,349	25.0
1960	4,942	2,498	2,444	354	7.2	1977	5,198	2,900	2,298	1,515	29.1
1965	4,777	2,587	2,190	446	9.3	1978, prel.	6,028	3,177	2,851	1,854	30.7
1970	4,917	2,537	2,380	613	12.5	1979, prel.	6,267	3,318	2,949	2,234	35.6
1971	5,018	2,441	2,577	651	13.0	1980, prel.	6,482	3,654	2,828	2,237	34.5
1972	4,806	2,435	2,371	748	15.6	1981, prel.	5,977	3,547	2,430	2,388	40.0

[1] Live weight. [2] Meal, oil, fish solubles, homogenized condensed fish, shell products, bait, and animal food.

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States,* annual, and *Fisheries of the United States,* annual.

No. 1256. Fisheries—Employment, Fishing Craft, and Establishments: 1960 to 1980

[In thousands. As of Dec. 31. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970,* series L 254-261]

Item	1960	1965	1970	1973	1974	1975	1976	1977, prel.	1978, prel.	1979, prel.	1980, prel.
Persons employed in U.S.	**224**	**215**	**227**	**243**	**253**	**260**	**266**	**269**	**257**	**277**	**296**
Fishermen	130	129	140	149	161	168	174	173	172	184	193
Shore workers[1]	94	87	87	94	92	92	92	96	85	93	103
Craft used	**77**	**80**	**88**	**90**	**101**	**103**	**103**	**104**	**104**	**103**	**103**
Vessels, 5 net tons and over	12	12	14	15	16	16	17	18	18	18	9
Motorboats	57	64	72	72	83	85	84	84	84	84	93
Other boats	8	3	2	2	2	2	2	2	2	1	1
Fishery shore establishments	**4.2**	**4.2**	**3.7**	**3.6**	**3.5**	**3.6**	**3.6**	**3.6**	**3.6**	**3.6**	**3.6**

[1] Seasonal average.

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States,* annual, and *Fisheries of the United States,* annual.

No. 1257. Fisheries—Fishermen and Craft, 1976, and Catch, 1979 and 1980, by Area

[See *Historical Statistics, Colonial Times to 1970,* series L 236-253, for data on quantity and ex-vessel value of catch]

Area	1976[1] Fishermen (1,000)	Fishing vessels	Fishing boats[2] (1,000)	1979 Total catch (mil. lb.)	Value (mil. dol.)	1980 Catch (mil. lb.) Total	Finfish	Shellfish	Value of catch (mil. dol.) Total	Finfish	Shellfish
United States	**[3] 173.6**	**[3] 16,875**	**[3] 85.9**	**6,267**	**2,234**	**6,482**	**5,328**	**1,154**	**2,237**	**1,155**	**1,082**
New England States	30.5	855	15.6	709	302	788	701	87	327	154	173
Middle Atlantic States	17.7	580	12.5	228	92	244	187	57	97	32	65
Chesapeake Bay States	25.0	1,939	15.4	639	122	718	588	130	130	42	88
South Atlantic States	10.6	1,421	6.0	488	145	473	376	97	148	62	86
Gulf States	28.1	5,193	10.0	2,129	530	1,979	1,701	278	463	111	352
Pacific Coast States	48.4	7,193	13.8	1,925	1,006	2,140	1,641	499	1,025	710	315
Great Lakes States	1.1	194	.5	49	11	44	44	-	14	14	-
Mississippi River States	11.7	-	11.0	[4] 86	15	85	79	6	21	18	3
Hawaii	2.7	101	1.3	14	11	11	11	(Z)	12	12	(Z)

- Represents zero. Z Less than 500,000 pounds or $500,000. [1] As of Dec. 31. [2] Refers to craft having capacity of less than 5 net tons. [3] Exclusive of duplication among regions. Computation of area amounts will not equal U.S. total. [4] Mississippi River and other areas.

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States,* annual, and *Fisheries of the United States,* annual

No. 1258. Fishery Products—Supply: 1960 to 1981

[**Live weight, in millions of pounds, except percent.** 1977–1981 preliminary. See *Historical Statistics, Colonial Times to 1970,* series L 224–226, for domestic catch]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	**8,223**	**10,535**	**11,474**	**10,378**	**9,875**	**10,164**	**11,593**	**10,579**	**11,509**	**11,631**	**11,357**	**11,353**
For human food	4,264	5,163	6,213	7,109	6,638	6,394	7,404	7,414	8,135	8,251	8,006	8,267
Finfish	(NA)	(NA)	(NA)	(NA)	4,971	4,848	5,657	5,589	6,263	6,324	6,139	6,316
Shellfish [1]	(NA)	(NA)	(NA)	(NA)	1,667	1,546	1,747	1,825	1,872	1,927	1,867	1,951
For industrial use	3,959	5,372	5,261	3,269	3,237	3,770	4,189	3,165	3,374	3,580	3,351	3,086
Domestic catch	**4,942**	**4,777**	**4,917**	**4,858**	**4,967**	**4,877**	**5,388**	**5,198**	**6,028**	**6,267**	**6,482**	**5,977**
Percent of total	60.1	45.3	42.8	46.8	50.2	47.9	46.5	49.1	52.4	53.0	57.1	52.7
For human food	2,498	2,587	2,537	2,398	2,496	2,465	2,775	2,900	3,177	3,318	3,654	3,547
Finfish	(NA)	(NA)	(NA)	(NA)	1,522	1,548	1,776	1,781	2,018	2,204	2,516	2,414
Shellfish [1]	(NA)	(NA)	(NA)	(NA)	974	917	999	1,119	1,159	1,114	1,138	1,133
For industrial use	2,444	2,190	2,380	2,460	2,471	2,412	2,613	2,298	2,851	2,949	2,828	2,430
Imports [2]	**3,281**	**5,758**	**6,557**	**5,520**	**4,908**	**5,287**	**6,205**	**5,381**	**5,481**	**5,564**	**4,875**	**5,376**
Percent of total	39.9	54.7	57.2	53.2	49.8	52.1	53.5	50.9	47.6	47.0	42.9	47.3
For human food	1,766	2,576	3,676	4,709	4,142	3,929	4,629	4,514	4,958	4,933	4,352	4,720
Finfish	(NA)	(NA)	(NA)	(NA)	3,449	3,300	3,881	3,808	4,245	4,120	3,623	3,902
Shellfish [1]	(NA)	(NA)	(NA)	(NA)	693	629	748	706	713	813	729	818
For industrial use [3]	1,515	3,182	2,881	811	766	1,358	1,576	867	523	631	523	656

NA Not available. [1]For univalvo and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. [2]Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. [3]Fish meal and sea herring.

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States,* annual, and *Fisheries of the United States,* annual.

No. 1259. Fisheries—Disposition of Domestic Catch: 1960 to 1981

[**Live weight catch in millions of pounds.** Prior to 1960, excludes Hawaii. 1977–1981 preliminary. In addition to whole fish, a large portion of waste (400–500 million lb.) derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970,* series L 305–310, for similar but not entirely comparable data]

DISPOSITION	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	**4,942**	**4,777**	**4,917**	**4,858**	**4,967**	**4,877**	**5,388**	**5,198**	**6,028**	**6,267**	**6,482**	**5,977**
Fresh and frozen	1,631	1,751	1,595	1,685	1,660	1,744	1,921	2,025	2,237	2,394	2,621	2,547
Canned	1,043	1,042	1,150	882	1,005	907	1,051	1,078	1,099	1,046	1,161	1,118
Cured	82	76	71	91	69	55	55	55	52	94	96	90
Reduced to meal, oil, etc	2,186	1,908	2,101	2,200	2,233	2,171	2,361	2,040	2,640	2,733	2,604	2,222

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States,* annual, and *Fisheries of the United States,* annual.

No. 1260. Fisheries, Selected Countries—Commercial Catch, 1975 to 1980, and Catch Per Capita, 1975

[**In billions of pounds, live weight, except per capita.** Catch of fish, crustaceans, mollusks (including weight of shells), and other aquatic plants and animals, except whales and seals. World total includes countries not shown separately]

COUNTRY	1975		1978	1979	1980
	Total	Per capita [1] (lb.)			
World total	**146.6**	**27.1**	**155.5**	**157.1**	**159.2**
United States	6.3	35.1	7.5	7.7	8.0
Japan	21.8	148.6	22.5	21.9	23.0
Soviet Union	22.0	63.3	19.7	20.1	20.8
Peru	7.6	37.9	7.4	8.1	6.0
Chile	2.0	34.8	4.3	5.8	6.2
Norway	5.5	103.6	5.7	5.8	5.3
India	5.0	7.0	5.1	5.2	5.3
Korea, Rep. of	4.2	104.3	4.6	4.8	4.6
Denmark	3.9	77.4	3.8	3.8	4.5
Indonesia	3.0	23.6	3.6	3.9	4.1
Thailand	3.4	50.5	4.6	3.8	3.6
Iceland	2.2	147.3	3.5	3.6	3.3
Philippines	3.2	73.0	3.3	3.3	3.4
Canada	2.2	40.1	3.0	3.1	2.9
Korea, D.P.R. (est.)	2.3	78.5	2.8	2.9	3.1
Spain	3.3	77.8	3.0	2.7	2.7
Vietnam (est.)	2.2	48.1	2.2	2.2	2.2
Brazil	1.7	15.2	1.8	1.9	1.9
Mexico	1.0	10.8	1.5	1.9	2.7
France	1.7	48.9	1.7	1.6	1.7
South Africa, Rep. of	1.3	15.4	1.3	1.4	1.4
Poland	1.8	45.2	1.3	1.3	1.4
United Kingdom	1.1	98.1	1.2	1.1	.9

[1]1975–1977 average.

Source: Food and Agricultural Organization of the United Nations, Rome, Italy, *Yearbook of Fishery Statistics, 1980,* vol. 50.

No. 1261. Fisheries—Catch and Value of Principal Species: 1965 to 1981

[**Catch in millions of pounds live weight, value in millions of dollars.** Data exclude landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States, and production of artificially cultivated fish and shellfish. 1979–1981 preliminary]

Species	Catch						Value					
	1965	1970	1975	1979	1980	1981	1965	1970	1975	1979	1980	1981
Fish:												
Cod, Atlantic	36	53	56	99	118	100	3	6	13	29	32	33
Flounder	180	169	162	209	217	201	18	23	44	83	82	86
Haddock	134	27	16	42	55	55	14	6	5	18	21	22
Halibut	40	35	21	21	19	27	9	9	16	35	17	21
Herring, sea	110	79	131	209	291	247	2	2	6	47	45	31
Jack mackerel	67	47	37	35	44	31	2	2	2	2	4	3
Menhaden	1,726	1,837	1,803	2,604	2,497	2105	27	34	49	109	112	81
Ocean perch, Atlantic	84	55	32	34	24	19	3	3	3	7	6	5
Pollock	12	9	21	41	43	41	1	1	2	7	7	9
Salmon, Pacific	327	410	202	536	614	648	65	99	107	413	357	438
Tuna	319	393	393	364	399	341	42	75	107	158	233	206
Whiting	83	45	42	35	36	37	2	4	4	6	6	7
Shellfish:												
Clams (meats)	71	99	113	92	95	121	17	29	43	79	90	107
Crabs	335	277	306	489	523	446	31	39	81	284	291	297
Lobsters, American	30	34	30	37	37	37	22	33	51	72	75	87
Oysters (meats)	55	54	53	48	49	50	28	29	45	66	70	69
Scallops (meats)	23	11	14	34	30	46	15	12	23	112	114	128
Shrimp	244	367	347	336	340	355	62	130	226	472	403	463

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1262. Prices Received by Fishermen and Vessel Owners: 1965 to 1981

[**Cents per pound. Live weight.** 1977–1981 data are preliminary. Based on prices received by fishermen and vessel owners. See also *Historical Statistics, Colonial Times to 1970*, series L 321–337]

Species	Point of pricing	1965	1970	1974	1975	1977	1978	1979	1980	1981
Clams, soft	Maine	49.1	47.5	76.4	86.9	118.3	124.3	144.6	150.7	156.7
Cod	Massachusetts	9.4	13.1	19.6	24.2	22.6	25.4	29.3	27.3	33.0
Crabs, blue, hard	Maryland, Virginia	7.6	6.6	12.7	15.7	20.1	20.5	19.1	20.3	23.4
Flounder	Massachusetts	9.5	15.3	26.5	34.9	41.7	50.5	47.2	42.4	57.9
Haddock	Massachusetts	10.2	25.8	36.9	32.8	31.9	31.9	42.6	38.7	39.4
Lobsters, American	Maine	75.2	94.7	141.0	161.5	173.6	177.1	180.3	189.7	206.6
Menhaden	(No specific point)	1.6	1.8	3.3	2.7	3.8	3.8	4.2	4.5	3.8
Ocean perch	Maine, Massachusetts	4.1	4.9	8.1	10.3	15.3	17.1	21.0	23.0	28.3
Oysters, eastern	Maryland, Virginia	76.6	61.1	70.1	80.1	110.7	110.7	125.9	131.3	128.2
Salmon, chinook	(No specific point)	37.1	55.4	64.2	85.9	137.6	133.8	173.5	166.3	182.5
Salmon, coho	(No specific point)	26.8	39.3	67.8	77.6	107.4	118.6	142.5	109.7	94.5
Sea scallops	New Bedford, Mass.	67.5	135.6	154.3	188.8	165.8	253.5	340.3	518.0	409.6
Shrimp	So. Atlantic, Gulf	36.6	47.6	73.3	107.0	113.3	130.6	185.4	149.0	173.1
Tuna, albacore	(No specific point)	15.7	26.7	38.5	33.3	58.7	60.6	64.7	80.1	91.0

Source: U.S. National Oceanic and Atmospheric Administration, *Prices Received by Fishermen*, H.S. No. 12 (C.F.S. No. 4657 Revised), *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1263. Commercial Fishery Products—Per Capita Consumption: 1950 to 1981

[**Pounds of edible meat.** 1977–1981 preliminary. Based on U.S. Bureau of the Census estimates of the civilian resident population as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L 294–304]

Product	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	11.8	10.5	10.3	10.8	11.8	12.5	12.8	12.1	12.2	12.9	12.7	13.4	13.0	12.8	13.0
Fresh and frozen	6.3	5.9	5.7	6.0	6.9	7.1	7.4	6.9	7.5	8.2	7.7	8.1	7.8	8.0	7.8
Fish [1]	4.7	4.2	3.8	3.8	4.5	4.7	5.2	4.4	4.9	5.6	5.1	5.5	5.4	5.5	5.0
Shellfish	1.6	1.7	1.9	2.2	2.4	2.4	2.2	2.5	2.6	2.6	2.6	2.6	2.4	2.5	2.8
Canned	4.9	3.9	4.0	4.3	4.5	4.9	5.0	4.7	4.3	4.2	4.6	5.0	4.8	4.5	4.8
Tuna	1.1	1.4	2.0	2.3	2.5	2.9	3.1	3.1	2.9	2.8	2.9	3.3	3.3	2.9	3.1
Salmon	1.4	1.0	.7	.9	.7	.7	.4	.3	.4	.4	.5	.6	.6	.5	.5
Shellfish	.4	.4	.4	.5	.5	.5	.5	.5	.4	.4	.6	.5	.5	.5	.5
Sardines	1.4	.6	.4	.3	.4	.4	.5	.4	.2	.3	.3	.3	.3	.3	.4
Other	.6	.5	.5	.3	.4	.4	.5	.4	.4	.3	.3	.4	.3	.3	.3
Cured	.6	.7	.6	.5	.4	.5	.4	.5	.4	.5	.4	.3	.4	.3	.4

[1] Beginning 1973, includes consumption of artificially cultivated catfish.

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1264. Catch, Catch Limits, and Principal Species Caught by Countries in the U.S. Fishery Conservation Zone (FCZ), by Country: 1980 and 1981

[In millions of pounds live weight. Data are preliminary. Excludes tuna. (In 1980, U.S. domestic catch of tuna in FCZ was 25 mil. lb., and in 1981 35 mil. lb.). Allocations (catch limits) set by species for countries fishing within 200 to 300 miles of U.S. shores. For details, see text, p. 703, and source]

COUNTRY	ACTUAL CATCH		ALLOCATION		Principal species caught
	1980	1981	1980	1981	
Total catch in FCZ	**5,591**	**5,968**	(x)	(x)	**Pollock, menhaden, whiting.**
U.S.	2,003	2,320	(x)	(x)	Pollock, menhaden, Atlantic cod.
Foreign	3,588	3,648	[1] 4,799	[1] 4,638	(x).
Japan	2,602	2,559	3,095	3,140	Pollock, flounder, Pacific cod.
U.S.S.R.	128	(x)	169	(x)	Whiting, Alaska pollock, flounder.
Korea, Rep. of	463	536	534	592	Pollock, Pacific cod, flounder.
Poland	239	362	529	508	Herring, whiting, squid.
Canada	65	66	(x)	(x)	Scallops, Atlantic cod, haddock.
Spain	39	43	79	62	Squid, whiting, butterfish.
Italy	21	27	52	50	Squid, butterfish, hake.
Germany, Fed. Rep. of	14	26	53	53	Alaska pollock, Pacific cod, Atka mackerel.
Bulgaria	(x)	16	1	50	Whiting, jack mackerel, rockfishes.
Ireland	(x)	(x)	(x)	(x)	Squid, herring, mackerel.
Mexico	3	(x)	64	(x)	Squid, butterfish, pollock.
China (Taiwan)	12	13	22	48	Pollock, Pacific cod, flounder.
Cuba	2	(x)	19	15	Mackerel (Atl.), whiting, herring.
Romania	(z)	(x)	4	(x)	Mackerel (Atl.), whiting, squid.

X Not applicable. Z Less than 500,000. [1] Includes countries not shown separately.

No. 1265. U.S. Catch and Value of Fish and Shellfish, by Distance Caught Off U.S. Shores—Selected Species: 1981

[Preliminary. Catch is shown in live weight, except as indicated. Includes landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States and catch by U.S. flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture)]

SPECIES	Total U.S. catch [1] (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch [1] (mil. dol.)	PERCENT OF TOTAL VALUE, BY DISTANCE CAUGHT OFF U.S. SHORES		
		Catch (mil. lb.)			Percent of U.S. catch						
		3 miles or less [2]	3 to 200 miles	Over 200 mi.	3 miles or less [2]	3 to 200 miles	Over 200 mi.		3 miles or less [2]	3 to 200 miles	Over 200 mi.
Fish, total [3]	**5,281.8**	**2,988.7**	**1,818.1**	**475.0**	**56.6**	**34.4**	**9.0**	**1,296.1**	**49.7**	**30.1**	**20.2**
Cod, Atlantic	122.6	10.0	110.0	2.6	18.1	80.3	1.6	37.5	16.7	82.1	1.2
Flounder	249.5	27.0	219.6	2.9	10.8	88.0	1.2	69.3	14.2	85.0	.8
Haddock	55.3	.3	54.4	.6	.7	98.3	1.0	22.0	.7	98.1	1.2
Halibut	26.9	13.7	13.2	(z)	51.0	49.0	(z)	21.5	49.5	50.5	(z)
Herring, sea	247.0	216.3	30.7	-	87.6	12.4	-	30.5	95.0	5.0	-
Jack mackerel	31.0	2.9	28.1	-	9.5	90.5	-	2.8	9.5	90.5	-
Menhaden	2,105.4	1,692.8	412.6	-	80.4	19.6	-	81.3	80.5	19.5	-
Ocean perch	24.0	(z)	22.4	1.6	.1	93.1	6.8	6.2	.2	92.7	7.1
Salmon, Pacific	648.4	635.3	13.0	.2	98.0	2.0	(z)	438.2	94.7	5.3	(z)
Tuna	489.9	.6	34.9	454.4	.1	7.1	92.8	285.6	(z)	11.2	88.8
Whiting	36.5	2.3	34.2	(z)	6.2	93.6	(z)	7.4	6.7	93.3	(z)
Shellfish [3]	**1,168.8**	**615.0**	**536.4**	**17.4**	**52.6**	**45.9**	**1.5**	**1,221.4**	**42.8**	**54.7**	**2.5**
Clams (meats)	120.6	48.0	72.6	-	39.8	60.2	-	107.1	28.5	71.5	-
Crabs	446.0	259.7	186.3	-	58.2	41.8	-	296.6	39.2	60.8	-
Lobsters	44.1	35.9	7.8	.4	81.3	17.7	1.0	105.9	77.8	21.1	1.1
Scallops (meats)	45.6	6.0	39.6	(z)	13.2	86.8	(z)	127.6	9.6	90.4	(z)
Shrimp	354.6	132.2	222.4	-	37.3	62.7	-	463.4	31.7	68.3	-

- Represents zero. Z Less than 50,000 pounds or .05 percent. [1] Includes catch from international waters or off foreign shores. [2] Includes all landings in Great Lakes and other inland waters. [3] Includes other species not shown separately.

No. 1266. Supply of Tuna, Salmon, and Sardines: 1965 to 1981

[In million of pounds. 1977-81 preliminary]

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Tuna: Domestic landings, live weight	373	478	519	557	570	665	469	566	508	500	490
Imports, fresh and frozen, live weight	379	465	317	839	517	641	670	862	800	767	765
Canned tuna, total supply	410	510	675	714	582	658	583	757	674	666	710
From domestic landings	162	204	224	250	261	287	207	257	218	215	222
From imported fresh and frozen	197	234	412	411	269	312	341	448	402	387	418
Imported canned	51	72	39	53	52	59	35	52	54	64	71
Canned salmon, for U.S. consumption	150	168	55	80	58	108	130	132	100	128	155
Domestic pack	174	183	72	88	78	125	151	164	150	202	218
Exports	25	17	17	8	23	20	21	33	51	74	63
Canned sardines, total supply	75	66	91	94	57	79	74	75	80	71	93
Maine sardines	30	19	23	25	26	25	23	26	30	20	38
Imports	45	47	67	69	31	54	50	49	50	51	55

Source of tables 1264-1266: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1267. Fisheries—Quantity and Value of Catch, by States, and Catch of Principal Species, by Areas: 1960 to 1981

[Catch in millions of pounds, live weight, except as indicated; ex-vessel value in millions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series L 262–293]

Area, State, Catch, and Value	1960	1965	1970	1974	1975	1976	1977, prel.	1978, prel.	1979, prel.	1980, prel.	1981, prel.
New England:											
Catch	852	702	531	523	498	547	581	661	709	788	697
Value	61	75	91	124	154	174	203	256	302	327	356
Maine:											
Catch	295	205	159	148	138	178	182	190	232	245	238
Value	20	22	31	41	48	54	62	69	80	93	104
New Hampshire:											
Catch	1	1	1	3	3	3	4	5	8	19	8
Value	(z)	1	1	1	1	1	2	2	3	5	4
Massachusetts:											
Catch	480	442	287	270	274	289	319	377	375	438	370
Value	36	46	47	62	83	96	114	152	176	178	197
Rhode Island:											
Catch	69	49	79	97	79	72	72	84	88	81	80
Value	4	5	11	17	19	21	23	29	36	46	49
Connecticut:											
Catch	6	5	5	5	4	5	4	5	6	5	1
Value	1	2	2	3	3	2	2	4	7	5	2
Catch for certain species:											
Cod	35	35	53	58	55	55	75	86	97	118	100
Flounder	62	112	104	81	77	80	88	87	98	118	112
Haddock	119	134	27	8	16	13	28	39	42	55	55
Herring, sea	155	75	66	71	79	110	112	111	143	184	139
Lobster, American	29	29	30	26	29	30	30	34	36	36	36
Ocean perch, Atlantic	141	84	55	41	32	32	35	36	34	24	19
Pollock	22	12	9	20	21	24	29	39	34	40	37
Whiting	104	75	40	20	33	37	33	35	16	18	20
Middle Atlantic:											
Catch	784	356	140	211	188	269	213	201	228	244	228
Value	22	25	30	44	50	69	70	79	92	97	95
New York:											
Catch	126	147	32	35	37	35	32	36	37	39	36
Value	9	12	16	25	28	32	31	34	38	45	45
New Jersey:											
Catch	374	160	98	167	144	227	179	164	189	201	189
Value	10	11	13	17	20	35	38	44	53	50	48
Delaware:											
Catch	284	48	10	9	7	7	2	1	2	4	3
Value	3	1	1	2	2	2	1	1	1	2	2
Catch for certain species:											
Clams (meats)	32	52	63	42	53	43	50	43	46	40	49
Menhaden	671	151	31	108	67	151	98	83	100	121	104
Oysters (meats)	1	1	1	3	3	4	2	2	3	3	2
Scup or porgy	27	17	4	10	10	9	9	11	8	8	10
Chesapeake Bay:											
Catch	436	592	630	597	509	587	668	599	639	717	603
Value	35	40	41	58	56	74	86	94	122	130	126
Maryland:											
Catch	69	87	80	70	64	58	60	60	66	80	115
Value	14	13	19	22	23	31	31	33	37	45	57
Virginia:											
Catch	367	505	551	530	445	529	608	539	573	637	488
Value	21	27	22	36	33	43	55	61	85	85	69
Catch for certain species:											
Alewives	19	38	21	15	12	4	1	2	2	1	1
Clams (meats)	8	11	23	67	47	24	28	28	30	36	38
Crabs	71	86	70	68	62	47	59	54	66	65	64
Menhaden	249	360	450	385	322	446	509	428	461	546	411
Oysters (meats)	27	21	25	25	23	21	18	22	20	21	22
South Atlantic:											
Catch	379	357	280	305	333	318	345	399	488	473	543
Value	20	27	30	51	64	74	72	96	145	148	138
North Carolina:											
Catch	265	234	173	207	238	226	252	300	390	356	432
Value	7	9	9	18	20	28	29	41	58	69	58
South Carolina:											
Catch	24	27	16	19	20	21	16	21	21	21	16
Value	4	5	4	7	13	14	10	16	26	20	14
Georgia:											
Catch	28	20	14	18	18	15	13	17	22	19	19
Value	3	4	4	7	12	12	9	14	28	20	13
Florida (east coast):											
Catch	61	76	76	61	57	56	64	61	55	77	76
Value	6	8	12	19	19	20	24	25	33	39	53
Catch for certain species:											
Crabs	45	46	43	38	31	27	31	47	49	55	60
Menhaden	215	192	136	134	167	145	171	206	259	218	324
Shrimp	31	26	21	27	25	26	18	20	32	33	17

See footnotes at end of table.

No. 1267. Fisheries—Quantity and Value of Catch, by States, and Catch of Principal Species, by Areas: 1960 to 1981—Continued

[Catch in millions of pounds, live weight, except as indicated; ex-vessel value in millions of dollars. 1977-1981 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 262-293]

Area, State, Catch, and Value	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Gulf States:											
Catch	1,266	1,463	1,698	1,776	1,654	1,743	1,476	2,287	2,129	1,979	1,700
Value	65	114	167	242	271	386	405	473	530	463	554
Florida (west coast):											
Catch	136	136	116	123	116	111	103	110	108	115	139
Value	21	27	31	52	57	69	71	73	91	86	119
Alabama:											
Catch	12	18	30	34	31	32	34	30	31	25	32
Value	3	5	10	17	21	34	37	35	49	25	43
Mississippi:											
Catch	314	368	298	301	306	288	313	374	379	332	260
Value	8	9	11	16	14	21	26	27	32	25	29
Louisiana:											
Catch	566	787	1,107	1,223	1,115	1,219	918	1,674	1,529	1,412	1,161
Value	26	37	61	86	86	135	138	190	199	174	190
Texas:											
Catch	238	154	147	94	86	93	108	99	80	94	108
Value	28	36	53	72	93	127	133	148	159	153	173
Catch for certain species:											
Crabs	36	38	36	43	41	39	43	41	42	45	41
Menhaden	841	1,023	1,209	1,296	1,197	1,238	986	1,809	1,718	1,548	1,218
Mullet	33	34	27	28	26	19	16	27	22	31	32
Oysters (meats)	16	19	18	15	19	22	18	18	15	17	17
Shrimp	206	195	230	186	170	210	266	248	207	208	268
Great Lakes: [1]											
Catch	68	56	72	78	62	67	65	68	49	44	39
Value	7	6	6	11	9	11	9	10	11	14	12
Superior:											
Catch	14	9	5	6	5	6	5	5	(NA)	(NA)	(NA)
Value	1	1	1	2	2	2	2	2	(NA)	(NA)	(NA)
Michigan:											
Catch	24	27	53	60	45	46	46	51	(NA)	(NA)	(NA)
Value	2	2	4	6	4	5	2	4	(NA)	(NA)	(NA)
Huron:											
Catch	6	5	2	2	2	2	2	2	(NA)	(NA)	(NA)
Value	1	1	(z)	(z)	1	1	1	1	(NA)	(NA)	(NA)
Erie:											
Catch	21	14	10	10	8	9	10	10	(NA)	(NA)	(NA)
Value	2	1	1	2	2	3	3	3	(NA)	(NA)	(NA)
Pacific Coast:											
Catch	1,061	1,147	1,480	1,391	1,551	1,771	1,777	1,741	1,925	2,140	2,070
Value	112	148	235	381	352	538	651	821	1,006	1,025	1,063
Washington:											
Catch	113	127	134	147	146	142	146	138	170	156	185
Value	16	18	30	59	61	72	81	97	115	86	96
Oregon:											
Catch	49	69	98	96	86	95	113	135	128	126	135
Value	6	9	23	37	26	40	49	57	65	56	52
California:											
Catch	541	458	703	685	875	917	874	722	728	804	775
Value	50	51	86	140	135	187	195	228	227	323	275
Alaska:											
Catch	358	492	545	463	445	617	644	746	899	1,054	975
Value	41	70	96	145	130	239	326	439	597	560	640
Catch for certain species:											
Anchovies	5	6	193	177	329	264	232	35	117	107	127
Bonito	1	6	9	19	32	9	23	8	5	14	17
Crabs	65	161	126	174	164	222	260	301	326	347	235
Flounder	48	46	46	54	57	62	52	63	68	60	62
Halibut	51	40	34	18	21	18	18	17	21	19	27
Herring, sea	84	35	22	56	57	43	44	43	66	107	108
Jack mackerel	75	67	48	25	37	45	110	68	35	44	31
Salmon	235	327	410	201	202	310	336	404	536	614	648
Shrimp	12	20	93	141	140	168	192	154	96	98	67
Tuna	288	296	378	381	381	474	329	394	349	387	327
Mississippi River and tributaries:											
Catch	86	85	75	68	72	71	55	58	86	85	85
Value	8	8	10	14	15	14	11	13	15	21	25
Hawaii:											
Catch	11	20	11	11	9	15	15	14	14	11	13
Tuna	9	17	9	9	7	12	12	11	12	7	8
Value	3	4	4	6	6	9	9	12	11	12	18

NA Not available. Z Less than $500,000. [1] Collected largely by State fishery agencies, and compiled by National Marine Fisheries Service. Includes, in addition to lakes shown, small amounts for Lake Ontario, Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1268. Fresh and Frozen Fishery Products: 1970 to 1981

[Excludes Alaska and Hawaii, except frozen fishery products includes Alaska and Hawaii]

Product	Production (mil. lb.)						Value (mil. dol.)					
	1970	1975	1978	1979	1980	1981	1970	1975	1978	1979	1980	1981
Fish fillets and steaks [1]	133.5	131.9	184.4	187.2	202.1	208.4	74.8	137.9	241.3	260.9	261.2	304.5
Cod	13.6	15.2	27.2	33.0	31.3	40.6	7.4	14.6	35.2	44.8	43.2	65.7
Flounder	46.7	41.9	46.3	47.8	48.9	53.8	28.7	53.1	83.5	87.9	87.4	101.6
Haddock	8.9	8.2	17.4	19.3	17.2	17.4	6.9	12.3	26.2	33.3	29.0	32.2
Ocean perch, Atlantic	16.0	8.4	9.2	8.6	7.1	5.4	4.9	5.7	9.9	10.0	9.3	7.5
Whiting	.8	.1	.8	.5	.6	.2	.3	.1	.5	.4	.5	.2
Other	47.6	58.1	83.5	78.0	97.0	91.0	26.6	52.1	86.0	84.5	91.8	97.3
Frozen fishery products	388.3	299.7	309.2	268.9	228.2	220.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Fresh and frozen.

No. 1269. Canned Fishery Products—Production and Value: 1970 to 1981

[See also *Historical Statistics, Colonial Times to 1970,* series L 338-357 (production data in cases) and L 358]

Product	Production (mil. lb.)							Value (mil. dol.)						
	1970	1975	1977, prel.	1978, prel.	1979, prel.	1980, prel.	1981, prel.	1970	1975	1977, prel.	1978, prel.	1979, prel.	1980, prel.	1981, prel.
Total [1]	1,346	1,386	1,436	1,615	1,441	1,519	1,604	742	1,071	1,575	1,913	1,752	1,950	2,180
Tuna	438	529	548	705	620	602	639	381	653	907	1,273	1,104	1,144	1,282
Salmon	183	78	151	164	150	202	218	139	115	243	249	275	404	416
Clam products	65	76	73	69	73	85	86	26	42	65	60	61	75	76
Jack mackerel [2]	8	10	31	32	26	38	46	2	3	12	10	8	12	11
Sardines, Maine	19	26	23	26	30	20	38	11	25	27	36	45	32	55
Shrimp	25	12	25	17	10	17	71	37	28	71	49	40	13	60
Crabs	5	3	5	5	5	5	4	10	10	19	22	24	23	19
Squid	9	8	7	8	4	4	6	1	2	2	2	1	1	2
Oysters	2	2	1	1	1	6	5	2	4	3	1	1	5	6

[1] Includes other products, not shown separately. [2] Includes a small amount of Pacific mackerel.

No. 1270. Processed Fishery Products—Summary: 1970 to 1981

[Includes Puerto Rico and American Samoa. See *Historical Statistics, Colonial Times to 1970,* series L 362-365, for meal, scrap, and oil. 1978-81 preliminary]

Product	Production (mil. lb.[1])						Value (mil. dol.)					
	1970	1975	1978	1979	1980	1981	1970	1975	1978	1979	1980	1981
Total	(X)	(X)	(X)	(X)	(X)	(X)	1,727	2,655	4,467	4,479	4,456	4,908
Packaged fresh and frozen	1,158	1,113	[2] 1,344	[2] 1,328	[2] 1,183	(NA)	800	1,309	[2] 2,183	[2] 2,352	2,110	2,372
Fish not breaded:												
Fillets and steaks, raw	134	132	184	187	202	208	75	138	241	261	261	305
Dressed	32	55	51	35	40	(NA)	9	43	61	45	58	(NA)
Other [3]	10	26	50	51	43	(NA)	4	22	59	41	36	(NA)
Fish breaded, raw or cooked:												
Sticks	116	91	94	96	88	92	58	62	87	100	89	99
Fillets, portions, and steaks	296	286	377	392	326	(NA)	137	211	406	428	368	(NA)
Shellfish: Not breaded	328	315	369	364	325	(NA)	343	534	914	1,009	885	(NA)
Breaded, raw and cooked	119	128	143	129	113	(NA)	129	220	325	348	321	(NA)
Specialties, fish and shellfish	123	80	76	73	46	(NA)	45	79	90	122	92	(NA)
Canned products [4]	1,346	1,386	1,616	1,441	1,519	1,604	742	1,072	1,913	1,752	1,950	2,180
Fish and shellfish	805	802	1,076	961	1,013	1,082	633	920	1,748	1,602	1,804	1,966
Animal food	540	583	539	480	507	522	105	148	165	150	146	213
Cured fish [5]	71	55	45	41	46	(NA)	77	102	118	112	125	136
Salted (incl. spiced, pickled) [6]	39	30	20	18	23	(NA)	30	44	36	32	35	(NA)
Smoked	31	24	23	21	22	(NA)	43	56	76	77	86	(NA)
Dried (cod) lutefisk [6]	1	1	2	2	1	(NA)	4	2	6	3	4	(NA)
Industrial products	(X)	(X)	(X)	(X)	(X)	(X)	108	173	251	262	272	220
Meal and scrap (mil. tons)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	46	66	121	131	134	119
Oil (body and liver)	206	246	296	268	313	184	18	33	61	54	58	33
Fish solubles (mil tons)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	5	9	22	15	14	15
Other	(X)	(X)	(X)	(X)	(X)	(X)	38	67	47	62	66	53

NA Not available. X Not applicable. Z Less than 500,000 tons. [1] Except as indicated. [2] Excludes Alaska. [3] Includes bait and unbreaded portions. [4] Includes salmon eggs for bait. [5] Includes sun-dried and freeze-dried. [6] In 1970 and 1975 dried cod was included in salted.

Source of tables 1268-1270: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States,* annual, and *Fisheries of the United States,* annual.

No. 1271. Fishery Products—Imports and Exports: 1960 to 1981

[Includes Puerto Rico; imports also include landings of tuna by foreign vessels in American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

Year	Imports				Exports			
	Total value (mil. dol.)	Edible products		Non-edible, value (mil. dol.)	Total value (mil. dol.)	Edible products		Non-edible, value (mil. dol.)
		Quantity (mil. lb.)	Value (mil. dol.)			Quantity (mil. lb.)	Value (mil. dol.)	
1960	363	1,095	311	53	44	61	26	19
1965	601	1,399	479	121	70	96	49	20
1970	1,037	1,873	813	225	118	140	94	24
1973	1,583	2,416	1,398	185	299	239	242	57
1974	1,711	2,267	1,495	215	262	178	195	67
1975	1,637	1,913	1,367	270	305	218	267	37
1976	2,332	2,228	1,917	415	385	241	330	55
1977	2,623	2,177	2,079	544	520	331	473	47
1978	3,077	2,411	2,253	823	906	448	832	74
1979	3,811	2,369	2,668	1,143	1,082	554	1,020	62
1980	3,648	2,145	2,686	962	1,006	574	904	102
1981, prel.	4,173	2,272	3,033	1,140	1,157	669	1,073	84

Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

No. 1272. Selected Fishery Products—Imports and Exports: 1970 to 1981

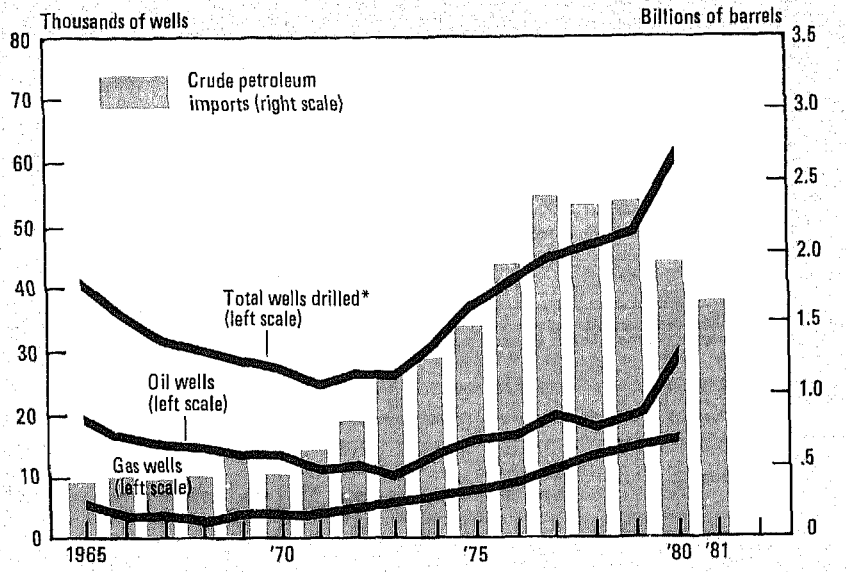
[Includes Puerto Rico. See *Historical Statistics, Colonial Times to 1970*, series L 312-318, for selected imports]

Product	Quantity (mil. lb.)						Value (mil. dol.)					
	1970	1975	1978	1979	1980	1981, prel.	1970	1975	1978	1979	1980	1981, prel.
IMPORTS												
Edible:												
Fresh or frozen:												
Whitefish [1]	8.4	8.4	11.4	7.6	8.2	7.5	4.8	5.6	8.6	7.4	8.0	7.2
Halibut [1]	18.2	8.0	7.0	4.1	6.3	6.3	8.1	8.0	10.8	7.4	9.3	10.1
Salmon [1]	7.4	9.2	6.6	5.0	5.5	6.5	6.7	11.5	13.6	11.4	13.9	15.9
Sea herring	103.9	99.2	72.0	40.1	22.0	14.3	1.9	5.1	5.5	1.9	3.6	3.0
Smelt	8.5	8.8	10.4	12.6	11.3	12.6	1.6	3.2	4.4	6.0	4.8	6.5
Tuna	442.8	478.6	808.2	753.6	722.7	721.3	100.5	121.2	327.2	321.6	429.3	478.6
Groundfish fillets, blocks [2]	458.8	513.8	639.4	661.1	557.1	601.3	134.6	278.4	565.4	622.3	545.8	420.7
Other fillets and steaks	136.1	167.6	190.6	174.6	148.2	157.0	63.6	117.3	178.7	185.4	158.4	194.2
Scallops (meats)	16.8	19.7	28.4	25.2	20.9	26.2	19.7	37.2	72.8	84.9	82.0	112.7
Lobster, American and spiny	54.9	58.1	56.2	60.7	50.5	55.8	93.8	188.6	256.3	298.5	270.6	308.7
Shrimp and prawn	214.8	201.5	195.5	220.2	215.1	218.4	196.8	346.2	418.4	705.0	711.2	715.0
Canned:												
Anchovies, in oil	5.5	3.6	4.8	3.6	4.5	4.3	6.3	5.6	9.6	7.4	13.2	13.5
Salmon	2.4	3.3	.3	.4	.2	.1	1.6	3.9	.7	.8	.4	.1
Sardines, in oil	34.1	18.5	24.2	22.9	18.2	18.2	15.8	16.3	25.5	27.7	24.2	25.1
Sardines, herring, not in oil	25.3	24.9	32.1	34.0	38.5	43.2	8.3	15.9	22.9	25.8	28.4	35.8
Tuna	72.3	51.7	51.8	53.7	63.6	70.9	44.3	46.0	63.8	65.1	97.3	110.4
Bonito and yellowtail	1.2	.1	.4	.4	.8	.9	.5	.1	.4	.3	.6	.8
Crab meat	2.8	1.4	4.1	5.1	5.0	5.0	5.3	2.9	9.5	12.3	12.5	13.2
Oysters	15.0	12.4	23.5	19.1	17.0	20.4	8.1	8.4	24.6	18.3	20.3	24.0
Lobster, American and spiny	2.5	2.1	2.4	1.9	2.2	3.1	8.0	10.9	15.7	11.7	12.8	20.4
Pickled or salted:												
Cod, haddock, hake, pollock, cusk	41.2	33.6	37.6	39.7	33.0	45.3	13.6	26.8	38.3	43.3	36.0	56.2
Herring	30.6	20.6	25.0	17.2	16.7	20.1	5.4	6.6	13.6	9.4	10.4	11.5
Nonedible scrap and meal	**502.0**	**236.7**	**87.8**	**179.2**	**99.0**	**118.9**	**37.7**	**23.6**	**12.6**	**29.6**	**15.5**	**20.5**
EXPORTS												
Canned salmon	16.8	22.5	32.5	50.7	74.0	63.5	13.1	34.6	49.2	91.9	150.0	128.6
Canned sardines	1.5	2.2	1.6	1.6	1.8	1.7	.7	1.8	1.5	1.2	1.4	1.7
Fish oil, nonedible	**158.8**	**191.8**	**222.0**	**198.5**	**284.0**	**238.3**	**15.7**	**27.8**	**42.3**	**39.6**	**52.4**	**42.6**

[1] Excludes fillets. [2] Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting.

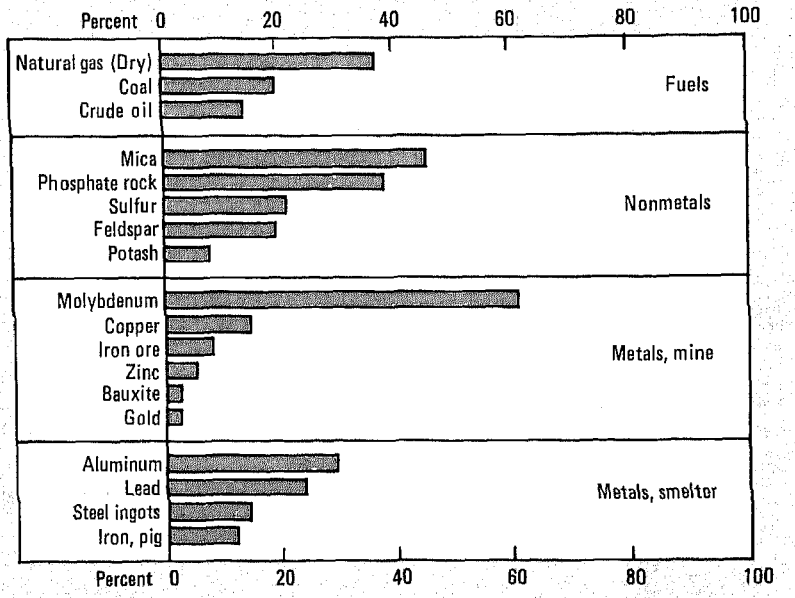
Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

Figure 27.1
Crude Petroleum and Natural Gas—Wells Drilled and Imports of Crude Petroleum: 1965 to 1981



*Includes dry holes.
Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1291 and 1296.

Figure 27.2
U.S. Mineral Production As Percent of World Total: 1980



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1286.

Section 27

Mining and Mineral Products

This section presents data relating to mineral industries and their products, general summary measures of production and employment, and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in sections 29 and 33 of this *Abstract;* data on mining employment may be found in section 13.

"Mining" comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, refining and processing and other preparation customarily done at the mine or well site or as a part of extraction activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

The principal governmental sources of these data are the three-volume *Minerals Yearbook,* published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Non-government sources include the *Annual Statistical Report* of the American Iron and Steel Institute, Washington, D.C.; *Metals Week* and the monthly *Engineering and Mining Journal,* issued by the McGraw-Hill Publishing Co., New York; *The Iron Age,* issued weekly by the Chilton Co., Philadelphia; and the *Joint Association Survey of the U.S. Oil and Gas Industry,* conducted by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel 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 U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, and accidents and injuries in the mineral industries, except petroleum and natural gas. In October 1977, fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every fifth year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series. Included in this series, beginning in 1973, is the *Annual Survey of Oil and Gas.*

In general, figures shown in the individual commodity tables include data for outlying areas, and may therefore not agree with summary table 1285. Except for crude petroleum and refined products, the export and import figures include foreign trade passing through the customs districts of United States and Puerto Rico, but exclude shipments between U.S. territories and the customs districts.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix I.

No. 1273. Summary of Mineral Operations: 1958 to 1977

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11]

ITEM	Unit	1958	1963	1967	1972	1977
Establishments	Number	36,392	36,651	28,579	25,269	31,359
With 20 or more employees	Number	6,045	5,499	5,682	5,312	6,632
Including all operations in manufactures	Number	37,966	40,532	29,688	26,178	31,967
Excluding oil and gas extraction	Number	19,444	19,290	13,330	11,680	13,520
Employees, total	1,000	734	616	567	595	799
Production workers [1]	1,000	565	482	433	443	593
All other	1,000	169	134	134	152	206
Workerhours, production workers [1]	Million	1,081	973	892	909	1,183
Workerhours per production workers	1,000	1.9	2.0	2.1	2.1	2.0
Payroll, total	Mil. dol	3,749	3,743	4,187	6,226	13,167
Wages, production workers [1]	Mil. dol	2,623	2,680	2,888	4,250	9,082
Salaries, all other employees	Mil. dol	1,126	1,063	1,299	1,976	4,085
Cost of supplies, etc., and purchased machinery installed	Mil. dol	7,521	8,974	10,576	14,884	46,079
Value added in mining	Mil. dol	13,385	15,910	19,330	26,471	68,013
Metal mining	Mil. dol	1,180	1,418	1,557	2,382	3,504
Coal mining	Mil. dol	1,780	1,727	2,091	3,754	11,266
Oil and gas extraction	Mil. dol	9,033	11,020	13,394	17,612	48,587
Nonmetallic minerals mining	Mil. dol	1,392	1,745	2,288	2,723	4,656
Value of shipments and receipts	Mil. dol	16,373	18,804	22,784	36,319	96,375
Capital expenditures	Mil. dol	2,804	3,264	4,058	5,036	17,718

[1] *See footnote 4, table 1279.*

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972* and *1977.*

No. 1274. National Income Originating in Mining: 1960 to 1981

[**In billions of dollars, except percent.** Data are without capital consumption adjustment. For definition of national income, see text, p. 415. See *Historical Statistics, Colonial Times to 1970*, series F 228, for single-year figures prior to revisions issued in 1981]

TYPE OF MINING	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total mining	**5.6**	**6.1**	**8.0**	**8.8**	**10.5**	**16.0**	**18.6**	**20.9**	**22.8**	**24.2**	**30.1**	**37.4**	**44.9**
Percent of total national income	1.3	1.1	1.0	.9	1.0	1.4	1.5	1.5	1.4	1.3	1.5	1.7	1.9
Metal mining	.8	.9	1.2	1.1	1.5	1.6	1.6	1.8	1.7	2.0	2.8	3.1	3.5
Coal mining	1.3	1.4	2.3	2.6	3.0	5.6	6.5	6.2	6.8	7.1	8.4	9.5	9.7
Oil and gas extraction	2.6	2.7	3.2	3.6	4.1	6.8	8.3	10.7	11.7	12.0	15.7	21.0	28.0
Nonmetallic minerals, exc. fuels	.9	1.1	1.3	1.6	1.9	2.1	2.2	2.3	2.6	3.1	3.3	3.8	3.8

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-76*, and *1976-79*, and *Survey of Current Business*, July issues.

No. 1275. Mining and Primary Metal Production Indexes: 1960 to 1981

[*1967 = 100.* For a discussion of revisions to the industrial production measures, see Board of Governors of the Federal Reserve, *Industrial Production*, 1976 Revision. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

INDUSTRY GROUP	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Mining	**80.3**	**93.2**	**112.2**	**114.7**	**115.3**	**112.6**	**114.2**	**118.2**	**124.0**	**125.5**	**132.7**	**142.2**
Coal	79.2	93.8	108.0	104.8	104.8	113.4	117.2	121.9	114.7	135.6	146.7	141.3
Anthracite	165.0	120.7	79.2	54.9	50.9	50.1	51.9	50.2	53.4	46.7	43.7	49.2
Bituminous	75.6	92.6	109.2	106.8	108.7	116.0	119.9	124.9	117.2	139.3	150.9	145.0
Oil and gas extraction	77.9	90.5	111.6	113.7	114.4	113.3	112.0	118.0	124.6	121.7	133.3	146.8
Crude oil and natural gas	77.5	88.4	111.6	108.4	103.6	97.9	95.4	95.7	99.1	97.3	97.9	98.2
Crude oil	79.9	88.7	109.3	104.4	99.7	94.9	92.2	92.3	96.9	94.6	94.9	95.1
Natural gas	70.5	89.2	121.3	125.9	120.7	111.0	109.6	110.9	108.6	109.2	111.1	111.8
Natural gas liquids	66.5	86.3	117.5	122.8	119.3	115.3	114.5	116.2	113.2	110.9	102.7	(NA)
Oil and gas drilling	90.2	109.1	108.3	146.5	189.3	222.8	230.1	279.3	315.2	303.8	405.8	523.4
Metal mining	111.5	114.8	131.9	130.2	125.6	115.8	122.8	105.5	121.0	127.0	109.2	123.1
Iron ore	93.6	98.5	112.1	112.6	110.4	105.4	105.4	74.3	110.0	117.1	96.6	104.4
Nonferrous ores	121.4	123.6	149.6	146.0	139.2	125.1	138.4	133.3	130.8	135.7	120.4	139.8
Copper ore	112.5	140.7	179.0	179.8	167.0	147.0	167.2	158.1	155.6	165.6	134.7	173.5
Lead and zinc ores	87.7	108.2	122.1	113.9	120.2	111.0	108.5	103.3	89.8	83.9	89.0	77.0
Primary metals, manufacturing	**72.4**	**102.1**	**106.6**	**126.7**	**123.1**	**96.4**	**109.7**	**111.1**	**119.9**	**121.3**	**102.3**	**107.9**
Nonferrous metals	61.8	95.0	109.9	134.5	129.0	97.5	118.5	124.1	131.9	135.8	119.8	122.4
Copper	122.3	151.5	162.7	160.5	139.9	123.0	138.2	128.0	135.8	145.9	113.1	135.6
Aluminum	61.1	84.2	121.6	138.6	150.1	118.8	129.7	138.8	147.0	153.6	156.5	151.4
Iron and steel	77.7	105.2	104.7	122.3	119.8	95.8	104.8	103.8	113.2	113.2	92.4	99.8
Stone and earth minerals	74.9	95.1	108.2	119.2	121.5	107.0	116.3	124.9	131.2	137.6	132.8	129.4

NA Not available.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1276. Value of Mineral Production, Imports, and Exports: 1950 to 1977

[**In billions of dollars.** Includes Puerto Rico and U.S. outlying areas. 1950 production data exclude Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970,* series M 13-14, M 20, M 30, and M 38-53]

MINERAL [1]	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977
Current dollars:											
Production, total	11.9	15.9	18.0	21.5	29.8	32.2	36.8	55.1	62.3	69.2	73.1
Fuels [2]	8.7	10.8	12.1	14.0	20.1	22.1	25.0	40.9	47.5	52.5	56.2
Metals	1.4	2.1	2.0	2.5	3.9	3.6	4.4	5.5	5.2	6.1	5.2
Nonmetals	1.8	3.1	3.9	5.0	5.8	6.5	7.4	8.7	9.6	10.6	11.7
Imports, total	1.9	3.0	3.5	3.6	4.8	6.3	9.8	30.1	29.4	36.7	47.2
Fuels [2]	.6	1.1	1.7	2.2	3.0	4.7	8.1	27.1	26.4	33.9	44.2
Metals	1.0	1.6	1.5	1.0	1.2	1.0	1.1	1.8	1.8	1.6	1.5
Nonmetals	.3	.3	.3	.4	.6	.6	.8	1.2	1.2	1.2	1.5
Exports, total	(NA)	1.7	1.9	1.4	2.1	1.9	2.3	4.2	5.5	5.1	5.4
Fuels [2]	(NA)	1.1	.8	1.0	1.6	1.5	1.7	3.4	4.4	4.1	4.2
Metals	.2	.5	.9	.2	.3	.2	.3	.3	.4	.4	.5
Nonmetals	.1	.1	.1	.2	.2	.2	.3	.5	.7	.6	.7
Constant (1967) dollars:											
Production, total	19.4	22.8	22.9	25.6	29.7	29.8	31.7	43.4	44.7	46.6	(NA)
Fuels [2]	15.8	17.1	16.8	17.9	21.1	21.1	22.4	34.3	36.7	38.0	(NA)
Metals	1.8	2.4	2.3	2.6	3.1	2.9	3.1	3.0	2.6	2.9	2.7
Nonmetals	1.8	3.3	3.8	5.1	5.5	5.8	6.2	6.1	5.4	5.7	6.0

NA Not available. [1] Through 1965, uranium included with metals; thereafter, with fuels. [2] Source: U.S. Energy Information Administration, *Annual Report to Congress,* vol. II.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1277. Mineral Production and Consumption—Annual Average Value in Constant (1972) Dollars: 1950 to 1977

[**In millions of 1972 dollars.** Estimates cover over 95 percent of U.S. production and consumption]

PERIOD	PRODUCTION				CONSUMPTION			
	Total minerals [1]	Fuels	Metallic ores	Nonmetallic ores	Total minerals [1]	Fuels	Metallic ores	Nonmetallic ores
1950-1954	18,272	13,814	2,286	677	19,958	13,985	3,631	752
1955-1959	20,586	15,303	2,363	825	22,988	16,155	3,720	914
1960-1964	22,396	16,367	2,551	979	25,643	18,288	3,676	1,066
1965-1969	26,979	19,879	2,822	1,363	32,150	22,487	5,099	1,511
1970-1974	29,860	22,012	3,188	1,511	37,556	27,220	5,338	1,722
1975-1977	28,286	20,776	2,897	1,652	38,752	28,732	5,055	1,898

[1] Includes construction material.

Source: U.S. Bureau of the Census and U.S. Bureau of Mines: *Raw Materials in the United States Economy 1900-1977,* Technical Paper 47.

No. 1278. Selected Mineral Products—Average Prices: 1960 to 1981

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970,* series M 96, M 139, M 209, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively]

YEARLY AVERAGE OR YEAR	Iron ore pellets [1] (cents/l. ton, unit, iron)	Copper, electrolytic [2] (cents per lb.)	Platinum group metals [3] (dol./troy oz.)	Gold (dol./fine oz.)	Silver (dol./fine oz.)	Lead (New York) (cents per lb.)	Tin (New York) [4] (cents per lb.)	Zinc [5] (cents per lb.)	Aluminum, delivered [6] (cents per lb.)	Sulfur, crude [7] (dol./long ton)	Bituminous coal [8] (dol./short ton)	Crude petroleum [8] (dol./bbl.)
1960	(NA)	32.5	83	35.00	.91	11.9	101.4	13.0	26.0	23.13	4.69	2.88
1965	25.2	35.4	100	35.00	1.29	16.0	178.2	14.5	24.5	22.47	4.44	2.86
1970	26.6	58.2	133	36.41	1.77	15.6	174.2	15.3	28.7	23.14	6.26	3.18
1971	28.0	52.0	121	41.25	1.55	13.9	167.3	16.1	29.0	17.47	7.07	3.39
1972	28.0	51.2	121	58.60	1.69	15.0	177.5	17.8	26.3	17.03	7.66	3.39
1973	29.4	59.5	150	97.81	2.56	16.3	227.6	20.7	25.3	17.84	8.53	3.89
1974	40.6	77.3	181	159.74	4.71	22.5	396.3	36.0	34.1	28.88	15.75	6.87
1975	47.2	64.2	164	161.49	4.42	21.5	339.8	39.0	39.8	45.63	19.23	7.67
1976	53.1	69.6	162	125.32	4.35	23.1	379.8	37.1	44.5	46.45	19.43	8.19
1977	55.5	66.8	162	148.31	4.62	30.7	534.6	34.4	51.6	45.09	19.82	8.57
1978	60.9	66.5	237	193.55	5.40	33.7	629.6	31.0	54.0	[9] 45.17	21.78	9.00
1979	67.8	93.3	352	307.50	11.09	52.6	753.9	37.3	61.0	[9] 55.75	23.65	12.64
1980	73.7	102.4	439	612.56	20.63	42.5	846.0	37.4	71.6	[9] 89.06	24.57	21.19
1981, prel.	80.5	85.1	475	459.64	10.52	36.5	733.1	44.6	76.0	[9] 111.48	26.00	31.77

NA Not available. [1] Lower Great Lakes ports. Price as of end of year per long ton unit of contained iron, natural, delivered rail or vessel. Lake Superior ore. [2] Domestic market. [3] Average annual producer prices. [4] Straits tin through 1975; thereafter, composite price. [5] Prime western. Beginning 1971, delivered price. [6] 99.5 percent primary aluminum ingot. [7] F.O.B. works. [8] Average value at the point of production; includes Alaska. Source: U.S. Energy Information Administration, *Annual Report to Congress,* vol. II, and *Monthly Energy Review.* [9] Per metric ton.

Source: 1960-1974 compiled from *Metals Week* (copyright); *Producer Prices and Price Indexes* (U.S. Bureau of Labor Statistics), *Minerals Yearbook and Mineral Commodity Summaries* (U.S. Bureau of Mines); thereafter, except as noted, *Minerals Yearbook.*

No. 1279. Mineral Industries—Summary: 1967 to 1977

["N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series M1-12]

Mineral industry	1967			1972					1977									
				Establishments		All employees			Establishments		All employees		Production workers [4]					
	Establishments	All employees, payroll [1] (mil. dol.)	Value added in mining [2] (mil. dol.)	Total	With 20 or more employees	Number [3] (1,000)	Payroll [1] (mil. dol.)	Value added in mining [2] (mil. dol.)	Total	With 20 or more employees	Number [3] (1,000)	Payroll [1] (mil. dol.)	Number (1,000)	Man-hours [5] (millions)	Wages (mil. dol.)	Value added in mining [2] (mil dol.)	Value of shipments and receipt [6] (mil. dol.)	Capital expenditures (mil. dol.)
All industries	**28,579**	**4,187**	**19,330**	**25,269**	**5,312**	**595**	**6,226**	**26,471**	**31,359**	**6,632**	**799**	**13,167**	**593**	**1,183**	**9,082**	**68,013**	**96,375**	**17,718**
Metal mining	**1,155**	**552**	**1,557**	**1,014**	**285**	**81**	**853**	**2,382**	**1,206**	**328**	**88**	**1,485**	**65**	**129**	**1,032**	**3,504**	**5,369**	**1,140**
Iron ores	146	186	662	111	56	20	218	702	97	61	19	372	14	29	253	1,046	1,614	459
Copper ores	156	171	437	181	71	36	387	1,025	133	61	33	544	23	44	356	1,067	1,856	208
Lead and zinc ores	167	61	103	101	47	8	72	200	88	41	7	105	5	11	75	329	418	42
Gold and silver ores	183	26	51	132	12	3	30	61	175	20	5	71	4	7	53	161	199	41
Gold ores and placers	125	17	35	81	5	2	20	47	126	8	3	40	2	4	28	78	99	22
Silver ores	58	8	16	51	7	1	10	14	49	12	2	32	2	3	25	83	100	19
Bauxite	17	4	23	10	5	1	4	24	12	6	(z)	7	(z)	1	4	31	40	4
Ferroalloy ores, except vanadium	43	32	73	44	15	4	40	137	56	17	6	107	5	10	79	256	372	109
Metal mining services	148	19	34	172	33	3	31	54	270	42	3	52	3	6	41	112	158	18
Miscellaneous metal ores	295	54	175	263	46	7	71	180	375	80	14	227	11	22	170	502	711	260
Uranium-radium-vanadium ores	188	41	142	144	34	8	58	149	225	66	12	203	10	20	155	432	615	252
Mercury ores, misc. metal ores	107	14	33	119	12	1	13	31	150	14	2	24	1	2	14	71	97	8
Anthracite mining	**403**	**41**	**82**	**230**	**51**	**5**	**35**	**68**	**176**	**43**	**4**	**51**	**3**	**6**	**41**	**123**	**227**	**10**
Anthracite	371	37	75	213	41	4	32	63	156	38	3	48	3	5	38	116	217	9
Anthracite mining services	32	5	7	17	10	1	3	5	20	5	(z)	4	(z)	(z)	3	7	10	1
Bituminous coal, lignite mining	**4,081**	**926**	**2,009**	**3,365**	**1,118**	**155**	**1,742**	**3,685**	**5,275**	**1,690**	**242**	**4,120**	**204**	**367**	**3,303**	**11,143**	**16,709**	**2,814**
Bituminous coal and lignite	3,966	916	1,987	3,191	1,076	152	1,714	3,626	4,944	1,610	235	4,005	198	356	3,203	10,837	16,301	2,765
Coal mining services, n.e.c	115	10	22	174	42	3	29	60	331	80	7	115	6	11	100	306	407	49
Oil and gas extraction	**358**	**1,855**	**13,394**	**14,498**	**2,393**	**241**	**2,525**	**17,612**	**18,447**	**3,128**	**349**	**5,902**	**231**	**493**	**3,560**	**48,587**	**67,338**	**12,944**
Crude petroleum and natural gas	8,796	1,049	10,965	7,609	820	117	1,375	14,422	8,573	981	140	2,738	60	118	1,025	38,327	40,830	10,916
Natural gas liquids	684	100	905	680	191	11	117	1,019	692	209	13	227	11	21	178	3,286	17,449	329
Oil and gas field services	6,878	707	1,524	6,209	1,382	113	1,033	2,172	9,182	1,938	196	2,936	160	353	2,357	6,974	9,059	1,699
Drilling oil and gas wells	2,347	295	627	1,907	572	45	422	881	2,625	840	79	1,317	70	151	1,129	3,307	4,320	1,085
Oil and gas exploration services	636	53	126	715	91	10	89	212	1,252	116	18	220	14	32	171	545	665	70
Oil and gas field services, n.e.c	3,895	359	770	3,587	719	58	522	1,079	5,305	982	99	1,399	77	170	1,058	3,122	4,073	544
Nonmetallic minerals mining	**6,582**	**812**	**2,288**	**6,162**	**1,465**	**114**	**1,070**	**2,723**	**6,255**	**1,443**	**117**	**1,609**	**91**	**189**	**1,146**	**4,656**	**6,732**	**811**
Dimension stone [7]	244	9	18	198	27	2	13	26	209	23	2	19	2	3	14	39	49	3
Crushed and broken stone [8]	2,033	281	705	1,937	669	42	388	982	2,055	655	41	543	33	68	397	1,501	2,046	251
Sand and gravel [8]	3,232	229	548	2,929	457	34	322	776	2,807	430	31	418	23	48	302	1,017	1,428	174
Clay and related minerals [8]	356	58	155	309	111	9	78	198	255	103	10	136	8	17	91	358	591	62
Chemical and fertilizer minerals	233	188	741	204	110	20	203	583	205	112	24	372	18	37	249	1,433	2,167	277
Nonmetallic minerals, services	106	6	11	126	11	1	11	20	176	33	2	36	2	4	28	70	102	8
Miscellaneous [8]	378	41	111	459	80	7	55	138	548	87	7	87	6	11	65	238	350	35

Z Less than 500 or 500,000. [1] Gross earnings paid to all employees on payroll. [2] Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures. [3] *Excludes proprietors and firm members of unincorporated concerns.* [4] Represents employees up through the working foreman level engaged in manual work. Includes development and exploration workers. [5] Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent). [6] Represents value of shipments of primary and secondary products of the industry and amount received for services performed for other establishments on a contract, fee, or other basis. [7] Excludes data for dimension stone quarries operated *in conjunction with dressing plants.* [8] Excludes data for mining included in establishments classified in manufacturing industries.

Source: U.S. Bureau of the Census, *Census of Mineral Industries: 1967, 1972,* and *1977,* final industry series reports.

No. 1280. Mineral Industry—Selected States: 1972 and 1977

[Represents establishments classified in the mineral industries only. Excludes data for stone, sand and gravel, clay, and gypsum mines operated as parts of manufacturing establishments. Represents States with value added of more than $100 million in 1977]

STATE	1972		1977				
	All employees (1,000)	Value added in mining (mil. dol.)	Establishments		All employees		Value added in mining (mil. dol.)
			Total	With 20 employees or more	Number (1,000)	Payroll (mil. dol.)	
United States [1]	**595.1**	**26,471**	**31,359**	**6,632**	**798.8**	**13,167**	**68,013**
Alabama	8.8	264	432	122	14.1	225	787
Alaska	2.6	354	154	47	5.5	153	1,216
Arizona	21.1	625	229	50	21.0	339	751
Arkansas	3.7	142	396	66	4.7	66	395
California	29.0	1,401	1,307	295	34.8	634	3,552
Colorado	13.5	409	976	191	22.7	411	1,179
Florida	9.0	298	321	69	9.9	132	1,039
Georgia	6.6	158	219	76	7.4	98	294
Idaho	2.8	51	125	24	3.3	53	144
Illinois	20.5	546	879	187	25.8	452	1,163
Indiana	6.3	211	530	84	8.4	148	392
Kansas	8.9	466	1,182	156	12.2	181	1,134
Kentucky	30.2	780	1,771	427	47.8	823	2,515
Louisiana	49.6	5,529	1,640	488	63.1	1,058	11,981
Michigan	11.4	306	499	87	11.3	203	939
Minnesota	11.7	498	179	46	11.5	213	699
Mississippi	5.6	232	449	83	6.0	87	507
Missouri	8.9	218	378	69	8.1	127	396
Montana	5.6	169	366	46	5.9	90	560
Nevada	3.2	104	189	31	4.1	62	152
New Mexico	16.2	958	752	177	23.5	377	2,689
New York	7.7	154	467	63	7.1	134	218
North Carolina	3.3	71	174	68	3.7	43	111
North Dakota	1.5	84	230	32	2.5	43	325
Ohio	20.1	465	1,209	231	27.6	447	1,181
Oklahoma	26.9	1,133	2,279	365	43.5	696	3,418
Pennsylvania	41.9	847	1,696	417	51.7	852	2,166
Tennessee	7.3	152	481	139	9.1	129	378
Texas	95.8	6,711	6,268	1,222	143.4	2,374	19,674
Utah	11.4	372	429	100	16.7	269	911
Virginia	16.8	360	896	223	23.2	350	1,016
West Virginia	53.0	1,195	1,560	458	69.6	1,081	2,820
Wyoming	11.5	679	786	184	22.7	404	2,282
Other	22.6	528	1,853	286	23.7	362	787

[1] Includes offshore areas not associated with a State.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1977*, General Summary, MIC77-SR-1.

No. 1281. Mineral Industries—Employment, Hours, and Earnings: 1960 to 1981

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
All mining:											
All employees	1,000	712	632	623	752	779	813	851	958	1,027	1,132
Production workers	1,000	570	494	473	571	592	618	638	719	762	832
Average weekly earnings	Dollars	105	124	164	249	274	301	333	365	397	439
Average hourly earnings	Dollars	2.60	2.92	3.85	5.95	6.46	6.94	7.67	8.49	9.17	10.05
Average weekly hours	Number	40.4	42.3	42.7	41.9	42.4	43.4	43.4	43.0	43.3	43.7
Metal mining:											
All employees	1,000	94	84	93	94	94	90	94	101	98	104
Production workers	1,000	77	70	75	73	73	68	72	77	74	78
Average weekly earnings	Dollars	111	127	167	249	277	297	340	382	416	468
Average hourly earnings	Dollars	2.66	3.06	3.88	6.13	6.76	7.28	8.23	9.27	10.26	11.55
Average weekly hours	Number	41.8	41.6	43.1	40.7	41.0	40.8	41.3	41.2	40.5	40.5
Coal mining:											
All employees	1,000	186	141	145	213	225	225	210	259	246	222
Production workers	1,000	165	124	127	182	192	192	173	216	204	184
Average weekly earnings	Dollars	110	138	184	285	308	346	386	418	435	481
Average hourly earnings	Dollars	3.11	3.46	4.54	7.22	7.75	8.24	9.49	10.26	10.86	11.89
Average weekly hours	Number	35.5	39.9	40.6	39.5	39.9	41.7	40.6	41.0	40.5	40.5
Oil and gas extraction:											
All employees	1,000	309	287	270	329	346	381	429	474	560	686
Production workers	1,000	226	202	178	223	237	267	299	327	389	478
Average weekly earnings	Dollars	103	116	154	235	258	285	315	343	390	434
Average hourly earnings	Dollars	2.46	2.74	3.57	5.38	5.85	6.37	7.01	7.72	8.59	9.51
Average weekly hours	Number	42.0	42.4	43.2	43.7	44.1	44.7	45.0	44.4	45.4	45.6
Nonmetallic minerals, except fuels:											
All employees	1,000	123	120	115	117	115	116	119	124	123	119
Production workers	1,000	103	99	94	92	90	92	94	98	96	91
Average weekly earnings	Dollars	97	117	155	215	237	259	284	311	328	356
Average hourly earnings	Dollars	2.21	2.57	3.47	4.95	5.36	5.81	6.33	6.90	7.52	8.29
Average weekly hours	Number	43.7	45.7	44.7	43.5	44.2	44.6	44.8	45.0	43.6	43.0

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings, United States 1909–78*, and *Supplement to Employment and Earnings, Revised Establishment Data*, June 1982.

No. 1282. Mineral Industries—Lost Workday Injuries and Fatalities: 1960 to 1980

[Excludes office workers. Lost workday injuries are nonfatal occurrences that result in days away from work, days of restricted work activity or a permanent disability. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Coal mining:										
Injuries, total	12,227	11,397	11,812	8,678	11,262	14,530	15,128	14,871	19,156	18,822
Fatal	325	259	260	133	155	141	139	106	144	133
Nonfatal	11,902	11,138	11,552	8,545	11,107	14,389	14,989	14,765	19,012	18,689
Rate per million work-hours:										
Fatal	1.2	1.0	1.0	.5	.4	.4	.4	.3	.3	.3
Nonfatal	42	45	44	29	30	36	38	38	43	43
Fatalities per 1,000 employed [1]	1.71	1.74	1.81	.75	.71	.66	.60	.43	.58	.55
Quarrying and related industries: [2]										
Injuries, total	4,707	3,353	3,709	2,661	2,562	2,912	3,287	4,135	4,487	3,551
Fatal	39	48	43	48	36	33	39	49	40	42
Nonfatal	4,668	3,305	3,666	2,613	2,526	2,879	3,248	4,086	4,447	3,509
Rate per million work-hours:										
Fatal	.2	.3	.2	.4	.3	.2	.3	.3	.2	.3
Nonfatal	23	17	20	19	19	19	21	25	26	21
Rate per 1,000 worker's [1]										
Fatal	.4	.5	.5	.6	.5	.4	.5	.6	.4	.5
Nonfatal	49	37	45	33	33	35	39	49	49	40
Metal and nonmetal mining: [3]										
Injuries, total	7,253	6,328	6,730	5,448	5,158	4,907	4,694	7,124	7,983	6,923
Fatal	121	92	93	71	66	56	68	62	57	46
Nonfatal	7,132	6,236	6,637	5,377	5,092	4,851	4,626	7,062	7,926	6,877
Rate per million work-hours:										
Fatal	.8	.6	.7	.3	.3	.2	.3	.3	.2	.2
Nonfatal	45	42	47	24	22	20	20	29	31	28
Rate per 1,000 workers: [1]										
Fatal	.9	.8	.8	.6	.5	.5	.5	.5	.4	.3
Nonfatal	60	52	60	44	40	39	37	56	59	51

[1] Average number of persons at work each day mines were active. [2] Includes manufacture of cement, except for 1974-1975. [3] Beginning 1974, nonmetal mines exclude extraction of Frasch process sulfur.

Source: 1960-1970, U.S. Bureau of Mines, *Minerals Yearbook*, and unpublished data; thereafter, U.S. Mine Safety and Health Administration, Denver, Colorado, unpublished data.

No. 1283. U.S. Nonfuel Mineral Reserves, 1960 to 1980, and Cumulative Production, 1960 to 1979

[**In thousands of metric tons unless otherwise specified.** Estimates of material that can be economically extracted or produced for the United States. Economic recovery is implicit in the term reserve]

MINERAL COMMODITY	RESERVES			CUMULATIVE PRODUCTION	
	1960	1970	1980	1960-1969	1970-1979
Bauxite, (gross weight)	50,000	45,000	40,000	16,597	19,158
Cobalt, metal content in ore	40	25	-	5	(Z)
Copper, metal content in ore	30,000	77,000	92,000	11,265	14,363
Gold (million troy ounces)	[1] 20	120	45	16	12
Gypsum, (gross weight) [2]	(NA)	318,000	636,000	90,140	111,000
Iron ore, (gross weight) [3]	2,400,000	10,700,000	17,300,000	840,000	813,000
Lead, metal content in ore	[4] 26,000	33,000	[5] 22,500	2,811	5,464
Manganese ore, (gross weight)	900	([6])	-	237	5
Molybdenum, metal content in ore	1,300	2,800	4,100	348	535
Nickel, *metal content in ore*	500	180	330	120	148
Phosphate rock, (gross weight)	5,200,000	7,900,000	1,800,000	269,823	424,937
Potash, in K_2O equivalents	360,000	420,000	300,000	26,190	23,065
Silver (million troy ounces)	760	1,300	1,510	364	380
Sulfur, in all forms	150,000	305,000	175,000	81,396	108,846
Soda ash, natural and synthetic	270,000	([7])	27,000,000	56,041	69,043
Tin, metal content in ore	2.5	2.5	50	(D)	(D)
Tungsten, metal content in ore	65	65	125	35	32
Zinc, metal content in ore	[4] 12,000	24,000	[5] 22,000	4,831	4,105

- *Represents zero.* D *Withheld to avoid disclosing proprietary information.* NA Not available. Z Less than 500. [1] 1963 estimate. [2] Excludes byproduct gypsum. [3] Iron ore reserves shown are crude ore; production is marketable ore, direct-shipping ore, concentrates and agglomerates. [4] 1957 estimate. [5] 1978 estimate. [6] *Represents negligible* amount not quantified. [7] Represents large amount not quantified.

Source: U.S. Bureau of Mines, Mineral Facts and Problems.

No. 1284. Mineral Production—Value, 1970 to 1980, and Principal Minerals in Order of Value, 1980, by States

[In millions of dollars. Data for States will not add to total because State and U.S. totals were independently derived]

Division and State	1970	1975	1978	1979	1980			
					Total	Fuels	Non-fuels	Principal minerals in order of value
U.S.	28,513	59,386	81,917	106,869	143,855	118,747	25,108	Petroleum, natural gas (wet), coal.
N.E	143	181	265	293	268	-	268	(x)
Maine	24	37	43	46	37	-	37	Cement, sand and gravel, stone.
N.H	9	17	23	23	25	-	25	Sand and gravel, stone, clays.
Vt	28	29	48	54	43	-	43	Stone, asbestos, sand and gravel.
Mass	50	59	90	93	91	-	91	Stone, sand and gravel, lime.
R.I	4	6	7	8	6	-	6	Sand and gravel, stone, gem stones.
Conn	28	33	54	69	66	-	66	Stone, sand and gravel, feldspar.
M.A	1,485	3,430	3,773	4,385	4,444	3,129	1,315	(x)
N.Y	300	398	448	497	559	61	498	Stone, cement, salt.
N.J	89	124	128	152	149	-	149	Stone, sand and gravel, zinc.
Pa	1,096	2,908	3,197	3,736	3,736	3,068	668	Coal, cement, stone.
E.N.C	2,316	4,813	6,469	7,935	9,005	6,073	2,932	(x)
Ohio	612	1,356	1,791	2,147	2,390	1,828	562	Coal, petroleum, natural gas.
Ind	256	542	793	957	1,106	817	289	Coal, petroleum, stone.
Ill	689	1,491	1,758	2,346	2,770	2,327	443	Coal, petroleum, stone.
Mich	671	1,292	1,968	2,306	2,587	1,102	1,485	Petroleum, iron ore, natural gas.
Wis	88	132	159	180	152	-	152	Stone, sand and gravel, iron ore.
W.N.C	1,962	3,403	5,046	6,656	7,284	3,601	3,684	(x)
Minn	633	1,097	1,725	2,068	1,782	-	1,782	Iron ore, sand and gravel, stone.
Iowa	121	196	267	292	265	13	252	Cement, stone, sand and gravel.
Mo	393	723	966	1,275	1,174	117	1,057	Lead, cement, stone.
N. Dak	96	202	320	506	801	779	22	Petroleum, coal, natural gas.
S. Dak	62	102	126	172	250	22	228	Gold, stone, cement.
Nebr	73	112	152	204	273	192	81	Petroleum, cement, sand and gravel.
Kans	584	971	1,490	2,140	2,740	2,478	262	Petroleum, natural gas, cement.
S.A	2,406	7,191	7,351	(D)	10,527	7,073	3,454	(x)
Del	2	2	2	3	2	-	2	Magnesium compounds, sand and gravel, clays.
Md	88	165	222	261	293	107	186	Coal, stone, cement.
Va	374	1,262	1,250	1,657	1,708	1,403	305	Coal, stone, cement.
W. Va	1,285	3,390	3,064	4,248	4,860	4,754	106	Coal, natural gas, petroleum.
N.C	98	153	295	342	379	-	379	Phosphate, stone, sand and gravel.
S.C	56	115	183	202	195	-	195	Cement, stone, clays.
Ga	203	333	594	(D)	771	-	771	Clays, stone, cement.
Fla	300	1,771	1,741	1,965	2,317	808	1,509	Phosphate, petroleum, stone.
E.S.C	1,640	4,541	6,012	7,449	8,331	7,286	1,045	(x)
Ky	847	2,739	3,549	4,291	4,498	4,294	204	Coal, petroleum, stone.
Tenn	220	423	586	651	688	280	408	Coal, stone, zinc.
Ala	323	969	1,317	1,647	1,995	1,666	329	Coal, petroleum, natural gas.
Miss	250	410	560	860	1,150	1,046	104	Petroleum, natural gas, cement.
W.S.C	12,868	26,741	33,655	42,677	59,222	56,393	2,830	(x)
Ark	226	436	629	709	781	494	287	Petroleum, bromine, stone.
La	5,102	8,513	11,625	14,138	16,396	15,812	584	Petroleum, natural gas, sulfur.
Okla	1,138	2,267	3,554	4,548	7,336	7,112	224	Petroleum, natural gas, coal.
Tex	6,402	15,525	17,847	23,282	34,710	32,975	1,735	Petroleum, natural gas, cement.
Mt	4,545	8,014	11,312	14,574	18,805	11,641	7,164	(x)
Mont	313	573	723	1,044	1,331	1,051	280	Petroleum, coal, copper.
Idaho	120	234	299	438	522	-	522	Silver, phosphate, lead.
Wyo	706	1,644	2,741	3,136	5,133	4,372	761	Petroleum, coal, natural gas.
Colo	390	958	1,450	1,824	2,544	1,279	1,265	Molybdenum, petroleum, coal.
N. Mex	1,060	2,092	2,926	3,986	4,788	4,023	765	Natural gas, petroleum, copper.
Ariz	1,167	1,288	1,777	2,495	2,431	5	2,426	Copper, molybdenum, cement.
Utah	603	966	1,148	1,376	1,656	897	759	Petroleum, copper, coal.
Nev	186	259	248	274	400	14	386	Gold, barite, diatomite.
Pac	2,426	3,949	7,857	(D)	20,410	17,994	2,416	(x)
Wash	91	159	251	(D)	207	-	207	Cement, sand and gravel, stone.
Oreg	68	106	129	165	150	-	150	Stone, sand and gravel, cement.
Calif	1,900	3,153	4,440	6,628	10,497	8,611	1,886	Petroleum, cement, natural gas.
Alaska	338	481	2,984	5,732	9,496	9,383	113	Petroleum, natural gas, sand and gravel.
Hawaii	29	50	53	64	60	-	60	Stone, cement, sand and gravel.

- Represents zero. D Withheld to avoid disclosing individual company data. X Not applicable.

Source: U.S. Bureau of the Census. Compiled from data from U.S. Bureau of Mines and U.S. Energy Information Administration.

No. 1285. Mineral Production and Value, 1970 to 1980,

[Data represent production as measured by mine shipments, mine sales, or marketable, production 13-37, for

	MINERAL	PRODUCTION QUANTITY						
		Unit	1970	1975	1977	1978	1979	1980
1	**Total mineral production**	(x)	(x)	(x)	(x)	(x)	(x)	(x)
2	**Mineral fuels**	(x)	(x)	(x)	(x)	(x)	(x)	(x)
3	Coal: Bituminous and lignite	Mil. sh. ton	603	648	691	665	776	823
4	Pennsylvania anthracite	Mil. sh. ton	10	6	6	5	5	6
5	Natural gas (wet)	Bil. cu. ft	21,921	20,109	20,025	19,974	20,471	20,376
6	Petroleum (crude)	Mil. bbl. [1]	3,517	3,057	3,009	3,178	3,121	3,146
7	Uranium [2]	Mil. lb	23.1	23.2	29.9	37.0	37.5	43.7
8	**Nonmetallic minerals**	(x)	(x)	(x)	(x)	(x)	(x)	(x)
9	Abrasive stone [3]	Sh. ton	3,055	2,953	2,200	487	2,094	2,131
10	Asbestos	1,000 sh. ton	125	99	102	103	103	88
11	Asphalt and related bitumens (native) [4]	1,000 sh. ton	1,981	1,902	1,237	1,697	1,614	1,252
12	Barite	1,000 sh. ton	854	1,318	1,494	2,112	2,113	2,245
13	Boron minerals	1,000 sh. ton	1,041	1,172	1,469	1,554	1,590	1,545
14	Bromine	Mil. lb	350	407	434	447	497	382
15	Calcium chloride	1,000 sh. ton	633	594	710	773	720	581
16	Carbon dioxide, natural (estimate)	Mil. cu. ft	1,110	1,070	1,617	2,015	2,028	1,628
17	Cement: Portland	Mil. sh. ton	73.2	66.8	76.3	80.0	79.0	71.6
18	Masonry	Mil. sh. ton	3.0	2.9	3.8	4.1	3.7	3.0
19	Clays	Mil. sh. ton	54.9	49.0	53.2	56.8	54.7	48.8
20	Diatomite	1,000 sh. ton	598	573	648	651	717	689
21	Emery	1,000 sh. ton	(D)	3.5	(D)	(D)	10.0	7.3
22	Feldspar	1,000 sh. ton	726	670	734	735	740	710
23	Fluorspar	1,000 sh. ton	269	140	169	129	109	93
24	Garnet (abrasive)	1,000 sh. ton	18.8	17.2	20.0	29.7	21.2	26.9
25	Gem stones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
26	Gypsum	Mil. sh. ton	9.4	9.8	13.4	14.9	14.6	12.4
27	Helium [5]	Mil. cu. ft	4,600	1,079	1,494	1,550	1,617	1,458
28	Lime	Mil. sh. ton	19.7	19.1	19.9	20.4	20.9	19.0
29	Magnesium compounds [7]	1,000 sh. ton	708	(D)	830	(D)	(D)	(D)
30	Mica: Scrap	1,000 sh. ton	119	135	176	182	134	117
31	Sheet	1,000 lb	-	5.0	(D)	(D)	-	-
32	Peat	1,000 sh. ton	526	746	726	750	798	788
33	Perlite	1,000 sh. ton	456	512	597	641	660	638
34	Phosphate rock	Mil. sh. ton	38.7	48.8	52.1	55.2	56.9	60.0
35	Potash [8]	1,000 sh. ton	2,729	2,094	2,461	2,543	2,632	2,444
36	Pumice	1,000 sh. ton	3,036	3,892	4,009	4,757	4,411	3,755
37	Pyrites	1,000 lg. ton	(D)	625	435	766	1,032	834
38	Salt (common)	Mil. sh. ton	45.9	41.0	43.4	42.9	45.8	40.4
39	Sand and gravel	Mil. sh. ton	944	789	929	996	979	794
40	Sodium carbonate (natural)	1,000 sh. ton	2,688	4,328	6,228	6,790	(D)	(D)
41	Sodium sulfate (natural)	1,000 sh. ton	602	667	636	605	533	583
42	Stone [9]	Mil. sh. ton	869	901	955	1,051	1,098	982
43	Sulfur: Frasch mines	1,000 lg. ton	6,504	6,077	5,935	5,645	7,388	7,283
44	Talc, soapstone, pyrophyllite	1,000 sh. ton	1,028	965	1,205	1,384	1,453	1,473
45	Tripoli	1,000 sh. ton	68	81	126	119	116	121
46	Vermiculite	1,000 sh. ton	285	330	359	337	346	337
47	Nonmetallic minerals, undistributed [10]	(x)	(x)	(x)	(x)	(x)	(x)	(x)
48	**Metals**	(x)	(x)	(x)	(x)	(x)	(x)	(x)
49	Antimony ore and concentrate	Sh. ton [11]	1,130	886	610	(D)	722	343
50	Bauxite	1,000 lg. ton [13]	2,082	1,772	1,981	1,643	1,792	1,534
51	Copper [2]	1,000 sh. ton	1,720	1,413	1,504	1,496	1,591	1,288
52	Gold [2]	1,000 fine oz	1,743	1,052	1,100	999	970	951
53	Iron ore, usable [14]	Mil. lg. ton [15]	87.2	75.7	54.1	83.2	86.1	69.6
54	Lead [2]	1,000 sh. ton	572	621	592	584	579	606
55	Manganiferous ore [16]	1,000 sh. ton [15]	368	159	216	312	241	174
56	Mercury	76 lb. flask	27,296	7,366	28,244	24,163	29,519	30,657
57	Molybdenum [17]	Mil. lb	110	105	125	131	144	149
58	Nickel [18]	1,000 sh. ton	15.9	17.0	14.3	13.5	15.1	14.7
59	Silver [2]	Mil. fine oz	45.0	34.9	38.2	39.4	38.1	31.3
60	Titanium concentrate: Ilmenite [2]	1,000 sh. ton [15]	921	702	542	581	646	594
61	Tungsten ore and concentrate	1,000 lb. [19]	9,312	5,490	6,022	6,901	6,646	6,036
62	Vanadium [2]	Sh. ton	5,319	4,743	6,504	4,272	5,520	4,806
63	Zinc [2]	1,000 sh. ton	534	469	450	334	295	369
64	Metals, undistributed [10]	(x)	(x)	(x)	(x)	(x)	(x)	(x)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable. [1] 42 gal. bbl. [2] Recoverable content of ores, etc. [3] Grindstones, pulpstones, millstones, grinding pebbles, sharpening stones, and tubemill liners. [4] Contains bituminous limestone and sandstone, and gilsonite. [5] Value included in "Nonmetallic minerals, undistributed." [6] Crude and refined. [7] From sea water and brines, except for metals (M_gO equiv.). [8] K_2O equivalent. [9] Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.

AND PRINCIPAL PRODUCING STATES, 1980

(including consumption by producers). See *Historical Statistics, Colonial Times to 1970,* series M selected values]

PRODUCTION VALUE (mil. dol.)						Principal producing States ranked by quantity, 1980	
1970	1975	1977	1978	1979	1980		
28,389.7	**59,730.9**	**73,073.0**	**81,995.5**	**106,859.0**	**146,186.0**	(x).	1
18,820.0	45,322.0	56,138.0	62,162.0	82,879.0	121,078.0	(x).	2
3,770.0	12,470.0	13,700.0	14,490.0	18,360.0	20,240.0	Ky., W. Va., Pa., Ill.	3
110.0	200.0	200.0	180.0	200.0	270.0	Pa.	4
3,750.0	8,950.0	15,820.0	18,080.0	24,120.0	32,670.0	Tex., La., Okla., N. Mex.	5
11,190.0	23,450.0	25,790.0	28,600.0	39,450.0	66,670.0	Tex., Alaska, La., Calif.	6
(NA)	252.0	628.0	812.0	749.0	1,228.0	N. Mex., Wyo., Tex.	7
5,791.2	**9,494.0**	**11,702.0**	**13,525.0**	**15,440.0**	**16,233.0**	(x).	8
.6	1.1	3.2	1.3	2.1	2.2	Minn., Wis., Ark..	9
10.7	14.2	25.3	28.0	26.9	30.6	Calif., Vt., Ariz.	10
8.9	17.8	13.9	19.3	25.6	25.0	Tex., Utah, Ala., Mo.	11
12.8	21.2	30.3	44.0	53.6	66.0	Nev., Mo., Ark., Ga.	12
86.8	158.8	236.2	279.9	310.2	366.8	Calif.	13
60.6	113.1	99.7	100.0	114.5	92.6	Ark. and Mich.	14
15.2	29.0	45.0	53.9	51.9	47.9	Mich. and Calif.	15
.2	.3	.4	2.6	3.2	2.6	Colo., N. Mex., Utah, Calif.	16
1,268.7	2,015.6	2,727.6	3,239.6	3,650.4	3,613.3	Tex., Calif., Pa., Mich	17
67.5	111.8	169.1	208.6	204.8	188.5		18
267.9	424.6	579.2	717.3	846.1	898.9	Ga., Tex., Wyo., N.C.	19
32.6	45.8	63.9	72.4	90.3	100.6	Calif., Nev., Wash., Oreg.	20
([5])	([5])	([5])	([5])	([5])	.2	N.Y.	21
9.6	11.7	17.2	18.2	21.5	23.2	N.C., Conn., Ga., Calif.	22
13.9	10.9	16.5	13.3	12.2	12.6	Ill., Nev.	23
1.9	1.7	2.2	2.3	3.7	4.0	Idaho, N.Y., Maine.	24
2.4	13.9	8.9	8.9	8.2	6.9	(NA)	25
35.1	44.7	74.3	92.7	99.9	103.1	Tex., Calif., Iowa, Mich.	26
64.2	23.9	30.7	31.9	31.3	30.2	Kans., Okla. Tex., N. Mex.	27
286.2	523.8	666.5	749.7	862.5	842.9	Ohio, Pa., Mo., Tex.	28
62.4	([5])	127.7	([5])	([5])	([5])	Mich., Calif., Fla., N.J.	29
2.5	5.2	7.3	8.0	7.7	5.3	N.C., N. Mex., S.C., Conn.	30
-	(Z)	([5])	([5])		-	(x)	31
6.0	12.3	12.5	13.0	15.5	16.2	Mich., Fla., Ind., Ill.	32
4.9	7.3	10.8	13.7	16.4	16.5	N. Mex., Ariz., Calif., Idaho.	33
203.2	1,122.2	821.7	928.8	1,045.7	1,256.9	Fla., Idaho, N.C., Tenn.	34
98.1	223.1	206.9	226.5	279.2	353.9	N. Mex., Utah, Calif.	35
4.7	11.2	12.0	14.5	15.5	15.5	Oreg., Ariz., Calif., N. Mex.	36
([5])	4.8	7.0	12.3	17.1	13.8	Tenn., Colo., Ariz.	37
304.8	368.1	451.6	499.3	538.4	656.2	La., Tex., N.Y., Ohio.	38
1,115.7	1,340.3	2,028.0	2,302.0	2,427.0	2,302.0	Calif., Tex., Alaska, Ohio.	39
56.3	182.6	337.5	371.3	([5])	([5])	Wyo. and Calif.	40
10.9	27.7	29.3	27.9	29.7	33.4	Calif., Tex., Utah.	41
1,474.9	2,120.3	2,456.9	2,885.7	3,388.1	3,393.5	Tex., Fla. Pa., Ill.	42
151.8	304.8	294.7	279.9	449.4	720.5	Tex. and La.	43
7.8	8.9	13.1	15.8	20.4	25.6	Tex., Vt., Mont., N.Y.	44
.5	.6	.8	.8	6.3	.7	Ill., Okla., Ark., Pa.	45
6.5	13.8	18.6	19.7	22.0	23.5	Mont., S.C., Va.	46
34.4	157.2	56.0	222.6	740.3	941.1	(x)	47
3,778.5	**4,914.9**	**5,233.0**	**6,308.5**	**8,540.0**	**8,675.0**	(x)	48
([12])	2.1	1.3	([12])	([12])	([12])	Mont. and Idaho.	49
30.1	25.1	28.0	23.2	24.9	22.4	Ark., Ala., Ga.	50
1,984.5	1,814.8	2,009.3	1,990.3	2,960.7	2,638.0	Ariz., Utah, N. Mex., Mont.	51
63.4	169.9	163.2	193.3	298.3	582.8	Nev., S. Dak., Utah, Ariz.	52
941.7	1,620.6	1,423.0	2,401.0	2,814.0	2,547.5	Minn., Mich., Calif., Wyo.	53
178.6	267.2	363.8	393.5	609.9	514.4	Mo., Idaho, Colo., Va.	54
([12])	1.4	2.2	3.1	2.9	2.4	Minn., N. Mex., S.C.	55
11.1	1.2	3.8	3.7	8.3	11.9	Nev. and Calif.	56
190.1	259.3	450.4	607.9	871.1	1,344.2	Colo., Ariz., Utah, N. Mex.	57
([12])	([12])	([12])	([12])	([12])	([12])	Oreg.	58
79.7	154.4	176.3	212.7	422.4	646.6	Idaho, Ariz., Colo., Mo.	59
18.6	26.9	25.2	25.6	33.0	32.0	Fla., N.J., N.Y.	60
23.8	29.1	55.1	56.7	55.8	50.6	Calif., Colo., Nev., Utah.	61
34.9	49.3	74.5	56.8	73.9	64.4	Colo., Utah, Idaho, Ark.	62
163.7	366.1	309.3	206.9	219.8	276.3	Tenn., Mo., N.Y., N.J.	63
58.4	127.5	147.6	133.8	145.0	141.5	(x).	64

[10] Comprises value of items that cannot be disclosed. [11] Antimony content. [12] Included with "Metals, undistributed." [13] Dried equivalent. [14] Represents shipments excluding byproduct iron sinter. [15] Gross weight. [16] 5 to 35 percent Mn. [17] Content of concentrate. [18] Content of ore and concentrate. [19] Tungsten content.

Source: U.S. Bureau of Mines, *Minerals Yearbook,* and beginning 1977 for mineral fuels, from U.S. Energy Information Administration, *Energy Data Reports.*

No. 1286. Principal Fuels, Nonmetals, and Metals—U.S. Production as Percent of World Production: 1965 to 1980

Mineral	World production						Percent U.S. of world				
	Unit	1965	1970	1975	1979	1980, prel.	1965	1970	1975	1979	1980, prel.
Fuels: [1]											
Coal	Bil. sh. ton	3.1	3.3	3.7	4.1	4.2	17	18	18	19	20
Petroleum (crude)	Bil. bbl	11.1	16.7	19.3	22.9	21.8	26	21	16	14	14
Natural gas (dry, marketable)	Tril. cu. ft	(NA)	37.7	44.7	52.4	52.8	65	58	43	38	37
Nonmetals:											
Asbestos	Mil. sh. ton	3.1	3.9	4.6	5.4	5.4	4	3	2	2	2
Barite	Mil. sh. ton	3.9	4.3	5.4	7.8	8.1	22	20	25	27	28
Feldspar	Mil. sh. ton	2.2	2.8	2.9	3.5	3.5	32	26	23	21	20
Fluorspar	Mil. sh. ton	3.1	4.6	5.0	5.1	5.4	8	4	3	2	2
Gypsum	Mil. sh. ton	53.0	56.9	65.3	89.2	86.3	19	17	15	16	14
Mica (incl. scrap)	1,000 sh. ton	218	180	250	272	254	55	66	54	49	46
Nitrogen, agricultural [2]	Mil. sh. ton	18.5	33.4	46.7	76.9	78.7	27	25	20	20	21
Phosphate rock	Mil. sh. ton	70.3	93.6	118.6	146.5	152.5	34	41	41	39	39
Potash (K_2O equiv.)	Mil. sh. ton	15.1	20.0	27.4	28.3	30.5	21	14	9	9	8
Sulfur, elemental	Mil. lg. ton	15.3	22.2	49.9	53.9	55.7	48	39	22	22	21
Metals, mine basis:											
Bauxite	Mil. lg. ton	36.8	56.9	74.5	86.4	87.4	4	4	2	2	2
Copper [3]	Mil. sh. ton	5.6	6.6	7.7	8.5	8.4	24	26	18	19	15
Gold	Mil. troy oz	46.2	47.5	38.7	38.8	39.1	4	4	3	2	2
Iron ore	Mil. lg. ton	611	754	887	890	882	14	12	9	10	8
Lead [3]	Mil. sh. ton	3.0	3.7	3.8	3.7	3.8	10	15	17	15	16
Mercury	1,000 flask [4]	276	284	252	175	204	7	10	3	17	15
Molybdenum [3]	Mil. lb	115	181	177	229	242	67	61	60	63	62
Nickel [3]	1,000 sh. ton	468	693	868	749	821	3	2	2	2	2
Silver	Mil. troy oz	257	301	298	345	340	16	15	12	11	10
Titanium concentrates:											
Ilmenite [5]	Mil. sh. ton	2.7	4.0	3.2	3.9	4.0	36	23	22	16	14
Tungsten	Mil. lb	59.6	71.4	84.3	107.3	114.1	13	13	7	6	5
Uranium oxide (U_3O_8) [5]	1,000 sh. ton	21	24	27	(NA)	(NA)	49	53	43	(NA)	(NA)
Vanadium [3]	1,000 sh. ton	9.1	19.9	23.2	37.3	38.3	58	26	20	15	13
Zinc [3]	Mil. sh. ton	4.7	6.0	6.4	6.5	6.4	13	9	7	5	5
Metals, smelter basis:											
Aluminum	Mil. sh. ton	7.0	10.6	13.4	16.1	17.0	37	37	29	31	30
Cadmium	Mil. lb	26.1	36.5	33.9	41.6	40.0	27	26	13	10	9
Copper	Mil. sh. ton	6.1	6.8	7.7	8.9	8.8	24	24	18	17	13
Iron, pig (incl. ferroalloys)	Mil. sh. ton	369	474	529	584	563	25	19	15	15	12
Lead	Mil. sh. ton	2.9	3.6	3.6	5.9	5.7	14	18	17	26	24
Magnesium	1,000 sh. ton	178	242	258	339	350	46	46	47	48	48
Steel ingots and castings	Mil. sh. ton	507	655	713	821	787	26	20	16	17	14
Tin	1,000 m. ton [6]	200	227	228	249	250	2	(NA)	3	2	1
Zinc	Mil. sh. ton	4.4	5.3	5.5	6.9	6.7	23	16	8	8	6

NA Not available. [1] Source: Beginning 1975, Energy Information Administration, *International Energy Annual*. See table 1292 for production by world region. [2] For years ending June 30. U.S. production includes Puerto Rico. [3] Content of ore and concentrate. [4] 76-lb. flasks. [5] Excludes Soviet Union. [6] Metric tons.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

No. 1287. Federal Strategic and Critical Materials Inventory: 1970 to 1981

[As of **Dec. 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 amounts that would be realized at time of sale]

Mineral	Quantity [1]					Value (mil. dol.)			
	Unit	1970	1975	1980	1981	1970	1975	1980	1981
Tin	1,000 lg. ton	253	207	200	194	942	1,381	3,158	3,300
Silver	1,000 troy oz	165,000	139,500	139,500	137,506	297	556	2,288	1,097
Cobalt	Mil. lb	72	46	41	41	158	185	1,020	747
Bauxite [2]	1,000 lg. ton	16,797	14,332	14,333	14,333	286	350	583	666
Manganese [3]	1,000 sh. ton	10,001	4,274	3,495	3,485	451	522	540	541
Tungsten [4]	Mil. lb	82	75	62	61	272	414	533	471
Zinc	1,000 sh. ton	1,120	375	376	378	347	291	313	338
Titanium	1,000 sh. ton	24	27	21	21	60	145	301	328
Platinum	1,000 troy oz	450	453	440	440	60	72	209	209
Chromium [5]	1,000 sh. ton	760	760	763	763	392	815	747	762
Diamond: Stones	Carat	25,230	20,000	19,224	17,747	298	168	349	399
Industrial, bort	Carat	42,611	33,577	23,693	23,693	101	70	73	53

[1] Consists of stockpile and nonstockpile grades and reflects uncommitted balances. [2] Consists of abrasive grade, met. grade Jamaica, met. grade Surinam, and refractory. [3] Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med. carbon, ferro-silicon, and metal. [4] Consists of carbide powder, ferro, metal powder, and ores and concentrates. [5] Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. General Services Administration, *Statistical Supplement, Stockpile Report to the Congress* (OP-4).

No. 1288. Average Annual Imports and Exports of Minerals in Constant (1972) Dollars: 1950 to 1977

[In millions of constant (1972) dollars]

ITEM	IMPORTS						EXPORTS					
	1950–1954	1955–1959	1960–1964	1965–1969	1970–1974	1975–1977	1950–1954	1955–1959	1960–1964	1965–1969	1970–1974	1975–1977
Minerals[1]	**3,301**	**4,528**	**4,884**	**6,647**	**9,832**	**13,173**	**1,421**	**1,845**	**1,824**	**2,045**	**2,346**	**2,413**
Iron and ferroalloy ores	649	918	942	1,307	1,455	1,497	206	366	484	468	585	594
Other metal ores	1,232	1,379	1,000	1,350	1,551	1,756	283	392	560	578	617	616
Fuels	1,172	1,922	2,570	3,475	6,182	9,202	857	974	617	750	825	834
Other nonmetallic	148	197	245	380	488	580	69	106	152	228	293	332

[1] Includes construction material.

Source: U.S. Bureau of the Census and U.S. Bureau of Mines: *Raw Materials in the United States Economy 1900-1977*, Technical Paper 47.

No. 1289. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1970 to 1981

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

PRODUCT	QUANTITY						VALUE (mil. dol.)				
	Unit	1970	1975	1979	1980	1981	1970	1975	1979	1980	1981
IMPORTS											
Petroleum (crude)[1]	Mil. bbl.	535	1,581	2,375	1,975	1,751	1,260	18,290	46,058	61,899	61,458
Nonmetallic minerals:											
Abrasives:											
Diamonds (industrial)	Mil. carat	13.4	14.3	25.3	21.8	20.4	49	53	111	111	111
Gem stones: Diamonds	Mil. carat	4.3	4.6	4.5	4.2	4.4	425	722	1,859	2,251	2,201
Ores and concentrates:											
Bauxite (crude)	Mil. lg. ton	13.6	11.5	13.6	13.9	12.6	160	245	389	(NA)	(NA)
Chromium (Cr_2O_3 content)	1,000 sh. ton	647	559	416	410	368	32	61	56	57	50
Copper	1,000 sh. ton	65	29	34	58	43	77	36	48	73	57
Iron	Mil. lg. ton	44.9	46.7	33.8	25.1	28.3	480	860	923	773	948
Tungsten	Mil. lb.	1.3	6.6	11.4	11.4	11.8	3	32	85	87	91
Metals:											
Aluminum	1,000 sh. ton	350	434	571	581	711	164	317	646	778	991
Cobalt	Mil. lb.	11.9	6.1	18.9	15.0	13.9	26	26	462	359	239
Copper refined in ingots, etc	1,000 sh. ton	132	143	427	471	364	149	166	389	935	582
Gold (bullion)	Mil. troy oz.	6.4	2.3	4.4	4.1	4.2	227	407	1,401	2,507	1,943
Iron and steel products (major)	Mil. sh. ton	13.7	12.4	18.3	16.2	20.7	2,066	4,507	7,744	7,713	11,202
Platinum group[2]	Mil. troy oz.	1.4	1.7	3.5	3.5	2.8	105	255	842	1,260	800
Silver (bullion)	Mil. troy oz.	29.6	61.6	78.4	64.8	75.9	53	274	841	1,332	837
Zinc: Blocks, pigs, slabs	1,000 sh. ton	260	375	578	452	675	74	274	391	319	549
EXPORTS											
Fuels:[1]											
Bituminous coal	Mil. sh. ton	71.0	65.8	50.7	89.9	110.2	955	3,242	2,763	4,523	5,806
Petroleum (crude)	Mil. bbl.	5.0	(Z)	(Z)	30.6	16.4	17	(Z)	(Z)	751	577
Nonmetallic minerals:											
Gem stones: Diamonds	Mil. carat	(NA)	.3	1.2	1.3	3.2	(NA)	237	885	1,041	854
Nitrogen compounds (major)	Mil. sh. ton	3.4	4.7	9.2	11.1	8.4	151	860	1,171	1,842	1,398
Phosphatic fertilizers[3]	Mil. sh. ton	.8	3.6	34.9	43.4	28.7	29	725	865	1,383	1,035
Metals:											
Aluminum: Ingots, slabs, crude	1,000 sh. ton	408	186	201	715	344	215	134	264	1,107	527
Plates, sheets, bars, etc	1,000 sh. ton	138	171	248	306	264	107	229	502	716	625
Gold (refined bullion)	Mil. troy oz.	1.0	3.1	15.6	4.7	5.2	34	429	4,621	2,787	2,501
Iron and steel products (major)	Mil. sh. ton	7.6	3.9	3.2	4.5	3.3	1,375	2,970	2,580	3,504	3,414
Magnesium[4]	1,000 sh. ton	35.7	32.6	54.3	56.8	34.9	23	48	114	128	91
Molybdenum[5]	1,000 lb.	671	317	1,142	614	2,641	.8	.9	10	5	10
Silver (refined bullion)	Mil. troy oz.	17.2	22.6	16.3	57.2	15.1	31	104	238	1,327	181
Scrap exports:											
Aluminum	1,000 sh. ton	57	67	307	445	241	21	29	290	483	236
Iron and steel	Mil. sh. ton	10.9	9.6	11.2	11.4	6.5	459	781	1,158	1,257	653

NA Not available. Z Less than 50,000 bbl. or $500,000. [1] Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country*, FT 246, annual; and *U.S. Exports, Schedule B Commodity and Country*, FT 446, monthly. [2] Unwrought and semimanufactured. [3] Superphosphates and ammonium phosphates. [4] Metal and alloys, scrap, semimanufactured forms. [5] Metals and alloys, crude and scrap.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1290. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1960 to 1981, and by Major Foreign Sources, 1977–1980

[In percent. Figures based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes]

MINERAL	1960	1965	1970	1975	1977	1978	1979	1980	1981, prel.	Rank of major foreign sources, 1977–1980
Columbium	100	100	100	100	100	100	100	100	100	Brazil, Canada, Thailand.
Mica (sheet)	94	94	100	100	100	100	100	100	100	India, Brazil, Madagascar.
Strontium	100	100	100	100	100	100	100	100	100	Mexico.
Manganese	89	94	95	98	98	97	98	98	98	South Africa, Gabon, Brazil, France.
Bauxite [1]	74	85	88	91	91	93	93	94	94	Jamaica, Australia, Guinea.
Tantalum	94	95	96	81	97	97	96	90	91	Thailand, Canada, Malaysia, Brazil.
Cobalt	66	92	98	98	97	95	94	93	91	Zaire, Belgium-Luxembourg, Zambia, Finland.
Chromium	85	92	89	91	91	91	90	91	90	South Africa, Philippines, Soviet Union, Turkey.
Platinum group	82	87	78	83	91	90	89	88	85	Rep. of South Africa, Soviet Union, United Kingdom.
Tin	82	80	81	84	82	79	80	79	80	Malaysia, Thailand, Bolivia, Indonesia.
Asbestos	94	85	83	84	85	85	83	78	80	Canada, Rep. of South Africa.
Nickel	72	73	71	72	70	80	69	73	72	Canada, Norway, Botswana, Australia.
Potassium	(2)	7	42	51	63	64	66	62	68	Canada, Israel.
Zinc	46	53	54	61	57	66	63	60	67	Canada, Spain, Mexico, Honduras.
Cadmium	13	20	7	41	51	63	64	55	63	Canada, Australia, Mexico, Belgium-Luxembourg.
Tungsten	32	57	50	46	52	56	58	53	52	Canada, Bolivia, China, Thailand.
Antimony	43	36	40	49	41	43	53	48	51	South Africa, Bolivia, China Mainland, Mexico.
Silver	43	16	26	12	31	43	42	(2)	50	Canada, Mexico, Peru, United Kingdom.
Selenium	25	44	11	66	52	43	28	59	49	Canada, Japan, Yugoslavia.
Titanium [3]	22	9	24	25	39	41	39	35	43	Australia, Canada, Rep. of South Africa.
Barium	45	46	45	32	38	27	37	41	43	Peru, China, Ireland, Morocco, Chile.
Vanadium	(2)	15	21	38	35	36	28	17	42	Rep. of South Africa, Chile, Canada.
Mercury	25	49	41	69	45	64	59	26	39	Spain, Algeria, Japan, Italy.
Gypsum	35	37	39	34	31	32	35	35	37	Canada, Mexico, Jamaica.
Petroleum [4 5]	17	20	22	36	47	43	43	37	34	Saudi Arabia, Nigeria, Libya, Mexico, Algeria, Venezuela.
Iron ore	18	32	30	30	48	29	25	25	28	Canada, Venezuela, Brazil, Liberia.
Iron and steel	(2)	7	4	9	15	12	12	15	14	Japan, Europe, Canada.
Gold	56	72	59	52	61	53	50	18	7	Canada, Soviet Union, Switzerland.
Sulfur	(2)	(2)	(2)	(2)	6	12	11	14	7	Canada, Mexico.
Copper	(2)	15	(2)	(2)	13	20	12	14	5	Chile, Canada, Peru, Zambia.
Natural gas [5]	1	3	4	5	5	5	6	5	4	Canada, Algeria.
Aluminum	(2)	4	(2)	(2)	7	11	4	(2)	(2)	Canada, Ghana.

[1] Includes alumina. [2] Net exports. [3] Ilmenite. [4] Includes crude and products. [5] Source: Beginning 1977, Energy Information Administration: *Annual Report to Congress*, vol. II.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Commodity Summaries;* import and export data from U.S. Bureau of the Census.

No. 1291. Petroleum Industry—Summary: 1940 to 1981

YEAR	Crude oil producing wells		Completed wells drilled (1,000)				Crude oil production			Imports, crude oil (mil. bbl.)	Imports refined petroleum products (mil. bbl.)	Operable refinery capacity (Jan. 1) (mil. bbl.)
	Total (1,000)	Daily output per well (bbl.)	Total	Crude oil	Gas	Dry	Total (mil. bbl.)	Value at wells (bil. dol.)	Avg. price per bbl. (dol.)			
1940	389	9.6	30	19	2	7	1,353	1.4	1.02	43	41	1,536
1945	416	11.3	27	14	3	7	1,714	2.1	1.22	74	39	1,853
1950	466	11.8	42	24	3	15	1,974	5.0	2.51	178	133	2,271
1955	524	13.2	55	30	4	20	2,484	6.9	2.77	285	170	2,945
1960	591	12.0	46	22	5	18	2,575	7.4	2.88	372	293	3,602
1965	589	13.3	39	18	4	16	2,849	8.1	2.86	452	449	3,803
1970	531	18.0	28	13	4	11	3,517	11.2	3.18	483	765	4,388
1971	517	18.1	26	12	4	10	3,454	11.7	3.39	613	819	4,694
1972	508	18.4	27	11	5	11	3,455	11.7	3.39	811	924	4,865
1973	497	18.3	27	10	6	10	3,361	13.1	3.89	1,184	1,099	4,979
1974	498	17.6	32	13	7	12	3,203	22.0	6.87	1,269	962	5,242
1975	500	16.8	37	16	8	13	3,057	23.4	7.67	1,498	712	5,461
1976	499	16.3	40	17	9	14	2,976	24.4	8.19	1,935	741	5,577
1977	507	16.4	45	19	11	15	3,010	25.8	8.57	2,414	800	5,985
1978	517	17.0	47	18	13	16	3,178	28.6	9.00	2,320	733	6,222
1979	531	16.3	50	19	15	16	3,121	39.5	12.64	2,380	707	6,366
1980	548	15.9	61	27	16	18	3,146	66.7	21.19	1,926	602	6,584
1981, prel	(NA)	(NA)	79	38	18	23	3,125	97.0	31.03	1,605	575	6,589

NA Not available.

Source: 1940–1945, American Petroleum Institute, Washington, D.C., *Petroleum Facts and Figures*, biennial; beginning 1950, U.S. Energy Information Administration, *Annual Report to Congress*, and *Monthly Energy Review*.

No. 1292. Crude Oil, Natural Gas, and Coal—World Production, by Region: 1960 to 1980

Fuel and Region	Production										Percent Distribution		
	1960	1970	1973	1974	1975	1976	1977	1978	1979	1980, prel.	1960	1970	1980
Crude Oil (mil. bbl.)													
World	**7,674**	**16,711**	**20,348**	**20,407**	**19,327**	**20,953**	**21,825**	**21,960**	**22,885**	**21,700**	**100.0**	**100.0**	**100.0**
United States	2,575	3,517	3,361	3,203	3,057	2,968	3,009	3,178	3,121	3,138	33.6	21.0	14.5
Other W. Hemisphere	1,555	2,377	2,531	2,375	2,090	2,076	2,135	2,217	2,468	2,556	20.3	14.2	11.8
Western Europe	99	116	164	165	218	334	518	663	860	892	1.3	.7	4.1
Africa	105	2,207	2,164	1,979	1,827	2,141	2,294	2,197	2,422	2,201	1.4	13.2	10.1
Middle East	1,923	5,096	7,689	7,956	7,126	8,050	8,123	7,702	7,869	6,719	25.1	30.5	31.0
Far East and Oceania	1,417	3,393	1,207	1,300	1,352	1,534	1,701	1,780	1,833	1,776	18.5	20.3	8.2
Eastern Europe and U.S.S.R.[1]			3,232	3,430	3,658	3,848	4,045	4,223	4,311	4,418			20.4
Natural Gas[2] (tril. cu. ft.)													
World	**16.92**	**37.66**	**43.15**	**44.12**	**44.26**	**46.28**	**48.13**	**49.94**	**52.36**	**52.77**	**100.0**	**100.0**	**100.0**
United States	12.77	21.92	21.73	20.71	19.24	19.10	19.16	19.12	19.66	19.35	75.5	58.2	36.7
Other W. Hemisphere	1.30	3.55	3.88	3.91	3.94	4.00	4.24	4.64	4.72	5.25	7.7	9.4	9.9
Western Europe	.43	2.75	5.15	5.84	6.07	6.40	6.50	6.48	7.17	6.64	2.6	7.3	12.6
Africa	.01	.12	.32	.34	.37	.54	.50	.74	.78	.78	(Z)	.3	1.5
Middle East	.06	.46	1.18	1.34	1.42	1.50	1.72	2.00	1.44	1.17	.3	1.2	2.2
Far East and Oceania	2.35	8.86	.94	1.12	1.28	1.48	1.76	1.86	2.14	2.26	13.9	23.5	4.3
Eastern Europe and U.S.S.R.			9.95	10.86	11.95	13.27	14.25	15.10	16.47	17.32			32.8
Coal (mil. sh. ton)													
World	**2,899**	**3,317**	**3,447**	**3,511**	**3,673**	**3,772**	**3,841**	**3,922**	**4,119**	**4,155**	**100.0**	**100.0**	**100.0**
United States	434	613	599	610	655	685	697	670	781	835	15.0	18.5	20.1
Other W. Hemisphere	21	28	36	38	43	44	49	52	54	57	.7	.8	1.4
Western Europe	618	500	508	488	509	518	506	509	529	541	21.3	15.1	13.0
Africa	48	66	75	79	82	91	100	106	120	132	1.7	2.0	3.2
Middle East, Far East and Oceania	1,778	2,111	800	842	890	921	942	1,026	1,063	1,040	61.3	63.6	25.0
Eastern Europe and U.S.S.R.			1,431	1,454	1,494	1,513	1,546	1,560	1,571	1,550			37.3

Z Less than .05 percent. [1] 1960 and 1970, include Cuba. [2] Marketed production, wet, through 1970; thereafter dry.

Source: 1960–1970, U.S. Dept. of Interior, *Energy Perspectives 2*, June 1976, and unpublished data; thereafter, U.S. Energy Information Administration, *International Energy Annual*, September 1981.

No. 1293. Fuel Consumption, by Type of Use: 1960 to 1981

Fuel and Use	Unit	Consumption								Percent Use			
		1960	1965	1970	1975	1978	1979	1980	1981[1]	1965	1970	1980	1981[1]
Petroleum[2]	**Mil. bbl**	**3,586**	**4,202**	**5,364**	**5,958**	**6,879**	6,757	6,242	5,840	**100**	**100**	100	100
Fuel use[3]	Mil. bbl	(NA)	3,802	4,787	5,299	(NA)	5,918	5,455	5,109	90	89	87	87
Nonfuel use[3]	Mil. bbl	(NA)	400	578	659	(NA)	839	788	731	10	11	13	13
Residential[4]	Mil. bbl	643	713	796	702	754	698	622	597	18	15	10	10
Industrial	Mil. bbl	989	1,185	1,396	1,484	1,809	1,877	1,704	1,474	28	26	27	25
Transportation	Mil. bbl	1,862	2,183	2,832	3,253	3,704	3,645	3,492	3,416	52	53	56	58
Electrical generation	Mil. bbl	92	121	340	519	612	538	425	353	3	6	7	6
Natural gas (dry)	**Bil. cu. ft.**	**11,967**	**15,280**	**21,139**	**19,538**	**19,627**	**20,241**	**19,877**	**19,422**	**100**	**100**	**100**	**100**
Fuel use[3]	Bil. cu. ft.	(NA)	(NA)	(NA)	19,008	(NA)	19,646	19,287	18,847	(NA)	(NA)	97	97
Nonfuel use[3]	Bil. cu. ft.	(NA)	(NA)	(NA)	530	(NA)	595	590	575	(NA)	(NA)	3	3
Residential[4]	Bil. cu. ft.	4,123	5,346	7,235	7,432	7,504	7,751	7,363	7,230	35	34	37	37
Industrial[5]	Bil. cu. ft.	4,535	5,955	7,851	6,968	6,757	6,899	7,172	6,904	39	37	36	36
Pipeline fuel	Bil. cu. ft.	347	501	722	583	530	601	635	620	3	3	3	3
Electrical generation	Bil. cu. ft.	1,725	2,321	3,932	3,158	3,188	3,491	3,682	3,643	15	19	19	19
Lease and plant fuel	Bil. cu. ft.	1,237	1,156	1,399	1,396	1,648	1,499	1,026	1,025	8	7	5	5
Coal[6,7]	**Mil. sh. ton**	**398**	**472**	**523**	**563**	**625**	**681**	**703**	**728**	**100**	**100**	**100**	**100**
Fuel use[3]	Mil. sh. ton	393	467	518	563	625	677	700	725	99	99	100	100
Nonfuel use[3]	Mil. sh. ton	5	5	6	5	3	3	3	3	1	1	(Z)	(Z)
Residential[4]	Mil. sh. ton	41	26	16	9	10	8	6	6	6	3	1	1
Industrial	Mil. sh. ton	177	201	187	147	134	145	127	125	43	36	18	17
Electrical generation	Mil. sh. ton	177	245	320	406	481	527	569	596	52	61	81	82

NA Not available. Z Less than .5 percent. [1] Preliminary. [2] Products refined and processed from crude oil, including still gas, liquefied refinery gas, and natural gas liquids. [3] Source, 1960 to 1979, U.S. Bureau of Mines, *United States Energy Through the Year 2000*, December 1972; and *Minerals Yearbook*. [4] Includes commercial. [5] Excludes lease and plant fuel. [6] Includes anthracite, bituminous, and lignite coals. [7] Includes transportation and miscellaneous, not shown separately.

Source: Except as noted, U.S. Energy Information Administration, *Annual Report to Congress*, vol. II.

No. 1294. Crude Petroleum and Refined Products: 1965 to 1981

[**Barrels of 42 gallons.** See tables 986, 987 and 1073 for additional information. See also *Historical Statistics, Colonial Times to 1970*, series M 138-142, M 178, and M 181]

ITEM	Unit	1965	1970	1975	1976	1977	1978	1979	1980	1981 [1]
Crude petroleum:										
Domestic production	Mil. bbl	2,849	3,517	3,057	2,976	3,009	3,178	3,121	3,146	3,125
Value at wells	Bil. dol	8.1	11.2	23.4	24.4	25.8	28.6	39.5	66.7	97.0
Average price per barrel at wells	Dol	2.86	3.18	7.67	8.14	8.57	8.96	12.64	21.19	31.03
World production	Mil. bbl	11,058	16,719	19,475	21,192	21,776	21,969	22,776	21,757	20,334
U.S. *proportion of world total*	Percent	26	21	16	14	14	14	14	14	15
Imports	Mil. bbl	452	483	1,498	1,935	2,414	2,320	2,360	1,926	1,608
Value [2]	Mil. dol	1,118	1,052	18,374	25,480	33,583	32,140	46,100	62,014	61,940
Exports	Mil. bbl	1	5	2	3	18	58	86	105	83
Value [2]	Mil. dol	2,841	4,991	178	27	209	389	394	751	577
Stocks, Dec. 31	Mil. bbl	220	276	271	285	348	376	430	466	599
Proved reserves [3] Dec. 31	Mil. bbl	31,352	39,001	32,682	30,942	31,780	31,355	29,810	29,805	29,426
Refinery:										
Total capacity (Dec. 31) [4]	Mil. bbl	3,308	4,694	5,577	5,985	6,222	6,366	6,584	6,589	6,530
Crude oil receipts at refineries	Mil. bbl	3,297	3,973	4,546	4,920	5,345	5,373	5,346	4,934	4,563
By pipeline: Domestic	Mil. bbl	2,363	2,840	2,662	2,643	2,530	2,418	2,329	2,275	2,343
Foreign	Mil. bbl	107	237	398	443	568	594	612	503	346
By water: Domestic	Mil. bbl	444	610	305	271	319	584	592	642	587
Foreign	Mil. bbl	344	244	1,101	1,487	1,835	1,683	1,722	1,406	1,274
By tank cars and trucks	Mil. bbl	38	43	80	76	94	94	108	121	103
Utilization rate [4] [5]	Percent	(NA)	88.6	84.2	87.0	89.1	86.9	87.6	81.0	78.2
Refined products:										
Operating refineries, Dec. 31	Number	286	279	287	291	302	311	319	315	254
Daily crude oil capacity	Mil. bbl	10.2	12.7	14.9	15.9	16.8	17.1	18.0	18.1	17.9
Average dealer's net price per gal. (incl. tax) of regular grade full service gasoline [6]	Cents	31.15	35.69	57.22	59.47	63.08	65.71	85.16	117.27	(NA)
Yield of gasoline	Percent	44.0	45.3	46.5	45.5	43.4	44.1	43.0	44.5	(NA)
Imports	Mil. bbl	449	765	712	741	800	733	707	568	530
Value [2]	Mil. dol	1,047	1,413	6,751	6,106	7,943	6,844	9,752	11,502	13,328
Exports	Mil. bbl	67	89	74	79	70	74	86	94	113
Value [2]	Mil. dol	482	424	325	501	610	685	858	1,242	2,088
Stocks, Dec. 31	Mil. bbl	580	741	862	826	964	901	911	927	890

NA Not available. [1] Preliminary. [2] Source: U.S. Bureau of the Census, *FT 135*, monthly, and *FT 410*, monthly. [3] Source: 1965-1976 American Petroleum Institute, Washington, D.C., thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual. [4] Source: U.S. Energy Information Administration, *Petroleum Refineries in the United States* and *U.S. Territories*, annual. [5] Crude runs as percent of domestic capacity. [6] Data from Platt's Oilgram Price Service.

Source: Except as noted, through 1976, U.S. Bureau of Mines, *Minerals Yearbook;* thereafter, U.S. Energy Information Administration, *Monthly Energy Review*, and *Petroleum Supply Annual*.

No. 1295. Petroleum—Runs to Stills and Refinery Products, by Type: 1965 to 1981

[**In millions of barrels, except percent.** Barrels of 42 gallons, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series M 162-177]

PRODUCT	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981, prel.	PERCENT		
											1970	1980	1981, prel.
Input	3,560	4,290	4,751	4,827	5,197	5,602	5,646	5,561	5,133	4,924	100.0	100.0	100.0
Crude petroleum	3,301	3,968	4,429	4,541	4,910	5,330	5,379	5,346	4,934	4,554	92.5	96.1	92.5
Domestic	2,848	3,485	3,169	3,047	2,989	2,932	3,100	3,018	3,023	(NA)	81.2	58.9	(NA)
Foreign	453	482	1,260	1,494	1,921	2,398	2,280	2,328	1,911	(NA)	11.2	37.2	(NA)
Natural gas liquids [1]	227	284	285	273	279	264	252	202	185	370	6.6	3.6	7.5
Output	3,769	4,421	4,927	4,995	5,372	5,794	5,828	5,753	5,352	5,108	100.0	100.0	100.0
Gasoline	1,693	2,100	2,336	2,393	2,503	2,566	2,630	2,508	2,388	2,348	47.5	44.6	46.0
Distillate fuel oil	765	896	974	968	1,070	1,196	1,156	1,151	974	955	20.3	18.2	18.7
Residual fuel oil	269	258	390	451	504	640	609	616	578	480	5.8	10.8	9.4
Jet fuel	191	302	305	318	336	355	354	369	366	354	6.8	6.8	6.9
Petrochemical feedstocks	58	100	135	122	164	193	223	252	254	213	2.3	4.7	4.2
Still gas for fuel [2]	139	164	176	175	181	191	200	205	197	206	3.7	3.7	4.0
Asphalt [3]	124	147	164	144	140	154	173	169	141	124	3.3	2.6	2.4
Coke (5 bbl.=1 sh. ton)	86	108	124	129	130	135	135	137	135	141	2.4	2.5	2.8
Liquefied refinery gases	107	117	117	109	119	122	125	121	119	112	2.6	2.2	2.2
Kerosene	93	95	57	55	58	62	56	67	50	43	2.1	0.9	0.8
Other finished products	244	134	149	131	169	180	167	158	148	130	3.0	2.8	2.5
Shortage [4] and other oils (net)	80	131	175	168	175	191	181	192	219	184	(x)	(x)	(x)

NA Not available. X Not applicable. [1] Includes other liquid hydrocarbon. [2] 1 barrel=3,600 cu. ft. [3] 5.5 barrels=1 sh. ton. [4] Negative quantities.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*, and *Monthly Petroleum Supply*.

No. 1296. Crude Petroleum and Natural Gas—Wells Drilled, Footage, and Drilling Cost, by Type of Well: 1960 to 1980

[Includes all costs incurred for drilling and equipping wells to point of completion as productive wells or abandonment after drilling becomes unproductive. Based on sample of operators of different size drilling establishments]

Item and year	Wells drilled		Footage drilled (mil. ft.)	Drilling cost (mil. dol.)		Average depth per well (ft.)	Average cost per well ($1,000)		Average cost per ft. (dol.)
	Total	Offshore		Total	Offshore		Total	Offshore	
All wells: 1960	44,133	538	186.4	2,424	208	4,223	55	386	13.01
1965	39,596	1,037	178.7	2,401	428	4,513	61	413	13.44
1970	27,177	1,058	136.9	2,579	599	5,037	95	566	18.84
1975	36,960	1,028	177.6	6,571	1,174	4,806	178	1,142	36.99
1978	46,655	1,197	230.6	13,061	2,577	4,943	280	2,153	56.63
1979	48,523	1,260	237.5	16,079	3,207	4,894	331	2,545	67.70
1980	62,011	1,272	296.0	22,800	3,846	4,773	368	3,024	77.02
Oil wells: 1960	21,294	301	84.0	1,111	98	3,946	52	326	13.22
1965	18,857	487	76.5	1,067	193	4,059	57	396	13.94
1970	12,547	533	56.4	1,088	282	4,496	87	528	19.29
1975	16,276	283	66.1	2,257	253	4,059	139	892	34.15
1978	17,790	298	74.4	3,700	543	4,182	208	1,822	49.72
1979	19,243	349	80.3	4,679	695	4,170	243	1,991	58.29
1980	28,553	317	117.1	7,768	844	4,099	272	2,663	66.36
Gas wells: 1960	5,262	87	29.1	540	53	5,526	103	606	18.58
1965	4,772	118	26.5	486	67	5,552	102	571	18.35
1970	3,844	193	23.1	618	139	6,007	161	720	26.75
1975	7,654	271	43.4	2,005	338	5,667	262	1,247	46.23
1978	13,306	419	72.8	4,979	983	5,472	374	2,345	68.37
1979	14,079	453	77.3	6,238	1,228	5,493	443	2,710	80.66
1980	15,225	444	85.8	8,167	1,446	5,636	536	3,256	95.16
Dry holes: 1960	17,577	150	73.3	774	57	4,168	44	377	10.56
1965	15,967	432	75.7	849	167	4,739	53	387	11.21
1970	10,786	332	57.4	873	178	5,320	81	536	15.21
1975	13,030	474	68.2	2,309	584	5,234	177	1,232	33.86
1978	15,559	480	83.4	4,382	1,052	5,359	282	2,191	52.55
1979	15,201	458	79.9	5,162	1,284	5,256	340	2,805	64.60
1980	18,233	511	93.1	6,865	1,556	5,108	377	3,046	73.70

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey of the U.S. Oil and Gas Producing Industry*, annual.

No. 1297. Petroleum Inventories at the Beginning of Peak Seasons: 1970 to 1981

Fuel	Unit	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Petroleum, total (Sept. 30)	Mil. bbls	1,010	1,046	1,016	1,114	1,147	1,192	1,304	1,263	1,309	1,447	1,481
	Days' supply [1]	72.6	67.9	60.3	68.3	72.7	71.4	73.4	69.9	74.5	89.8	95.4
Motor gasoline (Mar. 31)	Mil. bbls	235.2	237.2	207.7	220.3	248.7	239.1	262.2	259.6	240.1	282.8	232.3
	Days' supply [1]	43.7	39.8	32.7	36.6	40.0	36.3	38.8	37.4	33.8	43.9	37.1
Distillate fuel oil (Sept. 30)	Mil. bbls	205.7	195.3	190.2	208.3	220.8	232.3	252.8	220.7	220.4	232.4	206.8
	Days' supply [1]	116.9	94.7	75.6	89.3	102.8	98.1	96.1	82.9	83.0	100.1	85.1
Residual fuel oil (Sept. 30)	Mil. bbls	53.9	63.7	55.1	60.3	76.9	76.4	87.5	81.3	87.8	87.9	80.0
	Days' supply [1]	29.0	28.9	21.1	24.2	34.4	29.6	29.9	29.0	34.6	38.0	42.0

[1] Days' supply is derived by dividing inventories by previous three month average daily consumption (products supplied).
Source: U.S. Energy Information Administration, *Petroleum Supply Annual*, and *Petroleum Supply Monthly*.

No. 1298. Oil and Gas Leases and Production on the Outer Continental Shelf, by States: 1979 to 1981

[**Barrels of 42 gallons.** For years ending **Sept. 30.** Covers leases made in ocean waters belonging to the U.S. and subject to its jurisdiction and control under provisions of the Outer Continental Shelf Lands Act. See also table 386]

State	Leases			Acres (1,000)			Oil production (mil. bbl.)			Gas production (bil. cu. ft.)		
	1979	1980	1981	1979	1980	1981	1979	1980	1981	1979	1980	1981
Total	**2,211**	**2,175**	**2,494**	**10,602**	**10,347**	**11,875**	**290.1**	**284.5**	**258.4**	**4,628**	**4,707**	**4,879**
Alabama	5	5	5	29	28	28	-	-	-	-	-	-
Alaska	131	113	128	735	572	678	-	-	-	-	-	-
California	148	142	150	789	761	795	11.1	10.2	14.0	3	3	6
Florida	35	35	35	202	202	202	-	-	-	-	-	-
Louisiana	1,320	1,313	1,464	5,735	5,686	6,407	274.9	266.3	235.2	4,152	4,114	4,152
Texas	397	335	439	2,117	1,777	2,211	4.1	8.0	9.2	474	590	721
Offshore Atlantic	175	232	273	996	1,321	1,554	-	-	-	-	-	-

- Represents zero.
Source: U.S. Bureau of Land Management, *Public Land Statistics*, annual.

No. 1299. Petroleum Industry—Expenditures for New Plant and Equipment, by Function: 1960 to 1982

[In billions of dollars]

EXPENDITURE FUNCTION	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982 [1]
Total	**2.9**	**3.9**	**5.2**	**4.7**	**7.3**	**9.6**	**10.8**	**12.7**	**13.9**	**16.2**	**20.7**	**26.6**	**29.0**
Production	1.6	2.0	2.0	2.2	3.6	4.6	5.2	6.4	7.4	8.3	11.3	14.6	17.0
Refining and petrochemicals	.5	.8	1.3	.9	2.0	2.6	3.2	3.3	3.3	4.3	4.6	6.0	6.2
Marketing	.5	.7	1.0	.6	.5	.5	.5	.6	.7	.8	.9	1.0	.9
Transportation	.2	.2	.4	.3	.4	.8	.9	.9	.6	.7	1.0	1.0	.8
Other	.1	.2	.5	.6	.9	1.1	1.0	1.4	1.9	2.1	2.8	4.0	4.1

[1] Estimates are based on planned capital expenditures reported in late January and February 1982.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, March issues.

No. 1300. Crude Petroleum and Natural Gas—Sales Volume and Lease Revenues, 1967 to 1980, and Drilling Expenditures and Employment, 1974 to 1980

[Figures on a gross operator basis, under which individual companies responsible for management and operation of oil and gas field leases reported on all properties operated for their own account and account of others. Lease revenues represent revenues generated from sales of either crude petroleum or natural gas, comparable to sales volume reported and including production payment, royalty, and nonoperating working interest shares]

ITEM AND YEAR	All companies, total	COMPANIES RANKED BY LEASE REVENUES					PERCENT OF TOTAL		
		Top 8	Next 8	Next 16	Top 50	Top 100	Top 8	Top 16	Top 32
Sales volume of—									
Crude petroleum (mil. bbl.): [1] 1967	3,044	1,647	517	263	2,552	2,659	54	71	80
1972	3,378	1,818	613	317	2,852	2,977	54	72	81
1974	3,159	1,708	581	291	2,693	2,811	54	72	82
1975	3,086	1,654	553	282	2,626	2,753	54	72	81
1976	2,905	1,482	588	270	2,436	2,585	51	71	80
1977	2,996	1,498	602	308	2,531	2,679	50	70	80
1978	3,109	1,475	712	314	2,625	2,746	47	70	80
1979	2,992	1,488	634	279	2,501	2,631	50	71	80
1980	3,066	1,604	579	324	2,606	2,732	52	71	82
Natural gas (bil. cu. ft.): 1967	17,126	7,904	3,105	2,551	14,377	15,560	46	64	79
1972	21,902	10,607	3,546	2,600	18,170	19,446	48	65	77
1974	21,878	9,861	4,065	2,529	17,539	19,098	45	64	75
1975	20,455	8,898	3,864	2,391	16,207	17,661	44	62	74
1976	19,902	8,727	3,515	2,598	15,906	17,273	44	62	75
1977	19,195	8,377	3,111	2,573	15,381	16,784	44	60	73
1978	19,170	8,144	2,874	2,746	15,207	16,673	42	57	72
1979	19,614	7,361	3,031	3,753	15,665	17,135	38	53	72
1980	19,508	6,554	3,983	2,855	15,125	16,939	34	54	69
Lease revenues for—									
Crude petroleum (mil. dol.): [1] 1967	8,800	4,899	1,475	730	7,456	7,763	56	72	81
1972	11,332	6,194	2,024	1,053	9,608	10,018	55	73	82
1974	20,938	11,205	3,708	1,812	17,495	18,345	54	71	80
1975	22,852	11,961	3,948	1,915	18,900	19,978	52	70	78
1976	22,936	11,537	4,279	2,004	18,673	19,951	50	69	78
1977	24,834	11,967	4,412	2,732	20,203	21,576	48	66	77
1978	27,003	12,609	5,370	2,968	22,081	23,314	47	67	78
1979	35,971	16,769	7,326	3,426	28,828	30,604	47	67	77
1980	61,403	29,630	11,958	6,675	50,407	53,440	48	68	79
Natural gas (mil. dol.): 1967	2,888	1,341	501	419	2,438	2,640	46	64	78
1972	4,317	2,062	687	591	3,596	3,843	48	64	77
1974	6,726	3,036	1,238	777	5,400	5,894	45	64	75
1975	8,929	3,859	1,618	1,048	7,018	7,755	43	61	73
1976	12,099	4,813	1,989	1,558	9,251	10,168	40	56	69
1977	16,241	6,662	2,397	2,341	12,723	14,036	41	56	70
1978	19,126	7,441	2,683	2,945	14,575	16,415	39	53	68
1979	24,329	8,335	3,594	4,733	18,742	20,963	34	49	69
1980	32,194	10,445	6,237	5,102	24,794	27,928	32	52	68
Drilling expenditures (mil. dol.): [2] 1974	4,607	1,338	585	529	2,711	3,388	29	42	53
1975	6,507	1,866	815	838	3,932	4,719	29	41	54
1976	8,071	2,706	958	1,036	5,475	6,184	34	45	58
1977	10,109	3,081	1,234	1,204	6,355	7,405	30	43	55
1978	12,904	3,944	1,732	1,590	8,290	9,723	31	44	56
1979	16,824	4,201	2,757	2,473	10,397	12,097	25	41	56
1980	23,010	6,726	3,537	2,386	14,498	17,824	29	45	55
Employment (1,000): 1974	125	38	16	16	75	83	30	43	56
1975	137	40	18	15	79	88	29	42	53
1976	136	43	18	15	81	90	31	44	55
1977	133	42	17	15	81	91	32	44	56
1978	144	46	19	15	86	100	32	45	56
1979	157	45	22	18	91	103	29	43	54
1980	167	49	27	16	102	115	29	45	55

[1] Includes condensate. [2] Represents expenditures incurred during the year for drilling and equipping wells.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-13K-1, *Annual Survey of Oil and Gas*.

No. 1301. Ownership and Operation of U.S Crude Oil and Natural Gas Reserves and Production by Operator-Size Groups: 1977 to 1980

[**In percent.** The survey frame was comprised of operators only; firms and persons who were owners only, and who did not operate any properties, were not included. Approximately 90 percent of the total estimated crude oil reserves were reported on an ownership basis]

Operator groups, by size of reserves	Crude oil reserves				Natural gas reserves			
	Ownership basis		Operated basis		Ownership basis		Operated basis	
	Reserves	Production	Reserves	Production	Reserves	Production	Reserves	Production
8 Largest:								
1977	56.6	40.8	59.4	41.5	44.3	41.5	46.0	42.5
1978	57.1	46.1	60.8	47.7	42.9	37.9	44.3	39.1
1979	57.4	46.6	60.2	49.6	42.1	35.1	43.7	36.7
1980	55.6	48.3	60.1	50.8	41.0	34.1	43.0	34.7
20 Largest:								
1977	80.0	67.8	82.7	71.3	67.3	63.4	68.9	64.6
1978	79.9	70.8	83.8	74.5	64.8	62.9	67.0	64.8
1979	79.3	72.0	83.2	76.0	64.0	59.9	66.1	63.3
1980	77.5	72.7	82.8	75.7	62.3	57.3	65.3	60.4
50 Largest:								
1977	85.2	75.7	89.1	80.9	79.3	75.0	83.6	78.6
1978	85.2	78.1	90.0	83.1	77.2	74.2	82.2	78.5
1979	84.4	78.1	89.0	83.8	75.9	71.1	81.0	77.3
1980	82.5	79.1	88.3	82.7	75.0	72.5	80.5	76.0
100 Largest:								
1977	87.6	79.2	91.5	85.3	84.5	81.3	89.6	86.6
1978	87.4	81.0	92.2	87.1	82.4	80.4	88.5	85.4
1979	86.2	80.6	91.2	87.0	81.5	77.5	87.7	84.7
1980	84.3	81.6	90.5	86.0	80.3	78.6	87.2	83.5

Source: U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves*, annual.

No. 1302. U.S. Direct Investment Abroad in Mining and Smelting and in Petroleum—Value, 1970 to 1981, and Income, 1981, by Region and Country

[**In millions of dollars.** Minus sign (–) denotes loss. See also *Historical Statistics, Colonial Times to 1970*, series U 41–46]

Region and country	Direct investment position (at yearend)										Income, 1981 [1]	
	Mining and smelting					Petroleum					Mining, smelting	Petroleum
	1970	1975	1979	1980	1981 [1]	1970	1975	1979	1980	1981 [1]		
All areas	**5,405**	**6,548**	**5,941**	**6,755**	**7,404**	**19,754**	**25,972**	**38,744**	**47,595**	**52,107**	**813**	**13,168**
Developed countries	3,266	4,398	4,195	4,539	4,911	11,205	20,129	30,220	34,677	37,348	588	7,131
Canada	2,574	3,053	2,854	3,051	3,360	4,337	6,220	8,648	10,800	10,705	269	999
Europe	36	41	34	35	31	5,481	11,165	17,755	20,157	22,458	–10	5,345
Japan	-	-	-	-	-	525	1,313	1,906	1,570	1,737	-	330
Australia, New Zealand, and South Africa	675	1,305	1,307	1,453	1,519	863	1,430	1,910	2,149	2,447	329	457
Developing countries	2,119	2,150	1,746	2,216	2,493	6,644	2,519	6,093	(D)	12,132	225	5,468
Latin America	1,712	1,476	1,191	1,625	1,916	2,703	3,324	3,848	4,331	4,499	190	1,052
Other Africa	340	488	443	458	431	1,750	1,336	1,730	2,247	2,732	(D)	955
Middle East [2]	(Z)	5	(D)	(D)	(D)	1,265	–4,888	–2,066	(D)	718	-	1,022
Other Asia and Pacific	67	181	(D)	(D)	(D)	926	2,746	2,481	2,776	4,183	(D)	2,438
International	(X)	(X)	(X)	(X)	(X)	1,905	3,323	2,432	(D)	2,627	(X)	569

- Represents zero. D Withheld to avoid disclosure of individual companies. X Not applicable. Z Less than $500,000. [1] Preliminary. [2] Includes Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Neutral Zone, Qatar, Saudi Arabia, South Yemen, Syria, Oman, United Arab Emirates, and Yemen. Data for 1970 and 1975 are based on the 1966 benchmark survey; data for 1979, 1980, and 1981 are based on the 1977 benchmark survey. See *Survey of Current Business*, August 1982.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1981, and supplement titled *Revised Data Series on U.S. Direct Investment Abroad, 1966–78*.

No. 1303. Foreign Direct Investment in Petroleum in the United States: 1975 to 1981

[**In millions of dollars.** Investment at yearend]

Year	Petroleum investment	Income from investment	Area	Investment			Income		
				1979	1980	1981	1979	1980	1981
1975	6,213	714	Canada	943	1,308	1,547	112	151	96
1976	5,921	803	Europe	8,010	9,766	14,622	1,708	2,875	2,886
1977	6,573	836	Japan	160	58	7	38	(D)	(D)
1978	7,762	1,239	Australia, New Zealand, and So. Africa	–2	–3	21	-	-	-
1979	9,906	2,037	Latin America	772	1,184	1,564	178	(D)	(D)
1980	12,363	3,467	Middle East	1	1	8	(Z)	(Z)	(Z)
1981	17,813	3,407	Africa, [1] Asia, and Pacific	23	48	45	(Z)	(Z)	(Z)

- Represents zero. D Withheld to avoid disclosing figures for individual companies. Z Less than $500,000. [1] Excludes South Africa.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August issues.

No. 1304. Crude Petroleum and Natural Gas—Production, by States: 1966 to 1981

[See *Historical Statistics, Colonial Times to 1970*, series M 138 and M 142 for petroleum production, and series M 147-161 for natural gas production]

STATE	PETROLEUM PRODUCTION (mil. bbl.)							NATURAL GAS MARKETED PRODUCTION [1] (bil. cu. ft.)						
	1966-1970, avg.	1971-1975, avg.	1976-1980, avg.	1975	1979	1980	1981, prel.	1966-1970, avg.	1971-1975, avg.	1976-1980, avg.	1975	1979	1980	1981, prel.
Total	**3,292**	**3,306**	**3,085**	**3,057**	**3,121**	**3,146**	**3,129**	**19,464**	**21,876**	**20,161**	**20,109**	**20,471**	**20,379**	**20,194**
Ala	8	11	19	13	19	22	21	(z)	16	75	38	86	106	120
Alaska	53	73	357	70	511	592	587	41	134	202	160	221	231	243
Ark	21	17	19	16	19	18	18	146	147	108	116	109	112	95
Calif	365	337	346	322	352	357	385	683	447	307	318	248	310	368
Colo	30	34	35	38	32	30	30	120	136	188	172	191	191	193
Fla	2	27	47	42	47	43	35	(z)	27	48	44	50	46	39
Ill	54	32	24	26	22	23	24	5	1	1	1	2	2	2
Ind	9	6	5	5	5	5	5	(z)	(z)	(z)	(z)	(z)	(z)	(z)
Kans	94	68	58	59	57	60	66	868	880	800	844	798	735	640
Ky	14	9	6	8	6	6	7	83	66	63	61	60	57	57
La	804	809	533	651	490	469	449	6,446	7,828	7,181	7,091	7,266	6,940	6,773
Mich	13	16	33	24	35	34	33	37	55	143	102	160	158	157
Miss	60	56	40	47	37	36	34	138	95	118	74	144	185	208
Mont	40	34	31	33	30	30	31	32	44	49	41	54	52	51
Nebr	13	8	6	6	6	6	7	8	3	3	3	3	3	3
N. Mex	127	105	82	95	80	75	72	1,101	1,213	1,188	1,217	1,181	1,150	1,123
N. Dak	24	21	28	20	31	40	45	39	30	30	25	18	42	54
Ohio	11	9	11	10	12	13	14	46	88	113	85	123	139	139
Okla	225	190	152	163	144	150	154	1,455	1,701	1,800	1,605	1,835	1,892	2,019
Texas	1,142	1,261	1,081	1,222	1,018	977	945	7,570	8,276	7,044	7,486	7,175	7,252	7,010
Utah	24	33	31	42	28	25	26	51	46	65	55	59	88	83
W. Va	3	3	2	2	2	2	3	227	203	153	154	151	157	161
Wyo	146	141	133	136	132	126	131	275	351	368	316	414	410	549
Other	9	6	7	6	6	8	7	95	89	114	100	122	121	107

NA Not available. Z Less than 500 million cubic feet. [1] Including nonhydrocarbon gases.

Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook;* thereafter, U.S. Energy Information Administration, *Energy Data Reports, Natural Gas Production and Consumption*, annual, and *Crude Petroleum, Petroleum Products, and Natural Gas Liquids*, annual, *Natural Gas Monthly Report*, unpublished data, and *Monthly Petroleum Statement*.

No. 1305. Natural Gas—Supply, Production, Consumption, Reserves, and Marketed Production: 1965 to 1981

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

ITEM	Unit	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Producing wells (yearend)	1,000	112	117	124	128	132	138	148	157	170	182	(NA)
Production value at wells [1]	Bil. dol	2.5	3.8	4.9	6.6	9.0	11.6	15.8	18.1	24.1	32.7	42.0
Avg. per 1,000 cu. ft	Cents	15.6	17.1	21.6	30.4	44.5	58.0	79.0	90.5	117.8	160.3	206.3
Proved reserves [2]	Tril. cu. ft	286	291	250	237	228	216	207	208	201	199	202
Total supply [3]	**Bil. cu. ft**	**17,456**	**24,200**	**25,213**	**24,260**	**22,821**	**22,837**	**22,786**	**23,097**	**23,772**	**23,336**	**23,152**
Marketed production [1]	Bil. cu. ft	16,040	21,921	22,647	21,601	20,109	19,952	20,025	19,974	20,471	20,379	20,368
Drawn from storage	Bil. cu. ft	960	1,459	1,533	1,701	1,760	1,921	1,750	2,158	2,047	1,972	1,907
Imports [4]	Bil. cu. ft	456	821	1,033	959	953	964	1,011	966	1,253	985	877
Consumption, total	Bil. cu. ft	15,280	21,139	22,049	21,223	19,538	19,946	19,521	19,627	20,241	19,877	19,421
Residential	Bil. cu. ft	3,903	4,837	4,879	4,786	4,924	5,051	4,821	4,903	4,965	4,752	4,607
Commercial [5]	Bil. cu. ft	1,444	2,399	2,597	2,556	2,508	2,668	2,501	2,601	2,786	2,611	2,623
Industrial	Bil. cu. ft	7,112	9,249	10,185	9,769	8,365	8,598	8,474	8,405	8,398	8,198	7,929
Lease and plant fuel	Bil. cu. ft	1,156	1,399	1,496	1,477	1,396	1,634	1,659	1,648	1,499	1,026	1,025
Other industrial	Bil. cu. ft	5,955	7,851	8,689	8,292	6,968	6,964	6,815	6,757	6,899	7,172	6,904
Electric utilities	Bil. cu. ft	2,321	3,932	3,660	3,443	3,158	3,081	3,191	3,188	3,491	3,682	3,643
Transportation [6]	Bil. cu. ft	501	722	728	669	583	548	533	530	601	635	620
Exports	Bil. cu. ft	26	70	77	77	73	65	56	53	56	49	50
Stored	Bil. cu. ft	1,078	1,857	1,974	1,784	2,104	1,756	2,307	2,278	2,295	1,949	2,166
Adjustments	Bil. cu. ft	319	228	196	289	235	216	41	287	372	684	735
World production (dry)	Tril. cu. ft	24.54	37.54	43.15	44.12	44.26	46.28	48.13	49.94	52.36	52.77	(NA)
Percent U.S. of world	Percent	[7] 65.4	58.4	50.4	46.9	43.5	41.3	39.8	38.3	37.5	36.7	(NA)

NA Not available. [1] Net marketed production comprises gas sold or consumed by producers, including loss due to natural gas liquids recovery, losses in transmission, amounts added to storage, and increases in gas in pipelines. [2] Estimated, end of year. Source: American Gas Association, Arlington, Va. (Copyright.) 1965-1976; thereafter U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual. [3] Excludes in transits receipts and deliveries at U.S. borders; beginning 1980, includes supplemental gas supplies not listed. [4] Beginning 1970, includes imports of liquefied natural gas. [5] Beginning 1970, includes deliveries to municipalities and public authorities for institutional heating and other purposes. [6] Pipeline fuel. [7] Source: U.S. Dept. of the Interior, *Energy Perspectives 2*, June, 1976.

Source: Except as noted, U.S. Energy Information Administration, *Annual Report to Congress, Vol. II and International Energy Annual*, September 1981.

No. 1306. Natural Gas Plant Liquids—Production and Value: 1960 to 1980

[**Barrels of 42 gallons.** 1960 excludes Alaska. See also *Historical Statistics, Colonial Times to 1970,* series M 143-146]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980
Total produced	Mil. bbl.	**340**	**442**	**606**	**634**	**616**	**596**	**587**	**590**	**572**	**578**	**576**
Natural gasoline and mixtures	Mil. bbl.	107	130	165	161	148	134	129	133	126	106	108
Liquefied petroleum gases (incl. ethane)	Mil. bbl.	201	268	400	447	448	444	437	443	432	444	441
Unfractionated stream (net) and other	Mil. bbl.	32	44	41	26	20	18	17	14	14	28	27
All light products:												
Average value	Dol. per bbl.	2.39	2.06	2.10	2.93	5.01	4.65	5.59	6.85	7.85	(NA)	(NA)
Average yield	Gal. per 1,000 cu ft.	1.46	1.35	1.37	1.35	1.38	1.42	1.39	1.41	1.41	1.47	1.63
Natural gas processed	Tril. cu ft.	10	14	19	20	19	18	18	18	17	16	15

NA Not available.

Source: Through 1976, U.S. Bureau of Mines, *Minerals Yearbook;* thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement Annual.*

No. 1307. Coal and Coke—Summary: 1960 to 1981

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1980, was 473 billion tons. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is believed to be recoverable. See also *Historical Statistics, Colonial Times to 1970,* series M 93-126]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981 [1]
COAL [2]											
Total production	Mil. sh. tons	434	527	613	655	685	697	670	781	830	820
Value	Mil. dol.	2,098	2,398	3,878	12,671	13,399	13,908	14,664	18,552	20,452	21,320
World production	Mil. sh. tons	2,899	3,079	3,295	3,673	3,772	3,841	3,922	4,119	4,155	(NA)
Bituminous coal and lignite:											
Number of mines	Number	7,865	7,228	5,601	6,168	6,161	6,077	6,229	6,150	6,200	6,200
Production	Mil. sh. tons	416	512	603	648	679	691	665	776	824	815
Value, total	Mil. dol.	1,950	2,276	3,773	12,472	13,189	13,705	14,486	18,359	20,196	21,183
Average per ton	Dollars	4.69	4.44	6.26	19.23	19.43	19.82	21.78	23.65	24.52	26.00
Method of mining:											
Underground	Mil. sh. tons	285	333	339	292	295	266	242	320	337	320
Surface	Mil. sh. tons	131	179	264	356	384	425	423	456	487	495
Percent of total production	Percent	31.4	35.1	43.8	54.8	56.6	61.5	63.6	58.7	59.0	61.0
Exports	Mil. sh. tons	37	50	71	66	59	54	40	65	90	110
Value	Mil. dol.	332	465	951	3,233	2,886	2,626	2,004	3,328	4,523	5,806
Imports	1,000 sh. tons.	260	184	36	940	1,203	1,647	2,953	2,059	1,194	1,043
Value [3]	Mil. dol.	2	2	(z)	22	18	39	75	51	30	29
Consumption [4]	Mil. sh. tons	380	459	516	556	599	620	621	677	699	725
Electric power utilities	Mil. sh. tons	174	243	319	404	447	476	480	526	568	596
Industrial	Mil. sh. tons	173	197	184	146	145	138	133	144	126	125
Average employment [5]	1,000	169	134	140	190	202	221	242	224	225	225
Average days worked	Number	191	219	228	232	232	210	166	206	210	182
Average tons per worker:											
Per day	Tons	12.83	17.52	18.84	14.74	14.46	14.84	14.68	15.33	16.32	16.98
Per year	Tons	2,453	3,829	4,296	3,420	3,355	3,235	2,952	3,158	3,427	3,090
Production, by State:											
Alabama	Mil. sh. tons	13.0	14.8	20.6	22.6	21.5	21.5	20.6	23.9	26.4	24.9
Illinois	Mil. sh. tons	46.0	58.5	65.1	59.5	58.2	53.5	48.6	59.5	62.5	51.7
Indiana	Mil. sh. tons	15.5	15.6	22.3	25.1	25.4	27.8	24.2	27.5	30.9	29.4
Kentucky	Mil. sh. tons	66.8	85.8	125.3	143.6	144.0	146.3	135.7	149.8	160.1	149.1
Ohio	Mil. sh. tons	34.0	39.4	55.4	46.8	46.6	47.9	41.2	43.5	39.4	37.4
Pennsylvania	Mil. sh. tons	65.4	80.3	80.5	84.1	85.8	84.6	81.5	89.2	87.1	80.8
Virginia	Mil. sh. tons	27.8	34.1	35.0	35.5	40.0	37.6	31.9	37.0	41.0	45.5
West Virginia	Mil. sh. tons	118.9	149.2	144.1	109.3	108.8	95.4	85.3	112.4	121.6	112.8
Wyoming	Mil. sh. tons	2.0	3.3	7.2	23.8	30.8	46.0	58.3	71.8	94.9	102.7
Other States	Mil. sh. tons	26.0	31.3	47.4	98.1	117.6	130.7	137.8	161.7	169.7	180.4
COKE											
Production [6]	Mil. sh. tons	57.2	66.9	66.5	57.2	58.3	53.5	49.0	52.9	46.1	42.8
Oven coke [7]	Mil. sh. tons	56.2	65.2	65.7	56.5	57.7	53.1	49.0	52.9	46.1	42.8
Value of product at plant	Mil. dol.	1,382	1,429	2,193	5,261	5,941	5,536	6,557	6,662	6,029	(NA)
Coke and breeze	Mil. dol.	1,075	1,118	1,899	4,607	5,021	4,653	5,635	5,459	4,784	(NA)
Avg. market value per ton	Dollars	18.31	16.84	27.71	84.34	86.07	84.56	97.05	97.56	102.73	(NA)
Coal charged	Mil. sh. tons	81.4	95.3	96.5	83.6	84.7	77.7	71.4	77.4	66.7	61.0
Average value per ton	Dollars	9.82	9.40	12.47	44.21	44.16	46.26	52.1	50.7	56.26	62.70
Yield of coke from coal	Percent	70.3	70.4	69.1	68.4	68.9	68.8	68.6	68.4	69.2	70.1

NA Not available. Z Less than $500,000. [1] Preliminary. [2] Relates to mines having an output of 1,000 tons a year or more. Includes bituminous coal, lignite, and anthracite. [3] Bituminous coal and lignite only. [4] Includes some categories not shown separately. [5] Average number of persons working daily. [6] Includes beehive coke. [7] Prior to 1978, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1960 to 1976, U.S. Bureau of Mines, *Minerals Yearbook,* thereafter, U.S. Energy Information Administration, *Energy Data Reports, Weekly Coal Production* and *Coke Plant Report.*

No. 1308. Cement, Sand and Gravel, Stone, and Gypsum: 1960 to 1981

[See also *Historical Statistics, Colonial Times to 1970*, series M 188-189 (for related data), M 190 (gypsum mined), M 193 and M 194 (for total quantity)]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Cement production [1]	**Mil. sh. ton**	**62.8**	**73.1**	**76.1**	**82.9**	**69.7**	**74.5**	**80.1**	**85.5**	**85.9**	**76.7**	**72.9**
Portland	Percent	95.5	95.5	96.1	95.9	95.8	95.6	95.3	95.2	95.6	95.9	96.2
Shipments [2]	Mil. sh. ton	61.5	73.6	76.4	82.9	70.7	75.2	81.6	88.0	87.2	77.7	73.0
Portland	Mil. sh. ton	58.7	70.3	73.4	79.5	67.8	71.9	77.9	83.8	83.4	74.7	70.2
Value	Mil. dol.	1,104	1,245	1,366	2,221	2,220	2,576	3,000	3,623	4,061	3,780	3,666
Average per ton	Dollar	17.95	16.91	17.88	26.79	31.41	34.24	36.76	41.17	46.57	50.89	52.20
Imports	Mil. sh. ton	.8	1.0	2.5	5.7	3.6	3.1	4.0	6.6	9.4	5.3	4.0
Value	Mil. dol.	10	14	34	102	71	67	94	191	302	196	151
Exports	1,000 sh. ton	35	141	123	199	417	343	236	55	149	186	300
World production (est.)	Mil. sh. ton	349	476	630	776	774	834	879	940	959	975	980
Sand and gravel:												
Sold or used by producers	Mil. sh. ton	710	908	944	905	789	885	929	996	979	793	755
Value	Mil. dol.	720	957	1,116	1,421	1,340	1,774	2,028	2,302	2,427	2,289	2,290
Average per ton	Dollars	1.01	1.05	1.18	1.57	1.79	2.00	2.18	2.31	2.47	2.89	3.03
Stone sold or used by producers	**Mil. sh. ton**	**617**	**780**	**869**	**1,044**	**901**	**902**	**955**	**1,051**	**1,098**	**985**	**874**
Limestone	Mil. sh. ton	451	555	626	752	665	663	707	786	812	723	646
Granite	Mil. sh. ton	43	60	87	119	95	94	109	122	123	119	102
Basalt and related rock	Mil. sh. ton	58	76	77	97	78	75	77	84	101	81	71
Other	Mil. sh. ton	65	89	79	76	63	70	62	59	62	62	55
Value	Mil. dol.	953	1,204	1,470	2,186	2,120	2,221	2,457	2,886	3,399	3,405	3,277
Crude gypsum: [3]												
Active establishments [4]	Number	96	113	108	116	110	117	115	116	113	114	113
Apparent supply	Mil. sh. ton	15.1	15.9	15.5	19.3	15.1	17.9	20.3	23.1	22.3	19.7	18.9
Mined	Mil. sh. ton	9.8	10.0	9.4	12.0	9.8	12.0	13.4	14.9	14.6	12.4	11.5
Imports for consumption	Mil. sh. ton	5.3	5.9	6.1	7.4	5.4	6.2	7.1	8.3	7.8	7.4	7.6
Exports	1,000 sh. ton	17	28	41	132	75	284	143	132	91	88	157
Calcined gypsum produced	**Mil. sh. ton**	**8.6**	**9.3**	**8.4**	**11.0**	**9.2**	**11.0**	**12.6**	**14.0**	**14.5**	**11.8**	**11.7**
Value	Mil. dol.	121	133	132	206	186	237	278	387	442	270	243
Gypsum products sold, value [5]	**Mil. dol.**	**361**	**420**	**353**	**623**	**514**	**655**	**911**	**1,248**	**1,392**	**1,242**	**1,196**
Building uses, value	Mil. dol.	339	391	323	570	466	598	843	1,171	1,312	1,149	1,099

[1] Includes Puerto Rico; excludes Alaska except for imports and exports. [2] Includes natural, slag, and hydraulic lime plants, not shown separately, except 1970 excludes slag cement. [3] Excludes byproduct gypsum. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. [4] Each mine, plant, or combination mine and plant is counted as 1 establishment. [5] Made from domestic, imported, and byproduct gypsum.

No. 1309. Lime—Quantity Sold or Used by Producers: 1960 to 1981

[Excludes Puerto Rico. See also *Historical Statistics, Colonial Times to 1970*, series M 191-192]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981, prel.
Active plants	Number	157	212	194	171	163	161	155	154	153	150
Quantity sold	**1,000 sh. ton**	**12,935**	**16,794**	**19,747**	**19,133**	**20,229**	**19,947**	**20,443**	**20,945**	**19,010**	**18,856**
Value	Mil. dol.	173	233	286	524	609	666	750	862	843	884
Per ton	Dollars	13.35	13.87	14.49	27.38	30.11	33.41	36.67	41.18	44.34	46.89

No. 1310. Phosphate Rock—Summary: 1960 to 1981

[See also *Historical Statistics, Colonial Times to 1970*, series M 203-204]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Mine production	Mil. ton	60.9	84.3	125.5	155.8	187.5	170.1	184.0	191.2	204.8	231.4	202.5
P_2O_5 content	Mil. ton	9.3	14.3	18.6	20.8	23.5	20.1	22.4	23.5	25.4	26.2	26.2
Marketable production	Mil. ton	19.6	29.5	38.7	45.7	48.8	49.2	52.1	55.2	56.9	60.0	59.1
P_2O_5 content	Mil. ton	6.1	9.1	12.0	14.1	15.0	15.1	16.1	16.9	17.5	18.4	18.0
Value	Mil. dol.	117	193	203	501	1,122	949	822	929	1,046	1,257	1,438
Per ton	Dollars	5.97	6.55	5.25	10.98	22.99	19.28	15.77	16.84	18.38	20.95	24.33
Imports [1]	Mil. sh. ton	.14	.15	.14	.18	.04	.05	.17	1.00	.98	.54	.01
Value	Mil. dol.	3.8	3.0	3.8	9.0	1.6	2.2	6.1	24.4	21.6	12.9	.4
Per ton	Dollars	26.07	20.14	27.87	49.45	43.83	43.59	35.02	24.38	22.04	23.99	30.00
Exports	Mil. sh. ton	4.5	7.3	11.7	13.9	12.3	10.4	14.6	14.2	15.8	15.7	11.5
P_2O_5 content	Mil. sh. ton	1.4	2.3	3.8	4.5	4.0	3.3	4.7	4.5	5.1	5.0	3.6
Value	Mil. dol.	26.6	51.1	60.0	194.0	429.2	272.8	288.6	297.4	356.5	431.4	373.2
Per ton	Dollars	5.95	6.98	5.11	13.96	34.98	26.23	19.79	20.94	22.56	27.41	32.57
Consumption, apparent [2]	Mil. sh. ton	14.9	21.9	27.2	34.7	34.2	34.3	37.9	40.6	43.6	45.0	38.7
World production	Mil. sh. ton	46.1	70.3	93.6	120.0	118.6	119.0	131.5	141.8	146.5	152.5	152.8

[1] For consumption; P_2O_5 content not available. [2] Amount sold or used plus imports minus exports.

Source of tables 1308-1310: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1311. Potash—Summary: 1960 to 1981

[**In thousands of short tons, except value.** See also *Historical Statistics, Colonial Times to 1970,* series M 201-202]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Production of potassium salts (marketable)	4,472	5,401	4,853	4,576	4,427	4,675	4,769	4,708	4,756	4,578
Approximate equivalent K_2O	2,638	3,140	2,729	2,501	2,400	2,457	2,483	2,453	2,468	2,377
Value [1] (mil. dol.)	89.7	129.8	98.1	223.1	210.8	206.9	226.5	279.2	(NA)	(NA)
Sales of potassium salts by producers	4,412	5,027	4,703	3,819	4,612	4,675	4,804	5,014	4,701	4,045
Approximate equivalent K_2O	2,602	2,931	2,669	2,094	2,500	2,460	2,543	2,632	2,444	2,103
Value at plant (mil. dol.)	88.4	121.2	92.4	187.9	210.8	206.9	226.5	279.2	353.9	328.9
Per ton (dollars)	20.04	24.10	19.64	49.19	45.70	44.22	47.15	55.68	75.28	81.31
Imports for consumption of potash materials	415	1,867	4,403	6,271	7,578	8,386	8,656	9,375	9,031	8,712
Approximate equivalent K_2O	226	1,108	2,605	3,797	4,594	5,076	5,189	5,693	5,481	5,287
Value (mil. dol.)	15.4	52.7	94.7	267.2	344.0	373.8	399.2	520.8	648.0	750.4
Exports of potash materials	833	1,099	966	1,419	1,670	1,650	1,577	1,233	1,746	978
Approximate equivalent K_2O	491	648	544	779	945	932	892	700	926	541
Value (mil. dol.)	25.9	42.5	28.5	92.7	91.9	90.2	88.6	79.5	179.8	107.9
Apparent consumption of potassium salts [2]	3,994	5,795	8,140	8,671	10,517	11,405	11,782	13,156	11,987	11,779
Approximate equivalent K_2O	2,337	3,391	4,730	5,112	6,149	6,604	6,840	7,626	6,999	6,849
World production (marketable), approximate equivalent K_2O	10,000	15,100	20,013	27,269	26,765	27,836	28,785	28,304	30,504	30,156

NA Not available. [1] Derived from reported value of amount sold or used. [2] Amount sold or used plus imports minus exports.

No. 1312. Sulfur—Summary: 1960 to 1981

[**In thousands of long tons, except value.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970,* series M 195-199]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Production, sulfur, all forms [1]	**6,661**	**8,212**	**9,557**	**11,419**	**11,259**	**10,707**	**10,558**	**10,999**	**11,910**	**11,679**	**11,953**
Sulfur from Frasch mines	5,037	6,116	7,082	7,901	7,211	6,264	5,822	5,559	6,257	6,289	6,248
Recovered elemental sulfur	767	1,215	1,457	2,632	2,969	3,138	3,567	3,998	4,006	4,009	4,192
Pyrites, sulfur content only	416	354	339	162	237	286	166	296	394	317	302
Gross weight of total pyrites	1,016	875	845	424	625	750	435	766	1,033	834	784
Byproduct sulfuric acid [2]	345	388	537	654	767	942	945	1,086	1,148	987	1,141
Shipments, Frasch mines	5,130	7,251	6,504	7,898	6,077	5,860	5,935	5,645	7,388	7,283	5,817
Approximate value (mil. dol.)	118	165	154	241	305	300	295	280	449	721	716
Avg. value per long ton (dol.)	23.08	22.71	23.65	30.52	50.16	51.19	49.66	49.60	60.83	98.93	123.03
Imports for consumption:											
Crude sulfur	741	1,486	1,537	2,150	1,897	1,727	1,977	2,143	2,455	2,483	2,482
Pyrites, sulfur content [3]	146	160	130	-	-	-	-	-	-	-	-
Exports, sulfur	1,787	2,635	1,433	2,663	1,352	1,270	1,178	852	2,012	1,754	1,370

- Represents zero. [1] Includes other byproduct sulfur compounds, not shown separately. [2] Represents sulfur content. Produced at copper, lead, and zinc plants. [3] Estimate.

Source of tables 1311 and 1312: U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1313. Lead—Summary: 1960 to 1981

[**In thousands of 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 1970,* series M 242-248]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Smelter production of refined primary lead	**382**	**418**	**667**	**673**	**636**	**653**	**605**	**623**	**634**	**603**	**546**
Domestic ores and base bullion [1]	229	305	528	580	530	569	536	553	584	560	485
Foreign ores and base bullion	154	113	139	93	106	84	68	70	50	43	61
Recovery of secondary lead	470	576	597	699	658	727	835	848	883	745	707
Imports, general:											
Lead in pigs and bars	206	223	244	118	101	146	261	244	211	90	112
Lead in ores and matte	146	123	112	94	88	76	73	58	44	49	65
Exports of refined pig lead [2]	2	8	8	62	21	6	10	9	12	181	26
Consumption of metal, primary and secondary	1,021	1,241	1,361	1,599	1,297	1,490	1,582	1,579	1,497	1,180	1,287
Average price, common lead:											
New York (cents per lb.)	11.95	16.00	15.69	22.53	21.53	23.10	30.70	33.65	52.64	42.46	36.53
London (cents per lb.)	9.04	14.37	13.76	26.83	18.73	20.46	28.00	29.86	54.52	41.21	33.30
Mine production of recoverable lead [3]	247	301	572	664	621	610	592	584	579	607	491
Value [3] (mil. dol.)	58	94	179	299	267	282	364	394	610	515	359
World smelter production, est	2,550	2,911	3,628	3,829	3,633	3,568	3,516	3,554	3,637	3,533	3,482
World smelter capacity	(NA)	(NA)	(NA)	5,235	(NA)	5,190	5,255	5,230	5,241	(NA)	(NA)

NA Not available. [1] Excludes lead content of antimonial lead. [2] Pigs, bars, and anodes. [3] Includes Alaska.

Source: U.S. Bureau of Mines, *Minerals Yearbook,* and *Mineral Facts and Problems.*

No. 1314. Iron Ore—Summary: 1960 to 1981

[In millions of long tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 205-211]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Number of mines	247	183	74	66	67	65	54	51	49	37	32
Production [1]	**88.8**	**87.4**	**89.8**	**84.4**	**78.9**	**80.0**	**55.8**	**81.6**	**85.7**	**69.6**	**73.2**
Lake Superior	71.8	66.4	69.6	70.7	66.7	67.4	44.0	72.7	77.2	62.3	67.5
Northeastern	4.1	5.2	3.5	2.4	1.9	2.4	2.0	8.9	8.6	7.3	5.7
Western	4.6	[2] 13.1	14.3	10.5	9.6	10.1	9.8				
Hematite [3]	[2 4] 68.1	47.0	33.6	24.1	19.2	19.3	11.5	15.9	13.9	11.8	10.6
Magnetite [3]	18.2	36.9	53.8	58.8	58.4	59.3	43.1	64.8	71.0	57.8	62.6
Other	2.4	3.5	2.4	1.5	1.2	1.4	1.1	.8	.8	-	-
Shipments [5]	83.0	84.1	87.2	85.1	75.7	77.1	54.1	83.2	86.2	69.6	72.2
Value [5] (mil. dol.)	724	801	942	1,391	1,621	1,871	1,423	2,401	2,814	2,544	2,915
Average per ton at mine (dol.)	8.73	9.53	10.80	16.34	21.41	24.28	26.32	28.86	32.64	36.56	40.39
Stocks, Dec. 31 (at mines)	12.3	12.7	15.3	9.4	12.3	14.0	14.8	12.4	11.3	11.7	12.7
Price (Lake Superior ores) Dec. 31:											
Natural ores, basis 51.5% Fe (dol./lg. ton)	11.45	10.55	10.80	17.28	18.50	20.26	21.18	22.30	24.56	28.50	32.53
Imports [6]	34.6	45.1	44.9	48.0	46.7	44.4	37.9	33.6	33.8	25.1	28.3
Canada	10.6	23.8	23.9	19.7	19.1	25.0	25.3	19.2	22.6	17.3	18.8
Venezuela	14.6	12.3	13.0	15.4	13.1	9.0	6.2	6.1	4.6	3.6	5.1
Brazil	1.5	2.3	2.0	6.6	7.5	5.4	2.2	4.0	3.1	2.0	1.7
Value (mil. dol.)	322	444	480	696	860	980	957	845	923	773	948
Exports	5.3	7.1	5.5	2.3	2.5	2.9	2.1	4.2	5.1	5.7	5.5
Value (mil. dol.)	58	80	68	35	60	82	63	137	179	231	245
World production (est.)	514	611	754	879	902	885	828	834	890	882	847

- Represents zero. [1] Includes Southeastern district and byproduct ore, not shown separately. [2] Includes undistributed. [3] Predominant mineral. [4] Includes brown ore from Tenn., Mo., and Tex.; also magnetite from Calif., Utah, and Wyo. [5] Beginning 1976, includes byproduct ore. [6] For consumption. Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1315. Gold and Silver—Summary: 1960 to 1981

[See *Historical Statistics, Colonial Times to 1970*, series M 268-269, for mine production]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981, prel.
GOLD												
Ore produced [1]	1,000 sh. ton	2,267	3,113	3,687	4,598	5,722	3,063	5,806	4,292	7,046	9,893	10,451
Production, U.S.	Mil. fine oz	1.7	1.7	1.7	1.1	1.1	1.0	1.1	1.0	1.0	1.0	1.4
Value	Mil. dol	58	60	63	180	170	131	163	193	297	594	633
World production	Mil. fine oz	37.8	46.2	47.5	40.1	38.5	39.0	38.9	39.0	38.8	39.1	40.8
Industrial consumption U.S., net	Mil. troy oz	3.0	5.3	6.0	4.7	4.0	4.6	4.9	4.7	4.8	3.2	2.8
Imports [2]	Mil. dol	335	102	237	397	457	331	674	903	1,480	2,750	2,157
Canada	Mil. dol	184	2	152	143	182	200	258	339	565	1,234	1,314
Soviet Union	Mil. dol	-	-	-	83	1	11	220	287	549	88	22
South Africa	Mil. dol	(z)	(z)	(z)	1	6	1	2	1	3	33	188
Exports	Mil. dol	2	1,285	38	228	493	375	1,113	1,114	4,908	3,648	3,072
Price per fine oz. [3]	Dollars	35.0	35.0	36.4	159.7	161.5	125.3	148.3	193.6	307.5	612.6	459.6
Production: [4]												
Nevada	1,000 fine oz	66	[5] 205	480	299	333	288	324	261	250	278	525
South Dakota	1,000 fine oz	551	[5] 656	579	344	305	319	305	286	246	268	278
Utah	1,000 fine oz	314	[5] 389	408	255	190	187	211	236	261	180	228
SILVER												
Ore produced [1 6]	1,000 sh. ton	968	958	934	758	919	1,821	1,457	1,840	1,822	2,936	5,571
Production, U.S.	Mil. fine oz	31	40	45	34	35	34	38	39	38	32	41
Value	Mil. dol	28	51	80	159	154	149	176	213	420	667	428
World production	Mil. fine oz	241	257	301	292	303	316	331	345	345	340	365
Industrial consumption U.S., net [7]	Mil. fine oz	102	137	128	176	158	171	154	160	157	125	117
Imports [8]	Mil. dol	54	63	104	624	394	378	356	389	962	1,606	1,028
Canada	Mil. dol	20	26	64	167	150	173	166	180	277	660	375
Mexico	Mil. dol	10	8	9	179	96	80	93	94	257	282	228
Peru	Mil. dol	11	13	19	72	76	48	68	85	188	354	273
Exports	Mil. dol	27	51	49	82	148	61	85	119	471	1,910	332
Price per fine oz. [3]	Dollars	.91	1.29	1.77	4.71	4.42	4.35	4.62	5.40	11.09	20.63	10.52
Production: [4]												
Idaho	Mil. fine oz	17.8	18.1	19.1	12.4	13.9	11.6	15.3	18.4	17.1	13.7	16.5
Arizona	Mil. fine oz	5.3	6.1	7.3	6.4	6.3	7.6	6.8	6.6	7.5	6.3	8.1
Utah	Mil. fine oz	5.1	5.2	6.0	3.2	2.8	3.1	3.3	2.9	2.5	2.2	2.9
Colorado	Mil. fine oz	2.1	2.0	2.9	2.8	3.4	4.1	4.7	4.2	2.8	3.0	3.0

- Represents zero. Z Less than one-half million dollars. [1] Gold and silver are also produced from base-metal ores and placers. In 1975, those sources accounted for 38 percent of gold produced and 65 percent of silver. [2] General imports, 1960-1977; imports for consumption, beginning 1978. [3] Selling price, except New York price for silver, beginning 1965. [4] Source: 1960-1965, U.S. Bureau of the Mint, *Annual Report of the Director*. [5] Refinery production. [6] Includes gold-silver ore. [7] Excludes coinage. [8] General imports, 1960-1976; thereafter, imports for consumption.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1316. Copper—Summary: 1960 to 1981

[In thousands of short tons, except as indicated. Excludes Hawaii and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970,* series M 235-241]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981, prel.
New (primary) copper produced—										
Mines (from domestic ores)	1,080	1,352	1,720	1,413	1,606	1,504	1,496	1,591	1,302	1,696
Copper ore produced [1] (mil. sh. tons)	135	173	258	263	284	260	264	306	244	306
Average yield of copper (percent)	.73	.70	.59	.47	.51	.52	.51	.47	.48	.51
Smelters (from domestic ores)	1,143	1,403	1,605	1,374	1,461	1,394	1,400	1,448	1,096	1,427
Percent of world total	23	23	24	17	17	16	16	16	13	16
Refineries (from domestic ores)	*1,121*	*1,336*	*1,521*	*1,286*	*1,423*	*1,411*	*1,463*	*1,556*	*1,237*	*1,577*
From foreign ores, matte, etc., refinery	398	376	244	157	117	85	134	114	98	125
Total new refined, domestic and foreign	1,519	1,712	1,765	1,443	1,539	1,496	1,597	1,670	1,335	1,702
Secondary copper produced	871	1,253	1,248	972	1,145	1,196	1,375	1,711	1,584	1,563
Recovered from old scrap only	429	513	504	369	419	452	553	666	676	659
Imports (unmanufactured) [2 3]	524	523	392	324	535	437	586	310	603	474
Refined	143	137	132	147	382	387	444	225	471	364
Exports (unmanufactured) [3]	506	372	307	234	172	125	196	204	213	265
Refined exports of metallic copper	434	325	221	172	112	52	101	81	16	27
Stocks (producers), Dec. 31	359	281	470	519	511	580	459	374	354	472
Mine production of primary copper	*1,080*	*1,352*	*1,720*	*1,413*	*1,606*	*1,504*	*1,496*	*1,591*	*1,302*	*1,696*
Arizona	539	703	918	813	1,024	924	983	1,043	849	1,147
Montana	92	115	120	88	91	86	74	77	42	69
New Mexico	67	99	166	146	172	165	141	181	165	170
Utah	218	259	296	177	185	194	205	213	174	233
Other States	163	175	220	189	134	135	93	77	72	77
Avg. price, domestic production (cents per lb.)	32.1	35.4	58.2	64.2	69.6	66.8	66.5	93.3	102.4	85.1
World smelter production	5,040	6,105	6,752	8,069	8,642	8,967	8,844	8,869	8,751	9,177
World smelter capacity	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	10,900	11,180	(NA)	(NA)

NA Not available. [1] Includes old tailings, smelted or retreated. Not comparable with mine production figures which include recoverable copper content of ores not classified as "copper." [2] Includes copper imported for immediate consumption plus material entering country under bond. Beginning with 1977 includes imports for consumption. [3] Comprises copper in ores and concentrates, matte, refined, blister, and scrap.

No. 1317. Molybdenum Concentrates—Summary: 1960 to 1981

[In millions of pounds of contained molybdenum, except as indicated. See *Historical Statistics, Colonial Times to 1970,* series M 227-228, for production and exports of ores and concentrates]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Production	68.2	77.4	111.4	115.9	112.0	106.0	113.2	122.4	131.8	144.0	150.7	139.9
Shipments from mines	69.9	77.3	110.4	135.1	118.2	105.2	114.5	125.0	130.7	143.5	149.3	118.9
Average price per pound [1] (dol.)	1.47	1.75	1.92	1.92	2.24	2.74	3.26	4.02	4.86	6.07	9.00	6.85-8.50
Value (mil. dol.)	87.4	120.8	190.1	217.7	234.7	259.3	333.5	450.4	607.9	871.1	1,344.2	945.5
Exports [2]	30.2	24.1	55.7	74.0	78.7	62.6	62.5	65.7	69.2	72.2	68.2	51.4
Imports for consumption	-	.1	(z)	.5	.2	2.6	2.1	2.0	2.7	2.3	1.8	2.0
Consumption	44.8	68.1	76.1	82.5	91.7	90.0	85.0	91.0	96.4	103.2	108.2	80.7
Stocks (industry), Dec. 31 [3]	3.5	4.2	9.7	22.0	18.7	10.7	9.4	9.2	9.0	9.5	18.1	35.5
World production, estimate	89.1	[4] 98.5	[4] 161.1	180.1	185.6	180.3	195.5	209.7	220.7	229.4	241.7	240.4

- Represents zero. Z Less than 50,000 pounds. [1] Molybdenum in technical-grade oxide, f.o.b., plant of major producer, domestic sales. [2] Includes roasted concentrates. [3] At mines and at plants making molybdenum products. [4] Free world.

No. 1318. Cobalt—Summary: 1960 to 1981

[In millions of pounds of contained cobalt, except price]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Production:												
Mine	2.2	1.2	.7	-	-	-	-	-	-	-	-	-
Secondary (scrap) [1]	.2	.1	.1	.3	.3	.3	.3	.5	1.0	1.2	1.2	1.0
Imports [2]	12.2	15.4	12.4	19.2	16.1	6.6	16.5	17.5	19.0	20.0	16.3	15.6
Zaire	(NA)	(NA)	(NA)	11.2	7.5	2.2	6.8	7.5	7.9	8.8	6.2	4.2
Zambia	(NA)	(NA)	(NA)	-	.1	-	1.7	2.4	2.1	3.5	2.2	1.5
Finland	(NA)	(NA)	(NA)	.9	.9	1.1	.8	1.3	.9	1.2	1.1	1.2
Exports [3]	(NA)	.1	1.5	1.4	1.3	1.8	1.8	.9	1.5	.7	.6	.8
Consumption	8.9	13.6	13.4	18.7	18.9	12.8	16.5	16.6	20.0	17.4	15.3	11.7
Inventories	104.0	103.8	81.0	65.4	56.0	49.5	44.1	44.5	45.2	44.2	43.3	42.2
Government [4]	103.2	102.2	79.1	62.9	54.0	47.6	41.0	40.9	40.8	40.8	40.8	40.8
Private [5]	.8	1.6	1.9	2.5	2.0	1.8	3.2	3.7	4.4	3.4	2.5	1.4
Price per pound [6] (dollars)	1.54	1.62	2.20	3.00	3.46	3.98	4.44	5.58	11.53	24.58	25.00	19.73

- Represents zero. NA Not available. [1] Reported consumption of purchased scrap. [2] Includes countries not shown separately. [3] Content of unwrought cobalt and cobalt alloys, and waste and scrap. [4] Includes cobalt sold but not delivered. [5] Consumer stocks only. [6] Weighted average based on the market price quoted by a major U.S. cobalt dealer.

Source of tables 1316-1318: U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1319. Nickel—Summary: 1960 to 1981

[**Quantities in thousands of short tons.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 231-234]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Mine production	14	16	16	18	17	17	16	14	14	15	15	12
Plant production: Primary [1]	14	14	16	14	14	14	14	13	11	12	11	10
Secondary [2]	27	51	49	66	65	42	47	45	44	57	40	(NA)
Imports (est. nickel content)	103	163	156	190	221	161	188	195	240	177	189	200
Exports (gross weight)	54	21	31	22	30	30	47	39	36	51	57	47
Consumption	108	172	156	198	208	146	163	155	181	196	156	145
Stocks (consumer), Dec. 31	11	*14*	*25*	*29*	*45*	*35*	*32*	*19*	*20*	*20*	*15*	*23*
Price per pound [3] (dollars)	.74	.79	1.33	1.53	2.01	2.20	2.20	2.41	2.10	1.93	3.20	3.45
World production, est	353	468	693	783	849	890	873	913	723	749	821	772

NA Not available. [1] From domestic ores. [2] Includes nickel recovered from iron and steel scrap. [3] Peak price quoted U.S. buyers by International Nickel Co., Inc., for electrolytic nickel, U.S. duty included, f.o.b. Port Colborne, Ontario.

No. 1320. Tin—Summary: 1960 to 1981

[**In thousands of short tons, except price.** See headnote, table 1319, for exclusions]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Production: Domestic smelters	(D)	3.4	(D)	6.7	7.2	6.3	7.4	6.5	5.1	3.3	2.2
Secondary sources	24.7	28.1	22.4	21.1	17.5	18.1	20.4	23.3	23.7	20.5	17.0
Imports for consumption:											
Metal	44.3	45.7	56.7	44.3	48.9	49.7	52.7	51.6	53.3	50.7	50.6
Ore (tin content)	15.8	4.7	5.2	6.6	7.1	6.3	7.4	4.3	5.0	.9	.3
Exports	1.0	3.2	5.0	9.5	4.0	2.6	6.0	5.2	3.8	4.7	6.7
Price of Straits tin at N.Y., avg. cents per lb. [1]	101	178	174	396	340	380	535	630	754	846	733
Consumption	*90*	*94*	*83*	*73*	*62*	*69*	*67*	*68*	*69*	*62*	*60*
World mine production, est	202	225	256	257	245	241	254	266	271	272	278

D Withheld to avoid disclosure of individual company data. [1] See footnote 4, table 1278.

No. 1321. Tungsten Concentrate—Summary: 1960 to 1981

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981, *prel.*
Production:											
Concentrates (60% WO_3 basis) [1]	1,000 sh. ton	7.0	7.9	10.1	5.8	6.1	6.3	7.3	7.0	6.3	8.2
Tungsten content	Mil. lb	6.7	7.6	9.3	5.5	5.9	6.0	6.9	6.6	6.0	7.8
Shipments from mines:											
Reported value f.o.b. mines	Mil. dol	9.8	13.0	23.8	29.1	37.3	55.1	56.7	55.8	50.6	62.2
Avg. value per lb. of tungsten	Dollars	1.40	1.72	2.55	5.30	6.35	9.15	8.22	8.40	8.38	7.96
Imports, general [2]	Mil. lb	5.2	3.5	1.3	6.9	5.8	6.8	[3] 9.1	[3] 11.4	[3] 11.4	[3] 11.8
Consumption [2]	Mil. lb	11.6	13.9	16.7	14.0	16.1	17.1	18.8	21.6	20.4	21.7
Stocks, [2] *end of year*	Mil. lb	5.5	1.8	2.2	2.5	1.2	1.0	1.5	1.6	1.4	1.7
World production [2]	Mil. lb	68.7	59.6	71.4	84.5	90.9	90.5	102.7	107.3	114.1	108.4

[1] A short ton of 60% tungsten trioxide (WO_3) contains 951.72 pounds of tungsten. [2] Tungsten content. [3] Imports for consumption.

Source of tables 1319-1321: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1322. Uranium—Summary: 1960 to 1981

[See table 1009. See also *Historical Statistics, Colonial Times to 1970*, series M 266-267]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Mine ore shipments [1]	Mil. sh. ton	8.0	4.4	3.3	7.0	7.0	8.6	10.3	14.3	15.0	16.7	13.7
Recoverable content [2]	Mil. lb	37.6	20.8	25.6	24.8	24.0	27.0	31.8	37.6	31.4	40.0	31.2
Value [3]	Mil. dol	(NA)	(NA)	(NA)	196.0	252.0	438.0	628.0	812.0	749.0	1,228.0	1,208.0
Production, concentrate [2]	1,000 sh. ton	17.6	10.4	12.9	11.5	11.6	12.7	14.9	18.5	18.7	21.8	19.2
Imports, concentrate [2] [4]	1,000 sh. ton	18.0	4.0	–	–	.7	1.8	2.8	2.6	1.5	1.8	3.3
World production [2] [5]	1,000 sh. ton	41.6	20.4	24.2	24.0	24.8	29.0	37.5	44.1	49.4	57.1	57.2

– *Represents zero.* NA *Not available.* [1] *Receipts at mills.* [2] U_3O_8. [3] *Based on average price for delivery commitments during the year.* [4] Mainly for enrichment and export of enriched uranium product, 1965-76; thereafter, for domestic consumption only. [5] Excludes Communist countries.

Source: U.S. Dept. of Energy, *Statistical Data of The Uranium Industry, 1982, 1980 Annual Report to Congress*, vol. II., and *OECD, Uranium Resources, Production and Demand*, February 1982.

No. 1323. Zinc—Summary: 1960 to 1981

[**Production in thousands of short tons.** Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970,* series M 249–250, for production]

ITEM AND STATE	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Smelter production, primary slab zinc	**800**	**994**	**878**	**583**	**555**	**438**	**499**	**450**	**448**	**521**	**375**	**379**
Value (mil. dol.)	205	291	236	241	399	341	369	310	278	389	281	338
From domestic ores	334	551	404	399	347	308	362	355	295	281	256	283
From foreign ores	465	443	474	184	208	130	117	95	154	240	120	96
Production, redistilled secondary slab zinc	69	84	77	83	79	58	69	51	38	59	32	54
Avg. price of common zinc (cents per lb.)	13.0	14.5	15.3	20.7	36.0	39.0	37.1	34.4	31.0	37.3	37.4	44.6
Mine production, recoverable zinc	**435**	**611**	**534**	**479**	**500**	**469**	**485**	**450**	**334**	**295**	**350**	**344**
Colorado	31	54	57	58	49	48	51	40	24	11	15	(D)
Idaho	37	58	41	46	39	41	47	31	36	33	31	(D)
Missouri	3	4	51	82	92	75	84	82	65	68	69	58
New York	66	70	59	81	93	77	74	71	29	13	37	41
Tennessee	91	122	118	64	86	83	83	90	97	94	123	130
Other States	207	303	208	148	141	145	146	136	83	76	75	116
World smelter production, est	3,335	4,363	5,321	5,877	6,183	5,526	5,986	6,407	6,486	6,910	6,677	6,768
World smelter and refining capacity	(NA)	(NA)	(NA)	6,720	6,940	(NA)	7,545	7,666	8,487	8,524	(NA)	(NA)

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

Source: U.S. Bureau of Mines, *Minerals Yearbook,* and *Mineral Facts and Problems.*

No. 1324. Bauxite—Summary: 1960 to 1981

[See also *Historical Statistics, Colonial Times to 1970,* series M 256–257]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Production:												
Crude ore	Mil. lg. ton	2.4	2.0	2.5	2.4	2.2	2.4	2.4	2.0	2.2	1.8	1.8
Dried bauxite	Mil. lg. ton	2.0	1.7	2.1	1.9	1.8	2.0	2.0	1.6	1.8	1.5	1.5
Value	Mil. dol	21.1	18.6	30.1	25.7	25.1	26.6	27.6	23.2	24.9	22.4	26.5
Imports [1] (crude, dried)	Mil. lg. ton	8.7	11.4	13.6	15.0	11.5	12.5	12.9	13.8	13.6	13.9	12.6
Jamaica	Mil. lg. ton	4.2	6.6	7.5	7.8	5.4	6.2	6.4	6.4	6.4	6.0	5.3
Guinea	Mil. lg. ton	–	(NA)	.5	1.7	2.6	3.0	3.0	3.4	3.9	4.0	3.5
Suriname	Mil. lg. ton	3.3	3.0	2.9	2.9	1.9	1.5	1.9	2.3	1.5	1.3	1.0
Value [2]	Mil. dol	78.0	143.0	159.8	180.2	245.1	315.1	349.5	397.5	389.1	(NA)	(NA)
Exports (as shipped)	1,000 lg. ton	29	147	3	16	19	15	26	13	15	21	20
Value	Mil. dol	2.6	10.7	.2	1.2	1.7	1.3	2.3	1.5	3.3	(NA)	(NA)
Consumption (dry equivalent)	Mil. lg. ton	8.9	13.5	15.7	16.9	12.4	13.8	14.3	14.5	15.4	15.7	13.3
World production, est	Mil. lg. ton	27.2	36.8	56.9	78.4	73.6	76.2	80.1	78.5	86.4	87.4	84.4

– Represents zero. NA Not available. [1] Includes countries not shown separately. [2] See footnote 1, table 1289.

Source: U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1325. Aluminum—Summary: 1960 to 1981

[See also *Historical Statistics, Colonial Times to 1970,* series M 258–262]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Production	Mil. sh. ton	2.3	3.4	4.8	5.9	4.9	5.4	5.8	6.1	6.4	6.5	6.6
Primary aluminum	Mil. sh. ton	2.0	2.8	4.0	4.9	3.9	4.3	4.5	4.8	5.0	5.1	4.9
Plant capacity	Mil. sh. ton	2.5	2.8	4.3	4.9	5.0	5.2	5.2	5.2	5.3	5.5	5.5
Secondary aluminum [1]	Mil. sh. ton	.3	.6	.8	1.0	1.0	1.2	1.3	1.3	1.4	1.4	1.7
Value [2] (primary metal)	Bil. dol	1.2	1.7	2.6	3.7	3.7	4.8	6.0	6.6	7.8	9.3	10.0
Primary aluminum	Bil. dol	1.0	1.3	2.2	3.0	3.0	3.8	4.7	5.2	6.1	7.3	7.5
Price (cents per lb.[3])	Cents/lb	26.0	24.5	28.7	34.1	39.8	44.5	51.6	54.0	61.0	71.6	76.0
Secondary aluminum	Bil. dol	.2	.3	.5	.7	.8	1.0	1.3	1.4	1.7	2.0	2.5
Imports for consumption [4]	Mil. sh. ton	.2	.6	.5	.6	.6	.7	.8	1.1	.8	.7	.9
Value	Bil. dol	.1	.3	.2	.4	.4	.6	.8	1.1	1.0	1.0	1.4
Exports [4]	1,000 sh. tons	384	315	612	524	440	484	411	520	773	1,483	867
Value	Bil. dol	.2	.2	.4	.5	.4	.5	.5	.7	1.1	2.4	1.5
Shipments [5] (net domestic)	Mil. sh. ton	2.4	3.8	4.5	6.4	4.6	5.8	6.1	6.8	6.9	6.0	6.0
World production, est	Mil. sh. ton	5.0	7.0	10.6	14.5	13.4	13.9	15.2	15.6	16.1	17.0	16.6
World plant capacity	Mil. sh. ton	5.9	7.9	12.0	15.6	16.4	17.6	18.0	18.9	19.4	20.0	20.4

[1] Recoverable aluminum content from scrap, old and new. [2] Based on published producers' prices for primary metal. [3] Average of prices for primary aluminum, 1960–1978, quoted by *American Metal Market;* thereafter *Metals Week.* [4] Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap). [5] Compiled by Aluminum Association from data on net shipments of aluminum ingot and mill products. Includes changes in aluminum industry and government inventories and net trade.

Source: U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1326. MAGNESIUM—SUMMARY: 1970 TO 1981

[In thousands of short tons, except as indicated. Magnesium metal is used primarily in the manufacturing of aircraft, automotive, and other types of transportation equipment, material-handling equipment, power tools, and alloying with other metals]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Production (domestic)	124	137	140	(D)	148	151	159	185	200	209	269
Primary [1]	112	121	122	(D)	120	120	126	149	162	169	143
Secondary (recovered from scrap)	12	16	18	15	28	31	33	36	37	40	46
Exports	36	18	40	46	33	13	28	42	54	57	35
Value (mil. dol.)	22.5	11.7	28.2	48.5	48.2	26.9	51.8	75.8	113.8	127.7	90.8
Imports	3	4	3	5	8	15	6	7	5	4	7
Value (mil. dol.)	2.5	2.6	2.7	5.2	11.5	22.7	8.0	10.1	9.0	8.3	17.6
Consumption	93	104	116	130	94	104	104	109	109	96	91
For structural products	23	24	25	28	19	17	20	19	19	17	15
For distributive or sacrificial purposes	70	80	91	102	75	87	84	90	90	78	76
Alloys (aluminum)	37	43	52	62	47	54	58	59	61	54	51
Other	33	37	39	40	28	33	28	31	29	24	25
Price per pound (cents)	35	37	38	41-75	82	87-92	96-99	99-101	101-109	107-125	125-134
World production (primary)	242	258	266	[2]143	258	275	284	318	339	350	328

D Withheld to avoid disclosing company proprietary data. [1]Beginning 1975, figures are the difference between total North American production reported by the International Magnesium Association and Canadian production. [2]Excludes U.S. production.

No. 1327. CHROMITE—SUMMARY: 1970 TO 1981

[In thousands of short tons, except as indicated]

ITEM	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Imports for consumption [1]	1,405	1,056	931	1,102	1,252	1,275	1,293	1,013	1,024	982	898
Value (mil. dol.)	31.8	27.6	21.0	28.5	60.7	70.0	68.7	51.4	55.6	56.5	49.9
South Africa	407	249	303	341	289	438	659	490	353	405	482
Soviet Union	248	434	242	298	349	189	80	157	250	170	111
Philippines	210	131	190	264	210	166	172	185	194	138	145
Exports	41	20	21	18	139	124	187	23	27	6	71
Reexports	73	57	34	99	45	85	61	29	28	44	67
Consumption, total	1,403	1,140	1,387	1,450	881	1,006	1,000	1,010	1,209	968	879
Metallurgical industry	912	727	920	904	532	597	578	534	774	573	501
Refractory industry	278	224	261	295	183	202	208	237	193	155	139
Chemical industry	213	189	206	251	166	207	214	239	242	240	239
Stocks, Dec. 31 (consumer)	733	857	597	573	952	1,009	1,338	1,301	907	675	663
World production [1]	6,672	6,725	7,381	8,244	9,136	9,362	10,415	10,210	10,676	10,746	10,225
South Africa	1,579	1,635	1,818	2,069	2,288	2,656	3,372	3,466	3,634	3,763	3,160
Soviet Union	1,930	2,040	2,100	2,150	2,290	2,300	2,400	2,550	2,550	2,700	2,650
Philippines	624	385	640	584	573	475	593	595	613	547	490

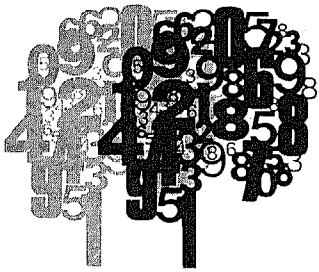
[1]Includes countries not shown separately.

No. 1328. TITANIUM—SUMMARY: 1970 TO 1981

ITEM	Unit	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Ilmenite concentrate:												
Mine shipments	1,000 sh. ton	921	740	804	755	702	618	542	581	646	594	524
Value	Mil. dol	18.6	16.7	20.1	22.7	26.9	27.6	25.2	25.6	33.0	32.0	37.0
Imports	1,000 sh. ton	96	15	70	82	122	168	335	309	184	357	236
Value	Mi. dol	1.0	.2	.9	1.4	2.1	2.6	5.7	4.5	2.6	6.7	5.9
Consumption	1,000 sh. ton	972	786	808	852	748	822	867	792	791	849	856
Titanium dioxide pigments:												
Production	1,000 sh. ton	655	718	785	787	603	713	687	701	742	727	750
Imports for consumption	1,000 sh. ton	60	86	60	35	26	68	115	118	105	98	125
Consumption	1,000 sh. ton	(NA)	(NA)	(NA)	(NA)	596	754	785	802	840	753	795
Price, Dec. 31:												
Anatase	Cents/lb	26	27-29	24	31	39	41	44	46	53	57	69
Rutile	Cents/lb	26-27	26-29	28	35	44	47	49	51	59	63	75
World production:												
Ilmenite concentrate	1,000 sh. ton	3,109	2,702	2,983	3,519	3,194	3,490	3,653	3,875	3,920	[1]4,019	[2]3,979
Titanium slag	1,000 sh. ton	853	924	947	936	832	901	765	1,037	842	[1]1,343	[3]1,248
Rutile concentrate, natural [3]	1,000 sh. ton	460	351	385	398	422	445	401	356	415	[1]483	[2]421

NA Not available. [1]Preliminary. [2]Estimated. [3]Excludes U.S. production data to avoid disclosing company proprietary data.

Source of tables 1326-1328: U.S. Bureau of Mines, *Minerals Yearbook*.



Section 28

Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics, occupants, and financing; on public housing; and on nonresidential buildings.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Construction Reports* series with various quarterly or annual supplements; *Housing Starts* and *Housing Completions* present data by type of unit and by 4 major census regions; *New One-Family Houses Sold and For Sale* also provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Value of New Construction Put in Place* includes monthly composite construction cost indexes, and a special supplement which contains historical data, 1964 to 1980, as well as several tables showing data for 1915–1964; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits and Public Contracts* covers approximately 16,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Residential Alterations and Repairs.* Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies,* the quarterly *Market Absorption of Apartments,* the *Annual Housing Survey,* and reports of the censuses of housing and of construction industries. *Construction Review,* published monthly by the Bureau of Industrial Economics, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y., which presents State data on construction contracts; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the Federal Home Loan Bank Board, the Department of Housing and Urban Development (HUD), and the Veterans Administration, which publish financial data. Data on conventional home mortgages are provided by the Federal Home Loan Bank Board. The Department of Housing and Urban Development provides data on the gross flow of long-term mortgage loans in its study, *The Supply of Mortgage Credit, 1970–1979.* Data on mortgages insured by the Federal Housing Administration (FHA) and on VA-guaranteed loans are also presented in this section. In addition, the *Statistical Yearbook,* published by HUD through the 1979 issue, also contains housing data.

Censuses and surveys.—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1977.

The 1977 Census of Construction Industries, in accordance with the 1972 *Standard Industrial Classification Manual* (see text, page 372), defines a construction establishment as a relatively permanent place of business where the usual business activities related to construction are conducted.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at 10-year intervals. For the 1970 and 1980 censuses, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent.

Evaluation studies of the 1950, 1960, and 1970 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, and 1.7 percent, respectively. The net undercount in the 1970 census is estimated at approximately 1.5 million housing units. Estimates for the 1980 Census were not available at the time of publication of this edition. The estimates for the various censuses are not strictly comparable due to differences in timing, procedures, and other factors. The census figures have not been adjusted to reflect the estimated undercounts.

The Annual Housing Survey (*Current Housing Reports,* Series H-150 and H-170), which began in 1973, provides a current and ongoing series of data on selected housing and demographic characteristics. It is based on a national sample and on separate samples for 60 SMSA's selected to represent a cross section of the housing stock in these areas. Annual Housing Survey estimates are subject to both sampling and nonsampling errors; caution should, therefore, be used in making comparisons with 1970 census data.

Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented in the Annual Housing Survey.

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) complete kitchen facilities for the exclusive use of the occupants. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix I.

NO. 1329. CONSTRUCTION INDUSTRIES—SUMMARY, BY INDUSTRY: 1972 AND 1977

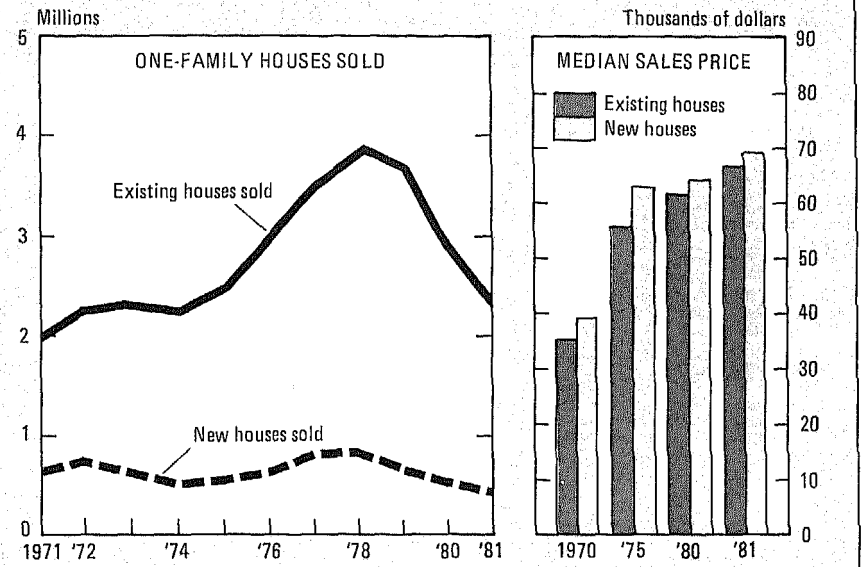
[Based on a probability sample of about 167,000 construction establishments with payroll; in 1972 and 181,000 in 1977, see Appendix III. "N.e.c." means Not elsewhere classified]

INDUSTRY	Establishments with payroll (1,000)	EMPLOYEES (1,000)		PAYROLL (mil. dol.)		RECEIPTS (mil. dol.)		Value added [2] (mil. dol.)
		Total	Construction workers	Total	Construction workers	Total	Net construction [1]	
1972, total	**437.9**	**4,146**	**3,487**	**40,005**	**32,187**	**155,850**	**111,232**	**68,197**
Contract construction	430.0	4,083	3,464	39,528	32,036	152,722	110,716	67,810
General building contractors	133.1	1,150	938	10,159	7,740	64,350	33,245	17,884
Heavy construction contractors	28.0	827	709	9,255	7,537	31,461	25,357	16,200
Special trade contractors	269.0	2,107	1,817	20,114	16,759	56,911	52,114	33,726
1977, total	**480.0**	**4,273**	**3,565**	**54,980**	**43,112**	**224,665**	**164,516**	**98,864**
Contract construction	474.9	4,234	3,548	54,566	42,963	221,622	163,463	98,116
General building contractors	156.0	1,181	963	13,537	10,041	69,787	48,262	25,040
Single-family houses	101.0	438	383	3,736	3,066	21,890	15,070	7,297
Other residential buildings	4.8	56	46	646	485	4,515	2,203	1,145
Operative builders	23.8	174	110	2,026	1,053	22,918	10,627	5,229
Industrial buildings and warehouses	8.3	202	171	2,853	2,247	13,063	7,545	4,258
Nonresidential buildings, n.e.c.	18.5	312	254	4,275	3,190	27,400	12,816	7,112
Heavy construction contractors [3]	31.3	917	757	14,267	10,988	50,728	40,272	26,573
Highway and street construction	11.7	268	233	3,596	2,927	15,621	12,546	7,641
Water, sewer, and utility lines	10.2	198	173	2,837	2,347	9,553	8,371	5,523
Heavy construction, n.e.c.	8.3	413	318	7,298	5,274	23,283	17,527	12,447
Special trade contractors [3]	287.7	2,136	1,827	26,762	21,934	81,108	74,929	46,502
Plumbing, heating, air-conditioning	56.4	459	369	6,414	5,025	21,431	19,136	10,681
Painting, paperhanging, decorating	27.4	133	121	1,361	1,191	3,205	3,051	2,362
Electrical work	36.8	357	297	5,483	4,497	14,482	13,919	8,748
Masonry and other stonework	24.8	152	143	1,493	1,350	3,805	3,678	2,417
Plastering, drywall, insulation	16.7	180	158	2,262	1,901	6,266	5,819	3,630
Carpentering	24.4	125	115	1,202	1,061	3,647	3,328	2,083
Roofing and sheet metal work	20.6	172	146	1,968	1,555	6,321	5,939	3,420
Concrete work	17.0	118	107	1,210	1,043	4,152	3,862	2,228
Excavating and foundation work	16.5	104	92	1,208	1,021	4,370	3,930	2,994
Special trade contractors n.e.c.	20.6	128	108	1,384	1,086	4,608	4,129	2,693
Subdividers and developers, n.e.c.	5.1	39	18	414	150	3,043	1,053	748

[1] Construction receipts less payments for construction work subcontracted to others, not shown separately. [2] Total receipts less (*a*) payments for materials, components, and supplies, (*b*) payments for construction work subcontracted to others, not shown separately. [3] Includes other industries each with less than $2.5 billion in total receipts, not shown separately.

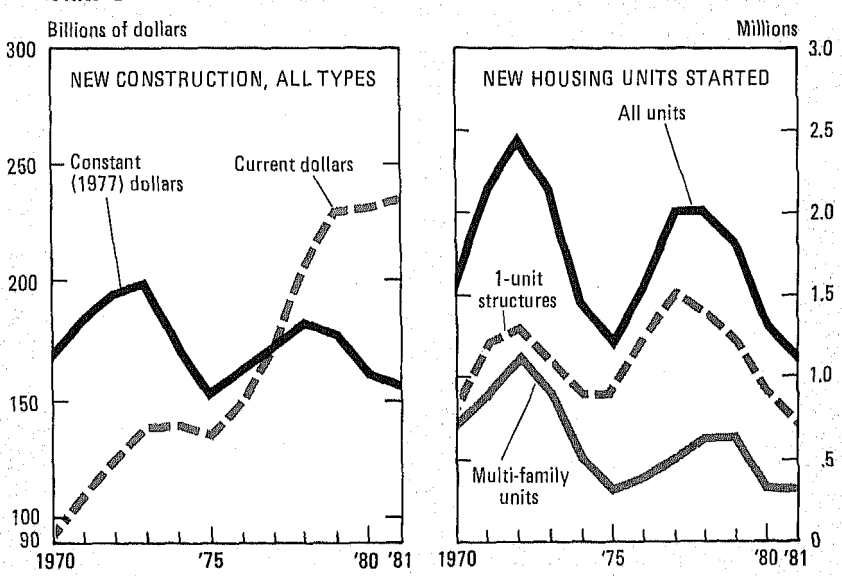
Source: U.S. Bureau of the Census, *Census of Construction Industries, 1972* and *1977,* series CC.

Figure 28.1
Existing and New Private One-Family Houses Sold and Median Sales Price: 1971 to 1981



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1343 and 1345.

Figure 28.2
New Construction—Value of Total Construction and Housing Units Started: 1970 to 1981



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1332, 1333, and 1340.

No. 1330. Price, Wage Scale, and Cost Indexes for Construction: 1970 to 1981

[1977=100, **except as indicated.** Excludes Alaska and Hawaii, except as noted. Indexes of certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970,* series N 118-137, for construction cost indexes on a 1947-49 base]

ITEM	1970	1973	1974	1975	1976	1978	1979	1980	1981
Price index for new one-family houses sold [1]	55.3	67.5	73.8	81.7	88.7	114.5	130.8	145.2	157.4
Union hourly wage scales, building trades [2]	84.1	105.0	113.2	122.9	130.9	146.5	156.6	169.1	(NA)
Construction cost indexes:									
Dept. of Commerce composite [3]	56.8	69.6	81.8	89.3	92.4	113.0	128.8	143.2	152.5
Federal Highway Admin.: Highways [4]	58.0	70.8	96.3	96.7	93.4	119.4	142.6	163.0	156.7
Environmental Protection Agency:									
Sewers	51.2	68.2	78.8	88.5	94.1	109.5	123.2	133.6	142.2
Sewage treatment plant	51.6	65.6	78.0	89.8	94.3	109.5	120.4	131.3	142.5
Federal Energy Regulatory Commission: Pipeline	54	64	78	93	98	112	121	133	145
American Appraisal Co.: Building construction [5]	57	76	80	86	94	109	118	125	132
Turner Construction Co.: Building construction [6]	62	78	91	95	97	106	118	131	144
E. H. Boeckh, building cost index: [7]									
Small residential structures	56.5	73.5	79.4	84.7	91.7	109.0	119.0	128.9	136.0
Apartments, hotels, and office buildings	57.5	71.3	77.9	85.6	92.4	106.5	114.7	125.1	137.4
Commercial and factory buildings	55.6	69.8	77.3	85.3	92.6	107.5	117.1	127.7	140.1
Engineering News-Record: [8] Building construction	54.1	73.7	78.0	84.6	92.3	108.4	117.8	125.9	135.8
General construction	53.8	73.5	78.4	85.8	93.1	107.7	116.5	125.6	137.1
Handy-Whitman public utility: [9] Building	53	69	84	93	95	109	122	135	142
Electric light and power [10]	52	63	75	86	94	106	116	127	139

NA Not available. [1] Includes value of site. [2] 1972=100. Based on minimum wage rates agreed upon through collective bargaining; excludes overtime. As of first work day in July. Includes Honolulu, Hawaii, beginning in 1976. Source: U.S. Bureau of Labor Statistics, *Union Wages and Benefits: Building Trades,* annual. [3] Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes used for different types of construction. [4] Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). [5] 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. [6] 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. [7] 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. [8] 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. [9] 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 costs. [10] As derived by U.S. Bureau of the Census. Covers steam production plants only; excludes hydraulic plants.

Source: Except as noted, U.S. Bureau of the Census. In U.S. Department of Commerce, Bureau of Industrial Economics, *Construction Review.*

No. 1331. Construction Materials—Producer Price Indexes: 1970 to 1981

[1967=100. For discussion of producer price index, see text, p. 451. 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. See also, *Historical Statistics, Colonial Times to 1970,* series N 140-155]

COMMODITY	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
All materials	**112.5**	**126.6**	**138.5**	**160.9**	**174.0**	**187.7**	**204.9**	**228.3**	**251.4**	**266.4**	**283.0**
Softwood lumber: Douglas fir	108.7	161.1	209.6	213.7	212.0	250.7	291.4	339.7	383.9	353.0	311.8
Southern pine	114.7	151.5	187.9	184.5	175.3	217.4	262.5	304.6	324.2	297.4	291.6
Hardwood lumber	114.6	126.2	169.0	189.5	160.3	176.0	200.3	235.8	260.0	252.0	255.2
Millwork	116.0	128.4	144.2	157.1	160.4	176.9	193.7	235.4	254.3	260.4	273.4
Plywood	108.4	130.7	155.2	161.1	161.2	187.0	212.2	235.6	250.5	246.5	245.7
Building paper and board	101.0	106.4	112.8	123.5	127.1	138.8	157.0	187.4	182.4	206.2	231.7
Prepared paint	112.4	118.0	122.2	145.7	166.9	174.4	182.4	192.3	204.4	235.3	249.8
Finished steel products:											
Structural shapes	115.3	134.6	140.7	179.0	216.3	227.1	241.2	272.0	300.4	329.9	368.1
Reinforcing bars	110.3	114.7	124.1	201.5	199.2	182.5	185.8	208.4	261.1	274.8	275.5
Black pipe, carbon	113.3	132.5	137.8	178.7	204.6	219.1	247.9	279.8	301.8	323.6	380.4
Wire nails, 8d common	114.8	133.5	140.4	207.1	241.4	243.6	261.3	273.5	298.5	331.9	356.9
Nonferrous metal products	124.7	116.9	135.0	187.1	171.6	181.6	195.4	207.8	261.7	305.0	285.8
Building wire	123.2	92.9	108.2	169.7	125.8	118.4	126.7	125.5	167.7	209.4	163.7
Plumbing fixtures	111.2	119.7	125.8	149.1	162.3	174.1	186.6	199.1	217.1	246.7	267.5
Heating equipment	110.6	118.2	120.4	135.0	150.7	158.0	165.5	174.4	187.1	206.5	224.2
Metal doors, sash, trim	113.0	120.5	124.5	147.3	162.5	171.3	188.7	207.6	229.6	255.2	278.8
Concrete ingredients	112.6	126.9	131.2	148.7	172.3	186.7	199.0	217.7	244.0	274.0	296.3
Concrete products	112.2	125.6	131.7	151.7	170.5	180.1	191.8	214.0	244.1	273.9	291.2
Structural clay products	109.9	117.3	123.3	135.2	151.2	163.5	179.8	197.2	217.9	231.5	249.8
Gypsum products	99.7	114.7	120.9	137.6	144.0	154.4	183.5	229.1	252.3	256.3	256.2
Asphalt roofing	102.7	131.2	135.5	196.0	225.9	238.3	253.0	292.0	325.3	396.8	407.5
Insulation materials	123.2	136.9	137.4	156.5	196.2	212.6	235.9	250.7	256.3	287.9	(NA)

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes,* monthly and annual.

No. 1332. Value of New Construction Put in Place: 1970 to 1981

[**In millions of dollars, except percent.** 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 methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	**95,204**	**138,428**	**139,221**	**135,941**	**151,084**	**173,829**	**205,561**	**230,413**	**230,749**	**238,201**
Average annual percent change [1]	5.2	13.3	.6	−2.4	11.1	15.1	18.3	12.1	.1	3.2
Private	**67,114**	**105,927**	**100,886**	**95,057**	**111,961**	**135,655**	**159,665**	**181,621**	**175,699**	**185,222**
Percent of total	70.5	76.5	72.5	69.9	74.1	78.0	77.7	78.8	76.1	77.8
Residential buildings (incl. farm)	31,864	59,726	50,376	46,472	60,520	80,956	93,424	99,030	87,261	86,566
New housing units	24,272	50,086	40,644	34,408	47,277	65,749	75,808	78,587	63,139	62,664
Structures with—										
1 unit	14,754	30,648	26,293	27,423	40,049	55,271	62,385	60,790	45,662	44,401
2 or more units	9,518	19,438	14,351	6,986	7,228	10,478	13,422	17,798	17,476	18,263
Additions, alterations	6,234	7,274	8,045	10,925	12,308	14,209	16,349	18,236	21,125	20,025
Nonhousekeeping	1,358	2,366	1,687	1,139	935	998	1,267	2,206	2,997	3,876
Nonresidential buildings	21,412	27,583	29,637	26,407	26,091	28,695	36,293	47,298	52,434	60,818
Industrial	6,537	6,243	7,902	8,018	7,183	7,712	10,994	14,950	13,837	17,030
Office	9,753	5,984	6,118	4,973	4,763	5,269	6,574	9,461	13,318	17,473
Other commercial		9,467	9,826	7,833	7,993	9,514	11,991	15,463	16,627	16,775
Hospital and institutional	2,529	3,152	3,201	3,209	3,396	3,290	3,347	3,530	4,046	4,907
Religious	929	814	918	867	956	1,046	1,248	1,548	1,637	1,665
Educational	864	836	655	567	660	660	729	806	1,175	1,171
Other nonresidential	800	1,086	1,017	939	1,140	1,203	1,410	1,540	1,794	1,798
Public utilities	11,017	15,181	16,624	17,379	20,301	20,272	23,455	28,253	29,480	31,231
Telephone, telegraph	2,968	3,965	4,279	3,683	3,777	4,345	5,418	6,343	6,733	7,074
Other public utilities	8,049	11,215	12,345	13,696	16,524	15,926	18,037	21,910	22,747	24,156
Electric light, power	5,807	8,777	9,246	9,888	11,777	12,432	14,384	17,460	17,647	18,000
Gas	1,654	1,708	1,739	1,350	1,280	1,560	1,929	2,650	3,035	4,080
Railroads	304	422	575	514	580	737	1,190	1,189	1,256	1,334
Petroleum pipelines	284	308	785	1,944	2,887	1,197	534	591	809	742
Farm (nonresidential)	1,875	2,525	3,249	3,731	3,971	4,431	5,209	5,588	5,274	5,341
All other private	946	912	1,000	1,068	1,077	1,301	1,283	1,452	1,250	1,266
Public	**28,090**	**32,501**	**38,334**	**40,884**	**39,123**	**38,174**	**45,896**	**48,792**	**55,050**	**52,979**
Percent of total	29.5	23.5	27.5	30.1	25.9	22.0	22.3	21.2	23.9	22.2
Buildings	10,656	12,994	14,990	15,474	13,759	12,799	15,241	15,558	16,517	17,792
Educational	5,619	6,647	7,310	7,760	6,342	5,459	6,264	6,903	8,050	6,737
Hospital	838	1,001	1,238	1,745	1,870	1,733	1,822	1,648	1,785	2,083
Industrial	498	606	766	918	905	1,070	1,184	1,112	1,441	1,655
Housing, redevelopment	1,106	941	1,006	754	720	908	1,053	1,211	1,648	1,722
Other public buildings	2,594	3,799	4,670	4,296	3,922	3,629	4,919	4,684	5,593	5,595
Highways and streets	9,982	10,505	12,065	10,854	9,743	9,380	10,706	11,997	13,807	13,304
Conservation, development	1,907	2,311	2,741	3,257	3,742	3,862	4,457	4,587	5,090	5,225
Military facilities	717	1,167	1,185	1,389	1,630	1,429	1,502	1,647	1,880	1,964
Other public construction	4,827	5,524	7,352	9,911	10,248	10,704	13,989	15,002	15,755	14,693
Sewer systems	1,543	1,954	2,681	4,801	5,341	5,374	6,765	7,298	7,171	5,935
Water supply facilities	1,093	1,067	1,381	1,765	1,631	1,810	2,661	2,490	3,266	3,004
Miscellaneous	2,192	2,503	3,290	3,345	3,276	3,520	4,563	5,215	5,318	5,754
Public ownership:										
State and local government	24,798	27,648	33,042	34,566	32,106	30,855	37,497	40,227	45,372	42,935
Buildings	9,753	11,665	13,487	13,580	11,631	10,501	12,764	13,215	15,699	14,641
Highways and streets	9,728	10,236	11,808	10,547	9,404	8,984	10,285	11,468	13,314	12,848
Conservation, development	540	356	495	618	903	774	597	673	821	896
Other	4,777	5,391	7,252	9,821	10,167	10,595	13,851	14,872	15,538	14,550
Federal government	3,293	4,853	5,293	6,318	7,017	7,320	8,398	8,564	9,678	10,043
Conservation, development	1,367	1,955	2,246	2,638	2,839	3,088	3,860	3,915	4,270	4,329
Buildings	903	1,329	1,504	1,694	2,126	2,298	2,477	2,343	2,818	3,151
Military facilities	717	1,167	1,185	1,389	1,630	1,429	1,502	1,647	1,880	1,964
Misc. (incl. highways and streets)	305	401	357	397	420	505	559	659	709	599

[1] Change from prior year shown; for 1970, change from 1965. Minus sign (−) denotes decrease. For explanation of average annual percent change, see Guide to Tabular Presentation.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

No. 1333. Value in Constant (1977) Dollars of New Construction Put in Place: 1970 to 1981

[In millions of dollars, except percent. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-80S]

ITEM	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
New construction	**167,618**	**198,850**	**170,289**	**152,198**	**163,457**	**173,395**	**181,987**	**178,951**	**161,094**	**156,167**
Private	**118,405**	**152,480**	**126,032**	**108,556**	**122,083**	**135,299**	**141,171**	**141,354**	**123,532**	**121,269**
Percent of total	70.6	76.7	74.0	71.3	74.7	78.0	77.6	79.0	76.7	77.7
Residential buildings [1]	57,581	87,033	66,393	56,074	67,737	80,689	81,226	75,958	60,925	55,914
New housing units	43,873	72,984	53,596	41,506	52,884	65,472	65,891	60,268	44,088	40,498
Structures with—										
1 unit	26,656	44,632	34,593	33,051	44,797	55,016	54,223	46,630	31,863	28,696
2 or more units	17,217	28,352	19,003	8,455	8,087	10,456	11,668	13,638	12,225	11,802
Additions, alterations	11,252	10,597	10,563	13,190	13,805	14,218	14,231	14,003	14,744	12,918
Nonhousekeeping	2,456	3,451	2,233	1,378	1,049	1,000	1,104	1,687	2,093	2,498
Nonresidential buildings [2]	35,692	37,510	33,379	28,011	27,642	28,640	32,224	36,064	35,447	39,363
Industrial	10,895	8,473	8,878	8,506	7,612	7,698	9,734	11,425	9,361	11,020
Office	16,255	8,144	6,904	5,273	5,046	5,263	5,838	7,205	8,996	11,307
Other commercial		12,873	11,061	8,310	8,468	9,486	10,651	11,766	11,243	10,860
Hospital, institutional	4,217	4,294	3,616	3,404	3,597	3,290	2,991	2,702	2,734	3,176
Religious	1,550	1,107	1,034	920	1,013	1,044	1,107	1,180	1,106	1,078
Educational	1,442	1,140	741	601	699	659	649	614	793	758
Other nonresidential	1,334	1,479	1,145	996	1,207	1,199	1,255	1,172	1,214	1,164
Public utilities	20,328	23,169	21,420	19,376	21,365	20,249	21,927	23,943	22,748	21,698
Telephone, telegraph	5,050	5,639	5,283	4,181	3,954	4,340	5,136	5,436	5,200	4,595
Other public utilities	15,278	17,530	16,138	15,195	17,412	15,909	16,792	18,508	17,549	17,103
Electric light, power [3]	11,146	13,764	12,177	11,143	12,553	12,414	13,539	14,913	13,830	12,913
Gas	3,065	2,670	2,277	1,448	1,305	1,558	1,721	2,189	2,266	2,797
Railroads	541	614	671	547	609	734	1,060	917	849	882
Petroleum pipelines	526	482	1,013	2,057	2,945	1,203	472	489	604	511
Farm (nonresidential)	3,126	3,438	3,663	3,959	4,207	4,425	4,640	4,288	3,563	3,456
All other private	1,878	1,330	1,177	1,137	1,131	1,296	1,155	1,121	849	837
Public	**49,213**	**46,370**	**44,258**	**43,642**	**41,374**	**38,097**	**40,816**	**37,597**	**37,562**	**34,898**
Percent of total	29.4	23.3	26.0	28.7	25.3	22.0	22.4	21.0	23.3	22.3
Buildings	17,922	17,798	17,101	16,530	14,630	12,788	13,550	11,895	12,542	11,517
Educational	9,367	9,061	8,262	8,235	6,724	5,453	5,569	5,273	5,433	4,362
Hospital	1,399	1,362	1,397	1,852	1,981	1,734	1,630	1,261	1,205	1,349
Industrial	831	826	864	973	960	1,069	1,058	852	974	1,072
Housing, redevelopment	1,999	1,370	1,324	910	808	909	911	929	1,150	1,113
Other public buildings	4,325	5,179	5,254	4,559	4,157	3,624	4,382	3,580	3,779	3,622
Highways and streets	17,670	15,354	13,285	11,146	10,291	9,332	9,215	8,585	8,483	8,441
Conservation, development	3,406	3,367	3,439	3,603	3,914	3,855	4,104	3,821	3,821	3,614
Military facilities	1,243	1,644	1,360	1,489	1,734	1,431	1,331	1,248	1,251	1,271
Other public construction	8,972	8,206	9,073	10,874	10,805	10,690	12,616	12,047	11,485	10,056
Sewer systems	2,992	2,914	3,412	5,379	5,669	5,366	6,146	5,971	5,409	4,163
Water supply facilities	2,074	1,629	1,787	1,935	1,697	1,808	2,395	2,048	2,456	2,090
Miscellaneous	3,906	3,663	3,874	3,559	3,439	3,516	4,076	4,029	3,601	3,803

[1] Including farm. [2] Excludes building by privately owned public utilities. [3] Includes construction with Rural Electrification Administration (REA) funds.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

No. 1334. Value of Privately Owned Nonresidential Building Projects, by Construction Status, 1973 to 1981, and by Type of Project, 1981

[In billions of dollars]

CONSTRUCTION STATUS	1973	1974	1975	1976	1977	1978	1979	1980	1981				
									Total	Industrial	Office building	Other commercial	Other [1]
Value of projects—													
Started	28.4	27.7	20.1	23.8	29.3	38.7	49.0	48.3	58.5	14.8	20.5	14.3	9.0
Completed	24.6	26.9	28.0	25.9	27.7	31.7	40.1	48.4	47.0	11.6	12.3	15.0	8.1
Under construction at year end	42.8	46.1	41.9	41.9	44.6	55.2	68.3	73.5	82.0	26.9	28.0	12.6	14.5

[1] Privately owned religious, educational, hospital and institutional, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

No. 1335. Construction Contracts—Value of Construction and Floor Space of Buildings, by Class of Construction: 1970 to 1981

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 78-100]

Year	Total	Residential buildings	Nonresidential buildings: Total	Commercial [1]	Manufacturing	Educational and science	Hospital	Public buildings	Religious	Social and recreational [2]	Nonbuilding construction
VALUE (bil. dol.)											
1970	68.3	24.8	24.6	9.1	3.7	5.3	2.8	1.0	.6	2.1	19.0
1971	80.2	34.7	25.5	9.6	2.6	5.6	3.2	1.5	.6	2.4	19.9
1972	91.2	45.4	27.1	11.5	3.0	4.8	3.5	1.5	.6	2.2	18.7
1973	99.3	45.7	31.4	12.8	4.8	5.1	3.3	2.0	.7	2.7	22.1
1974	93.7	33.6	33.2	11.8	5.6	6.3	3.8	2.1	.8	2.8	27.0
1975	92.7	31.3	31.6	9.2	6.8	5.9	3.7	2.1	.8	3.1	29.8
1976	110.1	44.2	30.0	10.2	4.5	4.9	4.5	2.1	.9	3.0	35.9
1977	139.7	62.0	35.1	13.6	5.4	5.2	4.5	2.3	1.0	3.3	42.6
1978	159.9	74.9	45.0	20.6	9.2	5.7	3.8	1.5	1.2	3.0	39.9
1979	168.4	74.6	50.2	24.4	7.6	6.3	4.8	1.6	1.3	4.1	43.7
1980	148.4	63.7	52.5	24.8	8.4	6.8	5.3	1.6	1.2	4.4	32.2
1981	150.2	60.1	58.2	31.0	7.5	5.8	6.2	1.5	1.2	4.9	31.9
FLOOR SPACE (mil. sq. ft.)											
1970	2,938	1,781	1,157	530	212	195	75	29	27	89	(x)
1971	3,437	2,279	1,156	552	175	189	76	40	26	98	(x)
1972	4,082	2,823	1,260	647	211	157	84	38	27	96	(x)
1973	4,013	2,574	1,439	717	293	156	76	49	28	120	(x)
1974	2,938	1,657	1,282	594	246	176	75	47	27	117	(x)
1975	2,390	1,441	949	409	146	152	63	46	28	105	(x)
1976	2,819	1,867	952	440	152	118	71	42	31	99	(x)
1977	3,536	2,440	1,096	564	175	112	66	43	32	105	(x)
1978	4,101	2,815	1,286	758	219	104	53	22	35	96	(x)
1979	3,905	2,528	1,377	816	243	102	57	20	34	106	(x)
1980	3,092	1,892	1,200	688	216	95	54	18	28	101	(x)
1981	2,783	1,617	1,166	722	185	74	60	15	26	85	(x)

X Not applicable. [1] Includes nonindustrial warehouses. [2] Includes miscellaneous.

No. 1336. Construction Contracts—Value, by States: 1975 to 1981

[**In millions of dollars.** See headnote, table 1335. Represents value of construction in States in which work was actually done]

State	1975	1979	1980	1981: Total (incl. nonbldg.)	1981: Residential	1981: Nonresidential
Total	**92,659**	**168,446**	**148,393**	**150,189**	**60,063**	**58,250**
Ala	3,084	2,543	1,918	1,774	847	577
Alaska	4,826	626	706	1,084	262	382
Ariz	1,704	3,553	3,137	3,111	1,680	975
Ark	1,301	1,728	1,324	1,217	621	300
Calif	8,663	18,159	17,688	17,185	7,401	7,014
Colo	1,380	3,197	2,791	4,383	1,479	1,884
Conn	804	1,564	1,440	1,815	655	912
Del	228	323	305	496	127	278
D.C	542	580	510	927	194	672
Fla	3,607	12,176	12,847	12,299	6,860	3,732
Ga	1,825	3,673	3,939	3,841	1,755	1,202
Hawaii	979	1,006	1,216	920	454	324
Idaho	399	675	635	653	221	175
Ill	3,907	7,009	5,313	4,849	1,597	2,274
Ind	2,211	3,442	2,775	2,376	887	1,028
Iowa	1,252	2,404	1,540	1,258	487	388
Kans	1,324	1,828	1,887	1,280	602	396
Ky	1,444	3,033	2,185	3,422	923	883
La	1,847	3,542	3,270	3,775	1,321	1,508
Maine	398	485	538	424	209	111
Md	1,886	2,592	3,062	2,554	1,073	1,033
Mass	1,415	2,638	2,712	3,161	1,025	1,605
Mich	3,187	5,257	4,174	3,301	1,152	1,327
Minn	1,667	3,299	2,746	2,666	1,193	922
Miss	1,030	3,895	1,561	1,343	556	307
Mo	1,645	3,065	2,613	2,550	891	1,168
Mont	393	569	395	2,033	171	94
Nebr	747	1,043	830	771	279	266
Nev	479	1,193	1,167	1,201	670	410
N.H	313	549	477	545	249	212
N.J	1,950	3,613	3,790	3,473	1,282	1,604
N. Mex	660	1,060	1,371	1,355	353	379
N.Y	3,955	5,405	5,860	6,461	1,888	2,874
N.C	2,240	5,852	3,471	3,351	1,745	1,149
N. Dak	865	601	456	513	192	183
Ohio	3,924	6,233	5,221	4,819	1,583	2,258
Okla	1,166	2,895	2,300	2,844	1,155	1,293
Oreg	1,036	2,495	1,926	2,047	693	593
Pa	3,009	4,626	5,246	4,769	1,571	1,941
R.I	244	397	322	380	149	152
S.C	2,143	4,827	2,522	2,114	979	742
S. Dak	275	551	421	351	126	103
Tenn	1,678	4,886	2,789	2,565	956	1,056
Tex	6,372	13,104	13,611	16,127	6,567	7,165
Utah	735	1,440	1,116	1,097	524	442
Vt	144	311	258	246	133	65
Va	2,932	4,044	3,451	3,445	1,750	1,268
Wash	2,019	5,696	4,795	3,639	1,335	1,345
W. Va	926	1,226	855	685	225	229
Wis	1,667	2,945	2,269	2,120	826	832
Wyo	229	595	644	578	193	220

Source of tables 1335 and 1336: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N.Y. Figures reported currently in *Dodge Construction Potentials*.

No. 1337. Private Construction Authorized by Building Permits: 1972 to 1981

[In billions of dollars. "14,000 and 16,000 place" series are based on U.S. total of approximately 14,000 and 16,000 places identified in 1972 and 1978, respectively, with local building permit systems]

TYPE OF CONSTRUCTION	VALUE (14,000 places)							VALUE (16,000 places)			
	1972	1973	1974	1975	1976	1977	1978	1978	1979	1980	1981
Total	**59.4**	**61.8**	**50.8**	**47.3**	**63.1**	**82.9**	**96.6**	**101.6**	**107.4**	**102.0**	**103.6**
New housing units	35.9	33.7	23.5	23.9	35.5	50.0	55.4	58.9	56.3	47.2	41.9
In structures with—											
1 unit	21.4	20.7	16.8	19.8	29.0	40.0	43.2	46.3	42.6	33.1	28.7
2-4 units	1.9	1.7	1.0	1.1	1.8	2.6	3.0	3.1	3.3	3.3	3.2
5 units or more	12.5	11.3	5.7	3.0	4.7	7.4	9.3	9.6	10.4	10.8	10.0
New nonhousekeeping residential buildings	1.4	1.7	.9	.7	.8	1.0	1.3	1.3	1.6	1.5	1.9
New nonresidential buildings	17.3	20.9	20.5	16.2	19.2	23.7	30.8	32.2	38.3	34.8	39.3
Industrial buildings	2.9	4.5	4.5	3.0	3.9	5.5	7.4	7.8	9.3	8.0	7.9
Office buildings	3.8	4.1	3.9	3.0	3.1	4.3	6.6	6.8	9.1	9.9	14.6
Stores and other mercantile	4.2	4.8	4.3	3.4	4.3	5.7	7.3	7.6	9.0	6.7	6.2
Hospitals and other institutional	1.9	1.9	2.0	2.0	2.4	2.0	2.1	2.1	2.3	1.6	1.7
All other nonresidential	4.6	5.6	5.8	4.8	5.4	6.1	7.4	7.9	8.7	8.7	6.9
Additions and alterations	4.9	5.6	6.0	6.6	7.7	8.2	9.1	9.2	11.2	18.5	20.5

Source: U.S. Bureau of the Census. In U.S. Department of Commerce, Bureau of Industrial Economics, *Construction Review.*

No. 1338. New Privately Owned Housing Units Authorized by States: 1979 to 1981

[Based on about 16,000 places in U.S. having building permit systems]

STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)		
	1979	1980	1981	1979	1980	1981
U.S.	**1,551.8**	**1,190.6**	**985.5**	**56,331**	**47,156**	**41,910**
Ala	17.5	15.9	9.9	437	388	282
Alaska	2.7	2.2	4.5	148	155	340
Ariz	53.8	36.7	33.4	1,493	1,244	1,202
Ark	8.5	8.2	4.6	289	270	162
Calif	211.5	144.4	104.2	9,727	7,788	6,350
Colo	42.8	30.1	29.4	1,589	1,154	1,351
Conn	14.8	10.1	9.3	536	412	399
Del	3.0	2.9	2.3	97	90	81
D.C.	1.7	2.7	1.0	59	82	42
Fla	175.7	174.2	146.2	5,858	6,471	5,807
Ga	40.6	34.8	30.0	1,237	1,166	1,018
Hawaii	11.0	10.3	6.3	542	640	426
Idaho	9.0	5.8	3.4	300	219	154
Ill	45.8	25.2	16.4	1,852	1,087	775
Ind	26.8	20.9	13.9	1,077	768	541
Iowa	13.3	8.7	5.6	466	312	221
Kans	13.3	10.0	8.2	520	435	362
Ky	13.1	10.2	7.6	437	351	269
La	23.6	20.5	19.6	782	682	674
Maine	4.3	3.4	2.5	138	113	93
Md	26.7	20.0	17.0	925	811	727
Mass	21.4	16.5	16.7	712	634	712
Mich	49.2	29.0	18.8	1,900	1,164	817
Minn	29.3	21.3	17.3	1,227	974	840
Miss	8.9	9.4	5.5	242	255	168
Mo	19.4	13.6	9.9	657	459	361
Mont	3.1	2.3	1.9	90	71	68
Nebr	8.7	6.7	3.8	275	208	138
Nev	19.0	11.8	10.3	700	458	371
N.H	6.8	5.3	4.4	241	198	189
N.J	34.6	22.3	20.7	1,251	985	1,005
N. Mex	13.1	8.7	8.0	463	330	324
N.Y	33.8	24.5	26.2	1,068	926	1,049
N.C	41.4	35.5	34.1	1,267	1,176	1,155
N. Dak	4.8	3.1	2.2	185	115	83
Ohio	48.0	31.2	21.8	1,917	1,283	960
Okla	18.8	17.7	15.0	761	810	775
Oreg	28.3	19.3	12.9	1,058	828	588
Pa	42.8	30.0	24.3	1,481	1,118	956
R.I	5.3	2.9	3.1	151	90	98
S.C	26.8	22.3	18.9	823	747	704
S. Dak	3.9	3.1	1.5	120	97	50
Tenn	23.3	19.4	11.7	729	611	398
Texas	150.0	127.5	135.8	4,981	4,851	5,252
Utah	16.6	10.5	8.7	630	389	439
Vt	3.2	2.9	2.6	104	98	92
Va	44.5	37.3	29.7	1,582	1,322	1,102
Wash	51.6	33.0	24.4	1,923	1,373	1,160
W. Va	3.8	3.3	2.4	120	108	77
Wis	26.5	18.2	14.2	980	690	551
Wyo	5.2	3.8	4.1	188	149	152

Source: U.S. Bureau of the Census, *Construction Reports,* series C40, annual.

No. 1339. New Housing Units Started: 1960 to 1982

[Minus sign (–) denotes decrease. See also *Historical Statistics, Colonial Times to 1970,* series N 156–159]

YEAR	Total (1,000)	Percent change	Privately owned (1,000)		Publicly owned (1,000)	YEAR AND MONTH	Total (1,000)	Percent change	Privately owned (1,000)		Publicly owned (1,000)
			Total	1-unit structures					Total	1-unit structures	
1960	1,296	[1] –16.6	1,252	995	44	1975	1,171	–13.4	1,160	892	11
1961	1,365	5.3	1,313	974	52	1976	1,548	32.2	1,538	1,162	10
1962	1,492	9.3	1,463	991	30	1977	2,002	29.8	1,987	1,451	15
1963	1,635	9.6	1,603	1,012	32	1978	2,036	1.7	2,020	1,433	16
1964	1,561	–4.5	1,529	970	32	1979	1,760	–13.6	1,745	1,194	15
1965	1,510	–3.3	1,473	964	37	1980	1,313	–25.4	1,292	852	20
1966	1,196	–20.8	1,165	779	31	1981	1,100	–16.2	1,084	705	16
1967	1,322	10.5	1,292	844	30	1982: Jan.	(NA)	(NA)	[2] 885	[2] 592	(NA)
						Feb.	(NA)	(NA)	[2] 945	[2] 568	(NA)
1968	1,545	16.9	1,508	899	38	Mar.	(NA)	(NA)	[2] 931	[2] 621	(NA)
1969	1,500	–2.9	1,467	811	33	Apr.	(NA)	(NA)	[2] 882	[2] 566	(NA)
1970	1,469	–2.1	1,434	813	35	May	(NA)	(NA)	[2] 1,066	[2] 631	(NA)
1971	2,085	41.9	2,052	1,151	32	June	(NA)	(NA)	[2] 908	[2] 621	(NA)
1972	2,379	14.1	2,357	1,309	22	July	(NA)	(NA)	[2] 1,193	[2] 628	(NA)
1973	2,057	–13.5	2,045	1,132	12	Aug.[3]	(NA)	(NA)	[2] 1,002	[2] 622	(NA)
1974	1,353	–34.4	1,338	888	15	Sept.[3]	(NA)	(NA)	[2] 1,146	[2] 663	(NA)

NA Not available. [1] Change from 1959. [2] Seasonally adjusted annual rate. [3] Preliminary.

Source: U.S. Bureau of the Census, *Construction Reports,* series C20.

No. 1340. New Housing Units Started—Selected Characteristics: 1970 to 1980

[**In thousands.** For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970,* series N 156–163 and 170]

CHARACTERISTIC	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total housing units started	1,469	2,085	2,379	2,057	1,353	1,171	1,548	2,002	2,036	1,760	1,313	1,100
Publicly owned units	35	32	22	12	15	11	10	15	16	15	20	16
Privately owned units [1]	1,434	2,052	2,357	2,045	1,338	1,160	1,538	1,987	2,020	1,745	1,292	1,084
With FHA aid [2]	421	528	371	163	95	98	144	178	178	178	177	119
With VA aid [2]	61	94	104	86	73	77	100	131	127	122	95	75
1 Unit structures	813	1,151	1,309	1,132	888	892	1,162	1,451	1,433	1,194	852	705
2–4 unit structures	85	120	141	118	68	64	86	122	125	122	110	91
5 or more unit structures	536	781	906	795	382	204	289	414	462	429	331	288
Northeast	218	264	330	277	183	149	169	202	200	178	125	117
North Central	294	434	443	440	317	294	400	465	451	349	218	165
South	612	869	1,057	899	553	442	569	783	824	748	643	562
West	311	486	527	429	285	275	400	538	545	471	306	240
Inside SMSA's [3]	1,018	1,502	1,720	1,495	923	760	1,044	1,377	1,432	1,241	914	760
Outside SMSA's [3]	416	550	636	550	415	400	494	610	588	505	379	324
Condominium units [4]	(NA)	(NA)	(NA)	241	176	65	94	118	155	199	185	181
Single-family units	(NA)	(NA)	(NA)	69	46	20	30	41	42	43	35	36
Multifamily units	(NA)	(NA)	(NA)	172	130	45	64	77	113	156	150	145
Mobile home [5] shipments to dealers	401	497	576	567	329	213	246	277	276	277	222	241

NA Not available. [1] For 1970–1976, characteristics such as type of structure, region, and inside/outside SMSA's include data for publicly owned units. [2] Source: U.S. Department of Housing and Urban Development, *HUD Statistical Yearbook* and unpublished data. [3] For definition of standard metropolitan statistical area (SMSA), see text, Appendix II. 1970–1975 based on 1967 definitions as amended through 1974; thereafter, on 1974 definitions as amended through 1975. [4] Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community. Includes a small number of cooperatively-owned units. [5] A mobile home 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. The homes are defined as units more than 8 feet wide or 32 feet in length.

Source: Except as noted, U.S. Bureau of the Census, *Construction Reports,* series C20. Mobile home shipments data provided by Manufactured Housing Institute, Arlington, Va., through 1977; thereafter, by the National Conference of States and Building Codes and Standards.

No. 1341. Characteristics of New Privately Owned One-Family Houses Completed: 1970 to 1981

[**Percent distribution, except as indicated.** Data beginning 1975 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported]

CHARACTERISTIC	1970	1975	1979	1980	1981
Total houses (1,000)	793	875	1,301	957	819
Financing	**100**	**100**	**100**	**100**	**100**
Mortgage	84	82	84	81	80
FHA-insured	30	9	11	16	17
VA-guaranteed	7	8	7	8	7
Conventional		58	63	55	52
Farmers Home Administration	47	7	3	3	4
Cash or equivalent	16	18	15	18	21
Floor area	**100**	**100**	**100**	**100**	**100**
Under 1,200 sq. ft	36	25	19	21	24
1,200–1,599 sq. ft	28	30	28	29	29
1,600–1,999 sq. ft	16	34	23	22	20
2,000–2,399 sq. ft	21		15	13	12
2,400 sq. ft. and over		11	15	15	15
Average (sq. ft.)	1,500	1,645	1,760	1,740	1,720
Median (sq. ft.)	1,385	1,535	1,645	1,595	1,550
Number of stories	**100**	**100**	**100**	**100**	**100**
1	74	65	59	60	61
2 or more	17	23	31	31	32
Split level	10	12	11	8	8
Bedrooms	**100**	**100**	**100**	**100**	**100**
2 or less	13	14	14	17	21
3	63	65	64	63	60
4 or more	24	21	23	20	20
Bathrooms	**100**	**100**	**100**	**100**	**100**
1 or less	32	24	16	18	20
1½	20	17	11	10	10
2	32	40	48	48	46
2½ or more	16	20	26	25	24
Foundation	**100**	**100**	**100**	**100**	**100**
Full or partial basement	37	45	42	36	33
Slab	36	35	39	45	47
Crawl space	27	20	19	19	20
Heating fuel	**100**	**100**	**100**	**100**	**100**
Electricity	28	49	51	50	50
Gas	62	40	39	41	41
Oil	8	9	7	3	2
Other	1	2	3	5	7
Central air-conditioning	**100**	**100**	**100**	**100**	**100**
With	34	46	60	63	65
Without	66	54	40	37	35
Parking facilities	**100**	**100**	**100**	**100**	**100**
Garage	58	67	73	69	67
Carport	17	9	7	7	8
No garage or carport	25	24	20	24	25

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing* (a joint publication).

No. 1342. New Privately Owned One-Family Houses Sold, by Region, Type of Financing, and Sales Price: 1970 to 1981

[**In thousands.** Based on a national probability sample of monthly interviews with builders or owners of 1-family houses for which building permits have been issued or, for nonpermit areas, on which construction has started. For details, see source. For composition of regions, see fig. I, inside front cover]

YEAR AND SALES-PRICE GROUP	NUMBER SOLD					FINANCING TYPE			
	Total	Northeast	North Central	South	West	Conventional	FHA and VA	Farmers Home Administration	Cash
1970	485	61	100	203	121	[1]213	244	([1])	27
1971	656	82	127	270	176	[1]314	314	([1])	28
1972	718	96	130	305	187	[1]447	242	([1])	30
1973	634	95	120	257	161	[1]465	134	([1])	34
1974	519	69	103	207	139	[1]378	112	([1])	28
1975	549	71	106	222	150	363	122	43	22
1976	646	72	128	247	199	458	134	23	31
1977	819	86	162	317	255	592	166	24	38
1978	817	78	145	331	262	575	174	26	43
1979	709	67	112	304	225	469	186	18	36
1980	545	50	81	267	145	302	196	14	32
1981	**436**	**46**	**60**	**219**	**112**	**244**	**142**	**14**	**36**
Under $50,000	88	8	16	54	11	28	43	12	6
$50,000 to $59,999	70	5	8	41	16	28	37	(S)	5
$60,000 to $69,999	69	7	10	34	18	38	26	(S)	5
$70,000 to $79,999	51	6	6	24	15	28	18	(S)	4
$80,000 to $99,999	63	10	7	28	19	44	14	(S)	6
$100,000 to $119,999	31	3	4	14	9	25	(S)	(S)	(S)
$120,000 and over	65	8	10	24	24	53	(S)	(S)	8

S Estimate does not meet publication standards. [1] Houses financed by Farmers Home Administration included under conventional financing.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual, and *New One-Family Houses Sold and For Sale*, monthly.

No. 1343. Median Sales Price of New Privately Owned One-Family Houses Sold, by Region: 1965 to 1981

[**In dollars.** For definition of median, see Guide to Tabular Presentation]

YEAR	U.S.	North-east	North Cen-tral	South	West	YEAR	U.S.	North-east	North Cen-tral	South	West
1965	20,000	21,500	21,600	17,500	21,600	1974	35,900	40,100	36,100	34,500	35,800
1967	22,700	25,400	25,100	19,400	24,100	1975	39,300	44,000	39,600	37,300	40,600
1968	24,700	27,700	27,400	21,500	25,100	1976	44,200	47,300	44,800	40,500	47,200
1969	25,600	31,600	27,600	22,800	25,300	1977	48,800	51,600	51,500	44,100	53,500
1970	23,400	30,300	24,400	20,300	24,000	1978	55,700	58,100	59,200	50,300	61,300
1971	25,200	30,600	27,200	22,500	25,500	1979	62,900	65,500	63,900	57,300	68,600
1972	27,600	31,400	29,300	25,800	27,500	1980	64,600	69,500	63,400	59,600	72,300
1973	32,500	37,100	32,900	30,900	32,400	1981 [1]	68,900	76,000	65,900	64,400	77,800

[1] 1982, U.S. total: 1st qtr., $66,400, 2d qtr., $70,400.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual, and *New One-Family Houses Sold and For Sale*, monthly.

No. 1344. Price Index—New One-Family Houses Sold, by Region: 1965 to 1981

[**1977 = 100.** Based on fixed proportions of ten characteristics of new houses sold in 1977. For composition of regions, see fig. I, inside front cover]

YEAR	U.S.	North-east	North Cen-tral	South	West	YEAR	U.S.	North-east	North Cen-tral	South	West
1965	44.4	43.5	45.5	48.1	41.0	1974	73.8	82.9	74.8	77.4	67.8
1966	46.2	46.4	48.1	50.4	42.3	1975	81.7	89.8	82.5	85.1	76.2
1967	47.5	48.1	50.0	51.2	42.7	1976	88.7	93.6	89.9	91.1	84.6
1968	50.0	52.9	53.3	53.4	43.7	1977	100.0	100.0	100.0	100.0	100.0
1969	53.8	57.5	58.2	56.9	47.7	1978	114.5	111.1	114.3	112.2	118.5
1970	55.3	61.5	58.2	58.7	48.8	1979	130.8	126.1	127.9	128.5	136.5
1971	58.3	65.6	60.4	63.3	50.3	1980	145.2	138.5	135.4	144.3	154.2
1972	62.1	70.4	64.2	67.2	53.5	1981 [1]	157.4	149.7	147.2	158.4	164.8
1973	67.5	76.1	69.2	71.7	60.1						

[1] 1982, U.S. total: 1st qtr., 162.9, 2d qtr., 163.8

Source: U.S. Bureau of the Census, Construction Reports, series C27, quarterly.

No. 1345. Existing One-Family Houses Sold and Price, by Region: 1970 to 1981

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. I, inside front cover]

REGION	Unit	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Houses sold, U.S	1,000	**1,612**	**2,018**	**2,252**	**2,334**	**2,272**	**2,452**	**3,002**	**3,547**	**3,863**	**3,701**	**2,881**	**2,351**
Northeast	1,000	251	311	361	367	354	377	458	480	494	504	384	336
North Central	1,000	501	583	630	674	645	685	843	1,110	1,132	1,050	797	626
South	1,000	568	735	788	847	839	899	1,110	1,254	1,495	1,427	1,154	969
West	1,000	292	389	473	446	434	491	591	703	741	720	547	420
Median sales price, U.S	**$1,000**	**23.0**	**24.8**	**26.7**	**28.9**	**32.0**	**35.3**	**38.1**	**42.9**	**48.7**	**55.7**	**62.2**	**66.4**
Northeast	$1,000	25.2	27.1	29.8	32.8	35.8	39.3	41.8	44.4	47.9	53.6	60.8	63.7
North Central	$1,000	20.1	22.1	23.9	25.3	27.7	30.1	32.9	36.7	42.2	47.8	51.9	54.3
South	$1,000	22.2	24.3	26.4	29.0	32.3	34.8	36.5	39.8	45.1	51.3	58.3	64.4
West	$1,000	24.3	26.5	28.4	31.0	34.8	39.6	46.1	57.3	66.7	77.4	89.3	96.2

Source: National Association of REALTORS®, Washington, D.C., *Existing Home Sales*, monthly. (Copyright.)

No. 1346. New Mobile Homes Placed for Residential Use and Average Sales Price, by Region: 1975 to 1981

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Based on a probability sample and subject to sampling variability; see source. For composition of regions, see fig. 1, inside front cover]

REGION	UNITS (1,000)							AVERAGE SALES PRICE ($1,000)						
	1975	1976	1977	1978	1979	1980	1981	1975	1976	1977	1978	1979	1980	1981
U.S	**229.3**	**249.6**	**257.5**	**279.9**	**279.9**	**233.7**	**229.2**	**10.6**	**12.3**	**14.2**	**15.9**	**17.6**	**19.8**	**19.9**
Northeast	14.7	16.8	16.7	17.4	16.9	12.3	12.0	10.5	11.6	12.9	14.3	15.8	18.5	19.0
North Central	48.5	51.5	50.7	49.5	47.3	32.3	30.1	10.7	11.6	13.5	15.1	16.1	18.6	18.9
South	110.8	114.8	112.5	135.3	145.2	140.3	143.5	9.0	10.6	12.1	13.7	15.6	18.2	18.4
West	55.2	66.5	77.7	77.7	70.5	48.7	43.6	13.6	16.0	18.1	20.6	23.1	25.4	25.6

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

No. 1347. Gross Housing Product—Summary: 1960 to 1981

[**In billions of dollars.** For definition of current and constant dollars, see text, p. 417]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
CURRENT DOLLARS												
Total value of housing output [1]	46.7	63.3	90.3	119.3	132.6	144.5	160.5	179.8	202.5	227.5	256.9	285.1
Percent of GNP [2]	9.2	9.2	9.1	9.0	9.2	9.3	9.3	9.4	9.4	9.4	9.8	9.7
Nonfarm housing	44.6	60.8	87.3	115.4	127.9	139.1	154.5	172.5	194.3	217.8	245.5	272.4
Owner-occupied	31.3	42.7	61.3	81.7	91.1	99.5	111.1	124.7	141.2	159.9	181.5	201.7
Tenant-occupied	13.3	18.2	26.0	33.7	36.8	39.5	43.4	47.8	53.1	57.9	64.0	70.7
Farm housing	2.1	2.5	3.0	3.9	4.7	5.4	6.0	7.3	8.2	9.8	11.4	12.7
Less: Intermediate goods and services consumed	7.9	9.1	12.4	17.8	19.9	22.4	25.9	28.2	33.0	37.3	40.1	46.1
Equals: Gross housing product	38.7	54.2	77.9	101.5	112.7	122.1	134.6	151.5	169.5	190.3	216.8	239.0
CONSTANT (1972) DOLLARS												
Total value of housing output [1]	62.0	78.6	98.1	113.9	119.9	123.8	130.1	136.5	143.5	149.6	154.6	157.6
Nonfarm housing	57.9	74.8	94.5	110.5	116.6	120.6	127.1	133.5	140.7	147.0	152.2	155.5
Owner-occupied	40.6	52.5	66.4	78.2	83.1	86.3	91.4	96.8	102.5	108.2	112.8	115.4
Tenant-occupied	17.2	22.3	28.1	32.3	33.5	34.3	35.7	36.8	38.2	38.8	39.4	40.1
Farm housing	4.1	3.9	3.7	3.3	3.3	3.2	3.1	3.0	2.8	2.6	2.4	2.1
Less: Intermediate goods and services consumed	10.6	11.3	13.5	16.9	17.9	19.0	20.9	20.9	22.8	23.8	23.3	24.6
Equals: Gross housing product	51.4	67.3	84.6	97.0	102.0	104.8	109.3	115.6	120.8	125.8	131.3	132.9

[1] Equals personal consumption expenditures (see text, pages 415–417) for housing less expenditures for transient hotels, motels, clubs, schools, and other group housing. [2] GNP=Gross national product.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929–76,* and *Survey of Current Business,* July 1982.

No. 1348. Residential Capital—Stocks and Average Age: 1960 to 1981

[**As of Dec. 31.** Data based on fixed residential capital formation components of the gross national product. For nonresidential business capital, see table 903. See also *Historical Statistics, Colonial Times to 1970,* series F 528–534 and N 200–223]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
	CAPITAL IN CURRENT DOLLARS (bil. dol.)											
Gross stocks [1]	664	796	1,163	1,652	1,862	2,017	2,274	2,627	3,135	3,494	3,851	4,211
Private nonfarm: 1–4 units	552	651	931	1,290	1,446	1,567	1,771	2,052	2,455	2,735	3,014	3,294
5 or more units	46	69	122	206	239	259	292	336	402	452	502	554
Farm (1–4 units)	41	41	52	64	71	75	82	91	106	114	123	131
Private nonhousekeeping	5	7	10	12	14	14	16	18	20	22	23	25
Mobile homes	4	6	15	27	34	37	42	49	57	66	73	78
Public: Federal, State and local	12	17	26	40	46	49	54	62	73	81	90	98
Net stocks [1 2]	418	514	754	1,287	1,224	1,319	1,484	1,716	2,048	2,281	2,505	2,728
Private nonfarm: 1–4 units	357	426	605	841	940	1,016	1,149	1,336	1,601	1,784	1,961	2,136
5 or more units	26	46	87	155	180	194	216	248	295	330	365	400
Farm (1–4 units)	18	18	22	27	29	31	34	38	44	47	51	54
Private nonhousekeeping	2	4	7	8	8	9	9	10	11	12	12	13
Mobile homes	3	4	10	19	23	24	27	30	34	38	41	43
Public: Federal, State and local	10	13	20	30	34	36	39	43	51	55	60	65
	CAPITAL IN CONSTANT (1972) DOLLARS (bil. dol.)											
Gross stocks [1]	941	1,102	1,262	1,409	1,446	1,474	1,511	1,556	1,602	1,644	1,679	1,712
Private nonfarm: 1–4 units	786	905	1,012	1,099	1,121	1,144	1,174	1,211	1,247	1,279	1,306	1,330
5 or more units	65	96	132	175	185	189	193	198	204	211	218	224
Public: Federal, State and local	17	23	28	34	35	35	35	36	36	37	37	38
Farm (1–4 units)	59	58	56	55	55	54	54	54	54	53	53	53
Private nonhousekeeping	7	9	11	11	11	11	10	10	10	10	10	10
Mobile homes	3	6	14	24	27	28	30	32	34	36	37	39
Net stocks [1 2]	593	711	818	928	950	964	986	1,016	1,046	1,072	1,091	1,107
Private nonfarm: 1–4 units	508	591	657	717	729	742	762	788	814	835	850	862
5 or more units	37	64	95	132	140	142	143	146	150	154	158	161
Farm (1–4 units)	26	25	24	23	23	22	22	22	22	22	22	22
Private nonhousekeeping	3	6	7	7	6	6	6	6	6	6	5	5
Mobile homes	2	4	10	17	18	19	19	20	20	21	21	21
Public: Federal, State and local	14	18	21	25	26	26	25	25	25	25	25	25
	AVERAGE AGE [3] (years)											
Gross stocks	28.0	26.5	25.9	24.9	24.8	24.9	24.9	24.8	24.6	24.6	24.6	24.8
Private nonfarm: 1–4 units	27.5	26.6	26.6	26.2	26.3	26.4	26.3	26.1	25.9	25.9	26.0	26.1
5 or more units	27.9	21.4	18.3	15.7	15.6	16.0	16.4	16.7	16.9	17.1	17.3	17.6
Farm (1–4 units)	45.0	45.5	45.9	46.2	46.0	46.0	46.0	45.8	45.6	45.4	45.3	45.2
Private nonhousekeeping	21.8	15.9	14.6	15.7	16.1	16.5	17.0	17.5	18.1	18.7	19.3	19.9
Mobile homes	4.7	5.0	4.7	4.6	4.9	5.4	5.8	6.2	6.5	6.7	7.1	7.4
Federal	15.0	15.8	19.6	17.2	17.4	18.8	20.2	21.2	21.7	22.7	23.5	24.4
State and local	9.8	11.7	13.2	14.4	15.0	15.7	16.5	17.2	17.8	18.4	18.9	19.3

[1] Includes other, not shown separately. [2] Based on straight-line depreciation. [3] Constant-dollar stocks.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925–79,* and *Survey of Current Business,* August 1982.

No. 1349. Housing Units—Summary of Characteristics: 1960 to 1980

[**In thousands, except as indicated.** Refers to 243 standard metropolitan statistical areas (SMSA's) as defined in 1970 census reports. For definition of SMSA, see text, Appendix II. For information on methodology, see Appendix III. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	1960	1970				1980			
		Total	Inside SMSA's		Outside SMSA's	Total	Inside SMSA's		Outside SMSA's
			Total	In central cities			Total	In central cities	
All housing units	**58,326**	**68,672**	**46,289**	**22,608**	**22,383**	**88,207**	**58,477**	**25,511**	**29,730**
Northeast	14,798	16,642	13,036	6,212	3,606	19,272	14,524	6,293	4,746
North Central	16,798	18,971	12,206	5,978	6,765	22,800	14,495	6,224	8,305
South	17,173	21,030	11,651	6,166	9,379	29,057	16,156	7,519	12,901
West	9,558	12,029	9,395	4,252	2,634	17,078	13,302	5,475	3,776
All year-round units	56,584	67,699	46,083	22,584	21,616	86,024	57,990	25,452	28,035
Occupied units	53,024	63,445	43,859	21,395	19,586	80,072	54,550	23,832	25,522
Owner occupied	32,797	39,886	26,090	10,300	13,796	52,516	33,586	11,804	18,930
Percent of all occupied	61.9	62.9	59.5	48.1	70.4	65.6	61.6	49.5	74.2
Renter occupied	20,227	23,560	17,769	11,095	5,790	27,556	20,964	12,027	6,592
Vacant year-round	3,560	4,254	2,224	1,189	2,030	5,953	3,440	1,621	2,512
For sale only	522	501	298	130	203	755	485	184	270
Homeowner vacancy rate	1.6	1.2	1.1	1.2	1.5	1.4	1.4	1.5	1.4
For rent	1,453	1,666	1,142	745	524	1,497	1,088	697	409
Rental vacancy rate	6.7	6.8	6.0	6.3	8.3	5.1	4.9	5.0	5.7
Other vacant	1,084	2,087	784	314	1,303	3,701	1,868	800	1,833
Vacant, seasonal and migratory	1,742	973	206	24	766	2,183	488	58	1,695
Cooperatives and condominiums:									
Owner occupied	(NA)	(NA)	(NA)	(NA)	(NA)	1,403	1,313	558	90
Cooperatives	(NA)	(NA)	(NA)	(NA)	(NA)	313	296	219	17
Condominiums	(NA)	(NA)	(NA)	(NA)	(NA)	1,090	1,017	339	73
Vacant for sale only	(NA)	(NA)	(NA)	(NA)	(NA)	137	127	43	10
Units in structure [1]—									
1-unit	43,758	46,791	29,033	11,430	17,758	58,255	36,083	12,724	22,172
Percent of total units	77.3	69.1	63.0	50.6	82.2	67.7	62.2	50.0	79.1
2-4 units	7,552	9,007	7,184	4,753	1,823	10,816	8,553	5,224	2,263
5 or more units	6,238	9,829	8,934	6,225	895	13,183	11,833	7,283	1,351
Mobile home or trailer	767	2,073	933	176	1,140	3,770	1,522	222	2,248
Year structure built: [1]									
April 1970 or later	(X)	(X)	(X)	(X)	(X)	19,735	12,691	3,833	7,044
1960-March 1970	(X)	16,956	11,849	4,172	5,106	17,624	12,291	4,382	5,333
1950-1959	16,046	14,499	10,708	4,304	3,791	14,043	10,208	3,975	3,835
1940-1949	8,640	8,788	6,147	14,108	2,639	7,945	5,443	2,640	2,502
1939 or earlier	33,632	27,458	17,378		10,080	26,677	17,357	10,622	9,320
Percent built prior to 1940	57.7	40.6	37.7	(NA)	46.6	31.0	29.9	41.7	33.2
Units with [1]—									
1-3 rooms	11,400	11,028	8,305	5,461	2,725	12,779	9,723	5,978	3,057
4 rooms	12,435	14,113	9,230	4,904	4,883	16,726	11,159	5,308	5,567
5 rooms	14,323	16,998	11,233	5,286	5,765	20,481	13,067	5,594	7,415
6 rooms	11,141	13,609	9,271	4,076	4,338	17,412	11,499	4,726	5,913
7 or more rooms	9,020	11,950	8,044	2,856	3,906	18,625	12,542	3,847	6,084
Median number of rooms	4.9	5.0	5.0	4.7	5.1	5.1	5.1	4.8	5.2
Persons per unit (median):									
Owner occupied	3.1	3.0	3.1	2.8	2.7	2.6	2.7	2.4	2.5
Renter occupied	2.6	2.3	2.2	2.1	2.6	2.0	2.0	1.9	2.1
Units lacking some or all plumbing facilities [1]	7,899	4,398	1,494	716	2,904	2,359	810	364	1,549
Percent	13.2	6.5	3.2	3.2	13.4	2.7	1.4	1.4	5.5
Percent of units with—									
Telephone [2]	78.5	87.0	89.1	86.5	82.2	91.7	92.5	89.9	89.9
Air conditioning [1]	12.4	36.7	39.7	38.2	30.0	57.3	58.5	54.9	54.5
Central system [1]	1.9	10.7	12.3	11.0	7.5	26.2	27.8	22.8	22.9
One or more automobiles [2]	76.4	82.5	81.4	71.6	85.0	(NA)	(NA)	(NA)	(NA)
Public sewer [1]	(NA)	70.2	82.1	96.2	47.9	73.4	84.8	97.6	49.7
Public or private company water [1]	(NA)	81.7	91.0	99.0	61.7	83.8	92.0	99.2	66.9
Basement [1]	54.0	50.9	55.5	58.3	41.1	(NA)	(NA)	(NA)	(NA)
Second home owner [2]	(NA)	4.6	4.5	4.2	4.7	(NA)	(NA)	(NA)	(NA)

NA Not available. X Not applicable. [1] For 1960, all housing units, based on a complete count, but tabulated on a 20-percent sample basis. For 1970 and 1980, all year-round units. For 1980, air conditioning based on occupied housing units. [2] Occupied housing units.

Source: U.S. Bureau of the Census, *U.S. Census of Housing: 1960*, vol. I, and *Current Housing Reports*, series H-150-80, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions*.

No. 1350. Housing Units, by Geographic Regions: 1960 to 1980

[In thousands, except percent. See headnote, table 1349. For composition of regions, see fig. 1, inside front cover]

Year and location	Total					Percent distribution				
	U.S.	Northeast	North Central	South	West	U.S.	Northeast	North Central	South	West
1960, total	**58,326**	**14,798**	**16,798**	**17,173**	**9,558**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Inside SMSA's	38,633	11,834	10,514	9,052	7,233	66.2	80.0	62.6	52.7	75.7
Central cities	20,440	6,005	5,695	5,208	3,531	35.0	40.6	33.9	30.3	36.9
Not in central cities	18,193	5,829	4,818	3,844	3,701	31.2	39.4	28.7	22.4	38.7
Outside SMSA's	19,693	2,964	6,284	8,121	2,325	33.8	20.0	37.4	47.3	24.3
1970, total	**68,672**	**16,642**	**18,971**	**21,030**	**12,029**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Inside SMSA's	46,289	13,036	12,206	11,651	9,395	67.4	78.3	64.3	55.4	78.1
Central cities	22,608	6,212	5,978	6,166	4,252	32.9	37.3	31.5	29.3	35.3
Not in central cities	23,681	6,824	6,228	5,486	5,143	34.5	41.0	32.8	26.1	42.8
Outside SMSA's	22,383	3,606	6,765	9,379	2,634	32.6	21.7	35.7	44.6	21.9
1980, total	**88,207**	**19,272**	**22,800**	**29,057**	**17,078**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Inside SMSA's	58,477	14,524	14,495	16,156	13,302	66.3	75.4	63.6	55.6	77.9
Central cities	25,511	6,293	6,224	7,519	5,475	28.9	32.7	27.3	25.9	32.1
Not in central cities	32,967	8,231	8,271	8,637	7,827	37.4	42.7	36.3	29.7	45.8
Outside SMSA's	29,730	4,748	8,305	12,901	3,776	33.7	24.6	36.4	44.4	22.1

No. 1351. Year-Round Housing Units—Tenure and Race: 1960 to 1980

[In thousands. See headnote, table 1349]

Item	Total	Owner occupied			Renter occupied			Vacant year-round	
		Total	Black	White and other	Total	Black	White and other	Total	For rent
1960, total	**56,551**	**32,795**	**1,811**	**30,984**	**20,226**	**2,979**	**17,246**	**3,531**	**1,592**
Lacking some or all plumbing	8,992	3,470	644	2,826	4,315	1,363	2,952	1,208	469
Inside SMSA's	37,939	21,311	1,186	20,125	14,556	2,182	12,374	2,072	1,088
In central cities	20,147	9,141	852	8,289	9,942	1,862	8,080	1,064	720
Not in central cities	17,792	12,170	334	11,836	4,614	320	4,295	1,008	368
Outside SMSA's	18,612	11,484	625	10,858	5,670	797	4,872	1,459	504
1970, total	**67,699**	**39,886**	**2,568**	**37,319**	**23,560**	**3,607**	**19,953**	**4,254**	**1,666**
Lacking some or all plumbing	4,672	1,809	386	1,423	1,963	656	1,308	900	236
Inside SMSA's	46,083	26,090	1,825	24,265	17,769	2,913	14,856	2,224	1,142
In central cities	22,584	10,300	1,335	8,965	11,095	2,498	8,597	1,189	745
Not in central cities	23,499	15,790	490	15,300	6,674	416	6,259	1,035	397
Outside SMSA's	21,616	13,796	742	13,054	5,790	693	5,097	2,030	524
1980, total	**86,024**	**52,516**	**3,776**	**48,740**	**27,556**	**4,827**	**22,729**	**5,953**	**1,497**
Lacking some or all plumbing	2,359	765	184	581	988	343	645	607	108
Inside SMSA's	57,990	33,586	2,724	30,862	20,964	4,045	16,919	3,440	1,088
In central cities	25,452	11,804	1,866	9,938	12,027	3,208	8,819	1,621	637
Not in central cities	32,537	21,782	858	20,924	8,936	837	8,099	1,819	450
Outside SMSA's	28,035	18,930	1,052	17,878	6,592	782	5,810	2,512	409

Source of tables 1350 and 1351: U.S. Bureau of the Census, *Census of Housing, 1970*, vol. VI and *Current Housing Reports*, series H-150, Annual Housing Survey: 1980, part A, *General Housing Characteristics for the United States and Regions*.

No. 1352. Occupied Housing Units—Percent of Home Ownership, by Race of Household Head, Inside and Outside SMSA's, by Region: 1960 to 1980

[See headnote, table 1349. For composition of regions, see fig. 1 inside front cover]

Year and region	Total		Inside SMSA's						Outside SMSA's	
			Total		In central cities		Not in central cities			
	White	Black [1]	White	Black [1]	White	Black [1]	White	Black [1]	White	Black [1]
1960: United States	64.4	38.4	62.1	35.7	51.1	31.7	73.4	51.6	69.0	44.8
Northeast	58.1	27.0	55.5	26.4	37.5	22.3	72.6	46.7	70.0	42.0
North Central	69.1	35.8	67.3	34.2	56.0	31.4	79.2	56.5	72.0	54.3
South	66.4	41.6	65.9	39.7	60.5	35.9	72.3	51.3	67.1	43.6
West	62.5	44.6	61.6	42.5	55.0	38.4	67.7	54.0	65.5	54.6
1970: United States	65.4	41.6	62.3	38.5	51.3	34.8	71.1	54.1	72.1	51.7
Northeast	60.4	28.6	57.4	28.1	38.8	24.2	71.7	47.3	72.1	42.6
North Central	70.2	42.0	67.8	41.3	56.5	38.9	76.5	58.8	74.4	56.3
South	68.2	46.9	65.3	43.4	59.5	39.1	70.7	57.3	71.9	52.0
West	60.2	40.1	58.6	40.0	52.0	36.6	63.6	49.6	66.1	42.1
1980: United States	68.7	43.9	65.1	40.2	53.7	36.8	72.4	50.6	75.7	57.4
Northeast	64.0	32.7	60.9	32.4	41.7	28.8	72.7	45.7	74.5	36.3
North Central	73.0	42.7	71.1	42.1	60.7	38.6	77.1	54.2	76.1	51.5
South	72.2	50.0	67.3	44.5	57.9	39.8	73.9	56.4	78.2	59.5
West	62.6	37.0	60.9	36.7	54.6	36.4	65.0	37.4	68.6	43.5

[1] For 1960, represents Black and other races.

Source: U.S. Bureau of the Census, *Census of Population and Housing: 1970*, PHC(2), *General Demographic Trends for Metropolitan Areas, 1960 to 1970*; and *Current Housing Reports*, series H-150-80, Annual Housing Survey: 1980, part A.

No. 1353. Selected Characteristics of Occupied Units: 1960 to 1980

[Percent distribution. As of April]

Characteristic	Occupied, 1960 [1]			Occupied, 1970 [1]			Occupied, 1980 [1]		
	Total	Owner	Renter	Total	Owner	Renter	Total	Owner	Renter
Rooms in unit:									
1-2 rooms	6	23	14	4	17	10	5	1	12
3-4 rooms	32		51	28		51	29	15	53
5 rooms	26	29	19	26	28	21	23	25	19
6 rooms	20	26	10	22	27	11	20	26	10
7 rooms or more	16	22	6	20	28	7	23	33	6
Units in structure:									
1 unit	76	94	48	74	94	38	70	92	32
2-4 units	13	6	25	14	6	29	12	5	24
5-9 units	11		9	4		11	18	3	44
10 units or more			18	8		22			
With all plumbing facilities	84	89	77	95	97	91	97	99	96
Year structure built:									
1975 or later	(X)	(X)	(X)	(X)	(X)	(X)	13	14	10
1970-1974	(X)	(X)	(X)	(X)	(X)	(X)	13	13	14
1960-1969	(X)	(X)	(X)	24	26	19	20	20	20
1950-1959	27	34	16	19	24	12	18	19	15
1940-1949	15	16	13	14	14	13	11	10	13
1939 or earlier	58	50	71	43	36	56	25	24	28

X Not applicable. [1] As of April 1.

Source: U.S. Bureau of the Census, *Census of Housing, 1960* and *1970;* and *1980 Census of Population and Housing,* series PHC 80-S1-1.

No. 1354. Occupied Housing Units—Financial Summary: 1970 and 1980

[In thousands, except as indicated. See headnote, table 1349. For definition of median, see Guide to Tabular Presentation]

Characteristic	1970					1980				
	Total	Inside SMSA's			Outside SMSA's	Total	Inside SMSA's			Outside SMSA's
		Total	In central cities	Not in central cities			Total	In central cities	Not in central cities	
Occupied units, total	**63,445**	**43,859**	**21,395**	**22,464**	**19,586**	**80,072**	**54,550**	**23,832**	**30,718**	**25,522**
Median income:										
Owner occupied (dol.)	9,700	11,000	10,100	11,600	7,500	19,800	22,200	19,500	23,500	16,100
Renter occupied (dol.)	6,300	6,700	6,100	7,700	5,300	10,500	10,900	9,800	12,400	9,100
Specified owner occupied [1]	31,726	22,059	8,543	13,516	9,667	41,945	28,246	9,844	18,402	13,700
With value of—										
Less than $20,000	19,556	11,963	5,608	6,356	7,594	3,397	1,517	930	587	1,880
$20,000-$24,999	4,680	3,740	1,214	2,526	940	1,900	941	543	398	960
$25,000-$34,999	4,444	3,709	1,044	2,665	736	5,320	2,878	1,428	1,451	2,442
$35,000-$49,999	2,050	1,760	444	1,316	289	9,711	6,100	2,308	3,793	3,611
$50,000-$74,999	997	887	234	653	110	21,616	16,808	4,634	12,173	4,808
$75,000 and over										
Median—										
Value (dol.)	17,100	19,000	16,400	20,800	12,200	51,300	57,700	48,000	62,700	41,100
Real estate taxes [2] (dol.)	(NA)	(NA)	(NA)	(NA)	(NA)	460	582	456	657	261
Units monthly costs [3]—										
With mortgages (dol.)	(NA)	(NA)	(NA)	(NA)	(NA)	367	387	342	412	321
Owned clear (dol.)	(NA)	(NA)	(NA)	(NA)	(NA)	131	144	132	154	113
Specified renter occupied [4]	22,334	17,433	11,033	6,401	4,900	26,874	20,810	12,022	8,788	6,065
With gross rent of—										
Less than $80	5,466	3,499	2,619	879	1,968	1,259	864	666	198	396
$80-$99	3,701	2,879	2,099	779	822	731	459	319	139	272
$100-$119	3,332	2,739	1,845	894	592	2,487	1,641	1,167	474	847
$120-$149	3,772	3,283	1,967	1,316	485					
$150-$199	3,304	2,986	1,525	1,461	318	4,118	2,884	1,990	894	1,234
$200-$299	1,194	1,110	547	563	84	9,472	7,626	4,605	3,023	1,844
$300 and over	265	254	145	108	12	7,492	6,638	2,995	3,643	855
No cash rent	1,300	685	284	400	615	1,313	696	279	417	617
Median rent	$108	$114	$107	$130	$84	241	254	234	283	198

NA Not available. [1] Includes only 1-family homes on less than 10 acres and no business on the property. [2] Taxes paid previous year. [3] Covers real estate taxes, property insurance, utilities, fuel, water, garbage and trash collection, and mortgage. [4] Excludes 1-family homes on 10 acres or more.

Source: U.S. Bureau of the Census, *Current Housing Reports,* H-150-80 Annual Housing Survey: 1980 part A, *General Housing Characteristics for the United States and Regions.*

No. 1355. Housing Units—

[As of April 1. House heating fuel based on provisional

STATE	Total housing units (1,000)	YEAR-ROUND HOUSING UNITS										
		Total (1,000)	Percent with—							Occupied housing units		
			Structure built		5 or more units in structure	Source of water by public system or private company	Public sewer	Central heating system	Air conditioning	Total (1,000)	Percent—	
			1970 to March 1980	1939 or earlier							Owner occupied units	With 1.01 or more persons per room
U.S	**86,411**	**86,769**	**25.9**	**26.1**	**17.5**	**83.8**	**74.4**	**68.8**	**54.8**	**80,390**	**64.4**	**4.5**
Ala	1,467	1,450	30.9	16.3	9.1	79.9	53.2	63.8	70.7	1,342	70.1	5.4
Alaska	163	154	52.7	4.7	22.1	70.0	68.0	80.2	.9	131	58.3	10.1
Ariz	1,111	1,066	48.6	5.6	16.3	95.2	81.2	84.8	71.1	957	68.3	7.2
Ark	899	889	32.9	17.3	7.2	74.2	57.9	60.3	71.3	816	70.5	5.2
Calif	9,279	9,220	27.2	14.7	24.0	95.6	89.5	82.9	40.1	8,630	55.9	7.4
Colo	1,194	1,169	39.1	18.0	21.4	91.9	87.2	91.4	30.7	1,061	64.5	2.8
Conn	1,159	1,144	18.1	32.0	17.5	78.6	68.3	90.8	46.5	1,094	63.9	2.6
Del	239	230	25.7	20.8	16.7	76.8	74.8	87.9	64.6	207	69.1	2.6
D.C	277	277	7.0	39.1	52.7	99.9	99.3	92.3	67.1	253	35.5	8.1
Fla	4,379	4,270	43.9	6.7	23.7	86.4	71.9	77.0	84.0	3,744	68.3	5.3
Ga	2,028	2,013	33.3	14.7	14.0	78.7	60.3	70.0	66.0	1,872	65.0	5.3
Hawaii	334	332	38.9	10.5	38.1	98.5	81.5	8.0	18.1	294	51.7	15.3
Idaho	375	360	38.4	21.9	8.8	72.6	63.7	76.8	32.1	324	72.0	4.5
Ill	4,320	4,303	19.4	34.7	22.3	89.1	84.9	92.3	66.3	4,045	62.6	4.2
Ind	2,092	2,063	22.0	32.1	10.8	72.4	65.9	88.7	58.6	1,927	71.7	3.1
Iowa	1,131	1,121	20.5	44.4	10.2	78.2	74.1	91.8	66.0	1,053	71.8	2.1
Kans	955	950	22.7	33.6	9.7	86.8	79.1	86.4	78.4	872	70.2	2.4
Ky	1,369	1,355	28.7	24.7	10.1	74.1	54.3	73.6	61.7	1,263	70.0	4.7
La	1,548	1,535	30.8	15.9	11.1	86.4	71.7	68.8	82.2	1,412	65.5	7.1
Maine	501	427	23.2	47.5	10.0	61.0	50.0	78.4	10.6	395	70.9	3.1
Md	1,571	1,549	23.6	22.4	22.4	82.8	79.6	90.8	70.1	1,461	62.0	3.1
Mass	2,208	2,140	15.4	47.3	20.5	93.6	73.9	89.5	36.9	2,033	57.5	2.6
Mich	3,590	3,448	22.1	27.6	12.5	72.5	71.4	91.2	34.3	3,195	72.7	3.1
Minn	1,613	1,529	25.2	33.3	17.3	74.3	74.8	90.6	48.7	1,445	71.7	2.3
Miss	912	904	32.5	15.6	6.0	81.7	56.5	54.4	69.9	827	71.0	8.0
Mo	1,989	1,961	23.9	29.4	11.4	82.6	72.3	83.3	70.1	1,793	69.6	3.4
Mont	328	315	30.7	30.3	9.9	70.8	63.8	78.1	19.7	284	68.6	3.8
Nebr	625	619	23.8	38.9	12.3	81.5	79.7	89.5	77.0	571	68.4	2.1
Nev	340	337	51.8	5.7	23.2	92.4	87.3	88.9	69.9	304	59.6	4.7
N.H	386	349	27.5	39.0	14.3	66.1	52.3	81.6	24.3	323	67.6	2.4
N.J	2,772	2,688	16.1	33.4	20.9	89.5	86.5	94.0	64.7	2,549	62.0	3.5
N. Mex	508	493	36.5	11.8	12.2	84.1	73.3	74.3	60.0	441	68.1	8.6
N.Y	6,868	6,699	11.9	43.3	35.8	89.3	78.7	93.2	41.1	6,340	48.6	4.9
N.C	2,275	2,223	32.0	17.3	8.5	59.5	46.8	70.0	59.6	2,043	68.4	4.5
N. Dak	259	253	30.9	34.9	14.3	76.2	72.2	90.6	40.2	228	68.7	2.7
Ohio	4,108	4,077	20.0	32.8	14.1	81.4	76.2	91.5	47.4	3,834	68.4	2.5
Okla	1,237	1,229	30.0	20.2	10.1	86.0	73.9	73.3	81.5	1,119	70.7	3.7
Oreg	1,083	1,071	34.2	20.6	15.1	81.0	68.6	77.4	18.8	992	65.1	2.9
Pa	4,596	4,509	16.4	44.8	12.2	80.1	74.5	91.4	41.4	4,220	69.9	2.4
R.I	373	363	16.1	43.0	16.4	90.5	68.4	86.4	31.6	339	58.8	2.5
S.C	1,154	1,121	34.4	15.2	8.4	72.4	53.1	67.2	68.0	1,030	70.2	6.0
S. Dak	277	269	26.6	40.7	11.2	76.0	70.5	84.5	58.1	243	69.3	3.6
Tenn	1,747	1,737	31.1	16.7	11.5	81.5	56.4	69.5	74.0	1,619	68.6	4.4
Tex	5,549	5,480	35.2	12.2	18.4	90.5	81.3	70.1	83.2	4,929	64.3	7.2
Utah	490	481	37.7	18.8	12.5	96.3	87.7	92.1	48.8	449	70.7	5.8
Vt	223	196	24.4	46.9	9.4	57.9	46.7	74.7	9.6	178	68.7	2.5
Va	2,021	1,999	30.9	17.7	16.2	73.5	65.8	79.2	64.8	1,863	65.6	3.4
Wash	1,689	1,650	32.0	21.3	17.2	86.7	67.7	87.0	14.8	1,541	65.6	2.9
W. Va	748	736	24.9	34.2	6.2	70.3	51.7	70.7	38.5	686	73.6	4.1
Wis	1,864	1,753	23.1	36.6	12.3	69.7	71.9	90.1	37.4	1,652	68.2	2.4
Wyo	188	182	40.4	22.6	10.0	81.3	78.1	86.1	19.8	166	69.2	4.2

[1] Represents housing units that do not have all three specified plumbing facilities (hot and cold piped water, a flush toilet, and a bathtub or shower) inside the unit for the exclusive use of the occupants. [2] "Specified owner-occupied" housing units include one-family houses on less than 10 acres without a commercial establishment or medical office on the property. The data exclude owner-occupied condominium housing units, mobile homes, trailers, boats, tents, or vans occupied as a usual residence, as well as owner-occupied noncondominium units in multi-family buildings. [3] Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, or similar debts on the property; real estate taxes; fire and hazard insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.).

SELECTED CHARACTERISTICS, BY STATES: 1980

data from the Early National Sample; see text, p. 2 and Appendix III]

YEAR-ROUND HOUSING UNITS												
Occupied housing units												
Percent						Median value (dollars) specified owner [2]	Median selected monthly owner costs [3] (dollars) specified owner [2]		Median gross rent [4] (dollars) specified renter [5]	Vacancy rate		STATE
Lacking complete plumbing for exclusive use [1]	Householder moved into unit 1979 to March 1980	1 or more vehicles available	House heating fuel				With a mortgage	Not mortgaged		Homeowner	Rental	
			Utility gas	Electricity	Fuel oil, kerosene, etc.							
2.2	**22.8**	**87.2**	**53.3**	**18.4**	**18.1**	**47,200**	**365**	**129**	**243**	**1.8**	**7.1**	**U.S.**
4.2	20.8	88.2	64.6	26.2	.5	33,900	295	104	188	1.6	8.3	Ala.
10.4	38.6	86.3	36.4	14.8	38.7	76,300	640	161	368	3.6	15.4	Alaska.
2.1	32.5	93.2	60.7	35.0	.2	54,800	365	109	263	2.8	11.6	Ariz.
4.2	23.1	88.9	71.9	16.9	.1	31,100	280	96	185	1.6	8.8	Ark.
1.2	28.0	89.9	81.2	15.7	.2	84,500	411	98	283	2.3	5.1	Calif.
1.3	33.0	92.7	87.1	9.6	.5	64,100	422	125	252	3.0	8.8	Colo.
1.3	18.1	89.2	23.0	11.1	63.4	65,600	434	204	261	1.2	4.7	Conn.
1.7	21.1	90.1	30.4	11.6	55.7	44,400	351	146	247	1.7	9.2	Del.
2.1	20.1	62.2	61.2	9.0	29.1	68,800	399	159	226	4.0	5.9	D.C.
1.1	26.8	88.9	22.5	61.5	10.9	45,100	337	101	256	2.4	9.8	Fla.
3.2	23.9	88.0	72.7	19.4	2.2	36,900	340	107	211	1.7	7.9	Ga.
2.2	26.8	89.6	5.8	4.5	.3	118,100	463	110	311	1.4	10.3	Hawaii.
1.4	28.8	94.7	30.9	38.6	16.8	45,600	332	102	219	2.3	11.4	Idaho.
1.7	20.6	84.1	87.1	7.1	4.7	52,800	406	152	246	1.8	6.9	Ill.
1.6	21.0	91.0	67.9	16.6	12.2	37,200	304	118	219	1.6	8.5	Ind.
1.7	20.6	91.7	79.5	8.6	10.3	40,600	348	133	225	1.6	7.3	Iowa.
1.2	24.0	92.9	89.0	7.8	.4	37,800	330	106	219	2.3	9.2	Kans.
6.5	21.2	87.3	58.7	23.0	6.0	34,200	298	103	198	1.4	8.1	Ky.
2.4	23.2	86.1	75.7	22.4	.1	43,000	313	96	214	1.5	8.1	La.
4.9	20.1	88.7	2.6	10.6	71.1	37,900	317	144	216	1.7	7.1	Maine.
1.9	20.6	86.5	48.1	13.5	35.8	58,300	413	149	266	1.5	5.5	Md.
1.5	18.2	83.5	33.5	10.3	53.8	48,400	424	225	255	1.0	5.1	Mass.
1.3	20.0	90.3	80.0	5.0	12.8	39,000	363	160	250	1.4	7.3	Mich.
2.1	21.8	90.2	66.9	8.0	22.2	53,100	375	132	236	1.5	5.8	Minn.
5.9	20.4	86.9	66.2	24.7	.2	31,400	284	98	180	1.3	8.2	Miss.
2.1	21.3	88.7	79.4	12.0	3.3	36,700	317	118	211	2.0	9.0	Mo.
2.3	27.8	92.7	68.1	15.8	5.9	46,500	347	109	200	1.9	11.0	Mont.
1.2	22.9	91.4	84.3	9.3	4.7	38,000	359	120	213	2.0	7.9	Nebr.
1.2	37.7	93.2	53.1	36.7	7.1	68,700	454	135	310	3.6	10.2	Nev.
2.5	22.0	91.1	15.0	12.8	60.5	48,000	408	189	251	1.7	6.1	N.H.
1.6	16.7	85.2	45.4	7.5	46.0	60,200	456	218	270	1.4	4.8	N.J.
3.6	29.5	92.5	86.1	7.0	.4	45,300	324	98	216	2.1	11.0	N. Mex.
2.5	17.1	67.5	39.1	4.6	53.7	45,600	430	196	249	1.2	4.1	N.Y.
4.1	20.6	89.2	22.0	28.9	40.1	36,000	319	111	205	1.5	7.8	N.C.
2.5	24.6	92.8	52.0	17.2	27.8	43,900	392	133	206	2.6	8.9	N. Dak.
1.7	20.2	89.3	73.9	13.8	9.6	44,900	347	133	224	1.5	7.7	Ohio.
1.4	26.4	92.2	80.0	15.4	.1	35,600	305	90	214	2.3	10.8	Okla.
1.4	29.8	91.1	25.4	42.0	19.2	56,900	371	125	257	2.0	7.4	Oreg.
1.8	15.8	83.4	49.9	10.4	34.3	39,100	336	141	225	1.4	6.6	Pa.
1.7	19.6	86.4	33.5	6.3	57.9	46,800	391	192	222	1.1	7.5	R.I.
4.1	20.6	87.9	38.6	31.0	23.4	35,100	312	112	206	1.6	8.9	S.C.
2.7	23.5	92.6	58.5	15.4	22.8	36,600	352	135	188	2.1	10.1	S. Dak.
3.7	22.0	88.5	33.3	48.9	3.8	35,600	299	103	203	1.7	7.9	Tenn.
1.9	29.1	92.2	72.8	25.3	.1	39,100	348	101	245	2.5	10.9	Tex.
.9	28.8	94.0	82.5	10.2	2.9	57,300	381	116	235	2.6	7.8	Utah.
2.7	21.6	89.7	11.1	9.6	61.3	42,200	336	165	226	1.5	6.2	Vt.
4.2	23.3	89.3	32.6	25.3	34.2	48,000	395	129	259	1.7	6.5	Va.
1.2	29.0	91.3	24.0	52.5	18.4	59,900	362	106	254	2.1	7.3	Wash.
5.7	18.0	86.3	61.1	18.7	10.5	38,500	290	93	195	1.3	7.2	W. Va.
1.9	20.7	89.5	65.9	6.5	25.0	48,600	381	160	234	1.3	5.0	Wis.
1.6	34.2	95.8	83.6	10.9	1.1	59,800	397	97	252	2.2	9.7	Wyo.

[4] "Gross rent" is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else) in addition to rent.
[5] "Specified renter-occupied" housing units include renter-occupied units except one-family houses on 10 or more acres.

Source: U.S. Bureau of the Census, *1980 Census of Housing*, HC80-1-A, *General Housing Characteristics; 1980 Census of Population and Housing* PHC80-3, *Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas;* and *1980 Census of Population and Housing, Supplementary Report*, series PHC 80-51-1.

No. 1356. HOUSING UNITS—CHARACTERISTICS FOR SELECTED CITIES: 1980

[As of April. Cities ranked by size of population enumerated as of April 1, 1980, except Honolulu, ranked by county population]

CITIES	Total housing units (1,000)	YEAR-ROUND HOUSING UNITS										
		Total (1,000)	Percent with—			Occupied housing units						
			Structure built		5 or more units in structure	Total (1,000)	Percent—			Median value (dollars) specified owner [1]	Median selected monthly owner costs [2] (dollars)	Median gross rent [3] (dollars) specified renter [4]
			1970 to March 1980	1939 or earlier			Owner occupied units	With 1.01 or more persons per room	Householder moved into unit 1979 to March 1980			
New York, N.Y	2,946	2,941	7.3	49.4	64.5	2,789	23.4	8.2	17.1	52,220	441	248
Chicago, Ill	1,175	1,174	5.9	51.8	41.7	1,093	38.9	8.1	21.0	47,200	371	231
Los Angeles, Calif	1,189	1,189	13.6	22.7	40.9	1,135	40.3	13.0	25.8	96,100	420	262
Philadelphia, Pa	686	685	5.5	58.4	18.0	620	61.0	4.2	15.4	23,500	269	217
Houston, Tex	678	678	36.5	8.4	39.8	603	47.8	7.7	35.6	49,100	378	276
Detroit, Mich	471	471	3.2	45.6	18.7	433	57.9	4.8	18.6	20,900	320	216
Dallas, Tex	390	290	28.1	9.8	37.6	355	48.5	6.6	34.1	43,900	338	257
San Diego, Calif	342	342	32.8	13.0	29.2	321	49.1	5.9	33.8	89,800	416	274
Phoenix, Ariz	308	307	39.7	4.8	22.4	285	64.7	5.6	32.8	54,100	357	279
Baltimore, Md	303	302	5.8	50.3	20.7	281	47.2	5.0	18.8	28,700	293	214
San Antonio, Tex	278	278	25.9	14.1	20.8	259	59.5	10.5	26.4	27,300	263	209
Honolulu, Hawaii	252	251	35.2	6.4	41.5	230	49.9	15.5	27.4	129,500	494	315
Indianapolis, Ind	283	283	19.6	25.9	22.3	260	58.9	3.3	25.5	35,100	300	226
San Francisco, Calif	317	316	6.6	57.7	43.0	299	33.7	7.3	25.8	103,900	394	285
Memphis, Tenn	244	244	20.5	13.6	22.7	230	56.3	6.6	24.5	35,200	275	198
Washington, D.C	277	277	7.0	39.1	52.7	253	35.5	8.1	20.1	66,800	399	226
San Jose, Calif	217	217	39.1	7.3	18.6	210	62.1	6.8	30.7	98,100	478	325
Milwaukee, Wis	253	253	9.7	41.7	22.9	242	47.2	3.4	24.5	45,500	359	238
Cleveland, Ohio	240	239	4.4	57.7	22.0	218	48.2	3.3	20.2	30,400	307	195
Columbus, Ohio	237	237	24.0	24.4	26.6	217	48.8	2.7	30.4	41,300	333	225
Boston, Mass	241	241	7.2	63.0	42.8	218	27.2	5.2	25.9	36,000	407	251
New Orleans, La	226	226	12.3	37.5	19.5	206	39.7	8.6	23.4	50,400	344	210
Jacksonville, Fla	214	213	28.5	11.7	19.5	197	62.6	4.4	26.9	31,700	327	240
Seattle, Wash	230	230	10.0	40.3	33.3	219	51.0	2.8	27.2	65,100	331	251
Denver, Colo	228	228	19.7	29.4	36.6	212	50.2	3.3	33.3	62,000	379	242
Nashville-Davidson, Tenn	179	179	27.4	14.2	26.0	170	56.4	3.6	26.5	43,800	307	243
St. Louis, Mo	202	202	3.7	60.6	21.2	178	45.2	6.9	19.4	26,100	283	186
Kansas City, Mo	192	192	12.8	36.5	26.3	175	57.9	3.2	23.7	34,600	301	215
El Paso, Tex	134	134	34.6	11.2	25.0	128	59.2	12.4	29.0	39,000	281	196
Atlanta, Ga	179	179	12.5	21.0	39.6	163	41.3	6.3	26.0	31,800	335	195
Pittsburgh, Pa	179	179	4.8	63.3	25.2	166	51.2	2.8	18.2	31,500	292	216
Oklahoma City, Okla	177	177	27.0	16.0	19.7	160	63.2	3.5	29.5	40,100	320	239
Cincinnati, Ohio	173	173	9.3	46.3	38.1	158	38.5	4.7	27.1	40,800	332	190
Fort Worth, Tex	156	156	19.1	16.9	17.4	144	61.1	6.1	27.9	32,200	280	231
Minneapolis, Minn	169	169	9.2	56.9	34.2	162	49.2	2.0	28.5	52,600	355	227
Portland, Oreg	168	168	11.3	46.4	26.8	159	53.3	2.5	28.1	52,900	357	245
Long Beach, Calif	160	160	10.8	23.6	36.3	152	42.9	7.4	30.9	81,900	390	263
Tulsa, Okla	156	156	28.2	14.7	20.8	145	61.2	2.5	31.4	45,400	325	246
Buffalo, N.Y	156	156	2.7	73.0	14.4	141	44.5	2.1	21.4	22,300	290	196
Toledo, Ohio	143	143	14.2	41.8	18.1	133	63.3	2.2	21.7	37,800	329	227
Miami, Fla	146	145	20.6	16.3	45.6	134	34.1	19.9	26.2	47,500	318	227
Baton Rouge, La	84	84	24.6	10.5	25.5	79	54.0	5.6	28.5	52,200	309	239
Austin, Tex	147	146	41.5	8.1	32.8	134	45.9	5.4	42.6	47,300	393	265
Oakland, Calif	150	150	7.9	41.0	32.2	142	42.9	6.7	25.2	66,600	338	231
Albuquerque, N. Mex	133	133	41.2	6.1	22.9	124	60.8	4.3	33.5	55,100	358	236
Tucson, Ariz	137	136	34.0	7.5	23.4	125	59.8	5.9	33.6	50,300	307	244
Newark, N.J	121	121	6.3	47.4	48.0	111	21.1	12.3	20.7	31,500	424	214
Charlotte, N.C	124	124	27.2	10.5	23.6	118	54.7	4.0	28.0	45,800	352	245
Omaha, Nebr	125	125	12.3	33.7	23.6	118	61.3	2.6	22.8	34,400	334	213
Louisville, Ky	126	126	7.3	41.7	21.6	117	56.3	4.3	20.7	26,900	255	182
Birmingham, Ala	115	114	14.3	27.7	24.2	107	53.3	5.5	21.4	31,300	275	187
Wichita, Kans	117	117	20.6	19.8	17.1	110	59.7	3.2	30.3	40,800	316	244
Sacramento, Calif	123	123	23.4	19.4	22.0	113	56.4	4.4	29.2	54,600	296	213
Tampa, Fla	114	114	18.8	17.3	21.1	106	61.1	5.2	25.2	30,600	276	211
St. Paul, Minn	111	111	11.2	49.5	30.8	106	55.7	2.6	23.9	51,700	362	227
Norfolk, Va	95	95	15.1	21.0	23.9	88	43.9	5.1	30.0	39,100	349	231
Virginia Beach, Va	92	91	51.2	2.5	17.4	85	64.2	2.0	33.3	58,500	454	311
Rochester, N.Y	103	103	8.0	62.7	23.0	95	46.1	2.7	27.0	25,600	340	221

[1] "Specified owner-occupied" housing units include one-family houses on less than 10 acres without a commercial establishment or medical office on the property. The data exclude owner-occupied condominium housing units, mobile homes, trailers, boats, tents, or vans occupied as a usual residence, as well as owner-occupied noncondominium units in multi-family buildings.
[2] "Specified owner with a mortgage". Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, or similar debts on the property; real estate taxes; fire and hazard insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). [3] "Gross rent" is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else) in addition to rent. [4] "Specified renter-occupied" housing units include renter-occupied units except one-family houses on 10 or more acres.

Source: U.S. Bureau of the Census, *1980 Census of Housing, Vol. 1, Chapter A, General Housing Characteristics*, series HC80-1-A, and *1980 Census of Population and Housing, Vol. 3, Summary Characteristics for Governmental Units and Standard Metropolitan Statistical Areas*, series PHC80-3.

No. 1357. Occupied Housing Units—Tenure, and Population Per Occupied Unit, by Race of Household Head and by Residence: 1920 to 1980

[**In thousands, except as indicated.** Prior to 1960, excludes Alaska and Hawaii. Tenure allocated for housing units which did not report. Minus sign (–) denotes decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245]

Year, race, and residence	Occupied units [1]					Average annual percent change [2]		Population per occupied unit [4]
	Total	Owner occupied		Renter occupied		Total occupied units	Total population [3]	
		Number	Percent	Number	Percent			
TOTAL								
1920	24,352	11,114	45.6	13,238	54.4	1.9	1.4	4.3
1930	29,905	14,280	47.8	15,624	52.2	2.1	1.5	4.1
1940	34,855	15,196	43.6	19,659	56.4	1.5	.7	3.8
1950	42,826	23,560	55.0	19,266	45.0	2.1	1.4	3.5
1960	53,024	32,797	61.9	20,227	38.1	2.2	1.7	3.4
1970	63,445	39,886	62.9	23,560	37.1	1.8	1.2	3.2
1975	72,523	46,867	64.6	25,656	35.4	2.7	1.0	(NA)
1976	74,005	47,904	64.7	26,101	35.3	2.0	1.0	(NA)
1977	75,280	48,765	64.8	26,515	35.2	1.7	1.0	(NA)
1978	77,167	50,283	65.2	26,884	34.8	2.5	1.1	(NA)
1979	78,572	51,411	65.4	27,160	34.6	1.8	1.1	(NA)
1980	80,072	52,516	65.6	27,556	34.4	1.9	1.2	(NA)
RACE								
White:								
1920	21,826	10,511	48.2	11,315	51.8	(NA)	1.5	4.3
1930	26,983	13,544	50.2	13,439	49.8	2.1	1.5	4.1
1940	31,561	14,418	45.7	17,143	54.3	1.6	.7	3.7
1950	39,044	22,241	57.0	16,803	43.0	2.2	1.3	3.3
1960	47,880	30,823	64.4	17,057	35.6	2.1	1.6	3.2
1970	56,529	36,979	65.4	19,551	34.6	1.7	1.2	3.1
1975	63,860	43,072	67.4	20,788	32.6	2.5	.8	(NA)
1976	65,114	44,024	67.6	21,090	32.4	2.0	.6	(NA)
1977	66,111	44,762	67.7	21,349	32.3	1.5	.6	(NA)
1978	67,664	46,076	68.1	21,588	31.9	2.4	.7	(NA)
1979	68,786	47,055	68.4	21,731	31.6	1.7	.7	(NA)
1980	69,922	48,028	68.7	21,894	31.3	1.7	.8	(NA)
Black and other:								
1920	2,526	603	23.9	1,923	76.1	(NA)	.6	4.3
1930	2,922	737	25.2	2,185	74.8	1.5	1.4	4.3
1940	3,293	778	23.6	2,516	76.4	1.2	.7	4.1
1950	3,783	1,319	34.9	2,464	65.1	1.4	1.6	3.9
1960	5,144	1,974	38.4	3,171	61.6	3.1	2.4	3.9
1970	6,920	2,907	42.0	4,014	58.0	3.0	2.3	3.5
1975	8,663	3,795	43.8	4,868	56.2	4.6	2.1	(NA)
1976	8,891	3,880	43.6	5,011	56.4	2.6	2.0	(NA)
1977	9,169	4,003	43.7	5,166	56.3	3.1	1.9	(NA)
1978	9,503	4,207	44.3	5,296	55.7	3.6	2.0	(NA)
1979	9,786	4,356	44.5	5,429	55.5	3.0	2.0	(NA)
1980	10,150	4,488	44.2	5,662	55.8	3.7	3.5	(NA)
RESIDENCE								
Nonfarm:								
1920	17,600	7,189	40.8	10,411	59.2	2.2	(NA)	4.2
1930	23,300	10,721	46.0	12,579	54.0	2.8	2.3	4.0
1940	27,748	11,413	41.1	16,335	58.9	1.8	.9	3.7
1950	37,105	19,802	53.4	17,304	46.6	2.9	2.4	3.3
1960 [5]	49,458	30,164	61.0	19,294	39.1	2.9	2.5	3.3
1970 [5]	60,351	37,393	62.0	22,957	38.0	2.0	1.7	3.1
1975 [5]	69,880	44,714	64.0	25,166	36.0	3.0	(NA)	(NA)
1976 [5]	71,335	45,711	64.1	25,624	35.9	2.1	(NA)	(NA)
1977 [5]	72,661	46,602	64.1	26,060	35.9	1.9	(NA)	(NA)
1978 [5]	74,847	48,322	64.6	26,525	35.4	3.0	(NA)	(NA)
Farm:								
1920 [6]	6,751	3,925	58.1	2,827	41.9	1.0	(NA)	4.7
1930	6,605	3,560	53.9	3,045	46.1	–.2	–.5	4.6
1940	7,107	3,783	53.2	3,324	46.8	.7	(Z)	4.3
1950	5,721	3,758	65.7	1,963	34.3	–2.1	–2.8	4.0
1960 [5]	3,566	2,633	73.8	933	26.2	–4.6	–3.8	3.8
1970 [6]	3,095	2,492	80.5	603	19.5	–1.4	–4.7	3.4
1975 [5]	2,644	2,154	81.5	490	18.5	–3.1	(NA)	(NA)
1976 [5]	2,670	2,193	82.1	477	17.9	1.0	(NA)	(NA)
1977 [5]	2,618	2,164	82.7	455	17.4	–2.0	(NA)	(NA)
1978 [5]	2,320	1,961	84.5	359	15.5	–11.4	(NA)	(NA)

NA Not available. Z Less than .05 percent. [1] Statistics on the number of occupied units are essentially comparable although identified by various terms—the term "family" applies to figures for 1920 and 1930; "occupied dwelling unit," 1940 and 1950; and "occupied housing unit," 1960 to 1980. For 1920, includes the small number of quasi-families; for 1930, represents private families only. [2] For 1920, change from 1910. [3] Based on total resident population; see tables 1, 2, and 28. [4] From 1950 to 1970, population in occupied housing units was determined by dividing population in housing units by number of occupied housing units. Population data exclude persons in institutions and other group quarters (see table 78). [5] Not comparable with data for earlier censuses because of a basic change in definition of farm residence. For definitions used in 1960 and 1970, see text, p. 648. [6] Includes a small proportion of urban-farm families in addition to rural-farm.

Source: U.S. Bureau of the Census, *Census of Population and Housing: 1960* and *1970;* and *Current Housing Reports*, series H-150, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions.*

No. 1358. Heating Equipment and Fuels for Occupied Units: 1950 to 1980

[In thousands, except percent]

ITEM	1950	1960	1970	1975	1979	1980	PERCENT DISTRIBUTION 1950	1960	1970	1975	1980
Occupied units, total	**42,826**	**53,024**	**63,445**	**72,523**	**78,572**	[1] **80,390**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Warm air furnace	[2] 11,508	17,378	27,515	36,999	[3] 42,198	45,051	26.9	32.8	43.4	51.0	51.9
Steam or hot water	10,071	11,990	13,211	13,792	13,679	14,616	23.5	22.6	20.8	19.0	16.8
Floor, wall, or pipeless furnace	(2)	6,088	5,552	6,580	6,225	5,103	(2)	11.5	8.8	9.1	5.8
Built-in electric units	–	664	3,236	4,625	5,956	6,999	–	1.3	5.1	6.4	8.1
Room heaters with flue	[4] 15,399	[4] 11,183	7,209	4,747	4,316	6,766	36.0	21.1	11.4	6.5	7.8
Room heaters without flue	5,268	5,218	3,558	3,330	3,050	3,075	12.3	9.8	5.6	4.6	3.5
Fireplaces, stoves, or heaters [5]	(4)	(4)	2,766	1,982	2,578	4,408	(4)	(4)	4.4	2.7	5.1
None	581	503	398	468	570	752	1.4	.9	.6	.6	.9
House heating fuel:											
Utility gas	11,387	22,851	35,014	40,933	43,322	42,876	26.6	43.1	55.2	56.4	53.3
Fuel oil, kerosene, etc.	9,686	17,158	16,473	16,299	15,708	14,587	22.6	32.4	26.0	22.5	18.1
Electricity	283	933	4,876	9,173	13,244	14,755	.7	1.8	7.7	12.6	18.4
Bottled, tank, or LP gas	787	2,686	3,807	4,146	4,134	4,417	1.8	5.1	6.0	5.7	5.5
Wood and other fuel	4,855	2,460	1,060	930	1,235	2,708	11.3	4.6	1.7	1.3	3.4
Coal or coke	14,828	6,456	1,821	573	358	508	34.6	12.2	2.9	.8	.6
None	999	478	395	468	570	538	2.3	.9	.6	.6	.7
Cooking fuel:											
Electricity	6,403	16,351	25,768	33,944	[6] 38,779	41,904	15.0	30.8	40.6	46.8	52.1
Utility gas	22,084	27,296	31,244	32,493	[6] 32,576	32,458	51.6	51.5	49.2	44.8	40.4
Bottled, tank, or LP gas	3,417	6,491	5,314	5,440	[6] 5,225	5,478	8.0	12.2	8.4	7.5	6.8
Other fuel	10,796	2,603	908	332	[6] 352	393	25.2	4.9	1.4	.5	.5
None	124	280	213	315	[6] 236	156	.3	.5	.3	.4	.2

– Represents zero. [1] For heating equipment, based on year-round housing units (86.8 million); therefore, data will not add to total. [2] "Floor, wall, or pipeless furnace" included in "Warm air furnace." [3] Includes heat pumps. [4] "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue." [5] Portable heaters. [6] 1978 data.

Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. I, No. 1; *Census of Housing, 1970*, vol. I; *Current Housing Reports*, series H-150, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions*; and *1980 Census of Population and Housing, Supplementary Report*, series PHC 80-S1-1.

No. 1359. Selected Electrical Appliances—Number and Percent of Homes With Appliances: 1960 to 1979

[As of **December 31**. Percentages based on total number of homes wired for electricity. See also table 1434]

ITEM	HOMES WITH APPLIANCES (mil.) 1960	1965	1970	1975	1978	1979	PERCENT WITH APPLIANCES 1960	1965	1970	1975	1978	1979
Number of wired homes	51.7	57.6	64.0	72.7	77.8	79.4	(X)	(X)	(X)	(X)	(X)	(X)
Air-conditioners, room	7.8	13.9	26.0	38.4	43.1	44.1	15.1	24.2	40.6	52.8	55.4	55.5
Bed coverings	12.2	20.0	31.7	41.4	48.1	51.0	23.6	34.7	49.5	57.0	61.8	64.2
Blenders	4.2	7.5	23.4	32.9	39.9	41.6	8.0	13.0	36.5	45.2	51.2	52.4
Can openers	2.5	14.2	29.1	39.7	47.3	50.5	4.8	24.7	45.5	54.6	60.7	63.6
Coffeemakers	30.2	41.3	56.7	71.0	77.7	79.3	58.3	71.7	88.6	97.7	99.8	99.9
Dishwashers	3.7	7.8	17.0	27.9	32.6	34.2	7.1	13.5	26.5	38.3	41.9	43.0
Disposers, food waste	5.4	7.8	16.3	28.2	33.4	34.1	10.5	13.6	25.5	38.8	42.9	43.0
Dryers, clothes (incl. gas)	10.1	15.2	28.6	42.0	46.9	48.8	19.6	26.4	44.6	57.7	60.3	61.5
Freezers	12.1	15.7	20.0	31.6	34.9	35.5	23.4	27.2	31.2	43.5	44.9	44.7
Frypans	22.5	28.3	36.0	45.8	53.2	54.0	43.4	49.2	56.2	63.0	68.3	68.0
Hotplates and buffet ranges	12.5	13.1	15.7	19.1	20.4	20.7	24.2	22.7	24.5	26.2	26.3	26.0
Irons, total	45.7	57.1	63.8	72.6	77.1	79.3	88.4	99.1	99.7	99.9	99.9	99.9
Steam and steam/spray	30.6	43.5	56.5	70.7	76.7	79.2	59.2	75.5	88.2	97.2	99.0	99.8
Microwave ovens	(NA)	(NA)	(NA)	2.3	5.5	6.1	(NA)	(NA)	(NA)	3.2	7.1	7.6
Mixers, food	29.0	41.9	52.8	65.6	71.8	73.7	56.0	72.8	82.4	90.2	92.2	92.8
Radios	50.3	57.3	63.9	72.6	77.8	79.3	[1] 94.3	[1] 99.5	99.8	99.9	99.9	99.9
Ranges: Free-standing	16.0	18.5	25.9	35.8	39.5	39.7	30.9	32.1	40.5	49.2	50.8	50.0
Built-in	3.3	5.9	9.6	14.0	15.4	15.4	6.4	10.3	15.0	19.3	19.8	19.4
Refrigerators	50.8	57.3	68.9	72.6	77.6	79.2	98.2	99.5	99.8	99.9	99.7	99.8
Television: Black and white	46.2	55.9	63.2	72.6	77.8	79.3	89.4	97.1	98.7	99.9	99.9	99.9
Color	(NA)	5.5	27.2	54.1	66.3	71.3	(NA)	9.5	42.5	74.4	85.2	89.8
Toasters	37.2	48.1	59.3	71.7	77.8	79.3	72.0	83.6	92.5	98.6	99.9	99.9
Vacuum cleaners	38.4	48.1	58.9	72.1	77.7	79.3	74.3	83.5	92.0	99.2	99.9	99.9
Washers	28.6	83.1	89.8	50.8	58.5	61.4	55.4	57.4	62.1	69.9	75.2	77.3

NA Not available. X Not applicable. [1] Based on 53,300,000 homes in 1960, and 58,566,000 in 1965.

Source: Gralla Publications, Inc., New York, N.Y., *Merchandising*, annual statistical issues. (Copyright.)

No. 1360. Appliances Used by Households, by Region and Family Income: 1980–1981

[**In millions, except percent.** Represents appliances possessed and generally used by the household. See headnote, table 1361]

Type of Appliance	Households using appliance		Region				1979 family income			
	Number	Percent of total	Northeast	North Central	South	West	Under $15,000	$15,000–$24,999	$25,000–$34,999	$35,000 and over
Total households	**81.6**	**100.0**	**17.7**	**21.1**	**27.0**	**16.0**	**38.1**	**21.8**	**12.4**	**9.4**
Air conditioners:										
Room	24.5	30.0	6.8	6.8	8.8	2.1	12.2	7.3	3.0	2.0
Central system	21.9	26.8	1.8	5.5	11.0	3.6	6.7	6.1	4.4	4.7
Clothes washer	61.3	75.1	13.3	16.5	20.4	11.1	23.7	18.0	10.9	8.6
Clothes dryers	50.1	61.4	9.9	14.9	16.0	9.3	16.0	15.6	10.0	8.3
Dehumidifer	7.3	8.9	2.2	3.8	1.2	.1	1.7	2.2	1.8	1.6
Dishwasher	30.4	37.3	6.2	6.8	10.0	7.4	7.0	9.5	6.9	7.1
Freezer	31.1	38.1	4.9	9.6	11.7	4.8	11.4	9.3	5.9	4.6
Humidifer	11.0	13.5	2.1	6.6	1.4	.7	3.4	3.3	2.2	2.1
Microwave oven [1]	11.7	14.3	1.3	3.6	3.8	3.0	2.1	3.5	3.0	3.0
Range:										
Electric	43.8	53.7	7.7	11.0	16.3	8.8	17.3	12.2	7.7	6.5
Gas	37.5	46.0	9.7	10.2	10.4	7.1	20.3	9.5	4.7	3.0
Television set:										
Color	67.0	82.1	14.4	17.7	21.5	13.4	27.1	19.4	11.6	8.9
Black and white	41.9	51.3	10.3	11.4	13.3	6.9	19.7	10.8	6.4	5.0

[1] Microwave is first or second most used oven.

No. 1361. Housing Units—Selected Characteristics, by Type of Primary Heating Fuel and Equipment: 1980–1981

[**In millions.** As of **winter 1980–1981.** Excludes Alaska and Hawaii. Covers year-round units only. For composition of regions, see fig. 1, inside front cover]

Item	Total occupied housing units [1]	Primary heating fuel					Primary heating equipment				
		Natural gas	Fuel oil, kerosene	Electricity	LPG [2]	Wood	Warm air furnace with ducts	Steam or hot water system	Room heaters [3]	Floor, wall, or pipeless furnace	Built in electric units
Total [4]	**81.6**	**44.6**	**13.4**	**14.3**	**3.7**	**4.7**	**41.2**	**13.5**	**6.1**	**6.7**	**5.3**
Region:											
Northeast	17.7	6.6	8.2	1.6	.2	1.0	6.0	8.9	.4	.1	1.1
North Central	21.1	15.0	1.5	2.1	1.2	1.1	14.0	2.9	1.1	.7	1.2
South	27.0	11.8	3.1	7.7	2.0	2.0	13.1	1.3	3.8	2.4	1.6
West	16.0	11.1	.5	2.9	.4	.7	8.1	.5	.7	3.6	1.3
Type:											
Single-family detached	53.0	30.1	7.9	7.7	2.3	4.3	28.5	5.7	4.4	4.6	2.8
Single-family attached	3.3	1.9	.7	.5	.1	–	1.9	.8	.2	.2	.2
2–4 unit building	9.9	6.6	1.6	1.3	.1	.1	3.4	3.1	1.1	1.0	.6
5 or more unit building	10.8	4.6	2.4	3.7	.1	–	4.0	3.9	.2	.6	1.6
Mobile home	4.6	1.4	.7	1.1	1.2	.3	3.5	–	.2	.2	.1
Year house built:											
1939 or earlier	23.3	13.3	6.1	.8	.9	1.8	8.8	6.7	3.3	1.8	.3
1940 to 1949	7.5	4.6	1.6	.5	.2	.4	2.9	1.4	.9	1.3	.3
1950 to 1959	13.7	9.1	2.5	1.1	.4	.5	7.5	1.8	1.0	1.9	.4
1960 to 1969	15.3	9.4	1.8	2.5	.8	.7	8.8	2.1	.6	1.2	1.4
1970 to 1974	10.5	4.6	.8	3.7	.8	.4	6.7	.9	.2	.3	1.6
1975 or later	11.3	3.6	.6	5.7	.5	.9	6.6	.6	.1	.2	1.4
Heating (HDD) and cooling (CDD) degree day zones: [5]											
Less than 2,000 CDD and more than 7,000 HDD	8.5	4.3	1.8	.6	.5	1.3	4.7	1.7	.3	.3	.4
5,500–7,000 HDD	20.9	13.5	3.6	2.5	.6	.5	12.3	4.6	1.0	.3	1.6
4,000–5,499 HDD	21.1	9.0	6.4	3.6	.6	1.3	9.3	6.5	.8	.9	1.9
Less than 4,000 HDD	19.0	12.1	1.2	3.1	.9	1.4	9.0	.3	1.9	4.1	1.0
More than 2,000 CDD and less than 4,000 HDD	12.1	5.7	.4	4.5	1.0	.2	6.1	.1	2.1	1.1	.5
Measured heated space of residence:											
Less than 600 sq. ft.	7.5	3.5	1.6	1.2	.5	.2	1.8	1.8	1.2	.8	.6
600–999 sq. ft.	21.1	11.2	3.1	4.6	1.3	.8	9.0	3.5	2.4	2.4	1.9
1,000–1,599 sq. ft.	24.0	13.5	3.5	4.2	1.1	1.4	12.4	3.3	1.8	2.4	1.6
1,600–1,999 sq. ft.	10.0	5.9	1.4	1.6	.3	.8	6.0	1.4	.3	.6	.4
2,000–2,399 sq. ft.	7.8	4.3	1.2	1.3	.2	.7	5.0	1.2	.1	.2	.5
2,400–2,999 sq. ft.	6.1	3.4	1.3	.7	.2	.5	3.9	1.1	.2	.2	.2
3,000 sq. ft. or more	5.2	2.8	1.1	.7	.1	.4	3.0	1.3	.1	.1	.2

– Represents zero or rounds to zero. [1] Includes types of fuel and equipment not shown separately. [2] Liquid petroleum gas. [3] With or without flue. [4] Includes other type of housing structure not shown separately. [5] See fig. 7.2, p. 221.

Source of tables 1360 and 1361: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristic, 1980*, June 1982.

No. 1362. Housings Units—Characteristics, by Square Footage of Floor Space: 1980

[See headnote, table 1361]

Characteristic	Average number of square feet per household				Households by measured heated square footage of residence (mil.)				
	Total		Heated						
	Mean	Median	Mean	Median	Total	Less than 1,000	1,000 to 1,599	1,600 to 2,399	2,400 and over
Total	**1,745**	**1,488**	**1,499**	**1,260**	**81.6**	**28.6**	**24.0**	**17.8**	**11.3**
Northeast	1,972	1,782	1,623	1,374	17.7	5.9	4.5	4.0	3.2
North Central	1,936	1,840	1,648	1,468	21.1	6.3	5.4	5.7	3.7
South	1,565	1,296	1,379	1,200	27.0	10.0	9.2	5.0	2.8
West	1,546	1,293	1,368	1,160	16.0	6.4	4.9	2.9	1.7
Single family detached	2,131	1,953	1,784	1,592	53.0	9.6	17.1	15.8	10.4
Single family attached	1,840	1,817	1,555	1,508	3.3	.8	1.1	.9	.5
2-4 unit building	1,086	903	1,025	889	9.9	6.0	3.0	.6	.4
5 or more unit building	825	773	812	749	10.8	8.4	1.9	.3	-
Mobile home	819	744	809	732	4.6	3.7	.8	.2	-
Year house built:									
1939 or earlier	1,856	1,594	1,511	1,280	23.3	8.0	7.0	4.9	3.4
1940-1949	1,591	1,344	1,384	1,173	7.5	3.1	2.2	1.3	.8
1950-1959	1,729	1,508	1,507	1,295	13.7	4.3	4.6	3.2	1.7
1960-1964	1,774	1,647	1,537	1,350	7.2	2.3	1.9	1.9	1.0
1965-1969	1,659	1,356	1,485	1,248	8.1	3.1	2.0	1.8	1.2
1970-1974	1,627	1,316	1,438	1,152	10.5	4.3	2.8	2.1	1.4
1975 or later	1,791	1,496	1,582	1,320	11.3	3.4	3.5	2.5	1.9

- Represents zero or rounds to zero.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristics, 1980*, June 1982.

No. 1363. Low-Rent Public Housing Units, by Progress Stage: 1960 to 1981

[**In thousands.** As of **Dec. 31.** Housing for the elderly designed for persons 62 years old or over, disabled, or handicapped. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970*, series N 186-191]

Year and program	Total	Occupied units [1]	Under construction	Other [2]	Year and program	Total	Occupied units [1]	Under construction	Other [2]
1960	593.3	476.2	36.4	78.8	**1981**	1,404.0	1,229.3	51.5	123.2
Elderly	18.9	1.1	4.1	13.7	Elderly	385.4	327.7	21.8	35.9
1970	1,155.3	893.5	126.8	135.0	New construction	1,187.4	1,103.9	45.7	37.8
Elderly	249.4	143.4	65.7	40.3	Conventional [3]	909.9	855.6	27.3	27.0
1975	1,316.7	1,180.4	52.9	83.4	Turnkey [4]	277.5	248.3	18.4	10.8
Elderly	336.3	288.3	24.3	23.7	Acquistion [5]	38.8	26.3	.5	12.0
1980	1,321.1	1,195.6	20.9	104.6	Leased housing [6]	177.8	99.1	5.3	73.4
Elderly	358.3	317.7	11.5	29.1	New	54.1	37.5	3.2	13.4

[1] Under management or available for occupancy. [2] To be constructed or to go directly "under management" because no rehabilitation needed. [3] New housing constructed on the Local Housing Authority (LHA) site pursuant to a contract let by the LHA. [4] New housing purchased by the LHA from a private developer upon completion of construction pursuant to an earlier agreement. [5] Existing housing acquired by the LHA. [6] Existing housing leased by LHA from an owner under a contract permitting LHA to sub-lease the units.

Source: U.S. Dept. of Housing and Urban Development, unpublished data.

No. 1364. New Apartments Completed and Rented in 3 Months: 1976 to 1981

[1981 data are preliminary. Structures with 5 or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For definition of median, see Guide to Tabular Presentation]

Characteristic	Number (1,000)						Percent rented in 3 months					
	1976	1977	1978	1979	1980	1981	1976	1977	1978	1979	1980	1981
Total	**157**	**196**	**229**	**241**	**196**	**136**	**80**	**80**	**82**	**82**	**75**	**80**
Rent: Under $150	6.8	6.4	3.6	2.5								
$150-$174	14.4	14.5	13.1	6.1	6.9	2.6	84	85	89	94		
$175-$199	35.0	30.4	25.2	15.1			82	75	82	96	82	77
$200-$249	56.9	72.5	71.6	66.0	32.9	10.0	82	84	81	85		
$250-$299	30.3	47.6	64.8	69.0	51.1	28.0	80	83	84	84	83	85
$300-$349					44.5	28.7	81	79	81	82	76	87
$350-$399	13.5	24.2	50.4	82.5	30.9	23.7	76	72	79	79	73	81
$400 or more					29.8	42.6					75	79
Bedrooms: Less than 2	75.1	87.8	112.6	119.1	93.7	65.5	86	83	84	80	65	76
2	74.5	100.6	107.8	113.3	95.1	63.1	77	78	80	86	76	79
3 or more	7.4	7.3	8.3	8.7	7.3	6.8	59	77	77	84	75	81
											63	85

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-130, and unpublished data.

No. 1365. Vacancy Rates for Housing Units—Characteristics: 1975 to 1981

[In percent. Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy, and vacant units available for rent or sale. For composition of regions, see fig. I, inside front cover. See headnote, table 1349 concerning SMSA's. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258]

RENTAL UNITS	1975	1978	1979	1980	1981
Total rental units	**6.0**	**5.0**	**5.4**	**5.4**	**5.0**
Inside SMSA's	6.1	5.2	5.4	5.2	4.8
Outside SMSA's	5.7	4.5	5.4	6.1	5.7
Northeast	4.1	4.8	4.5	4.2	3.7
North Central	5.7	4.8	5.7	6.0	5.9
South	7.7	5.5	6.1	6.0	5.4
West	6.2	4.8	5.3	5.2	5.1
Units in structure: 1 unit	3.6	3.1	3.2	3.4	3.3
2 or more	7.3	6.1	0.6	6.4	6.0
5 or more	8.3	6.7	7.6	7.1	6.4
Units with: 3 rooms or less	8.4	6.9	7.3	6.9	6.9
4 rooms	5.8	4.8	5.2	5.2	4.8
5 rooms	4.6	3.8	4.1	4.3	3.8
6 rooms or more	3.3	3.2	3.4	3.8	3.2
Monthly rent: Less than $60	5.5	4.0	3.1	2.5	3.0
$60-$79	5.7	5.0			
$80-$99	4.6	5.0	4.1	3.4	
$100 or more	6.7	5.2	6.0	6.0	5.2
Year built: 1960 or later	8.3	6.0	5.8	5.8	5.1
1965 or later	9.0	6.2	6.1	6.2	5.3
1940-1959	4.8	3.5	4.8	4.7	4.9
1939 or earlier	5.4	5.5	5.5	5.5	5.2
Plumbing: With all facilities	5.9	4.8	5.2	5.2	4.8
Lacking facilities	11.2	12.0	12.3	10.6	12.3

HOMEOWNER UNITS	1975	1978	1979	1980	1981
Total homeowner units	**1.2**	**1.0**	**1.2**	**1.4**	**1.4**
Inside SMSA's	1.3	1.0	1.1	1.3	1.4
Outside SMSA's	1.1	1.2	1.2	1.4	1.3
Northeast	1.0	.8	1.0	1.1	1.1
North Central	1.0	1.0	1.2	1.6	1.4
South	1.5	1.3	1.1	1.3	1.3
West	1.5	1.0	1.3	1.6	1.7
Units in structure: 1 unit	1.0	.9	1.0	1.2	1.1
2 or more	5.4	3.2	3.7	4.3	5.4
5 or more	14.4	9.2	6.6	8.7	10.8
Units with: 3 rooms or less	3.5	3.0	3.0	3.5	3.5
4 rooms	2.1	1.3	1.4	1.7	2.0
5 rooms	1.1	1.1	1.1	1.2	1.4
6 rooms or more	1.0	.9	1.1	1.3	1.1
Value: Less than $10,000	1.4	1.5	1.1	1.5	1.8
$10,000-$19,999	1.0	.9	1.5	.9	
$20,000-$24,999	.9	.7	.7	.9	1.1
$25,000 or more	1.4	.9	1.1	1.3	
Year built: 1960 or later	2.2	1.2	1.4	1.8	1.6
1965 or later	2.7	1.4	1.7	2.1	1.8
1940-1959	.5	.6	.6	.8	.8
1939 or earlier	1.1	1.3	1.4	1.5	1.6
Plumbing: With all facilities	1.3	1.0	1.1	1.3	1.4
Lacking facilities	2.0	2.9	3.7	4.2	3.3

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

No. 1366. Expenditures by Residential Property Owners for Improvements and Maintenance and Repairs: 1970 to 1981

[In millions of dollars, except averages]

YEAR AND TYPE OF EXPENDITURE	All properties	1-unit properties with owner occupant	Other properties	ADDITIONS AND ALTERATIONS: Total	ADDITIONS AND ALTERATIONS: Residential	ADDITIONS AND ALTERATIONS: Other property	Major construction replacements	Maintenance and repairs
1970: All properties [1]	**14,770**	**9,469**	**5,301**	**6,246**	**4,950**	**1,296**	**2,629**	**5,895**
Average per property	$297	$265	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1975: All properties [1]	**25,239**	**15,684**	**9,556**	**10,997**	**8,815**	**2,182**	**4,484**	**9,758**
Average per property	$459	$382	$685	$200	$160	$40	$82	$178
1978: All properties [1]	**37,461**	**24,189**	**13,272**	**16,458**	**12,156**	**4,302**	**8,094**	**12,909**
Average per property	$646	$562	$893	$284	$210	$74	$140	$222
1979: All properties [1]	**42,231**	**28,280**	**13,951**	**18,285**	**12,922**	**5,363**	**8,996**	**14,950**
Average per property	$712	$638	$954	$310	$219	$91	$153	$253
1980: All properties [1]	**46,336**	**31,481**	**14,857**	**21,336**	**15,376**	**5,960**	**9,816**	**15,187**
Average per property	$761	$698	$994	$355	$256	$99	$163	$253
Heating and air-conditioning [2]	4,307	2,866	1,441	876	876	(NA)	2,459	972
Plumbing	3,980	2,325	1,655	797	797	(NA)	1,577	1,606
Roofing	4,331	2,975	1,356	(NA)	(NA)	(NA)	3,160	1,172
Painting	5,709	3,110	2,599	(NA)	(NA)	(NA)	(NA)	5,709
1981: All properties [1]	**46,351**	**30,201**	**16,150**	**20,414**	**15,111**	**5,303**	**9,915**	**16,022**
Average per property	$758	$661	$1,047	$334	$247	$87	$162	$262
Heating and air-conditioning [2]	3,666	2,295	1,373	891	891	(NA)	2,028	750
Plumbing	4,418	2,323	2,095	710	710	(NA)	1,038	1,870
Roofing	4,926	3,339	1,587	(NA)	(NA)	(NA)	3,352	1,574
Painting	5,576	3,212	2,364	(NA)	(NA)	(NA)	(NA)	5,576

NA Not available. [1] Includes types of expenditures not separately specified. [2] Central air-conditioning.

Source: U.S. Bureau of the Census, *Construction Reports*, series C50.

No. 1367. Recent Home Buyers—General Characteristics and Downpayments: 1976 to 1981

[As of **October.** Based on a sample survey; subject to sampling variability]

ITEM	Unit	1976	1977	1978	1979	1980	1981
Median price of house purchased	Dollars	43,340	49,320	54,750	58,100	68,714	78,220
First-time buyers	Dollars	37,670	43,160	46,700	50,800	61,450	63,180
Repeat buyers [1]	Dollars	50,090	58,730	59,180	64,600	75,750	82,220
Average monthly mortgage payment	Dollars	329	361	384	449	599	694
Percent of income	Percent	24.0	25.0	26.0	28.2	32.4	35.5
Percent buying—							
New houses	Percent	15.1	12.8	14.4	17.8	22.4	25.2
Existing houses	Percent	84.9	87.2	85.6	82.2	77.6	74.8
Single-family houses	Percent	88.8	90.2	86.6	87.5	82.4	78.3
Multiple-family houses	Percent	4.8	6.2	7.6	5.3	5.5	6.9
Condominiums	Percent	6.4	3.6	5.6	6.8	12.1	13.4
For the first time	Percent	44.8	48.1	36.7	36.6	32.9	39.4
Average age of first-time buyers	Years	28.1	28.2	28.3	28.4	28.3	28.4
Average age of repeat buyers [1]	Years	35.9	37.9	35.5	34.7	36.4	36.4
Source of downpayment for—							
First-time buyer:							
Entirely from savings and investments	Percent	70.9	75.6	73.5	43.8	51.1	63.8
Help from relatives	Percent	20.4	14.3	8.7	32.6	32.6	17.0
Repeat buyers: [1]							
Entirely from savings and investments	Percent	21.2	25.8	19.2	14.8	27.7	22.6
Entirely from previous home sale	Percent	45.5	43.9	56.6	55.8	39.7	46.2
Downpayment to sales price	Percent	25.2	28.1	21.4	24.9	28.0	24.1
First-time buyers	Percent	18.0	19.2	12.4	17.6	20.5	19.4
Repeat buyers [1]	Percent	30.8	35.0	27.6	29.0	32.7	27.1

[1] Buyers who previously owned a home.

Source: Chicago Title Insurance Company, Chicago, Illinois, *The Guarantor*, bimonthly. (Copyright.)

No. 1368. Mortgage Status of Nonfarm Dwelling Units: 1940 to 1980

[**In millions, except percent.** Prior to 1960, excludes Alaska and Hawaii. For 1940 and 1950, mortgage data are for owner-occupied dwelling units in 1- to 4-dwelling unit structures without business; for 1960, properties with 1- to 4-dwelling units; for 1971–1979, properties with 1 housing unit; for 1980, specified owner-occupied housing units. See also *Historical Statistics, Colonial Times to 1970*, series N 302–307]

ITEM	1940	1950	1960	1971	1974	1975	1976	1977	1978	1979	1980
Owner occupied units	11.4	19.8	27.9	33.2	36.2	37.2	37.9	38.8	40.1	41.3	39.5
Reporting mortgage status	10.6	17.8	27.9	33.2	36.2	37.2	37.9	38.8	40.1	41.3	39.5
Mortgaged	4.8	7.8	15.8	20.1	23.0	23.4	24.1	24.9	25.6	26.4	25.5
Percent	45.3	44.0	56.8	60.6	63.5	63.0	63.5	64.2	63.9	64.0	64.7
Not mortgaged	5.8	10.0	12.0	13.1	13.2	13.8	13.8	13.9	14.5	14.9	14.0

Source: U.S. Bureau of the Census, *Census of Housing: 1950*, vol. I; *1960* and *1970*, vol. V; and *Current Housing Reports*, series H-150, Annual Housing Survey, part C, *Financial Characteristics of the Housing Inventory for the United States and Regions*, and *1980 Census of Population and Housing, Supplementary Report*, series PHC 80-S1-1.

No. 1369. Volume of Long-Term Mortgage Loans Originated, by Type of Property, 1970 to 1981, and by Lender, 1981

[**In billions of dollars.** Covers credit extended in primary mortgage markets for financing real estate acquisitions]

TYPE OF PROPERTY	1970	1975	1977	1978	1979	1980	1981, BY LENDER					
							Total [1]	Savings and loan	Commercial banks	Mortgage cos.	Fed. credit agencies	Mutual savings
Loans, total	**59.8**	**120.7**	**229.2**	**257.3**	**258.2**	**197.2**	**158.1**	**47.9**	**39.2**	**28.4**	**21.0**	**5.3**
1–4 unit family home	35.6	77.9	162.0	185.0	186.6	133.7	98.3	42.0	21.7	24.0	4.5	4.0
New units	12.6	24.6	46.4	58.0	60.5	49.1	37.3	17.3	6.6	10.0	2.1	.9
Existing units	23.0	53.3	115.6	127.0	126.1	84.6	61.0	24.7	15.3	14.0	2.4	3.1
Multifamily residential	8.8	10.7	15.8	16.5	15.8	12.5	12.0	2.3	1.5	2.0	3.2	.6
New units	7.0	5.8	5.6	6.9	8.4	8.6	8.0	.9	.4	1.6	3.1	.2
Existing units	1.8	4.9	10.2	9.6	7.4	3.9	4.0	1.4	1.1	.4	.1	.4
Non-residential	12.5	24.2	39.1	42.7	41.0	35.9	32.5	3.5	14.5	2.4	.9	.7
Farm properties	3.0	7.9	12.3	13.1	14.8	15.0	15.4	.1	1.5	–	12.4	–

– Represents zero. [1] Includes life insurance companies and other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *Survey of Mortgage Lending Activity, 1970–1979*, and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

No. 1370. Characteristics of Conventional First Mortgage Loans for Purchase of Single-Family Homes: 1975 to 1982

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

Loan characteristic	Unit	New homes						Existing homes					
		1975	1978	1979	1980	1981	1982, May	1975	1978	1979	1980	1981	1982, May
Contract interest rate	Percent	8.75	9.33	10.5	12.3	14.1	15.1	8.97	9.40	10.6	12.5	14.5	15.6
Initial fees, charges [1]	Percent	1.53	1.39	1.66	2.09	2.66	3.16	1.16	1.26	1.44	1.91	2.27	2.33
Term to maturity	Years	27.0	28.0	28.5	28.1	27.7	25.9	24.2	26.4	27.1	26.9	25.9	22.3
Loan to price ratio	Percent	76.2	75.2	73.8	73.2	74.8	77.4	73.5	75.0	74.0	73.5	72.9	65.1
Purchase price	$1,000	44.7	62.8	74.4	83.2	90.3	86.4	39.2	54.5	64.8	68.3	68.5	69.3

[1] Rate applies to any general or specific charges paid by borrower or seller, in order to obtain a loan, except those for mortgage, credit, life, or property insurance; for property transfer; and for title search and insurance.

Source: U.S. Federal Home Loan Bank Board, monthly news releases.

No. 1371. Home Loans Guaranteed and Insured by VA: 1975 to 1981

[Based on complete count of primary loans closed for conventionally built homes. See also table 623]

Loan characteristics	New homes						Existing homes					
	1975	1977	1978	1979	1980	1981	1975	1977	1978	1979	1980	1981
Number of Primary Loans	66,587	77,540	78,606	72,882	63,848	44,967	227,007	294,070	274,191	272,826	191,783	91,060
Average loan ($1,000)	32.9	39.6	44.0	51.5	58.7	63.6	28.6	34.6	38.3	44.8	49.6	51.4
	Percent of home loans											
Loan amount:												
Less than $25,000	12.2	3.7	1.9	.9	.7	.6	40.5	23.2	17.3	10.5	8.2	8.2
$25,000–$29,999	23.8	11.0	5.6	1.9	.9	.6	20.5	16.8	15.1	10.8	8.5	8.4
$30,000–$34,999	31.2	19.5	13.0	6.0	2.5	1.3	15.7	16.6	15.3	12.4	10.3	9.8
$35,000–$39,999	19.5	23.1	19.6	11.7	5.7	4.2	10.2	15.0	14.3	13.1	11.4	11.1
$40,000–$49,999	13.3	42.7	34.4	30.8	23.5	18.9	13.1	28.4	18.3	20.2	19.9	19.3
$50,000–$59,999			16.2	24.6	26.5	24.1			9.8	13.3	14.9	14.1
$60,000–$69,999			6.6	13.7	18.7	20.7			6.4	9.3	10.3	9.7
$70,000 and over			2.7	10.4	21.5	29.6			3.5	10.4	16.5	19.4
Mortgage maturity:												
Less than 25 yr	.3	.3	.3	.3	.3	.5	2.9	2.1	1.7	1.4	1.2	1.6
25 yr	.5	.5	.3	.2	.2	.6	6.1	4.5	4.0	2.9	2.4	2.6
26–29 yr	4.9	1.8	3.9	2.6	1.3	1.1	1.2	.5	1.4	.9	.3	.3
30 yr	94.3	97.4	95.5	96.9	98.2	97.8	89.8	92.9	92.9	94.8	96.1	95.5
Downpayment status:												
With downpaymt	42.9	44.5	46.3	47.4	45.2	45.7	26.5	26.4	26.2	28.0	29.7	28.2
With no downpmnt	57.1	55.5	53.7	52.6	54.8	54.3	73.5	73.6	73.8	72.0	70.3	71.8

Source: U.S. Veterans Administration, unpublished data.

No. 1372. One-Family Homes, FHA-Insured Mortgages: 1975 to 1981

[Data for sec. 203(b) of National Housing Act only. For definition of median, see Guide to Tabular Presentation]

Characteristic	Unit	New homes						Existing homes					
		1975	1977	1978	1979	1980	1981	1975	1977	1978	1979	1980	1981
Number of mortgages	1,000	35.7	42.5	36.6	37.0	30.7	23.2	178.9	229.9	218.9	241.8	198.0	109.6
Avg. monthly, occupant expenses:													
Real estate taxes	Dollars	49	56	56	57	58	67	40	41	44	43	49	51
Maintenance and repair	Dollars	22	24	23	29	30	34	20	22	24	28	31	34
Heating and utilities	Dollars	42	54	61	68	74	87	43	53	60	68	79	89
Average purchase transactions:													
Total acquisition cost [1]	$1,000	33.0	37.2	41.5	50.3	56.0	60.9	26.9	29.2	34.0	39.4	45.0	47.7
Closing costs	Dollars	672	701	772	856	981	1,049	606	660	761	846	960	1,054
Market price of site [2]	$1,000	6.4	7.3	7.7	9.8	11.8	12.4	5.5	5.8	6.9	8.1	10.1	11.4
Median value and cost:													
Amount of mortgage	$1,000	29.7	34.0	37.3	45.0	50.1	53.8	24.6	27.1	30.9	35.4	39.6	41.5
Estimated value	$1,000	32.5	37.2	41.1	50.4	56.0	60.9	26.2	28.9	33.0	38.4	44.0	47.0
Annual loan/value ratio	Percent	92.8	92.0	93.0	93.5	92.6	91.5	94.9	94.8	95.5	95.1	93.9	93.2
Income of occupant	$1,000	17.1	18.8	20.4	24.3	27.1	32.2	15.5	16.6	18.3	21.2	24.7	28.4
Monthly mortgage payment	Dollars	284	329	969	469	568	697	245	260	300	368	466	545
Term of mortgage	Years	30.0	29.9	29.9	29.9	29.9	29.8	29.3	29.4	29.5	29.5	29.5	29.5

[1] Sales price plus closing costs. [2] Includes street improvements or utilities, rough grading, terracing and retaining walls, if any, for site.

Source: U.S. Dept. of Housing and Urban Development, 1975–1979, *HUD Statistical Yearbook; thereafter,* unpublished data.

No. 1373. Residential Loans Underwritten by FHA: 1960 to 1981

[**In millions of dollars.** Figures are gross amount of insurance written; do not take account of principal repayments on previously insured loans. See also *Historical Statistics, Colonial Times to 1970*, series N 291–297]

LOAN	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
FHA-insured loans	**6,293**	**8,689**	**11,982**	**5,903**	**7,941**	**9,746**	**13,000**	**16,098**	**22,848**	**22,301**	**14,964**
Home mortgages: New properties	2,197	1,705	2,667	752	1,148	1,087	1,664	1,881	3,409	4,071	3,177
Existing properties	2,403	5,760	5,447	3,182	5,017	5,275	7,177	9,259	14,758	12,387	7,102
Project type mortgages	711	591	3,251	1,213	976	2,315	2,818	3,270	2,719	4,197	3,011
Property improvement loans [1]	982	634	617	750	799	1,071	1,341	1,688	1,962	1,646	1,674

[1] Not ordinarily secured by mortgages. Beginning 1970, includes mobile home loans.

Source: U.S. Dept. of Housing and Urban Development, *1960–1979 HUD Statistical Yearbook;* thereafter, unpublished data.

No. 1374. Nonresidential Buildings—Type, by Region and Heating (HDD) and Cooling (CDD) Degree Days Weather Zone: 1979–1980

[**In thousands.** Building type based on predominant activity in which the occupants were engaged. Based on a sample survey of building representatives conducted October 1979 to January 1980; subject to sampling variability. Excludes Alaska and Hawaii. For composition of weather zones, see fig. 7.2, p. 219]

TYPE	Total	Northeast	North Central	South	West	LESS THAN 2,000 CDD AND: More than 7,000 HDD	5,500 to 7,000 HDD	4,000 to 5,499 HDD	2,000 to 3,999 HDD	More than 2,000 CDD, less than 4,000 HDD
Nonresidential bldgs., number	**4,238**	**735**	**1,326**	**1,566**	**612**	**470**	**1,242**	**1,132**	**704**	**689**
Assembly	448	57	146	199	46	38	143	154	60	53
Auto. sales, service	401	77	145	122	57	55	130	115	53	48
Education	161	23	35	75	28	17	36	43	28	38
Food sales	366	56	118	139	53	47	99	83	69	68
Health care	44	7	18	15	5	1	20	12	5	5
Industrial	243	36	80	86	41	25	75	57	47	38
Lodging	101	13	12	54	23	8	21	18	28	26
Office	600	104	192	199	105	59	199	136	94	113
Residential	347	131	109	78	29	68	117	119	18	25
Retail/services	714	114	227	277	96	78	180	184	136	136
Warehouse and storage	430	59	137	157	77	44	107	112	90	77
Other	237	34	68	94	40	19	69	68	43	38
Vacant	146	23	39	70	13	11	45	32	33	26

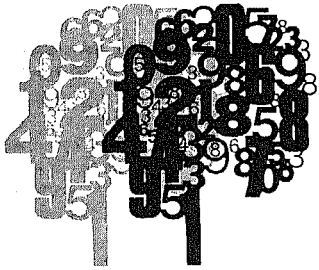
Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Building Characteristics*, March 1981.

No. 1375. Nonresidential Buildings—Type, by Square Footage and Year Constructed: 1979–1980

[**In thousands.** See headnote, table 1374]

TYPE	Total	YEAR CONSTRUCTED: Prior to 1946	1946 to 1960	1961 to 1970	1971 to 1973	1974 to present	SQUARE FOOTAGE: 1,000 or less	1,001 to 5,000	5,001 to 10,000	10,001 to 25,000	25,001 and over	Average sq. ft. per building	Median sq. ft. per building
Nonresidential bldgs., number	**4,238**	**1,590**	**1,064**	**789**	**235**	**561**	**677**	**1,729**	**801**	**596**	**436**	**12.9**	**4.1**
Assembly	448	198	101	80	17	51	44	156	131	79	38	11.2	6.0
Auto. sales, service	401	112	127	97	23	42	92	197	78	28	7	4.5	2.4
Education	161	37	53	47	6	18	10	33	21	31	67	36.2	18.3
Food sales	366	122	95	69	17	63	70	207	51	31	8	5.1	2.5
Health care	44	9	11	11	3	11	4	15	9	6	10	38.5	5.4
Industrial	243	77	55	44	30	35	22	58	55	45	63	29.4	9.1
Lodging	101	21	33	28	12	6	10	33	22	16	20	19.9	6.1
Office	600	216	118	121	41	104	89	259	115	86	52	13.6	4.1
Residential	347	237	63	30	7	10	41	177	45	64	19	9.0	3.7
Retail/services	714	260	219	105	28	103	123	292	152	95	52	10.7	4.0
Warehouse and storage	430	159	99	77	25	70	79	169	59	64	60	14.1	3.9
Other	237	82	50	48	18	39	58	76	38	39	26	13.2	3.6
Vacant	146	61	40	31	6	8	37	59	24	12	13	8.7	2.7

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Building Characteristics*, March 1981.



Section 29

Manufactures

This section presents summary data for manufacturing as a whole and more detailed information for major industry groups and selected specific products. The types of measures shown at the different levels include data for establishments; employment and wages; raw materials, fuels, and electricity consumed; plant and equipment expenditures; value and quantity of production and shipments; value added by manufacture; inventories; and various indicators of financial status.

The principal sources of these data are Bureau of the Census reports of the censuses of manufactures conducted every five years; 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 compiled by such government agencies as the Bureau of Labor Statistics; the Economics and Statistics Service of the Department of Agriculture; the International Trade Administration; and by private research or trade associations such as The Conference Board, Inc., New York, and the American Iron and Steel Institute, Washington, D.C.

Data on financial aspects of manufacturing industries are collected by the Bureau of Economic Analysis (BEA) and the Federal Trade Commission (FTC). Industry aggregates 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 published for leading manufacturing corporations registered with the SEC. The BEA issues data on capital in manufacturing industries and capacity utilization rates in manufacturing. The FTC has made several comprehensive studies of individual industries. See also Section 18, Business Enterprise in this edition.

Censuses and annual surveys.—The first census of manufactures covered the year 1809. Between 1809 and 1963, a census was conducted at periodic intervals. Since 1967 it has been taken every 5 years (for years ending in "2" and "7"). Census data, either direct reports or estimates from administrative records, are obtained for every manufacturing plant with one employee or more.

The Annual Survey of Manufactures, conducted for the first time in 1949, collects data for the years between censuses for the more general measures of manufacturing activity covered in detail by the censuses. The annual survey data are estimates derived from a scientifically selected sample of establishments. The most recent, 1980, annual survey is based on a sample of about 56,000 establishments of an approximate total of 350,000. It comprises all large plants, which account for approximately two-thirds of total U.S. manufacturing employment, and a representative selection of the more numerous small plants. Government-owned and -operated establishments are excluded.

The basic statistical measures of manufacturing activity, such as employment, payrolls, value added, etc., are defined in essentially the same way for both the annual surveys and the census of manufactures. However, the bases for computing average employment vary for different years. For example, beginning with 1949, average employment was calculated from the figures reported for the pay periods ending nearest the 15th 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 to provide data more comparable with other statistical series.

Establishments and classification.—The censuses of manufactures for 1947 through 1977 cover operating manufacturing establishments as defined in the *Standard Industrial Classification Manual (SIC),* issued by the U.S. Office of Management and Budget (see text, p. 372). The *Manual* is also used for classifying establishments in the annual surveys. The comparability of manufactures data over time is affected by changes in the official definitions of industries as presented in the *Manual.* It is important to note therefore that the 1972 edition of the *Manual* was used for the 1972 and 1977 censuses while the 1967 *Manual* was used for the 1967 census. For the censuses from 1947 to 1963, reports were required from all establishments employing one or more persons at any time during the census year. For the 1967 and 1972 censuses, 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. In the 1977 Census, data were based on administrative records for all establishments with fewer than 5 employees; and, depending on the industry, for those with fewer than 20. Each of the establishments tabulated was classified in one of the more than 450 manufacturing industries as defined by the *SIC Manual* in 1972 and 1977, as compared to 400 industries in the 1967 census. The *Manual* defines an industry as a number of establishments producing a single product or a closely related group of products. In the main, an establishment is classified in a particular industry if its production of a product or product group exceeds in value added its production of any other product group. While some establishments produce only the products of the industry in which they are classified, few within an industry specialize to that extent. The statistics on employment, payrolls, value added, inventories, and expenditures, therefore, reflect both the primary and secondary activities of the establishments in that industry. For this reason care should be exercised in relating such statistics to the total shipments figures of products primary to the industry.

The censuses for 1947 through 1977 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.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970.* See Appendix I.

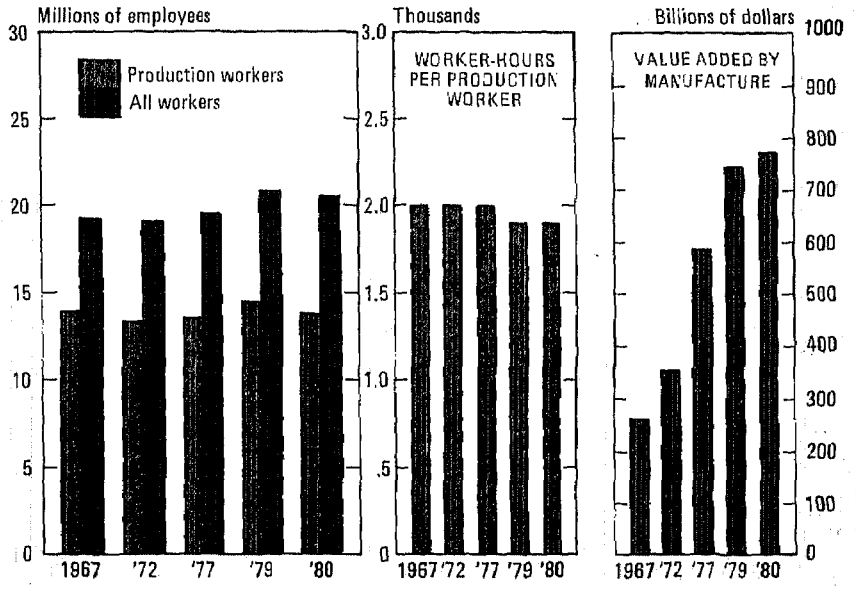
No. 1376. National Income Originating in Manufacturing: 1954 to 1981

[**In billions of dollars, except percent.** Prior to 1963, excludes Alaska and Hawaii. For definition of national income, see text, p. 415. Refers to national income without capital consumption adjustment. Data represent net value added at factor costs. See *Historical Statistics, Colonial Times to 1970,* series F 230, for single-year figures prior to revisions issued in 1981]

ITEM	1954	1958	1963	1967	1972	1974	1975	1976	1977	1978	1979	1980	1981
Total manufacturing	**95**	**108**	**144**	**194**	**252**	**301**	**318**	**367**	**413**	**465**	**509**	**526**	**581**
Percent of national income	31	29	29	29	26	26	25	26	26	26	25	24	24
Durable goods	**55**	**62**	**86**	**119**	**154**	**181**	**186**	**217**	**250**	**286**	**311**	**309**	**345**
Percent of total	58	58	60	61	61	60	58	59	60	61	61	59	59
Machinery, except electrical	9	10	14	22	28	35	37	42	49	56	64	68	76
Electric and electronic equipment	7	8	12	18	23	26	27	31	36	41	45	48	54
Fabricated metal products	7	8	10	15	19	23	24	28	32	36	40	41	45
Primary metal industries	8	9	11	14	18	27	24	26	28	34	38	38	43
Other transportation equipment	6	8	10	14	13	15	16	18	20	23	26	30	33
Motor vehicles and equipment	6	5	11	13	20	18	19	27	33	35	32	20	25
Instruments and related products	2	3	4	6	7	9	9	11	12	14	15	18	20
Stone, clay, and glass products	3	4	5	6	9	10	10	12	13	16	17	16	17
Lumber and wood products	3	3	4	5	8	10	8	11	13	16	17	15	15
Miscellaneous manufacturing industries	2	2	3	3	5	5	5	6	7	7	8	8	9
Furniture and fixtures	2	2	2	3	4	5	5	5	6	7	8	8	8
Nondurable goods	**40**	**46**	**57**	**75**	**98**	**121**	**132**	**150**	**163**	**179**	**198**	**216**	**236**
Food and kindred products	9	11	14	16	20	24	31	31	34	35	38	41	47
Chemicals and allied products	6	8	10	13	18	22	25	29	31	33	35	38	43
Petroleum and coal products	4	4	4	6	7	15	15	19	19	21	28	36	36
Printing and publishing	5	6	7	10	14	15	17	19	21	24	26	28	31
Paper and allied products	3	4	5	7	9	12	12	14	15	17	19	20	21
Rubber and miscellaneous plastic products	2	3	4	5	8	9	9	10	12	14	15	15	18
Apparel and other textile products	4	4	6	7	10	11	11	12	14	15	15	16	17
Textile mill products	4	4	5	6	8	10	9	11	12	13	14	14	15
Tobacco manufactures	1	1	1	1	2	2	2	3	3	3	4	4	5
Leather and leather products	1	1	2	2	2	2	2	3	3	3	3	4	4

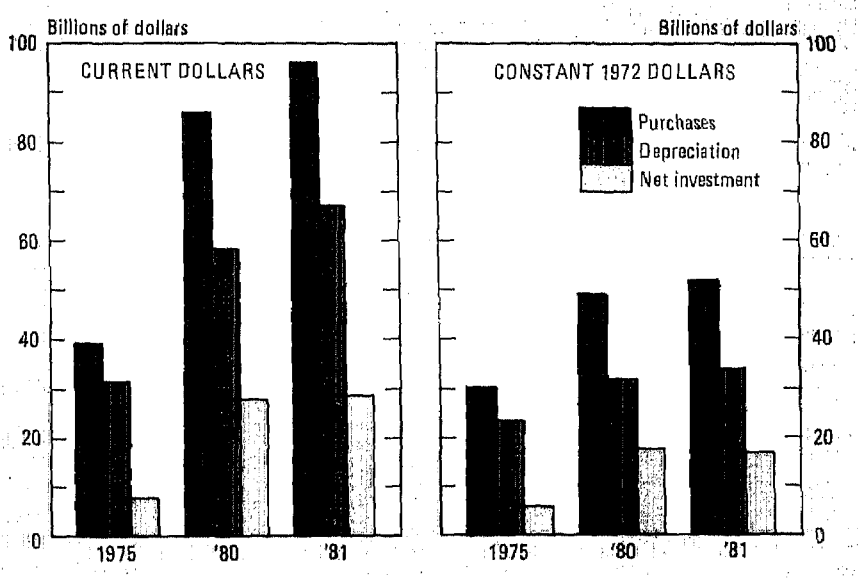
Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929–76,* and *Survey of Current Business,* July 1982.

Figure 29.1
Manufactures—Summary: 1967 to 1980



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1377.

Figure 29.2
Capital in Manufacturing Establishments: 1975 to 1981



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1389.

No. 1377. Manufactures—Summary: 1947 to 1980

[Prior to 1958, excludes Alaska and Hawaii. Census data, except as noted. For establishment coverage, see text, p. 766. See also *Historical Statistics, Colonial Times to 1970*, series P 1-12]

ITEM	Unit	1947	1954	1958	1963	1967	1972	1977	1978 [1]	1979 [1]	1980 [1]
Number of establishments [2]	1,000	[3] 241	[3] 287	303	312	311	321	360	(NA)	(NA)	(NA)
With 20 or more employees	1,000	(NA)	[3] 90	95	102	107	114	119	(NA)	(NA)	(NA)
All employees, [4] annual average [5]	Million	[3] 14.3	16.1	16.0	17.0	19.3	19.0	19.6	20.5	21.0	20.6
Payroll, all employees	Bil. dol.	[3] 40	66	78	100	132	174	264	299	329	350
Payroll per employee	$1,000	[3] 2.8	4.1	4.9	5.9	6.8	9.2	13.5	14.6	15.6	17.0
Production workers, annual average	Million	11.9	12.4	11.7	12.2	14.0	13.5	13.7	14.2	14.5	13.9
Percent of all employees	Percent	83.2	77.0	73.1	71.8	72.5	71.1	69.9	69.4	69.1	67.3
Hours, production workers	Billion	24.3	24.3	22.7	24.5	27.8	26.7	26.7	27.7	28.3	26.8
Hours per worker	1,000	2.0	2.0	1.9	2.0	2.0	2.0	2.0	1.9	1.9	1.9
Wages, production workers	Bil. dol.	30	45	50	62	81	106	157	176	193	198
Percent of payroll for all employees	Percent	75.0	68.2	64.1	62.0	61.4	60.9	59.5	59.0	58.6	56.5
Wages per worker	$1,000	2.5	3.6	4.3	5.1	5.8	7.8	11.5	12.4	13.3	14.3
Wages per worker hour	Dollar	1.24	1.83	2.19	2.53	2.92	3.95	5.89	6.37	6.81	7.41
Value added by manufacture [6]	Bil. dol.	74	117	142	192	262	354	585	657	748	773
Per production worker	$1,000	6.2	9.5	12.1	15.7	18.8	26.2	42.7	46.2	51.4	55.6
Per production worker hour	Dollar	3.04	4.81	6.25	7.83	9.42	13.25	21.91	23.75	26.39	28.88
Per dollar of workers' wages	Dollar	2.47	2.60	2.84	2.90	3.23	3.34	3.73	3.73	3.88	3.90
Cost of materials	Bil. dol.	(NA)	(NA)	(NA)	230	299	407	782	877	999	1,093
Value of shipments [7]	Bil. dol.	(NA)	(NA)	(NA)	421	557	757	1,359	1,523	1,727	1,851
Per production worker	$1,000	(NA)	(NA)	(NA)	34.4	39.9	55.9	99.9	107.0	118.8	133.2
End-of-year inventories	Bil. dol.	26	40	49	60	84	108	188	209	239	262
Capital expenditures, new [8]	Bil. dol.	6.0	8.2	9.5	11.4	21.5	24.1	47.5	55.2	61.5	70.6
Indexes:											
Employment	1967=100	74	83	83	88	100	98	101	106	109	107
Value added	1967=100	29	45	54	73	100	135	222	251	285	295
Shipments	1967=100	(NA)	(NA)	(NA)	76	100	136	242	273	307	332
Ratios:											
Value added to shipments	Ratio	(NA)	(NA)	(NA)	45.6	47.0	46.7	42.9	43.1	43.3	41.7
Inventories to shipments	Ratio	(NA)	(NA)	(NA)	14.2	15.0	14.2	13.8	13.7	13.8	14.1
Payroll to value added	Ratio	54.0	56.4	54.9	52.0	50.3	49.1	45.2	45.5	44.0	45.3
Gross book value of depreciable assets	Bil. dol.	(NA)	(NA)	(NA)	158	218	301	439	479	523	574
Machinery and equipment	Bil. dol.	(NA)	(NA)	(NA)	(NA)	157	218	328	360	394	434
Assets per employee	$1,000	(NA)	(NA)	(NA)	9.3	11.3	16.4	22.4	23.4	24.8	27.8

NA Not available. [1] Estimated data based on *Annual Survey of Manufactures*; see text, p. 765. [2] Includes administrative and auxiliary units, except as noted. [3] Excludes administrative offices and auxiliary units. [4] Includes data for employees of manufacturing establishments engaged in distribution and construction work. [5] Data for most industries in 1954 and for all industries since 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. [6] Unadjusted for 1947; thereafter, adjusted. Unadjusted value added is obtained by subtracting cost of materials, supplies, containers, fuel, purchased electric energy, and contract work from value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) net change in finished goods and work-in-process inventories between beginning and end of year. [7] Includes extensive and unmeasurable duplication from shipments between establishments in the same industry classification. [8] Beginning 1954, includes plants under construction and not yet in operation.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1947, 1954, 1958, 1963, 1967, 1972*, and *1977* final reports; and *Annual Survey of Manufactures*.

No. 1378. Manufactures—Summary, by Type of Operation: 1947 to 1977

[A multiunit company operates establishments at more than one location. See text, p. 766]

ITEM	Unit	1947	1954	1958	1963	1967	1972	1977
Multiunit companies: Establishments	1,000	35.2	31.8	41.9	45.9	51.7	70.2	81.2
Employees	Million	8.0	9.5	10.1	11.0	13.3	14.3	15.0
Production workers	Million	6.7	7.4	7.2	8.1	9.8	9.8	10.1
Payroll, all employees	Bil. dol.	22.8	40.6	51.8	68.2	93.8	138.8	214.2
Wages, production workers	Bil. dol.	17.8	29.0	33.5	44.7	60.9	81.9	124.9
Value added by manufacture	Bil. dol.	43.9	79.6	105.3	146.6	206.4	286.1	485.0
Capital expenditures, new	Bil. dol.	(NA)	6.5	7.5	8.9	18.6	20.0	41.0
Single unit companies: Establishments	1,000	205.6	255.0	256.3	260.8	[1] 254.0	[1] 250.5	[1] 278.7
Employees	Million	6.3	6.2	5.3	5.2	[1] 5.2	[1] 4.8	[1] 4.6
Payroll, all employees	Bil. dol.	16.9	22.3	21.9	25.1	[1] 28.5	[1] 35.4	[1] 49.8
Value added by manufacture	Bil. dol.	30.3	37.4	37.9	45.5	[1] 55.5	[1] 67.9	[1] 100.1

NA Not available. [1] Includes data obtained from Federal administrative records.

Source: U.S. Bureau of the Census, *1977 Census of Manufactures, Type of Organization*, subject series, MC77-SR-7.

No. 1379. Industrial Production Indexes, by Industry: 1960 to 1982

[1967=100. Based on 1967 *Standard Industrial Classification Manual* (see text, p. 766). See also *Historical Statistics, Colonial Times to 1970*, series P 13 and P 18-39]

MAJOR INDUSTRY GROUP	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982, Jan.-May
Industrial production	**66**	**90**	**108**	**120**	**130**	**129**	**118**	**131**	**138**	**146**	**153**	**147**	**151**	**140**
Manufacturing	**65**	**90**	**106**	**119**	**130**	**129**	**116**	**130**	**138**	**147**	**154**	**147**	**150**	**138**
Durable goods	**63**	**89**	**102**	**114**	**127**	**126**	**109**	**122**	**130**	**140**	**146**	**137**	**141**	**127**
Primary metals	72	102	107	112	127	123	96	110	111	120	121	102	108	86
Fabricated metal products	71	91	102	112	125	124	110	124	131	142	149	134	136	119
Electrical machinery	52	82	108	122	143	144	117	135	145	159	175	173	178	170
Nonelectrical machinery	57	85	104	116	134	140	125	135	144	154	164	163	171	155
Transportation equipment	65	95	90	108	118	109	97	111	122	133	135	117	116	106
Instruments	58	83	112	120	138	144	132	147	156	167	175	171	170	161
Clay, glass, stone products	79	98	106	121	134	133	118	136	146	157	164	148	148	125
Lumber and products	75	96	106	121	126	116	108	123	131	136	137	119	119	104
Furniture and fixtures	72	95	108	131	144	138	118	137	145	156	162	150	157	150
Miscellaneous	71	94	111	127	138	138	128	145	149	151	154	148	155	141
Nondurable goods	**69**	**91**	**112**	**127**	**134**	**135**	**126**	**142**	**151**	**157**	**164**	**161**	**165**	**154**
Textile mill products	69	93	112	133	143	133	122	135	134	138	145	139	136	123
Apparel products	82	97	101	109	117	114	108	126	134	134	134	127	120	(NA)
Leather and products	90	98	90	88	83	78	77	77	74	74	72	70	69	64
Paper and products	68	92	115	129	137	135	116	133	138	145	151	151	155	153
Printing and publishing	71	88	107	113	118	118	113	123	128	132	137	140	144	137
Chemicals and products	56	88	120	144	155	159	147	171	186	197	212	207	216	196
Petroleum products	77	92	113	122	129	125	124	134	143	145	144	133	130	118
Rubber and plastics products	52	86	132	172	184	195	167	200	232	254	272	256	274	255
Foods	79	92	109	117	121	124	123	133	139	143	148	150	152	140
Tobacco products	91	100	102	106	112	110	112	117	113	118	118	120	122	121
Mining	**80**	**93**	**112**	**113**	**115**	**115**	**113**	**114**	**118**	**124**	**126**	**133**	**142**	**137**
Utilities	**63**	**89**	**125**	**139**	**145**	**144**	**146**	**152**	**157**	**161**	**166**	**168**	**169**	**171**
Energy [1]	**70**	**89**	**117**	**125**	**126**	**126**	**126**	**129**	**133**	**135**	**138**	**138**	**137**	**138**

[1] Production of energy is represented by output of primary energy, such as crude oil, natural gas, and coal mining, and by the conversion of primary energy to other energy forms for final consumption.

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1380. Capacity Utilization Rates in Manufacturing: 1965 to 1981

[**In percent.** Annual figures are averages of quarterly data, except yearend 1965. Capacity represents maximum practical amount of output that can be produced with current stock of plant and equipment]

INDUSTRY	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
All manufacturers	**86**	**81**	**80**	**83**	**86**	**83**	**77**	**81**	**83**	**84**	**82**	**78**	**76**
Firms with assets of—													
$100 million and over	89	83	83	86	88	85	78	84	85	86	85	79	77
$10 million-$99.9 million	85	79	78	81	83	81	75	78	80	81	81	78	77
Under $10 million	80	73	73	77	79	77	72	76	78	78	76	72	74
Durable goods [1]	88	78	78	82	85	82	76	81	84	84	83	77	74
Electrical machinery	83	76	76	81	82	83	73	80	82	83	82	80	76
Machinery, except electrical	95	86	81	84	87	88	83	86	89	91	91	90	89
Transportation equipment [1]	89	75	81	85	87	78	76	82	86	85	80	72	68
Motor vehicles	96	81	92	97	100	83	83	93	99	95	84	67	63
Aircraft	79	68	65	69	69	71	65	65	68	70	76	79	75
Primary metals	(NA)	82	75	86	88	88	73	78	80	84	84	74	73
Stone, clay, and glass	84	76	80	83	83	79	70	77	79	80	80	73	70
Nondurable goods [1]	85	83	83	85	86	84	79	82	82	82	82	79	78
Food, including beverages	75	82	81	81	81	80	77	77	78	79	79	76	78
Textiles	83	82	84	89	90	81	78	85	86	85	83	80	80
Paper	95	88	88	90	94	91	79	87	86	88	91	88	86
Chemicals	85	82	81	84	88	85	74	80	78	80	83	78	75
Petroleum	95	95	94	94	97	89	89	93	92	90	88	81	74
Rubber	93	82	86	89	89	85	74	80	85	83	77	70	72

NA Not available. [1] Includes items not shown separately.

Source: U.S. Bureau of Economic Analysis. Quarterly data in *Survey of Current Business*, monthly.

No. 1381. Manufactures Summary,

[Sum of State totals may not add to U.S. total

	STATE	1967				1972				1977		
		Establishments [1] total	All employees [2]		Value added by manufacture [4] (mil. dol.)	Establishments [1] total	All employees [2]		Value added by manufacture [4] (mil. dol.)	Establishments [1]		All employees, number [2 3] (1,000)
			Number [3] (1,000)	Payroll (mil. dol.)			Number [3] (1,000)	Payroll (mil. dol.)		Total	With 20 or more employees	
1	**U.S**	**311,140**	**19,323**	**132,209**	**261,984**	**320,710**	**19,029**	**174,206**	**353,954**	**359,928**	**118,699**	**19,590**
2	**N.E**	**24,286**	**1,562**	**10,190**	**18,972**	**23,732**	**1,363**	**11,908**	**22,508**	**25,737**	**8,881**	**1,390**
3	Maine	2,385	111	577	1,070	2,076	100	699	1,383	2,157	595	103
4	N.H	1,481	95	513	932	1,434	90	663	1,279	1,825	623	95
5	Vt	925	43	259	515	860	37	311	576	1,030	298	42
6	Mass	10,963	714	4,646	8,715	10,770	619	5,486	10,678	11,133	4,054	613
7	R.I	2,703	122	700	1,351	2,756	118	888	1,764	3,107	945	125
8	Conn	5,829	478	3,494	6,390	5,836	399	3,860	6,828	6,485	2,366	412
9	**M.A**	**76,422**	**4,360**	**30,527**	**57,262**	**71,808**	**3,933**	**37,123**	**70,331**	**71,009**	**24,904**	**3,617**
10	N.Y	42,911	1,929	13,852	25,247	38,341	1,679	16,220	30,404	36,578	11,425	1,510
11	N.J	14,740	881	6,325	12,738	15,069	836	8,107	16,409	15,696	5,775	778
12	Pa	18,771	1,550	10,350	19,277	18,398	1,418	12,794	23,519	18,735	7,704	1,329
13	**E.N.C**	**63,062**	**5,151**	**38,495**	**75,016**	**64,674**	**4,933**	**50,960**	**99,951**	**69,237**	**25,941**	**4,974**
14	Ohio	15,428	1,397	10,523	20,435	16,390	1,346	13,810	27,171	17,354	6,728	1,331
15	Ind	6,920	710	5,023	10,308	7,354	704	6,882	14,112	8,061	3,229	706
16	Ill	18,536	1,397	10,014	20,017	18,618	1,306	12,801	25,849	19,517	7,441	1,286
17	Mich	14,340	1,134	9,357	17,242	14,467	1,076	12,745	23,376	15,627	5,380	1,116
18	Wis	7,838	512	3,578	7,014	7,845	501	4,722	9,443	8,678	3,163	535
19	**W.N.C**	**20,623**	**1,206**	**8,165**	**16,773**	**21,467**	**1,202**	**10,923**	**23,586**	**24,321**	**7,804**	**1,297**
20	Minn	5,409	300	2,107	4,080	5,698	302	2,889	5,524	6,637	2,126	332
21	Iowa	3,388	210	1,435	3,251	3,387	216	2,039	4,758	3,783	1,245	240
22	Mo	6,545	452	3,049	5,895	6,732	434	3,897	8,169	7,354	2,429	433
23	N. Dak	454	8	42	113	482	10	79	201	571	145	14
24	S. Dak	604	16	93	171	606	17	135	285	740	195	23
25	Nebr	1,672	77	476	1,150	1,723	85	704	1,733	1,965	626	88
26	Kans	2,551	144	965	2,112	2,839	137	1,181	2,915	3,270	1,037	168
27	**S.A**	**37,961**	**2,502**	**14,014**	**29,313**	**41,535**	**2,739**	**20,640**	**44,352**	**47,692**	**15,560**	**2,823**
28	Del	528	71	588	958	567	69	755	1,292	619	231	67
29	Md	3,401	288	1,956	3,781	3,579	256	2,386	4,707	3,937	1,351	244
30	D.C	593	23	179	333	564	19	215	376	555	130	19
31	Va	4,938	340	1,905	4,068	4,837	375	2,826	6,178	5,519	1,879	395
32	W. Va	1,844	124	832	2,170	1,734	121	1,098	2,647	1,857	583	117
33	N.C	8,266	643	3,066	6,607	8,632	744	4,929	11,015	9,954	4,005	765
34	S.C	3,465	304	1,502	3,030	3,719	345	2,345	4,966	4,229	1,560	374
35	Ga	6,976	423	2,231	4,684	7,629	468	3,336	7,386	8,623	2,906	485
36	Fla	7,950	285	1,755	3,683	10,275	343	2,750	5,787	12,399	2,915	358
37	**E.S.C**	**15,746**	**1,092**	**5,909**	**13,718**	**16,525**	**1,249**	**9,211**	**21,234**	**19,187**	**6,797**	**1,328**
38	Ky	2,994	225	1,352	3,636	3,167	259	2,160	5,682	3,548	1,318	278
39	Tenn	5,040	418	2,190	4,921	5,647	467	3,352	7,662	6,487	2,477	490
40	Ala	4,951	289	1,603	3,526	4,984	323	2,397	5,065	5,863	1,855	341
41	Miss	2,761	160	764	1,635	2,727	200	1,302	2,825	3,289	1,147	219
42	**W.S.C**	**21,883**	**1,083**	**6,855**	**16,617**	**24,020**	**1,239**	**10,286**	**24,603**	**29,796**	**9,048**	**1,442**
43	Ark	2,911	144	666	1,558	2,897	181	1,152	2,800	3,595	1,101	197
44	La	3,639	165	1,084	2,790	3,657	179	1,601	4,273	4,276	1,236	195
45	Okla	2,611	118	764	1,346	3,042	143	1,188	2,270	3,818	1,067	164
46	Tex	12,722	658	4,340	10,922	14,424	736	6,345	15,259	18,107	5,644	886
47	**Mt**	**8,679**	**315**	**2,123**	**4,522**	**10,119**	**388**	**3,469**	**7,446**	**13,808**	**3,220**	**461**
48	Mont	923	20	130	312	943	21	185	463	1,168	203	24
49	Idaho	1,131	37	220	503	1,190	43	340	821	1,495	379	52
50	Wyo	331	6	37	86	377	7	57	144	505	102	9
51	Colo	2,461	104	731	1,509	2,841	133	1,298	2,504	3,948	961	153
52	N. Mex	749	17	99	205	926	24	157	358	1,323	258	29
53	Ariz	1,630	77	543	995	2,037	94	855	1,880	2,892	677	111
54	Utah	1,124	47	315	778	1,358	57	486	1,069	1,748	494	70
55	Nev	330	7	50	134	447	10	92	208	729	147	15
56	**Pac**	**42,433**	**2,050**	**15,911**	**29,675**	**46,829**	**1,983**	**19,685**	**39,986**	**59,106**	**16,534**	**2,255**
57	Wash	5,014	271	2,119	3,764	5,345	226	2,308	4,721	6,723	1,712	265
58	Oreg	4,437	163	1,083	2,061	4,670	179	1,627	3,490	5,716	1,580	202
59	Calif	31,962	1,584	12,515	23,394	35,699	1,546	15,483	31,195	45,289	12,883	1,752
60	Alaska	323	8	56	130	342	8	75	170	429	128	11
61	Hawaii	697	25	140	326	773	25	191	410	949	231	25

X Not applicable. [1] Includes central administrative offices and auxiliary units. [2] Includes employment and payroll at administrative offices and auxiliary units. [3] "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 12th of March. "Production workers" represents the average of the employment for the payroll periods ended nearest the 12th of March, May, August, and November.

BY STATE: 1967 TO 1980

because U.S. and State figures were independently derived]

1977—Con.				1980				
All employees, payroll [2,3] (mil. dol.)	Production workers [2] Number [3] (1,000)	Production workers [2] Wages (mil. dol.)	Value added by manufacture [4] (mil. dol.)	All employees, number [2,3] (1,000)	Value added by manufacture [4] (mil. dol.)	Value of shipments [5] (mil. dol.)	Leading major industry groups ranked by value added by manufacture, 1980	
264,013	**13,691**	**157,164**	**585,166**	**20,644**	**773,441**	**1,850,899**	**Mach. exc. electrical; trans. equip.; chemicals.**	1
17,602	**943**	**9,623**	**35,587**	**1,558**	**51,632**	**96,436**	(x)	2
1,078	84	781	2,343	116	3,600	7,697	Paper; leather; lumber.	3
1,029	72	645	2,175	107	3,606	6,589	Elec. equip.; machinery exc. elec.; paper.	4
498	29	270	1,050	49	1,687	3,197	Elec. equip.; mach. exc. elec.; fabricated metal.	5
7,819	408	4,199	16,349	694	23,221	43,535	Machinery exc. elec.; elec. equip.; instruments.	6
1,327	95	825	2,737	130	3,545	7,377	Misc. mfg.; fabricated metal; primary metal.	7
5,852	255	2,902	10,934	463	15,973	28,041	Trans. equip., mach. exc. elec., fabricated metal.	8
49,843	**2,382**	**26,929**	**103,160**	**3,700**	**135,323**	**288,617**	(x)	9
20,876	958	10,419	44,290	1,547	58,140	112,213	Instruments; print. and publish.; elec equip.	10
10,924	490	5,562	22,853	814	30,137	68,470	Chemicals; food; electrical equip.	11
18,043	934	10,949	36,017	1,340	47,046	107,935	Primary metal; machinery exc. electrical; food.	12
76,908	**3,475**	**48,128**	**160,223**	**4,745**	**185,691**	**441,859**	(x)	13
20,356	924	12,908	43,055	1,253	50,176	113,974	Mach. exc. elec.; trans. equip.; fabricated metal.	14
10,439	522	7,047	22,718	654	26,921	63,440	Electrical equip.; trans. equip.; primary metal.	15
18,741	858	10,757	40,279	1,272	50,543	121,288	Machinery exc. elec.; food; elec. equip.	16
20,054	789	12,721	37,566	1,016	36,723	92,948	Trans. equip.; machinery exc. elec.; fab. metal.	17
7,318	381	4,697	16,606	551	21,327	50,209	Machinery exc. elec.; food; paper.	18
17,389	**891**	**10,331**	**40,621**	**1,399**	**55,141**	**144,860**	(x)	19
4,693	211	2,413	9,605	384	14,305	32,963	Machinery exc. elec.; food; fabricated metal.	20
3,383	171	2,191	8,684	245	11,570	30,654	Machinery exc. elec.; food; chemicals.	21
5,709	299	3,405	13,042	439	16,373	38,715	Transportation equip.; food; chemicals.	22
162	9	97	473	16	557	2,106	Machinery exc. elec.; food; petroleum and coal.	23
251	17	169	612	28	969	2,720	Food; machinery exc. electrical; instruments.	24
1,075	63	681	2,867	95	3,869	13,580	Food; machinery exc. elec.; elec. equip.	25
2,115	122	1,371	5,338	193	7,498	24,121	Trans. equip.; machinery exc. elec.; food.	26
31,502	**2,131**	**19,996**	**72,304**	**3,060**	**100,367**	**231,731**	(x)	27
1,141	32	410	1,596	71	2,466	8,030	Chemicals; transp. equip; food.	28
3,420	163	1,976	7,116	252	9,349	20,291	Food; electronic equipment; primary metal.	29
298	8	102	610	17	780	1,231	Printing and publishing; food; fabricated metal.	30
4,442	302	2,917	10,882	418	15,120	33,118	Chemicals; food; tobacco.	31
1,621	89	1,124	3,880	115	4,862	11,236	Chem.; primary metal; stone, clay, glass prod.	32
7,519	611	5,086	18,231	820	24,947	56,029	Textiles; tobacco; chemicals.	33
3,805	300	2,640	8,186	391	11,133	25,383	Textiles; chemicals; machinery exc. elec.	34
5,125	376	3,404	12,549	525	16,697	43,157	Textiles; transportation equipment; food.	35
4,133	250	2,336	9,255	452	15,013	33,257	Food; electrical equip.; chemicals.	36
14,506	**1,036**	**9,959**	**36,234**	**1,321**	**46,392**	**111,156**	(x)	37
3,452	209	2,303	9,546	270	11,917	28,845	Machinery exc. elec.; food, elec. equip.	38
5,219	376	3,481	12,663	491	16,138	36,397	Chemicals; food; machinery exc. elec.	39
3,773	273	2,698	8,406	349	11,344	28,552	Primary metals; paper; chemicals.	40
2,062	178	1,477	5,619	212	6,994	17,362	Petroleum; elec. equip; transp. equip.	41
18,319	**1,017**	**10,990**	**52,112**	**1,651**	**73,650**	**247,547**	(x)	42
1,932	161	1,401	4,882	199	6,316	16,483	Electronic equipment; food; paper.	43
2,683	145	1,799	9,418	209	12,893	50,319	Chemicals; petroleum; food.	44
2,051	110	1,164	4,662	197	7,297	21,764	Machinery exc. elec.; fabricated metal; petroleum.	45
11,653	601	6,626	33,150	1,047	47,145	158,981	Chemicals, petroleum; machinery exc. electrical.	46
5,991	**312**	**3,489**	**13,622**	**564**	**21,042**	**52,358**	(x)	47
312	19	236	802	24	1,372	4,710	Primary metals; lumber; petroleum.	48
625	40	432	1,430	50	1,931	4,967	Lumber; food; chemicals.	49
111	6	74	382	10	601	2,819	Petroleum; chemicals; stone, glass, clay.	50
2,125	98	1,143	4,472	187	6,653	15,396	Food; instruments; machinery exc. elec.	51
297	21	184	734	33	1,067	3,069	Primary metals; petroleum; food.	52
1,463	70	781	3,393	148	5,327	11,175	Elec. equip.; machinery exc. elec.; trans. equip.	53
867	49	522	1,974	93	3,415	8,845	Machinery exc. electrical; primary metals; trans. equip.	54
192	10	113	495	18	675	1,377	Stone, clay, glass; print and publishing, food.	55
31,929	**1,505**	**17,720**	**71,245**	**2,646**	**104,203**	**236,335**	(x)	56
4,054	181	2,385	8,955	312	13,975	35,376	Transportation equipment; lumber; food.	57
2,760	155	1,902	6,138	221	7,915	18,900	Lumber; food; instruments.	58
24,672	1,143	13,151	54,862	2,075	80,450	176,831	Transportation equip.; elec. equip.; food.	59
166	9	123	504	12	614	1,758	Food; chemicals; paper.	60
277	17	161	786	27	1,249	3,470	Food; petroleum; printing and publishing.	61

[4] For definition, see footnote 6, table 1377. [5] See footnote 7, table 1377.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967 and 1972, General Summary,* MC 67(1)-1 and MC 72(1)-1; *Census of Manufactures, 1977,* vol. III, Area Statistics; and *Annual Survey of Manufactures.*

No. 1382. Manufactures Summary

[Data based on various editions of the *Standard Industrial Classification Manual*, published by the Office of

Industry code [1]	INDUSTRY GROUP	1967 Establishments (number)	1967 All employees Number [2] (1,000)	1967 All employees Payroll (mil. dol.)	1967 Value added by manufacture [3] (mil. dol.)	1972 Establishments (number)	1972 All employees Number [2] (1,000)	1972 All employees Payroll (mil. dol.)	1972 Value added by manufacture [3] (mil. dol.)
(x)	**All manufacturing establishments, incl. central administrative offices**	311,140	19,323	132,208	261,984	320,701	19,027	174,187	353,973
20	**Food and kindred products**	[5] 32,518	1,650	10,077	26,621	28,183	1,569	12,920	35,615
201	Meat products	4,914	310	1,954	3,551	4,437	308	2,544	4,961
202	Dairy products	6,188	232	1,449	3,466	4,590	189	1,596	4,054
203	Preserved fruits and vegetables	3,528	223	1,084	[6] 3,238	2,557	233	1,534	4,514
204	Grain mill products	3,202	112	758	2,882	3,080	111	1,013	3,699
205	Bakery products	4,300	264	1,665	3,495	3,633	235	2,029	4,537
206	Sugar and confectionery products	182	114	644	1,900	1,249	107	832	2,473
207	Fats and oils	(NA)	44	297	919	860	40	366	1,291
208	Beverages	4,376	221	1,525	4,790	3,624	212	2,033	6,689
209	Misc. foods and kindred products	4,498	130	700	2,375	4,153	134	974	3,397
21	**Tobacco products**	329	75	377	[6] 2,032	272	66	502	2,637
211	Cigarettes	16	37	221	[6] 1,640	20	38	345	2,188
212	Cigars	148	19	71	[6] 196	124	14	68	192
213	Chewing and smoking tobacco	46	4	18	[6] 64	37	3	23	103
214	Tobacco stemming and redrying	119	16	66	[6] 133	91	11	66	154
22	**Textile mill products**	7,080	929	4,391	8,153	7,201	953	6,051	11,716
221	Weaving mills, cotton	393	203	938	1,624	307	121	745	1,256
222	Weaving mills, manmade fiber	396	109	529	922	412	150	979	1,832
223	Weaving, finishing mills, wool	310	42	216	429	198	19	132	239
224	Narrow fabric mills	384	26	121	214	376	27	162	289
225	Knitting mills	2,698	241	1,036	1,914	2,723	277	1,647	3,181
226	Textile finishing, except wool	641	74	416	710	655	80	564	1,114
227	Floor covering mills	385	44	228	599	527	60	415	1,076
228	Yarn and thread mills	768	119	505	946	807	148	866	1,580
229	Misc. textile goods	1,105	72	401	795	1,196	72	540	1,149
23	**Apparel, other textile products**	26,393	1,357	5,582	10,064	24,438	1,368	7,212	13,488
231	Men's and boys' suits and coats	1,003	136	642	1,048	856	125	770	1,342
232	Men's and boys' furnishings	2,853	345	1,212	2,181	2,787	363	1,692	3,242
233	Women's and misses' outerwear	9,416	409	1,756	3,183	9,526	433	2,270	4,102
234	Women's, children's undergarments	1,213	114	444	867	1,002	105	525	1,049
235	Hats, caps, and millinery	843	24	102	164	496	15	73	133
236	Children's outerwear	1,334	78	298	538	1,061	75	368	709
237	Fur goods	1,304	9	59	117	797	5	41	86
238	Misc. apparel and accessories	1,397	71	285	510	1,302	62	336	636
239	Misc. fabricated textile products	7,030	173	785	1,457	6,611	186	1,139	2,188
24	**Lumber and wood products [7]**	36,795	554	2,799	4,973	33,949	691	4,986	10,310
241	Logging camps, log contractors	16,334	71	339	695	13,238	80	524	1,163
242	Sawmills and planing mills	11,461	216	1,028	1,784	9,452	204	1,488	3,259
243	Millwork, plywood, and structural members [7]	4,558	154	896	1,505	5,506	191	1,474	2,908
244	Wood containers [7]	905	31	135	239	1,160	37	204	359
245	Wood buildings and mobile homes	(NA)	(NA)	(NA)	(NA)	993	97	745	1,491
249	Misc. wood products [7]	3,537	83	401	750	3,600	82	550	1,129
25	**Furniture and fixtures**	10,008	425	2,258	4,170	9,233	462	3,205	6,097
251	Household furniture [7]	6,306	298	1,456	2,650	5,369	317	2,024	3,861
252	Office furniture	365	35	225	478	433	39	330	660
253	Public building, related furniture	438	23	132	234	422	21	158	296
254	Partitions and fixtures	1,970	48	324	587	2,010	57	484	871
259	Misc. furniture and fixtures	929	22	121	221	999	27	210	410
26	**Paper and allied products**	5,890	639	4,436	9,756	6,038	633	5,992	13,064
261	Pulpmills	61	15	126	334	60	11	126	307
262	Papermills, except building paper	354	140	1,121	2,356	349	130	1,440	2,909
263	Paperboard mills	283	67	534	1,509	273	69	778	1,994
264	Misc. converted paper products	2,492	187	1,187	2,833	2,525	189	1,630	4,008
265	Paperboard containers and boxes	2,606	219	1,387	2,541	2,739	224	1,907	3,599
266	Building paper and board mills	94	12	83	184	92	12	112	247

For footnotes, see pp. 776 and 777.

FOR INDUSTRY GROUPS: 1967 TO 1980

Management and Budget; see text, p. 766. See also *Historical Statistics, Colonial Times to 1970*, series P 58-67]

1977								1980			
Establishments		All employees		Production workers		Value added by manufacture [3] (mil. dol.)	Capital expenditures, new [4] (mil. dol.)	All employees		Value added by manufacture [3] (mil. dol.)	Capital expenditures, new [4] (mil. dol.)
Total	With 20 or more employees	Number [2] (1,000)	Payroll (mil. dol.)	Number [2] (1,000)	Wages (mil. dol.)			Number [2] (1,000)	Payroll (mil. dol.)		
359,928	**118,669**	**19,590**	**264,013**	**13,691**	**157,164**	**585,166**	**47,459**	**20,645**	**350,351**	**772,590**	**70,569**
26,656	**11,038**	**1,520**	**18,544**	**1,072**	**11,731**	**56,062**	**4,215**	**1,537**	**23,222**	**75,302**	**5,852**
4,534	1,715	309	3,702	254	2,817	7,478	533	325	4,678	10,018	654
3,731	1,617	154	1,939	85	988	5,648	389	149	2,292	7,477	540
2,379	1,263	235	2,336	199	1,793	7,685	471	234	2,958	9,545	690
3,043	1,076	113	1,576	79	1,034	6,626	620	114	1,993	9,133	723
3,386	1,289	222	2,866	131	1,525	7,073	365	230	3,616	9,016	397
1,198	518	105	1,206	84	868	4,151	313	97	1,421	5,914	437
869	458	41	561	30	365	1,905	208	43	712	2,823	356
3,104	1,689	195	2,849	100	1,369	9,901	994	197	3,619	13,519	1,506
4,412	1,413	146	1,509	111	972	5,596	322	149	1,933	7,858	551
228	**123**	**61**	**751**	**50**	**571**	**4,334**	**182**	**58**	**1,045**	**6,157**	**367**
14	13	39	568	33	442	3,803	118	39	842	5,387	326
101	34	8	55	7	44	126	3	6	55	135	2
35	19	3	32	3	22	189	7	4	44	342	13
78	57	11	96	8	63	217	53	9	104	293	26
7,202	**4,131**	**876**	**7,881**	**765**	**6,203**	**16,105**	**1,224**	**817**	**9,253**	**19,056**	**1,495**
314	192	117	1,047	107	902	1,945	187	108	1,250	2,361	218
449	351	151	1,429	135	1,169	2,791	260	143	1,731	3,575	372
165	84	15	137	13	106	313	15	15	173	369	23
335	182	21	172	18	131	351	16	21	225	426	22
2,617	1,511	236	1,911	206	1,470	3,863	245	226	2,283	4,617	298
678	395	72	740	60	554	1,417	125	60	762	1,647	108
592	285	56	557	44	380	1,530	83	52	640	1,605	110
798	608	141	1,184	127	994	2,255	180	132	1,390	2,643	232
1,254	523	68	706	55	498	1,641	112	62	801	1,813	114
26,505	**11,932**	**1,334**	**9,659**	**1,157**	**7,253**	**19,671**	**457**	**1,307**	**11,354**	**23,426**	**608**
737	467	99	822	86	646	1,574	26	81	834	1,567	30
3,013	2,129	365	2,340	323	1,863	4,935	118	354	2,888	6,289	180
11,834	5,556	448	3,153	387	2,304	6,430	134	456	3,767	7,518	166
878	595	92	613	79	449	1,250	23	94	767	1,622	36
409	169	15	105	13	79	186	4	20	162	331	22
1,002	686	71	459	61	349	879	14	72	555	1,136	21
620	48	4	52	3	36	113	1	4	68	156	1
1,284	593	56	408	48	288	845	21	61	535	1,083	20
6,728	1,689	185	1,707	156	1,238	3,459	116	164	1,778	3,724	132
37,302	**7,056**	**692**	**7,425**	**595**	**5,795**	**16,223**	**1,563**	**698**	**8,905**	**18,079**	**2,028**
15,469	708	83	1,009	75	840	2,419	387	97	1,233	3,131	451
9,000	2,273	211	2,228	188	1,849	4,975	585	207	2,654	5,249	795
6,149	1,878	197	2,216	167	1,715	4,701	273	202	2,700	5,025	410
1,949	540	38	300	33	234	540	30	40	378	711	35
1,165	752	80	858	63	576	1,789	110	68	937	1,825	85
3,570	905	83	813	69	581	1,800	180	84	1,003	2,139	251
10,235	**3,588**	**464**	**4,448**	**384**	**3,192**	**8,922**	**389**	**473**	**5,623**	**11,631**	**596**
6,161	2,224	310	2,669	265	1,999	5,213	211	303	3,206	6,402	292
523	233	45	543	35	376	1,236	68	53	813	1,940	155
420	185	20	214	15	133	415	22	22	275	556	34
2,134	666	57	675	44	454	1,311	59	61	875	1,736	66
997	280	32	347	24	230	747	29	34	455	996	49
6,545	**3,999**	**629**	**8,943**	**486**	**6,323**	**22,171**	**3,295**	**645**	**11,706**	**29,688**	**5,226**
45	42	16	293	13	221	906	301	16	405	1,293	259
339	287	127	2,167	100	1,632	5,407	1,115	130	2,936	7,708	1,897
249	232	68	1,176	53	888	3,081	934	64	1,514	3,825	1,586
2,994	1,435	207	2,608	158	1,771	7,263	507	228	3,529	10,175	799
2,860	1,950	204	2,602	157	1,733	5,296	421	201	3,212	6,464	645
58	53	7	97	6	78	218	17	7	109	224	40

No. 1382. Manufactures Summary

[See headnote,

Industry code [1]	INDUSTRY GROUP	1967 Establishments (number)	1967 All employees Number [2] (1,000)	1967 All employees Payroll (mil. dol.)	1967 Value added by manufacture [3] (mil. dol.)	1972 Establishments (number)	1972 All employees Number [2] (1,000)	1972 All employees Payroll (mil. dol.)	1972 Value added by manufacture [3] (mil. dol.)
27	**Printing and publishing**	37,989	1,031	7,152	14,355	42,103	1,057	9,831	20,210
271	Newspapers	8,094	336	2,224	4,185	8,116	349	3,168	6,220
272	*Periodicals*	2,510	79	634	1,869	2,534	67	709	2,110
273	Books	1,766	97	688	1,967	1,905	98	919	2,540
274	Misc. publishing	1,493	31	197	418	2,041	39	331	776
275	*Commercial printing* [7]	19,497	331	2,358	3,944	22,282	344	3,277	5,695
276	Manifold business forms	542	34	240	551	667	39	344	824
277	Greeting card publishing [7]	222	28	151	372	199	24	192	527
278	Blankbooks and bookbinding	1,462	54	294	506	1,465	52	372	687
279	Printing trades services [7]	2,403	42	366	544	2,894	47	521	831
28	**Chemicals and allied products** [7]	11,799	841	6,443	23,550	11,425	837	8,731	32,414
281	Industrial inorganic chemicals [7]	2,032	246	2,090	7,737	1,049	100	1,079	3,343
282	Plastics materials, synthetics [7]	771	172	1,292	3,799	461	162	1,666	4,935
283	Drugs	1,129	118	942	4,073	1,078	130	1,413	6,131
284	Soap, cleaners, toilet goods [7]	2,508	97	684	3,930	2,573	112	1,058	6,201
285	Paints and allied products	1,701	66	492	1,319	1,599	66	647	1,792
286	Industrial organic chemicals	184	6	34	101	827	137	1,814	6,073
287	*Agricultural chemicals* [7]	1,278	46	281	1,006	1,233	48	438	1,737
289	Misc. chemical products [7]	2,196	88	628	1,587	2,605	83	814	2,203
29	**Petroleum and coal products**	1,880	142	1,216	5,426	2,016	140	1,638	5,793
291	Petroleum refining	437	107	965	4,745	323	101	1,247	4,595
295	Paving and roofing materials	1,098	27	186	456	1,199	30	297	846
299	Misc. petroleum and coal products	345	8	65	225	494	9	94	352
30	**Rubber and miscellaneous plastics products** [7]	6,456	517	3,287	6,800	9,237	618	5,165	11,653
301	Tires and inner tubes	182	93	775	1,823	206	108	1,214	3,071
302	Rubber, plastics footwear [7]	65	29	141	245	107	32	183	370
303	Reclaimed rubber	24	2	12	23	20	1	9	18
304	Rubber and plastics hose, belting	(NA)	(NA)	(NA)	(NA)	90	32	309	619
306	Fabricated rubber products, n.e.c. [7]	1,189	142	923	1,741	1,116	99	809	1,573
307	Misc. plastics products [7]	4,996	252	1,436	2,968	7,698	347	2,642	6,005
31	**Leather and leather products**	[5] 3,685	[5] 329	[5] 1,459	[5] 2,627	3,201	273	1,589	2,917
311	Leather tanning and finishing	519	31	186	319	517	26	200	368
313	Boot, shoe cut stock, findings	379	14	60	109	248	9	50	86
314	Footwear, except rubber	1,063	211	889	1,620	917	176	973	1,796
315	Leather gloves and mittens	147	6	22	36	106	5	22	43
316	*Luggage*	333	21	97	186	277	17	107	194
317	Women's handbags and purses	792	37	163	279	688	34	195	345
319	Leather goods, n.e.c. [7]	365	6	26	46	448	7	43	84
32	**Stone, clay, and glass products**	15,580	590	3,826	8,333	16,015	623	5,547	12,587
321	Flat glass	64	24	197	423	32	21	242	662
322	Glass, pressed or blown	305	109	688	1,501	369	119	1,058	2,341
323	Products of purchased glass	887	29	182	394	913	34	296	669
324	Cement, hydraulic	197	33	248	812	198	30	349	1,154
325	Structural clay products	851	60	344	612	775	52	391	771
326	Pottery and related products	619	43	247	419	620	45	335	601
327	Concrete, gypsum, plaster products	10,004	169	1,103	2,478	10,115	193	1,741	3,840
328	Cut stone and stone products	811	17	91	148	908	15	109	191
329	Misc. nonmetallic mineral products [7]	1,842	106	726	1,547	2,085	115	1,025	2,359
33	**Primary metal industries** [7]	6,837	1,281	9,851	19,978	6,792	1,143	12,167	23,258
331	Blast furnace and basic steel products	861	617	5,022	10,170	970	553	6,389	12,116
332	Iron and steel foundries	1,436	233	1,641	2,631	1,400	219	2,155	3,481
333	Primary nonferrous metals	144	53	405	1,382	177	59	627	1,706
334	Secondary nonferrous metals	403	17	123	271	361	18	170	411
335	Nonferrous rolling and drawing	833	195	1,438	3,325	903	188	1,871	3,800
336	Nonferrous foundries	1,886	90	609	1,068	1,841	81	722	1,269
339	Misc. primary metal products [7]	1,272	76	613	1,132	1,120	25	233	476

For footnotes, see pp. 776 and 777.

FOR INDUSTRY GROUPS: 1967 TO 1980—Continued

pp. 772 and 773]

1977								1980			
Establishments		All employees		Production workers		Value added by manufacture [3] (mil. dol.)	Capital expenditures, new [4] (mil. dol.)	All employees		Value added by manufacture [3] (mil. dol.)	Capital expenditures, new [4] (mil. dol.)
Total	With 20 or more employees	Number [2] (1,000)	Payroll (mil. dol.)	Number [2] (1,000)	Wages (mil. dol.)			Number [2] (1,000)	Payroll (mil. dol.)		
49,767	**9,132**	**1,092**	**14,025**	**626**	**7,322**	**31,980**	**1,598**	**1,263**	**18,643**	**44,375**	**2,613**
8,867	2,147	350	4,306	147	1,805	9,519	478	414	5,762	12,810	992
2,994	525	70	1,020	11	116	3,763	79	78	1,428	5,600	133
2,694	716	106	1,379	51	544	4,291	134	113	1,731	5,495	221
2,352	335	42	503	15	150	1,291	39	47	644	1,793	59
26,815	3,637	356	4,702	275	3,275	8,551	640	415	6,376	11,900	944
795	477	45	575	33	391	1,492	82	49	785	2,184	168
166	52	18	227	11	106	656	19	21	306	1,015	51
1,492	576	56	579	46	419	1,149	55	67	814	1,761	98
3,592	667	48	735	36	516	1,268	72	59	1,000	1,818	148
12,173	**4,602**	**880**	**13,839**	**544**	**7,446**	**56,721**	**8,199**	**910**	**18,269**	**73,385**	**8,763**
1,282	490	110	1,847	68	1,033	6,487	1,056	115	2,464	8,773	1,013
551	408	157	2,471	111	1,558	7,843	1,316	152	3,158	9,760	2,010
1,243	482	156	2,460	80	997	9,940	579	173	3,419	13,490	918
2,528	739	112	1,526	71	823	9,407	334	122	2,114	12,737	534
1,579	653	61	883	33	394	2,821	167	62	1,082	3,559	215
879	510	153	2,794	98	1,625	12,875	3,353	155	3,663	14,737	2,965
1,325	482	54	784	35	455	3,808	1,107	56	1,037	5,658	709
2,786	838	77	1,075	47	561	3,539	287	76	1,333	4,671	399
2,206	**773**	**147**	**2,716**	**101**	**1,765**	**16,378**	**2,261**	**149**	**3,615**	**24,816**	**3,615**
349	279	103	2,055	71	1,366	14,424	2,109	103	2,751	22,147	3,378
1,297	328	32	481	24	319	1,272	113	31	584	1,632	123
560	166	12	180	6	80	682	40	15	280	1,036	114
11,943	**5,294**	**721**	**8,536**	**564**	**5,842**	**19,740**	**1,645**	**703**	**10,141**	**22,569**	**2,087**
200	126	114	1,832	88	1,366	4,347	289	87	1,733	4,076	331
84	50	20	159	16	116	272	11	18	174	308	13
21	9	1	12	1	8	25	1	1	9	25	1
146	103	34	457	23	275	974	55	32	616	917	119
1,280	621	99	1,164	77	795	2,352	135	95	1,392	2,710	161
10,212	4,365	454	4,912	358	3,281	11,770	1,154	470	6,217	14,534	1,463
3,075	**1,486**	**243**	**1,860**	**212**	**1,408**	**3,719**	**96**	**232**	**2,200**	**4,851**	**148**
465	191	23	255	20	192	535	31	21	281	610	48
190	96	9	65	7	49	109	3	10	93	196	6
811	603	146	1,032	129	822	2,070	37	135	1,204	2,745	67
101	66	6	34	5	26	68	2	6	39	62	1
298	130	19	164	16	106	328	8	21	230	527	16
678	283	32	242	28	170	472	11	33	281	552	7
532	117	9	68	7	44	137	4	8	72	159	3
17,744	**5,201**	**614**	**7,943**	**484**	**5,767**	**19,130**	**1,881**	**613**	**10,062**	**24,051**	**3,038**
62	32	22	401	19	328	931	81	17	384	842	271
508	249	117	1,548	101	1,269	3,592	365	110	1,951	4,379	456
1,101	325	36	429	29	306	960	73	42	591	1,253	107
201	160	28	485	22	380	1,672	297	30	699	2,119	410
711	471	45	486	37	360	1,058	82	44	594	1,242	132
934	241	43	460	36	342	894	45	43	600	1,210	68
10,844	2,711	184	2,367	134	1,559	5,391	605	189	3,050	7,196	977
993	164	13	132	11	99	238	10	13	156	290	12
2,390	848	126	1,635	97	1,124	4,395	323	124	2,039	5,521	606
7,375	**3,980**	**1,114**	**18,745**	**885**	**14,065**	**37,568**	**4,497**	**1,096**	**23,556**	**47,619**	**5,496**
1,216	740	530	10,086	418	7,631	18,318	2,443	490	12,215	22,342	2,883
1,465	1,033	222	3,329	184	2,583	6,237	659	220	3,943	7,112	876
160	99	57	1,032	45	768	3,619	587	59	1,462	4,455	388
460	200	19	270	14	170	769	114	22	398	1,057	120
1,002	711	177	2,640	136	1,902	5,902	461	184	3,572	8,657	894
1,892	805	82	1,044	69	783	1,960	164	88	1,399	2,614	236
1,180	392	26	345	20	229	763	70	33	568	1,383	99

No. 1382. Manufactures Summary

[See headnote,

Industry code [1]	INDUSTRY GROUP	1967 Establishments (number)	1967 All employees Number [2] (1,000)	1967 All employees Payroll (mil. dol.)	1967 Value added by manufacture [3] (mil. dol.)	1972 Establishments (number)	1972 All employees Number [2] (1,000)	1972 All employees Payroll (mil. dol.)	1972 Value added by manufacture [3] (mil. dol.)
34	**Fabricated metal products [7]**	[5] 27,418	[5] 1,342	[5] 9,320	[5] 18,043	29,525	1,493	13,821	26,946
341	Metal cans, shipping containers [7]	299	60	474	1,142	553	79	840	2,005
342	Cutlery, handtools, hardware	1,939	156	1,043	2,318	1,904	159	1,405	3,253
343	Plumbing and heating, exc. electric [7]	838	65	428	872	757	61	524	1,132
344	Fabricated structural metal products	10,151	388	2,687	4,934	10,351	395	3,532	6,743
345	Screw machine products, bolts, etc	2,536	116	847	1,621	2,482	101	948	1,845
346	Metal forgings, stampings [7]	2,710	226	1,686	3,031	3,188	264	2,791	5,057
347	Metal services, n.e.c	4,684	81	481	864	4,761	82	624	1,120
348	Ordnance and accessories, n.e.c. [7]	(NA)	(NA)	(NA)	(NA)	315	110	1,015	1,507
349	Misc. fabricated metal products [7]	2,711	189	1,309	2,591	5,214	244	2,142	4,283
35	**Machinery, exc. electrical**	37,892	1,865	14,226	27,836	40,792	1,828	18,523	37,563
351	Engines and turbines	182	100	820	1,598	253	116	1,320	2,900
352	Farm and garden machinery	1,618	136	947	2,042	1,658	125	1,211	2,701
353	Construction and related machinery	2,305	273	2,041	4,130	2,517	275	2,856	5,962
354	Metalworking machinery	9,439	337	2,860	5,091	9,652	268	2,859	4,902
355	Special industry machinery	3,312	207	1,570	2,880	3,685	190	1,854	3,732
356	General industrial machinery	3,760	279	2,137	4,107	3,863	262	2,585	5,020
357	Office and computing machines	594	190	1,462	3,332	995	208	2,277	4,905
358	Refrigeration, service machinery	1,573	140	947	2,125	1,769	198	1,864	4,427
359	Misc. machinery, except electrical [7]	15,109	203	1,443	2,531	16,400	184	1,697	3,016
36	**Electric and electronic equipment [7]**	10,706	1,875	12,968	24,487	12,270	1,662	15,189	30,558
361	Electric distributing equipment [7]	1,218	176	1,230	2,509	784	116	1,040	2,060
362	Electrical industrial apparatus	1,316	207	1,420	2,792	1,510	188	1,665	3,218
363	Household appliances	637	169	1,101	2,540	645	163	1,369	3,563
364	Electric lighting and wiring equipment	1,868	157	950	2,214	1,897	177	1,414	3,277
365	Radio and TV receiving equipment	661	130	720	1,587	939	107	798	2,183
366	Communication equipment	1,402	525	4,397	6,993	1,976	454	4,912	8,453
367	Electronic components, accessories	2,439	403	2,435	4,359	2,867	336	2,869	5,306
369	Misc. electrical equipment, supplies	1,165	107	715	1,494	1,652	120	1,121	2,498
37	**Transportation equipment [7]**	7,483	1,834	15,174	28,174	8,802	1,719	19,880	39,799
371	Motor vehicles and equipment [7]	2,675	739	5,930	13,666	3,391	808	9,461	22,056
372	Aircraft and parts [8]	1,273	802	7,209	11,327	1,094	439	5,282	9,124
373	Ship and boat building and repairing	2,011	169	1,239	1,705	2,232	185	1,704	2,398
374	Railroad equipment	123	57	427	788	163	51	529	1,113
375	Motorcycles, bicycles, parts	91	12	70	136	222	18	140	315
376	Guided missiles, space vehicles	(NA)	(NA)	(NA)	(NA)	147	160	2,317	3,969
379	Misc. transportation equipment [7]	1,310	55	298	551	1,553	59	448	824
38	**Instruments and related products [7]**	4,453	394	2,822	6,418	5,983	453	4,286	10,580
381	Engineering, scientific instruments	677	46	327	617	743	37	365	681
382	Measuring and control devices [7]	766	104	732	1,392	1,611	153	1,437	2,724
383	Optical instruments and lenses [7]	303	21	163	284	494	19	193	384
384	Medical instruments and supplies	1,466	67	427	966	1,807	91	758	1,821
385	Ophthalmic goods	461	26	143	284	499	27	183	416
386	Photographic equip. and supplies	557	95	820	2,481	627	96	1,120	4,088
387	Watches, clocks, and watchcases	223	35	209	393	202	31	230	466
39	**Misc. manufacturing [7] [8]**	14,489	824	5,819	10,189	15,187	446	3,180	6,769
391	Jewelry, silverware, and plated ware	2,212	52	320	641	2,296	53	425	851
393	Musical instruments	343	25	144	238	344	25	173	339
394	Toys and sporting goods	2,435	116	559	1,205	2,460	133	881	1,999
395	Pens, office and art goods	959	35	200	412	966	32	244	557
396	Costume jewelry and notions	1,608	52	252	528	1,482	50	323	720
399	Misc. manufactures [7] [8]	6,932	544	4,345	7,163	7,639	153	1,134	2,303
(X)	**Administrative and auxiliary [9]**	5,460	831	8,728	(X)	8,039	994	13,772	(X)

NA Not available. X Not applicable. [1] Standard Industrial Classification Code; see text, p. 766. [2] "All employees" represents the average of "production workers" plus all other employees for the payroll period ended nearest the 15th of March. [3] See footnote 6, table 1377. [4] Includes expenditures for plants in operation and plants under construction but not yet in operation. [5] Includes industries not shown separately. [6] Value of production. The formula for computing value added by manufacture was modified to exclude any change in finished products inventories between beginning and end of year.

FOR INDUSTRY GROUPS: 1967 TO 1980—Continued

pp. 772 and 773]

1977								1980			
Establishments		All employees		Production workers		Value added by manufacture [3] (mil. dol.)	Capital expenditures, new [4] (mil. dol.)	All employees		Value added by manufacture [3] (mil. dol.)	Capital expenditures, new [4] (mil. dol.)
Total	With 20 or more employees	Number [2] (1,000)	Payroll (mil. dol.)	Number [2] (1,000)	Wages (mil. dol.)			Number [2] (1,000)	Payroll (mil. dol.)		
33,712	**12,739**	**1,556**	**21,036**	**1,192**	**14,429**	**45,512**	**2,606**	**1,617**	**26,701**	**57,918**	**3,919**
587	413	72	1,247	60	1,000	3,644	209	66	1,481	4,457	244
2,137	877	169	2,179	133	1,553	5,177	299	167	2,627	6,019	415
1,015	341	53	637	41	423	1,574	74	58	834	2,020	98
11,817	4,279	426	5,492	309	3,467	11,785	580	465	7,429	15,603	911
2,627	1,102	105	1,414	82	983	2,864	184	118	1,892	3,942	275
3,715	1,875	288	4,511	236	3,419	8,913	604	275	4,995	9,857	1,039
5,095	1,373	94	1,009	77	706	1,963	121	102	1,345	2,789	159
346	151	70	992	47	559	1,737	83	79	1,445	2,712	98
6,373	2,328	279	3,556	208	2,318	7,855	452	288	4,653	10,520	660
48,200	**12,446**	**2,083**	**30,558**	**1,414**	**18,298**	**67,223**	**4,402**	**2,411**	**44,604**	**99,435**	**7,934**
315	168	130	2,238	90	1,405	4,960	330	126	2,785	6,567	445
2,159	756	151	2,197	111	1,456	5,490	371	154	2,890	6,988	516
3,229	1,518	333	5,097	226	3,185	11,836	932	364	7,253	17,215	1,423
10,630	2,680	298	4,514	218	2,963	8,747	439	349	6,608	13,634	843
4,090	1,487	185	2,616	118	1,450	5,271	244	204	3,595	7,195	414
4,947	1,806	314	4,451	212	2,712	8,673	553	345	6,183	13,480	947
1,317	610	259	3,949	124	1,384	9,921	826	381	7,347	18,153	2,032
2,114	837	192	2,516	138	1,637	5,963	288	186	3,115	7,310	481
19,399	2,584	223	2,980	177	2,106	5,362	421	302	4,827	8,894	834
14,973	**6,338**	**1,723**	**22,544**	**1,191**	**12,952**	**50,366**	**2,867**	**1,963**	**32,453**	**73,150**	**6,162**
947	459	115	1,431	85	910	3,336	141	117	1,871	4,435	214
1,646	819	198	2,543	142	1,572	5,614	311	211	3,476	7,603	503
666	342	162	1,898	129	1,352	5,276	207	155	2,238	5,985	281
2,009	913	165	1,925	127	1,292	4,741	217	176	2,537	6,233	395
1,290	325	98	1,097	75	740	3,078	136	88	1,294	3,772	210
2,385	1,126	459	6,995	260	3,226	14,130	689	566	10,788	22,582	1,483
4,455	1,671	374	4,557	258	2,457	9,260	783	499	7,780	16,902	2,616
1,575	683	152	2,098	116	1,402	4,930	383	152	2,470	5,637	462
10,176	**3,653**	**1,768**	**30,673**	**1,284**	**20,314**	**64,291**	**4,671**	**1,771**	**38,844**	**76,482**	**8,002**
4,234	1,708	876	16,038	728	12,682	37,023	3,636	714	15,832	30,522	5,483
1,173	549	431	7,621	240	3,564	14,732	508	581	13,295	27,622	1,616
2,795	736	220	2,940	176	2,132	4,681	204	219	3,877	6,268	329
201	118	56	889	43	620	1,883	80	65	1,365	3,217	168
350	63	16	169	13	130	370	24	15	217	475	22
109	86	120	2,427	46	771	4,422	164	141	3,698	7,324	307
1,314	393	49	591	39	416	1,181	54	37	559	1,054	78
7,481	**2,538**	**559**	**7,520**	**347**	**3,743**	**18,762**	**939**	**616**	**10,672**	**27,913**	**1,701**
786	279	42	584	25	281	1,287	57	45	782	1,821	119
2,079	849	200	2,666	121	1,288	5,242	268	232	3,947	8,128	517
545	199	30	421	17	188	897	51	44	786	1,840	120
2,355	679	114	1,319	77	712	3,262	172	130	1,921	4,691	310
634	155	30	314	22	188	656	44	29	386	839	28
780	265	112	1,900	62	887	6,732	323	114	2,560	9,931	590
302	112	32	317	24	199	685	23	23	291	664	18
17,259	**3,794**	**441**	**4,406**	**339**	**2,745**	**10,291**	**474**	**429**	**5,374**	**12,704**	**732**
3,118	564	61	638	44	373	1,449	40	55	721	1,743	56
450	127	25	253	21	178	488	14	25	314	596	91
2,910	835	119	1,112	93	697	3,000	148	113	1,345	3,818	209
987	261	32	331	23	203	868	55	33	437	1,171	96
1,514	467	51	451	42	293	1,002	44	46	506	1,095	49
8,280	1,540	152	1,623	116	1,001	3,485	173	157	2,051	4,281	230
9,171	**4,856**	**1,074**	**21,981**	**(x)**	**(x)**	**(x)**	**(x)**	**1,335**	**33,916**	**(x)**	**(x)**

[1] Due to changes in industry classification, 1967 data not comparable with later data. [2] For 1967, includes ordnance from privately owned and/or operated establishments classified in "Ordnance and accessories." Excludes government-owned and -operated equipment. [3] Manufacturing concerns often reported separately for central offices or auxiliaries which serve the manufacturing establishments of a company, rather than the general public. Separate reports were obtained from such units if at a different location or if they serviced more than one establishment.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1967, 1972,* and *1977, General Summary,* MC67(1), MC72(1)-1, and MC77(1)-1, and *Annual Survey of Manufactures.*

No. 1383. Index of Manufacturing Capacity and Relation of Output to Capacity: 1950 to 1981

[**1967 output=100.** Annual figures are averages of quarterly data. Capacity represents estimated quantity of output, relative to output in 1967, which the *current* stock of plant and equipment in manufacturing industries was capable of *producing*. 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	Index of capacity	Relation of output to capacity (percent)			YEAR	Index of capacity	Relation of output to capacity (percent)		
		All manufacturing	Primary processing	Advanced processing			All manufacturing	Primary processing	Advanced processing
1950	54	83	89	80	1974	154	84	88	82
1955	67	87	92	84	1975	160	73	74	73
1960	82	80	80	81	1976	164	80	82	78
1965	100	90	91	89	1977	169	82	84	81
1967	115	87	86	88					
					1978	174	84	87	83
1968	122	87	88	87	1979	179	86	88	84
1969	129	86	89	85	1980	186	79	79	79
1970	134	79	83	77	1981	192	79	78	79
1971	138	78	82	76	1982: 1st qtr	195	72	69	73
1972	142	84	88	81	2nd qtr	192	70	66	72
1973	148	88	93	85					

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, November 1976, and *Capacity Utilization in Manufacturing and Materials*, G.3., monthly. (Based on data from Federal Reserve Board, U.S. Dept. of Commerce, U.S. Bureau of Labor Statistics, and McGraw-Hill Information Systems Company, New York, N.Y.)

No. 1384. Manufacturers' Shipments, Inventories, and Orders: 1960 to 1981

[**In billions of dollars, except ratios.** See also *Historical Statistics, Colonial Times to 1970*, series P 74-92]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Shipments, total	**370.5**	**491.9**	**633.7**	**1,017.5**	**1,039.1**	**1,185.6**	**1,358.4**	**1,523.4**	**1,727.2**	**1,851.0**	**1,994.6**
Durable goods [1]	190.6	266.7	338.3	530.7	523.9	608.3	711.2	814.2	912.7	930.5	1,001.0
Primary metals	31.3	44.0	52.0	95.6	80.8	93.0	103.2	118.1	137.4	133.9	136.8
Fabricated metal products	23.9	32.4	44.2	67.3	68.5	77.4	90.0	101.3	113.6	116.2	123.3
Machinery, except electrical	26.8	39.5	56.5	92.5	95.8	105.5	122.2	143.2	166.5	180.7	203.7
Electrical machinery	23.5	34.3	47.2	65.8	64.2	73.9	88.4	100.5	116.0	128.6	137.9
Transportation equipment	65.8	68.2	74.5	108.2	113.5	141.0	167.0	188.8	201.6	186.3	203.0
Nondurable goods [1]	179.9	225.3	295.4	486.8	515.3	577.4	647.2	709.3	814.5	920.5	993.6
Food and kindred prod	62.5	74.3	98.5	162.0	172.2	180.9	192.9	216.1	236.0	255.9	269.1
Chemicals and allied products	26.0	36.8	48.5	83.7	89.7	104.1	118.2	129.9	147.7	161.6	175.1
Petroleum and coal prod	16.8	19.1	24.9	58.9	69.5	82.3	97.5	103.9	148.4	198.7	220.3
Inventories, total (Dec. 31)	**53.6**	**68.0**	**101.2**	**157.6**	**159.8**	**174.9**	**188.4**	**209.1**	**239.1**	**261.5**	**280.1**
Durable goods	32.0	42.0	66.3	100.9	102.1	111.5	120.4	136.3	158.4	172.1	185.8
Nondurable goods	21.5	26.0	35.0	56.7	57.7	63.3	68.1	72.9	80.6	89.4	94.5
Ratio of inventories to sales [2]	**1.79**	**1.58**	**1.91**	**1.86**	**1.77**	**1.66**	**1.59**	**1.56**	**1.62**	**1.62**	**1.77**
Durable goods	2.13	1.78	2.35	2.32	2.28	2.04	1.94	1.87	2.11	2.14	2.38
Nondurable goods	1.44	1.34	1.40	1.37	1.26	1.24	1.20	1.18	1.10	1.10	1.18
New orders, total	**362.8**	**505.3**	**624.5**	**1,047.2**	**1,021.8**	**1,194.5**	**1,380.3**	**1,580.0**	**1,766.3**	**1,668.9**	**1,992.2**
Durable goods	183.6	279.5	328.7	562.2	504.2	616.8	732.9	868.9	952.7	948.7	999.3
Nondurable goods	179.2	225*9	295.8	485.0	517.6	577.7	647.4	711.1	815.5	920.1	992.9
Unfilled orders, total (Dec. 31)	**44.9**	**78.8**	**105.7**	**189.9**	**172.5**	**181.4**	**203.3**	**259.9**	**300.9**	**318.8**	**316.4**
Durable goods	42.4	75.0	101.1	184.5	164.9	173.4	195.1	249.9	289.9	308.1	306.4
Nondurable goods	2.5	3.8	4.6	5.3	7.6	8.0	8.2	10.0	11.0	10.7	10.0

[1] Includes other items not shown separately. [2] Ratio based on December seasonally adjusted data.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Manufacturers' Shipments, Inventories, and Orders: 1972-1980*, M3-1.10, and unpublished data.

No. 1385. Finances of Manufacturing Corporations: 1960 to 1981

[**In billions of dollars.** See tables 920 and 921 for individual industry data]

ITEM	1960	1965	1967	1970	1972	1974	1975	1976	1977	1978	1979	1980	1981
Net sales	346	492	575	709	850	1,061	1,065	1,203	1,328	1,496	1,742	1,897	2,145
Net operating profit	26	46	48	50	66	84	77	97	107	122	135	129	144
Net profit:													
Before taxes	28	47	48	48	63	97	80	105	115	133	154	145	159
After taxes	15	28	29	29	36	59	49	65	70	81	99	92	101
Cash dividends	8	12	13	15	16	19	20	23	27	29	32	36	40
Net income retained in business	7	16	16	14	20	39	29	42	44	52	66	58	61

Source: U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations*, first quarter report of year subsequent to reported year.

No. 1386. Operating Manufacturing Establishments—Selected Data, by Legal Form of Organization: 1977

[For establishment coverage, see text, p. 766. See also *Historical Statistics, Colonial Times to 1970*, series P 205-211]

Form of organization	Establishments [1] (1,000)	All employees: Total [2] (1,000)	All employees: Payroll (mil. dol.)	Production workers: Total [2] (1,000)	Production workers: Wages (mil. dol.)	Value added by manufacture [3] (mil. dol.)	Capital expenditures, new (mil. dol.)
Corporate	284.2	19,114	259,306	13,302	153,891	574,113	46,249
Noncorporate, total [4]	75.7	476	4,707	389	3,273	11,052	1,210
Individual proprietorship	52.3	202	1,840	174	1,322	3,961	300
Partnership	18.3	123	1,213	100	829	2,681	206

[1] Includes administrative offices and auxiliary units. [2] For method of calculation, see text, p. 765. [3] For definition, see footnote 6, table 1377. [4] Includes forms of organization not shown separately.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, vol. I, and special report, *Type of Organization*, MC 77(SR)-3.

No. 1387. Manufactures—Summary, by Employee Size-Class: 1977

Item	All establishments	Establishments with total employees—: Under 20	20-99	100-249	250-999	1,000 and over	Percent distribution: Under 20	20-99	100-249	250-999	1,000 and over
Establishments [1] (1,000)	351	237	78	22	12	2	67.5	22.3	6.1	3.4	.6
Employees [1] (1,000)	18,515	1,206	3,490	3,336	5,393	5,091	6.5	18.8	18.0	29.1	27.5
Payroll [1] (mil. dol.)	242,032	13,712	38,690	37,772	66,248	85,609	5.7	16.0	15.6	27.4	35.4
Value added [2] (mil. dol.)	585,166	30,081	89,829	92,232	172,607	200,417	5.1	15.4	15.8	29.5	34.2
Shipments [3] [4] (mil. dol.)	1,358,526	29,922	211,422	220,485	404,763	456,596	2.2	15.6	16.2	29.8	33.6

[1] Excludes administrative offices and auxiliary units. [2] For definition, see footnote 6, table 1377. [3] Individual size-class data do not add to total because they were derived from separate tabulations. [4] See footnote 7, table 1377.

No. 1388. Manufacturing Employment and Value Added—Percent Distribution, by Geographic Divisions: 1963 to 1980

[For composition of regions, see fig. 1, inside front cover. For definition of "value added," see table 1377]

Region	Employment: 1963	1967	1972	1977	1978	1980	Value added: 1963	1967	1972	1977	1978	1980
Northeast	32.4	30.7	27.9	25.8	25.1	25.4	29.8	29.1	26.3	23.7	23.4	(NA)
North Central	32.4	32.9	32.2	31.9	31.8	29.8	35.4	35.0	34.9	34.4	34.3	(NA)
South	22.9	24.2	27.5	28.3	28.6	29.2	21.5	22.7	25.5	27.4	27.4	(NA)
West	12.3	12.2	12.4	13.9	14.4	15.5	13.3	13.0	13.4	14.5	14.8	(NA)

NA Not available.

Source of tables 1387 and 1388: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972* and *1977: General Summary*, MC(1)-1; and *Annual Survey of Manufactures*.

No. 1389. Capital in Manufacturing Establishments: 1960 to 1981

[**In billions of dollars, except percent.** Minus sign (–) denotes decline. Data refer to privately owned manufacturing establishments and are based on the capital expenditures data from the census of manufactures, the Annual Survey of Manufactures, and the inventory investment component of GNP. For details, see source. See *Historical Statistics, Colonial Times to 1970*, series P 107-122, for single-year figures prior to revisions issued in 1981]

Item	Current dollars: 1960	1970	1975	1979	1980	1981	Constant (1972) dollars: 1960	1970	1975	1979	1980	1981
Purchases	10.8	23.8	39.8	74.1	86.9	96.4	15.6	25.9	30.4	44.5	49.8	51.9
Percent equipment	72.2	73.5	79.4	79.5	80.3	80.3	66.0	71.4	80.6	81.8	83.5	83.6
Depreciation (straight line) [1]	10.0	18.9	31.6	50.1	58.5	67.2	14.1	20.4	24.0	29.4	31.7	34.3
Percent equipment	73.0	74.1	73.7	76.8	77.1	78.6	68.1	72.5	75.0	78.6	79.8	81.0
Net investment [2]	.9	4.9	8.2	24.0	28.4	29.2	1.5	5.5	6.4	15.1	18.1	17.6
Percent equipment	55.6	71.4	101.2	85.0	51.8	84.2	40.0	67.3	101.6	88.1	90.1	88.6
Net value, end of year	152.2	299.6	509.1	815.4	928.9	1,030.2	210.3	315.1	359.8	420.1	439.5	460.2
Equipment and structures [3]	95.6	191.2	319.3	508.8	586.3	663.8	140.4	202.2	232.7	275.1	293.6	311.8
Percent equipment	57.2	58.7	62.1	64.5	65.5	67.1	51.2	57.3	62.0	66.6	68.1	69.3
Inventories	56.6	108.4	189.8	306.6	342.6	366.4	69.9	112.9	127.1	145.0	145.9	148.4

[1] Current dollars estimates derived by using perpetual inventory method and assuming, in general, service lives of 85 percent of those shown in Internal Revenue Service's Bulletin F. [2] Represents the difference between constant dollar purchases and depreciation. [3] Represents real net value of equipment and structures at preceding yearend plus net investment based on straight-line depreciation for year shown.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-79, Survey of Current Business*, October 1982, and unpublished data.

No. 1390. Large Manufacturing Companies—Adequacy of Capital Facilities to Meet Current Demand: 1965 to 1981

[**Percent distribution.** As of July. Number of companies weighted by company assets. Based on replies to the question: In view of the current rate of order bookings and customer inquiries, are your plant-and-equipment facilities now Inadequate, Sufficient, or More than adequate? as part of a quarterly survey conducted among the 1,000 largest manufacturing companies as listed by total assets]

YEAR	Inadequate	Sufficient	More than adequate	YEAR	Inadequate	Sufficient	More than adequate
1965	31	67	2	1974	57	40	3
1966	47	51	2	1975	19	43	38
1967	33	62	5	1976	18	65	17
1968	26	72	2	1977	20	66	14
1969	37	59	4	1978	20	62	18
1970	28	60	12	1979	20	69	11
1971	18	59	23	1980	12	57	31
1972	16	71	13	1981	9	51	40
1973	45	53	2				

Source: The Conference Board, New York, N.Y., *Quarterly Survey of Capital Investment and Supply Conditions in Manufacturing.* (Copyright.)

No. 1391. Large Manufacturing Companies—Capital Appropriations and Expenditures, by Industry: 1970 to 1981

[**In millions of dollars, except percent.** Based on reports submitted by companies responding to The Conference Board's *Quarterly Survey of Capital Appropriations.* This survey is conducted among the 1,000 largest manufacturing companies as listed by total assets. **Appropriations:** Authorizations by management to spend funds for new plant and equipment; **Expenditures:** Cost of new plant and equipment]

YEAR AND ITEM	Total	Food and beverages	Paper and allied products	Chemicals and allied products	Petroleum and coal products	Primary iron and steel	Electrical machinery and equip.	Machinery, except electrical	Motor vehicles and equipment	Other manufacturing
1970: Appropriations	25,337	1,587	1,034	3,036	5,704	1,534	2,584	3,098	1,276	5,484
Expenditures	26,321	1,598	1,046	3,143	5,559	1,746	2,408	3,093	1,689	6,039
Percent of appropriations	103.9	100.7	101.2	103.5	97.5	113.8	93.2	99.8	132.4	110.1
1975: Appropriations	45,034	3,573	1,902	7,466	13,986	3,102	1,978	3,748	1,015	8,264
Expenditures	45,557	3,081	1,905	7,172	11,907	3,552	2,227	4,014	1,808	9,891
Percent of appropriations	101.2	86.2	100.2	96.1	85.1	114.5	112.6	107.1	178.1	119.7
1976: Appropriations	50,034	3,834	1,585	7,906	11,231	2,897	2,853	5,001	3,517	11,210
Expenditures	47,055	3,666	2,073	7,486	12,551	3,552	2,445	4,442	1,701	9,139
Percent of appropriations	94.0	95.6	130.8	94.7	111.8	122.6	85.7	88.8	48.4	81.5
1977: Appropriations	63,420	4,966	2,648	7,854	17,527	2,516	3,189	5,105	5,268	14,347
Expenditures	52,498	3,882	1,825	7,545	14,350	3,048	3,064	4,747	3,321	10,716
Percent of appropriations	82.8	78.2	68.9	96.1	81.9	121.1	96.1	93.0	63.0	74.7
1978: Appropriations	67,156	4,898	2,795	7,759	15,142	3,083	4,421	6,306	6,981	15,771
Expenditures	58,356	4,217	2,140	7,797	14,495	2,671	3,668	5,445	4,508	13,415
Percent of appropriations	86.9	86.1	76.6	100.5	95.7	86.6	83.0	86.3	64.6	85.1
1979: Appropriations	88,519	6,640	3,979	10,725	19,526	3,559	5,859	10,236	8,129	19,866
Expenditures	73,126	5,037	3,018	9,309	16,876	3,243	4,918	8,400	5,335	16,990
Percent of appropriations	82.6	75.9	75.8	86.8	86.4	91.1	83.9	82.1	65.6	85.5
1980: Appropriations	104,631	6,603	3,576	12,170	32,875	2,889	6,544	9,368	7,110	23,496
Expenditures	88,209	6,014	3,859	10,918	22,228	3,458	6,271	9,826	5,555	20,080
Percent of appropriations	84.3	91.1	107.9	89.7	67.6	119.7	95.8	104.9	78.1	85.5
1981: Appropriations	106,956	5,772	5,010	12,019	36,904	5,210	5,787	12,700	3,489	20,065
Expenditures	101,341	6,744	3,746	11,785	31,578	3,405	6,069	11,289	6,688	20,037
Percent of appropriations	94.8	116.8	74.8	98.1	85.6	65.4	104.9	88.9	191.7	99.9

Source: The Conference Board, New York, N.Y., *Quarterly Survey of Capital Appropriations.* (Copyright.)

No. 1392. Exports and Export-Related Employment of Manufacturing Establishments: 1963 to 1980

[Includes only direct exports and products shipped to exporters or others for export. Excludes output of the supplying establishments that furnish parts or materials to the manufacturer producing the product exported. Therefore, estimates tend to understate the importance of the export trade for the domestic economy when compared to the total value of shipments of all manufacturers]

ITEM	Unit	1963	1971	1972	1976	1977	1980
Value of shipments, total	Bil. dol.	420.5	671.0	756.5	1,185.7	1,358.4	1,849.1
For export	Bil. dol.	16.5	33.1	36.7	83.1	85.8	155.1
Percent of total	Percent	3.9	4.9	4.8	7.0	6.3	8.3
Manufacturing employment, total [1]	1,000	16,958	18,363	19,027	18,753	19,590	20,662
Export related	1,000	(NA)	746	770	1,173	1,106	1,505
Percent of total	Percent	(NA)	4.1	4.0	6.3	5.6	7.3

NA Not available. [1] Includes employees of central administrative and auxiliary offices.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963, 1967, 1972,* and *1977;* and *Annual Survey of Manufactures.*

No. 1393. Exports Shipments and Export-Related Employment of Manufacturing Establishments, Selected States: 1980

[See headnote, table 1392 and footnote 1 of same table concerning employment figures. Represents States with export-related employment of 30,000 or more]

STATE	VALUE OF SHIPMENTS (mil. dol.)		EMPLOYMENT (1,000)		STATE	VALUE OF SHIPMENTS (mil. dol.)		EMPLOYMENT (1,000)	
	Total	For exports	Total	Export related		Total	For exports	Total	Export related
U.S. [1]	**1,849,101**	**155,103**	**20,662**	**1,505**	Michigan	92,607	8,817	1,019	76
California	176,709	16,530	2,078	193	New Jersey	68,565	4,409	813	45
Connecticut	28,043	2,865	463	38	New York	112,182	9,168	1,544	90
Florida	33,286	3,490	452	44	North Carolina	56,096	4,540	820	47
Georgia	43,209	2,425	525	32	Ohio	113,573	10,406	1,254	105
Illinois	119,871	10,245	1,274	89	Pennsylvania	108,218	7,580	1,343	87
Indiana	63,422	4,653	654	44	Texas	160,040	10,492	1,053	78
Massachusetts	43,625	4,719	695	57	Washington	35,502	6,738	313	59
					Wisconsin	50,035	3,850	551	43

[1] Includes States not shown separately.

Source: U. S. Bureau of the Census, *Annual Survey of Manufactures, Origin of Exports of Manufactured Products.*

No. 1394. Exports and Export-Related Employment of Manufacturing Establishments, by Industry: 1980

[See headnote, table 1392 and footnote 1 of same table concerning employment figures]

INDUSTRY GROUP	VALUE OF SHIPMENTS (mil. dol.)		MANUFACTURING EMPLOYMENT (1,000)		INDUSTRY GROUP	VALUE OF SHIPMENTS (mil. dol.)		MANUFACTURING EMPLOYMENT (1,000)	
	Total	For exports	Total	Export related		Total	For exports	Total	Export related
Manufacturing, total	**1,849,101**	**155,103**	**20,662**	**1,505**	Rubber, misc. plastics products	47,875	2,437	710	32
Food and kindred products	256,744	11,200	1,537	47	Leather, leather products	9,896	513	235	7
Tobacco manufactures	11,893	1,842	56	13	Stone, clay, glass products	46,324	1,654	615	21
Textile mill products	47,456	2,562	817	36	Primary metal industries	134,283	10,999	1,100	64
Apparel, other textile prod	45,848	1,421	1,305	33	Fabricated metal products	115,935	6,230	1,613	85
Lumber and wood products	47,266	3,200	698	26	Machinery, exc. electrical	180,706	34,081	2,415	386
Furniture, fixtures	22,280	394	473	8	Elec., electronic equipment	128,413	14,672	1,961	226
Paper and allied products	72,597	4,037	646	25	Transportation equipment	185,881	27,665	1,772	252
Printing, publishing	69,482	1,065	1,260	13	Instruments and related products	44,271	7,213	619	100
Chemicals, allied products	163,645	18,841	915	96	Misc. manufacturing	24,943	2,692	430	33
Petroleum, coal products	193,364	2,388	151	3					

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, Origin of Exports of Manufactured Products.*

No. 1395. U.S. Share of World Exports of Manufactures: 1960 to 1981

[World exports=exports from 15 major trading countries: U.S., Austria, Belgium-Luxembourg, Canada, Denmark, France, Fed. Rep. of Germany, Italy, Japan, Netherlands, Norway, Sweden, Switzerland, and U.K. Percents are calculated from the values of exports of the six commodity groups from each of the 15 countries. Percentage shares are based on values excluding shipments to the United States and are based on current exchange rates. Beginning in 1978, detail for all countries except Canada and Japan are reported according to Revision 2 instead of Revision 1 of the United Nations Standard International Trade Classification (SITC). Canadian data are reported according to Revision 2 in 1979]

YEAR	U.S. MANUFACTURES EXPORTS [1]		PRODUCT CATEGORY	U.S. MANUFACTURES EXPORTS [1]							
				Total (bil. dol.)				Percent of world exports			
	Total (bil. dol.)	Percent of world exports		1978	1979	1980	1981	1978	1979	1980	1981
			Total	**94.5**	**116.7**	**144.0**	**154.3**	**17.0**	**17.4**	**18.3**	**20.7**
1960	12.7	25.3	Nonelectrical machinery	27.4	33.2	41.9	47.6	23.0	23.9	25.1	28.9
1965	17.3	22.5	Transport equipment	22.2	25.8	28.8	32.8	22.4	22.7	23.2	24.8
1970	29.4	21.1	Chemicals	12.6	17.3	20.7	21.2	17.3	17.9	18.9	20.6
1975	71.0	19.1	Electrical machinery	9.7	11.6	13.9	15.4	17.8	18.5	19.2	21.7
1976	77.2	18.8	Basic manufactures [2]	12.5	16.2	22.3	20.6	8.7	9.2	10.7	11.5
1977	80.2	17.3	Misc. articles [3]	10.2	12.6	16.3	16.7	15.0	15.1	16.3	17.4

[1] Excludes mineral fuel products, processed food, fats, oils, firearms of war, and ammunition. [2] Includes semimanufactures of various materials, such as metals, fibers, wood, glass, leather, rubber, and certain finished products of metal. [3] Includes mainly nondurable consumer goods and professional and scientific instruments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Business America*, biweekly, and *Market Share Reports*, annual.

No. 1396. Manufacturing Commodity Groups—Import Penetration as Percent of New Supply and Related Employment: 1972 to 1981

[Represents manufacturing commodity groups with average levels of import penetration of 15 percent or more. Employment represents industry employment related to "import-sensitive" groups; in many cases, the industry employment series are not that well matched to the import groups. The industry coverage may be broader or narrower than that implied by the import product group; some industry employment series are related to more than one import group. For more detail regarding methodology and limitations of data, see source. N.e.s.=Not elsewhere specified]

Industry code [1]	INDUSTRY GROUP	IMPORTS AS A PERCENT OF NEW SUPPLY		ANNUAL AVERAGE EMPLOYMENT (1,000)		
		1972	1979	1972	1979	1981
	Food and kindred products:					
2061–3	Cane or beet sugar, syrup, and molasses; beet pulp	22.5	18.5	37.1	30.7	31.7
2066, 7, 99	Chocolate and cocoa products	11.0	29.2	20.7	20.5	19.7
2084	Wines, brandy, and brandy spirits	21.3	26.2	10.5	13.2	14.4
2085	Distilled, rectified, and blended liquors, except brandy	24.9	24.3	22.8	19.0	17.4
	Textile mill products:					
2253	Outerwear, n.e.s., of textile materials	16.3	20.0	77.6	70.5	71.5
2271	Floor coverings, textile materials, pile inserted	11.3	24.3	62.2	60.5	52.6
2279	Floor coverings, n.e.s., of textile or vegetable materials	30.9	57.2			
2299	Textile mill products, n.e.s	59.0	46.2	36.3	36.8	35.6
2298	Cordage	21.5	23.4	10.9	10.3	9.1
2292	Lace goods, n.e.s	21.7	27.7	(NA)	(NA)	(NA)
	Apparel and other textile products:					
2381	Gloves, except sports, leather, or fur gloves	13.8	24.1	14.0	14.5	11.1
2385	Rainwear	20.2	40.6	17.8	12.2	11.8
2386	Leather wearing apparel, n.e.s	34.6	50.4	21.5	20.1	24.3
	Lumber and wood products:					
2421	Lumber and other sawmill and planing mill products, except dimension hardwood	16.3	16.9	182.0	196.4	171.5
2429	Woodshingles, cooperage stock, and excelsior	26.6	34.1	6.1	6.5	4.9
2435	Hardwood, plywood, and veneer	31.3	33.1	30.9	27.9	24.8
2833	Medicinals and botanicals	22.0	21.7	14.8	17.2	18.6
3021	Footwear, rubber or plastic	33.9	69.2	28.7	22.7	22.2
	Leather and leather products:					
3143; 3149	Men's footwear, except athletic	14.7	20.4	63.8	57.9	57.2
3149	Leather ski boots and other leather athletic footwear	31.6	51.2	32.3	23.5	23.0
3171	Women's handbags and purses	20.6	38.5	19.9	18.5	17.5
3144	Women's footwear, except athletic	18.9	33.5	86.6	59.3	52.9
3151	Gloves, leather	22.3	31.0	14.0	14.5	13.6
3161	Luggage of leather, textile materials, plastics	15.4	24.4	17.3	17.7	15.0
3172	Flat goods of leather and other materials	14.0	20.1	13.0	14.3	12.6
	Stone, clay, and glass products:					
3263	Earthenware tableware	51.2	70.0	10.4	9.7	9.4
3262	China tableware	41.0	41.0			
3269	Ceramic articles, n.e.s	33.7	40.6	12.0	14.6	12.5
3253	Ceramic floor and wall tile	22.9	32.2	18.8	15.6	13.2
	Primary metal industries:					
3339; 3341	Smelter and refined nonferrous metals, n.e.s	50.0	62.6	8.2	10.7	11.8
3333; 3341	Smelter and refined zinc	28.5	37.4	26.8	34.3	31.4
3313	Electro- metallurgical products	19.7	31.1	15.1	15.0	13.1
	Machinery, except electrical:					
3574	Calculating and accounting machines, excluding parts	40.1	40.6	45.2	36.2	38.3
3572	Typewriters and parts, n.e.s	16.3	18.5			
3552	Textile machinery, and parts, n.e.s	36.6	33.2	35.5	26.9	26.2
	Electric and electronic equipment:					
3636	Sewing machines and parts, n.e.s	50.9	41.3	35.1	36.9	31.8
3651	Radio and TV receiving sets, phonos, and audio equip., n.e.s	34.9	42.1	114.5	87.5	82.2
3674	Semiconductors, rectifiers, and rectifying apparatus	11.5	23.2	115.2	201.1	224.6
3699	Electrical articles and electrical parts of articles	17.5	20.3	14.0	14.7	14.0
	Transportation equipment:					
3711, 3	Motor vehicles and passenger car, truck, and bus bodies	13.6	18.3	461.3	509.1	389.5
3751	Motorcycles, bicycles, and parts, n.e.s	65.1	52.4	18.2	19.5	16.8
	Instruments and related products:					
3873	Watches, clocks, clockwork operated devices, and parts	21.1	39.9	29.6	27.7	20.1
3832	Optical instruments and lenses, and parts, n.e.s	17.1	15.9	17.6	31.6	33.4
3851	Ophthalmic goods and parts, n.e.s	12.4	20.5	37.1	45.1	40.7
3811	Surveying and drafting instruments, balances, n.e.s.; measuring equipment, n.e.s	12.5	19.0	64.5	72.4	78.5

NA Not available. [1] Standard Industrial Classification Code; see text, p. 766.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, August 1982.

No. 1397. Fuels and Electric Energy Used in Manufacturing Industries: 1958 to 1980

[**Btu=British thermal unit.** For definition of Btu, see headnote, table 971]

INDUSTRY GROUP AND TYPE OF ENERGY	Unit	1958	1962	1967	1975	1976	1977	1978	1979	1980
ENERGY USED										
All manufacturing industries [1]	**Tril. Btu**	**8,248**	**9,811**	**11,810**	**12,084**	**12,776**	**12,888**	**12,901**	**12,869**	**11,874**
Chemicals and allied products	Tril. Btu	1,542	1,877	2,460	2,806	3,017	2,983	2,900	2,895	2,717
Primary metals	Tril. Btu	1,769	2,303	2,422	2,240	2,361	2,560	2,689	2,685	2,277
Paper and allied products	Tril. Btu	806	929	1,156	1,210	1,295	1,307	1,301	1,300	1,278
Petroleum and coal products	Tril. Btu	932	1,145	1,394	1,333	1,292	1,238	1,123	1,245	1,178
Stone, clay, and glass products	Tril. Btu	945	1,056	1,229	1,160	1,220	1,251	1,300	1,266	1,122
Food and kindred products	Tril. Btu	766	803	900	914	938	956	980	949	948
Fabricated metal products	Tril. Btu	190	213	298	368	381	394	400	386	359
Machinery, exc. electrical	Tril. Btu	210	235	311	328	330	340	351	352	334
Lumber and wood products	Tril. Btu	90	118	188	229	244	228	231	223	199
Printing and publishing	Tril. Btu	41	50	66	87	86	92	92	90	88
TYPE OF ENERGY										
Purchased fuels and elec. energy [1]	**Tril. Btu**	**8,248**	**9,811**	**11,810**	**12,084**	**12,776**	**12,888**	**12,901**	**12,869**	**11,874**
Cost	Mil. dol	5,067	6,184	7,692	23,291	28,139	33,335	37,613	42,714	48,205
Fuels	Mil. dol	2,836	3,361	3,975	12,978	15,960	18,818	20,618	23,651	26,435
Electric energy	Mil. dol	2,231	2,823	3,717	10,313	12,179	14,517	16,995	19,063	21,770
Coal	Tril. Btu	2,143	2,343	1,967	1,169	1,255	1,329	1,349	1,325	1,310
Cost	Mil. dol	638	640	552	1,310	1,344	1,494	1,685	1,760	1,869
Fuel oil [2]	Tril. Btu	969	1,209	1,092	1,726	1,978	2,125	2,120	1,562	1,160
Cost	Mil. dol	523	623	536	3,519	3,986	4,886	4,846	4,657	4,757
Gas	Tril. Btu	3,187	4,411	5,434	5,944	5,999	5,700	5,603	5,971	5,670
Cost	Mil. dol	901	1,456	1,749	5,653	7,532	8,875	9,861	12,340	14,742
Purchased electric energy	Tril. Btu	863	1,071	1,459	2,036	2,184	2,263	2,306	2,338	2,245
Cost	Mil. dol	2,231	2,823	3,717	10,313	12,179	14,517	16,995	19,063	21,770

[1] Includes industries and items not shown separately. [2] Includes fuel-oil related products.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972* and *1977;* and *Annual Survey of Manufactures.*

No. 1398. Energy Consumption per Constant Dollar of Value Added for Selected Industries: 1971 to 1977

[**1,000 Btu's per 1972 dollar.** Includes basic industries. Industries selected on the basis of both total energy consumed and energy intensiveness; industries account for about 60 percent of total manufacturing energy consumption and about 8 percent of total manufacturing value added; see source for details. Consumption values include estimates of externally generated energy as well as purchased fuels and electric power. Minus sign (–) denotes decrease]

YEAR	Total economy [1]	All manufacturing	8-industry groups	Paper	Paperboard	Inorganic chemicals	Organic chemicals [2]	Petroleum refining	Cement	Steel	Aluminum
1971	61.6	52.5	373.9	316.2	458.8	245.8	277.9	631.4	421.4	314.5	418.5
1974	59.7	46.2	337.8	291.1	461.3	218.9	241.7	635.8	435.9	262.4	406.8
1975	58.8	46.6	353.4	319.3	503.7	210.8	244.8	613.7	442.9	282.4	401.0
1976	58.5	44.1	338.1	317.7	470.6	212.2	227.4	590.9	432.7	274.7	372.1
1977	57.1	42.3	329.2	308.7	464.8	203.3	193.9	573.7	411.2	282.7	379.9
AVERAGE ANNUAL PERCENT CHANGE											
1971–1974	–1.0	–4.0	–3.2	–2.6	.2	–3.6	–4.3	.2	1.1	–5.5	–.9
1974–1975	–1.5	.9	4.6	9.7	9.2	–3.7	1.3	–3.5	1.6	7.5	–1.4
1975–1976	–.5	–5.4	–4.3	–.5	–6.6	.7	–7.1	–3.7	–2.3	–2.7	–7.2
1976–1977	–2.4	–4.1	–2.6	–2.8	–1.2	–4.2	–14.7	–2.9	–5.0	2.9	2.1

[1] Total gross energy consumption per constant dollar of GNP. [2] Excludes petrochemical feedstocks.

Source: U.S. Bureau of Industrial Economics, *Industrial Economics Review,* Summer 1980.

No. 1399. Percent Share of Value Added by Manufacture for Largest Companies in Manufacturing, 1947 to 1977, and of Employees and Shipments, 1963 to 1977

[**Percent of total manufacturing.** Companies ranked on value added by manufacture; companies in each group are not identical for all years. See also *Historical Statistics, Colonial Times to 1970,* series P 177–180]

ITEM	VALUE ADDED						EMPLOYMENT [1]			SHIPMENTS [2]		
	1947	1954	1963	1967	1972	1977	1963	1972	1977	1963	1972	1977
Largest 50 companies	17	23	25	25	25	18	19	19	24	25	24	25
Largest 100 companies	23	30	33	33	33	25	25	26	33	34	33	35
Largest 150 companies	27	34	37	38	39	30	29	31	40	38	39	41
Largest 200 companies	30	37	41	42	43	34	32	35	44	42	43	45

[1] Includes central administrative offices and auxiliaries. [2] See footnote 7, table 1377.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, Concentration Ratios in Manufacturing,* MC77-SR-9.

No. 1400. Percent of Shipments Accounted for by Large Manufacturing Companies, Selected Industries: 1972 and 1977

[First 32 industries (excluding those classified as "Miscellaneous" or "Not elsewhere classified") as determined by value added by manufacture in 1972 of $2 billion or more. Industry codes and descriptions are based on the 1972 *Standard Industrial Classification Manual* (SIC), see text, p. 766. Determination of company affiliation of establishment is based on census reports and publicly available records. "Largest" companies are determined by each company's value added by manufacture *in the specified industry*. Industries in the "not elsewhere classified" category are omitted, regardless of their value added]

Industry code	INDUSTRY	Year	Number of companies	Value added by manufacture [1] (mil. dol.)	Total value of shipments [2] (mil. dol.)	PERCENT OF SHIPMENTS, RANKED BY COMPANY SIZE: 4 largest	8 largest	20 largest	50 largest
3711	Motor vehicles and car bodies	1972	165	11,783	42,906	93	99	99+	99+
		1977	254	18,724	76,518	93	99	99+	99+
3312	Blast furnaces and steel mills	1972	241	10,305	23,947	45	65	84	96
		1977	395	15,332	41,998	45	65	84	95
3714	Motor vehicle parts and accessories	1972	1,748	9,165	18,334	61	69	78	86
		1977	2,194	16,264	35,751	62	70	79	86
2711	Newspapers	1972	7,461	6,220	8,263	17	28	43	60
		1977	7,821	9,519	13,056	19	31	45	62
3662	Radio and TV communications equipment	1972	1,524	5,803	9,140	19	33	58	77
		1977	1,873	9,938	14,886	20	33	57	73
2834	Pharmaceutical preparations	1972	680	5,640	7,150	26	44	75	91
		1977	655	8,214	11,459	24	43	73	91
3721	Aircraft	1972	141	5,083	8,779	66	86	99	99+
		1977	151	8,134	14,834	59	81	99	99+
2911	Petroleum refining	1972	152	4,595	25,921	31	56	84	95
		1977	192	14,424	91,689	30	53	81	94
3861	Photographic equipment and supplies	1972	555	4,088	5,624	74	85	92	95
		1977	702	6,732	9,945	72	86	90	94
2051	Bread, cake, and related products	1972	2,800	3,518	6,132	29	39	50	62
		1977	2,549	5,370	9,275	33	40	54	68
3585	Refrigeration and heating equipment	1972	655	3,517	7,084	40	53	70	85
		1977	731	4,469	9,638	41	51	67	82
3573	Electronic computing equipment	1972	518	3,419	6,471	51	63	78	90
		1977	808	7,624	12,924	44	55	71	85
2752	Commercial printing, lithographic	1972	8,160	3,159	5,125	4	8	15	24
		1977	10,964	5,338	9,360	6	10	17	26
3531	Construction machinery	1972	644	3,131	6,091	43	54	72	86
		1977	807	5,744	12,629	47	59	75	86
3011	Tires and inner tubes	1972	136	3,071	5,747	73	90	98	99+
		1977	121	4,347	8,971	70	88	97	99+
2011	Meatpacking plants	1972	2,291	2,968	23,003	22	37	51	66
		1977	2,404	4,010	31,208	19	37	49	62
3761	Guided missiles and space vehicles	1972	23	2,949	4,124	62	88	(D)	100
		1977	20	3,565	5,314	64	94	100	(X)
2621	Papermills, exc. building paper	1972	194	2,909	6,385	24	40	66	88
		1977	171	5,407	12,613	23	42	70	92
2421	Sawmills and planing mills, general	1972	7,664	2,907	6,421	18	23	33	45
		1977	6,966	4,453	10,867	17	23	36	49
2844	Toilet preparations	1972	593	2,834	4,053	38	53	74	91
		1977	644	4,527	6,557	40	56	74	90
3465	Automotive stampings	1972	388	2,664	5,286	69	72	79	87
		1977	495	4,655	9,739	65	70	77	84
3661	Telephone, telegraph apparatus	1972	157	2,650	4,525	(D)	(D)	98	99+
		1977	206	4,192	7,858	(D)	89	94	98
2026	Fluid milk	1972	2,025	2,552	9,396	18	26	42	56
		1977	1,516	3,176	13,786	18	28	43	60
2086	Bottled and canned soft drinks	1972	2,273	2,337	5,454	14	21	32	44
		1977	1,758	4,085	10,007	15	22	36	50
3321	Gray iron foundries [3]	1972	893	2,257	3,877	34	45	59	71
		1977	865	4,071	7,389	34	44	60	73
3523	Farm machinery and equipment	1972	1,465	2,248	4,530	47	61	69	78
		1977	1,868	4,854	10,282	46	61	70	78
2111	Cigarettes	1972	7	[4] 2,188	[4] 3,745	(D)	(D)	(X)	(X)
		1977	8	[4] 3,803	[4] 6,377	(D)	(D)	(X)	(X)
2821	Plastics materials and resins	1972	193	2,161	4,478	26	41	65	90
		1977	221	4,143	10,818	22	37	60	87
2721	Periodicals	1972	2,451	2,110	3,511	26	38	54	69
		1977	2,860	3,763	6,057	22	35	52	67
2824	Organic fibers, noncellulosic	1972	36	2,040	3,639	74	91	99+	100
		1977	37	2,804	6,380	78	90	99	100
2841	Soap and other detergents	1972	577	2,039	3,394	62	74	85	92
		1977	554	2,868	5,671	59	71	82	89
2751	Commercial printing, letterpress	1972	13,040	2,015	3,306	14	19	26	35
		1977	14,375	2,441	4,284	14	19	25	31

D Withheld to avoid disclosure. X Not applicable. [1] See footnote 6, table 1377. [2] See footnote 7, table 1377. [3] Includes foundries producing gray-iron castings for other plants of the same company. Accordingly, percentages do not reflect market shares in industry as such. [4] Value of production reported instead of value of shipments; therefore, formula for computing adjusted value added modified to include only changes in work-in-process inventories between beginning and end of year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977, Concentration Ratios in Manufacturing*, MC77-SR-9.

No. 1401. Beverage Industry—Summary: 1965 to 1980

Year and item	Unit	Total	Malt beverages	Malt	Wine, brandy, brandy spirits	Distilled liquor, exc. brandy	Soft drinks (bottled, canned)	Flavoring, extracts, sirups
1965: Employees	1,000	210	60	2	6	19	114	9
Payroll	Mil. dol	1,348	488	16	42	126	614	63
Value added by manufacture	Mil. dol	4,152	1,360	51	167	713	1,373	488
Value of shipments	Mil. dol	7,728	2,497	204	396	1,288	2,505	837
1970: Employees	1,000	228	57	2	9	21	129	11
Payroll	Mil. dol	1,884	616	19	71	171	918	91
Value added by manufacture	Mil. dol	6,144	2,028	58	258	887	2,121	792
Value of shipments	Mil. dol	12,373	3,822	210	591	1,758	4,631	1,361
1975: Employees	1,000	204	47	2	11	16	117	11
Payroll	Mil. dol	2,418	726	24	131	198	1,210	129
Value added by manufacture	Mil. dol	8,110	2,008	122	500	1,056	3,321	1,103
Value of shipments	Mil. dol	20,396	5,641	591	1,197	2,004	8,602	2,361
1979: Employees	1,000	202	44	2	12	15	119	10
Payroll	Mil. dol	3,437	1,052	38	178	260	1,751	158
Value added by manufacture	Mil. dol	12,328	3,191	135	765	1,585	5,016	1,661
Value of shipments	Mil. dol	29,343	8,353	538	1,954	2,996	12,544	2,958
1980: Employees	1,000	197	43	2	11	14	118	10
Payroll	Mil. dol	3,619	1,122	40	191	253	1,850	164
Value added by manufacture	Mil. dol	13,519	3,639	162	811	1,849	5,348	1,709
Value of shipments	Mil. dol	32,724	9,362	680	2,189	3,389	13,909	3,196

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures.*

No. 1402. Alcoholic Beverages—Summary: 1960 to 1981

[For years ending **June 30** except, beginning **1977,** ending **Sept. 30.** Includes Puerto Rico. Excludes imports. See *Historical Statistics, Colonial Times to 1970,* series P 235 for beer production, and P 236a for distilled spirits]

Item	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Beer: Breweries operated	Number	229	197	154	117	96	95	89	86	86	92
Production	Mil. bbl.[1]	95	108	135	158	161	170	176	184	193	195
Imports (incl. ale, etc.)[2]	Mil. bbl.[1]	(NA)	(NA)	(NA)	1.7	2.4	2.6	3.1	4.1	4.6	5.2
Value of shipments (SIC 2082)[3]	Mil. dol	(NA)	2,470	3,822	5,641	6,025	6,653	7,539	8,353	9,362	(NA)
Tax-paid withdrawals	Mil. bbl.[1]	89	100	123	147	149	156	160	167	172	177
Stocks on hand, June 30	Mil. bbl.[1]	11	13	15	14	14	14	14	14	15	14
Per capita consumption[4]	Gallons	24.0	25.5	28.6	32.8	31.2	32.3	33.1	34.0	34.9	35.6
Of domestic output	Gallons	23.9	25.3	28.4	32.4	30.8	31.8	32.4	33.1	34.0	34.5
Distilled spirits:											
Production facilities operated	Number	178	153	140	115	107	96	101	135	143	114
Warehouses operated	Number	241	268	274	241	233	222	220	210	200	198
Production, total[5]	Mil. tax gal.[6 7]	273	276	355	278	234	225	268	246	236	259
Whisky	Mil. tax gal.[6 7]	150	118	160	50	79	82	71	104	87	90
Tax-paid withdrawals, total[5]	Mil. tax gal.[6 7]	178	205	256	295	304	296	321	318	330	321
Whisky	Mil. tax gal.[6 7]	84	90	112	137	135	126	136	125	42	(NA)
Stocks on hand, June 30, total[5]	Mil. tax gal.[6 7]	932	990	1,091	836	782	726	670	659	696	691
Whisky	Mil. tax gal.[6 7]	814	841	960	780	723	668	611	596	566	544
Bottled for consumption, total	Mil. wine gal.[9]	204	244	312	357	369	361	390	379	392	387
Whisky	Mil. wine gal.[9]	147	161	192	182	179	166	170	166	165	159
Per capita[4]	Wine gal.[9]	1.87	2.13	2.61	2.49	2.11	2.67	2.78	2.70	2.90	2.91
Of domestic output	Wine gal.[9]	1.54	1.66	1.91	1.75	2.00	1.93	2.02	1.96	2.00	1.98
Still wines: Production[10]	Mil. wine gal.[9]	511	565	713	782	768	771	731	739	982	901
Tax-paid withdrawals[11]	Mil. wine gal.[9]	148	163	204	287	303	306	313	326	340	363
Stocks on hand, June 30[12]	Mil. wine gal.[9]	143	157	207	325	325	392	431	485	486	602
Per capita[4]	Wine gal.[9]	1.36	1.44	1.70	2.20	2.40	2.45	2.54	2.60	2.65	2.69
Of domestic output	Wine gal.[9]	1.28	1.32	1.52	1.96	1.95	2.35	2.01	2.02	2.02	2.03
Effervescent wines:[13]											
Production	Mil. wine gal.[9]	4.1	6.4	20.0	18.0	20.2	21.2	23.8	24.4	26.8	31.2
Tax-paid withdrawals	Mil. wine gal.[9]	3.3	5.7	17.1	17.6	18.8	20.3	21.2	22.1	24.1	27.0
Stocks on hand, June 30	Mil. wine gal.[9]	2.7	3.6	8.1	9.0	9.4	10.4	11.4	12.1	11.9	14.4
Per capita[4]	Wine gal.[9]	.04	.06	.15	.13	.14	.16	.15	.15	.17	.19
Of domestic output	Wine gal.[9]	.03	.05	.13	.12	.12	.14	.13	.12	.12	.13

NA Not available. [1] Barrels of 31 wine gallons (see footnote 9). [2] Source: U.S. Bureau of Census, *Imports for Consumption, General Imports,* FT 246. [3] Source: U.S. Bureau of Census, *Census of Manufactures, 1977,* and *Annual Survey of Manufactures.* [4] Source: U.S. Dept. of Commerce, Bureau of Industrial Economics. Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. [5] Excludes alcohol produced for industrial use. [6] A tax gallon for spirits of 100 proof or over is equivalent to the proof gallon; for spirits of less than 100 proof to the wine gallon. (See footnotes 7 and 9.) [7] A proof gallon is the alcoholic equivalent of a U.S. gallon at 60°F, containing 50 percent of ethyl alcohol by volume. [8] Includes ethyl alcohol. [9] A wine gallon is the U.S. gallon equivalent to the volume of 231 cubic inches. [10] Production represents total amount removed from fermenters, including distilling material, and, beginning 1970, includes increase after fermentation (by amelioration, sweetening, and addition of wine spirits). In 1975, 359 million gallons of distilling materials were produced; 1976, 343 million gal.; 1977, 347 million gal.; 1978, 258 mil. gal.; 1979, 259 mil. gal.; 1980, 184 mil. gal.; and 1981, 264 mil. gal. [11] Includes special natural wines. [12] Excludes distilling materials. [13] Includes champagne, other effervescent wines, and artificially carbonated wines.

Source: Except as noted, U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics,* annual.

No. 1403. Tobacco Products—Production and Consumption: 1960 to 1981

[Production data are for years ending **June 30.** Excludes cigars produced in customs bonded manufacturing warehouses. See also *Historical Statistics, Colonial Times to 1970,* series P 239-241]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Production:													
Cigarettes [1]	Billions	506	562	562	616	652	627	688	673	688	707	702	744
Cigars [1]	Billions	6.9	8.9	8.0	11.4	8.7	8.3	6.7	5.8	5.6	5.1	4.9	5.0
Tobacco [2]	Mil. lb	176	169	164	149	152	155	153	155	156	156	163	141
Per capita consumption: [3]													
All products	Lb. [4]	11.8	11.5	9.6	9.5	9.4	9.1	8.7	8.5	8.1	8.3	8.0	8.0
Cigarettes	1,000	4.2	4.3	4.0	4.1	4.1	4.1	4.1	4.1	4.0	3.9	3.8	3.6
Weight	Lb. [4]	9.64	9.37	7.78	7.92	7.90	7.73	7.35	7.21	6.89	6.97	6.87	6.91
Cigars [5]	Number	61	70	60	49	44	39	36	33	30	27	25	24
Weight	Lb. [4]	1.18	1.24	1.00	.77	.70	.63	.57	.54	.50	.44	.41	.40
Tobacco [2]	Lb. [4]	.99	.88	.83	.75	.75	.72	.73	.70	.68	.69	.69	.68

[1] Large and small. Source: U.S. Bureau of Alcohol, Tobacco, and Firearms, *Alcohol and Tobacco Summary Statistics,* annual. [2] Smoking and chewing tobaccos and snuff. Source: U.S. Dept. of Agriculture, Agricultural Marketing Service, *Manufacture and Sales of Snuff, Smoking, and Chewing Tobacco,* quarterly. [3] Based on U.S. Bureau of the Census estimated population 18 years old and over, as of July 1, including Armed Forces abroad. 1981 data preliminary. [4] Unstemmed processing weight equivalent. [5] Weighing over 3 pounds per 1,000.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Tobacco Situation,* quarterly.

No. 1404. Mill Consumption of Natural Fibers: 1960 to 1981

[**In million of pounds, except per capita.** Per capita figures based on U.S. Bureau of the Census population estimates as of **July 1,** including Armed Forces abroad. See *Historical Statistics, Colonial Times to 1970,* series P 229 and P 230, for wool and silk]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981 [1]
Cotton, total [2]	4,234	4,522	3,854	3,658	3,309	3,027	3,414	3,170	3,041	3,077	3,036	2,715
Per capita (lb.)	23.4	23.2	18.8	17.4	15.6	14.2	15.9	14.6	13.9	14.0	13.3	11.8
Wool, total [3]	411	387	240	151	94	110	122	108	115	117	123	138
Per capita (lb.)	2.3	2.0	1.2	.7	.4	.5	.6	.5	.5	.5	.5	.6
Flax, total	5	8	6	7	7	3	4	3	4	5	2	4
Silk, total	7	6	2	3	3	1	3	2	2	2	1	2

[1] Preliminary. [2] Reported by U.S. Bureau of the Census. For American cotton, tare as reported by Crop Reporting Board is deducted. For foreign cotton, 15 pounds deducted, 1950-1965; 20 pounds thereafter. [3] Reported by U.S. Bureau of the Census. Excludes consumption in cotton and other spinning systems and consumption in batting and felt manufacture.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Cotton and Wool Situation,* April 1981.

No. 1405. Man-Made Fiber Distribution: 1960 to 1981

[**In millions of pounds, except per capita.** Per capita figures based on U.S. Bureau of the Census population estimates as of **July 1,** including Armed Forces abroad]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Rayon and acetate: [1]										
Domestic consumption	1,055.4	1,550.4	1,414.4	801.1	854.8	861.7	870.6	822.6	733.0	701.3
Per capita (lb.)	5.6	8.0	6.9	3.7	3.9	3.9	3.9	3.7	3.2	3.3
Producers' shipments	1,020.7	1,496.9	1,376.2	807.1	862.4	867.9	927.9	924.7	808.1	768.4
Rayon	716.2	1,045.6	851.0	448.3	526.1	513.0	522.2	497.4	438.2	443.5
Acetate	277.6	420.8	479.1	305.7	260.4	267.4	281.6	295.4	276.2	230.3
Exports	26.9	30.5	46.1	53.1	75.9	87.5	124.1	131.9	93.7	94.6
Imports	61.6	84.0	84.3	47.1	68.3	81.3	66.8	29.8	18.6	27.5
Non-cellulosic:										
Domestic consumption [2]	613.4	1,693.3	3,543.2	5,877.3	6,297.0	6,979.9	7,260.1	7,570.4	7,069.7	6,890.4
Per capita (lb.)	3.4	8.7	17.3	27.2	28.9	31.7	32.6	33.6	31.0	33.4
Producers' shipments [2]	667.3	1,711.1	3,555.6	6,082.7	6,551.6	7,263.5	7,756.3	8,423.6	8,006.1	7,913.9
Nylon	375.5	867.0	1,253.8	1,847.6	1,944.7	2,187.9	2,415.5	2,544.5	2,250.1	2,100.7
Polyester	[3] 101.6	[3] 367.6	1,425.9	2,950.6	3,151.1	3,390.9	3,475.1	3,659.5	3,434.4	3,435.4
Olefin	13.2	60.1	187.0	436.1	482.0	539.6	579.7	624.2	611.7	628.3
Acrylic	116.0	324.5	430.7	467.3	517.3	619.8	571.6	546.6	585.3	494.1
Exports	58.5	78.4	190.9	314.4	385.9	429.0	608.9	912.5	991.6	1,102.9
Imports	4.6	60.6	178.5	109.0	131.3	145.4	112.7	59.3	55.2	79.4
Producers' waste shipments:										
Rayon	33.3	51.5	34.5	13.2	14.7	18.5	15.7	17.2	13.5	15.3
Non-cellulosic	29.9	55.2	136.3	228.7	262.3	291.0	263.9	238.6	170.2	193.2

[1] Includes yarn, monofilaments, staple, and tow. [2] Includes other items not shown separately. [3] Includes other yarns, chiefly saran and spandex.

Source: Textile Economics Bureau, Inc., Roseland, N.J., *Textile Organon,* monthly. (Copyright.)

No. 1406. Wool—Production, Price, and Supply: 1960 to 1981

[**In millions of pounds, except as indicated.** For 1960 and for wool consumed in manufacturing, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series K 559-560, for shorn wool production and price, and series P 229, for wool consumed in manufacturing]

ITEM	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981 [1]
Stocks of all wool, Jan. 1 [2]	151	103	102	53	48	42	42	49	45	43
Sheep and lambs shorn (mil.)	31	24	19	14	14	13	13	13	13	14
Weight per fleece (lb.)	8.5	8.5	8.4	8.3	8.2	8.1	8.1	8.0	8.0	8.0
Shorn wool production (grease basis)	265	201	162	120	111	107	103	105	105	110
Price per pound [3] (cents)	42.0	47.1	35.4	44.7	65.7	72.0	74.5	86.3	88.1	94.5
Total wool production (grease basis)	299	225	177	125	116	110	104	106	107	111
Wool, clean basis: Total production	151	113	88	67	62	58	55	56	56	59
Imports of dutiable wool [4]	74	163	80	17	38	34	27	20	30	48
Imports of duty free wool [4]	154	109	73	17	19	19	23	22	26	26
Total new supply [5]	530	488	343	154	164	150	164	162	166	182
Consumed in manufacturing [6]	411	387	240	110	122	108	115	117	123	138

[1] Preliminary. [2] Scoured basis. [3] Weighted season average price received by farmers. 1960, April-March marketing season; thereafter, calendar year. [4] Imports for consumption. [5] Production, imports, and stock of wool Jan. 1. [6] Scoured wool, plus greasy wool reduced to scoured basis.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Statistics*, annual, and *Cotton and Wool Situation*. Imports from U.S. Bureau of the Census.

No. 1407. Raw Cotton—Spindles, Consumption, and Stocks: 1960 to 1981

[For years ending **July 31.** Excludes Alaska and Hawaii. Consumption and stocks are expressed in running bales, counting round as half bales, except foreign cotton which is in equivalent 500-pound bales. See *Historical Statistics, Colonial Times to 1970*, series P 228, for total cotton consumed including linters]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Cotton systems spindle: In place [1]	Million	20.0	19.3	19.9	18.3	18.0	17.8	17.5	17.4	17.1	16.8
Active [2]	Million	19.2	18.8	19.1	16.8	17.0	16.8	16.3	16.3	16.0	15.6
Spindle hours [3]	Billion	113	102	74	44	51	45	42	42	42	37
Cotton consumed, total [4]	Mil. bales	9.0	9.2	8.0	5.6	7.0	6.5	6.2	6.1	6.2	5.6
Cotton stocks, end of year [5]	Mil. bales	7.3	14.1	5.4	5.2	3.4	2.8	4.9	3.5	3.0	2.4

[1] All spindles in place regardless of fiber spun. [2] Active last day of year, regardless of type of fiber spun. On August 2, 1981, there were 6,445,000 spindles active on cotton, 9,174,000 on manmade and other fibers and blends, and 1,200,000 idle. [3] Consuming 100 percent cotton. [4] Excludes linters. Includes foreign and domestic cotton. [5] Excludes linters. Includes stocks at public storage and compresses.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M22P.

No. 1408. Broadwoven Gray and Finished Fabrics—Production, by Type: 1960 to 1981

[**1960 through 1979 in billions of linear yd.; thereafter in billions of square yd.** Fabrics classified by primary fiber content]

PRODUCT	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Broadwoven gray fabrics, total	**12.1**	**13.4**	**11.5**	**9.5**	**10.9**	**10.7**	**10.8**	**10.6**	**15.3**	**15.2**
Cotton fabrics	9.4	9.2	6.2	4.1	4.7	4.4	4.0	3.9	4.5	3.9
Manmade fiber fabrics	(NA)	3.9	5.0	5.3	6.1	6.2	6.7	6.6	10.6	11.1
Woolen and worsted [1]	.3	.3	.2	(Z)	(Z)	.1	.1	.1	.2	.2
Broadwoven finished fabrics, total	**9.6**	**11.0**	**9.7**	**8.0**	**8.3**	**8.2**	**8.5**	**8.1**	**7.9**	**7.6**
Cotton fabric	7.4	7.7	5.2	3.5	3.5	3.3	3.3	3.1	3.0	2.7
Manmade fiber fabrics and silk [2]	2.1	3.3	4.5	4.6	4.8	4.9	5.3	5.0	4.9	4.5
Bleached and white finished [3]	5.0	6.4	6.1	4.7	5.1	5.1	5.4	2.6	2.6	2.6
Plain dyed and finished cottons	2.5	2.7	1.8	1.2	1.3	1.2	1.2	1.1	1.2	1.1
Printed and finished goods [4]	2.1	1.9	1.9	2.1	2.0	1.9	1.9	1.6	1.6	1.2

NA Not available. Z Less than 50 million. [1] Except woven felts; in terms of finished yardage. [2] Fabrics made of polyester, rayon, acetate, nylon, silk, glass, acrylic fibers, etc. [3] Includes plain dyed manmade fibers prior to 1979. [4] Includes roller, screen, and block printed; excludes printed towels, tablecloths, flock, plisse, moire, or embossed.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-22S and MQ-22T.

No. 1409. Hosiery—Production, by Type: 1960 to 1981

[**In millions of dozens of pairs.** Excludes Alaska and Hawaii. Excludes slipper socks]

TYPE	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
All types	**154.9**	**198.2**	**244.1**	**227.4**	**216.4**	**224.8**	**253.9**	**257.4**	**263.8**	**294.5**	**280.2**	**310.1**
Women's	65.0	92.7	125.7	99.9	88.7	97.7	113.8	110.6	110.9	141.7	139.6	151.7
Infants' and children's [1]	17.8	18.8	20.6	22.7	22.1	22.0	27.7	28.4	29.8	32.2	28.8	31.2
Girls', boys', and women's [2]	20.8	35.2	33.6	41.2	41.4	41.9	46.4	49.0	46.7	48.4	48.8	58.8
Men's (sizes 10 and up)	51.2	51.6	64.2	63.7	64.2	63.2	66.0	69.3	76.4	72.2	63.1	68.4

[1] Sizes 3-8½. Includes knee-highs. [2] Sizes 8-11. Includes foot socks not shown separately.

Source: National Association of Hosiery Manufacturers, Charlotte, N.C., *Hosiery Statistics*, annual. (Copyright.)

No. 1410. U.S. Imports and Exports of Textiles and Apparel Products: 1965 to 1981

[In millions of dollars. Excludes glassfibers, linoleum, rubber and leather apparel and clothing donated for charity. Minus sign (–) denotes deficit]

ITEM	1965	1970	1975	1976	1977	1978	1979	1980	1981
Exports	**613**	**733**	**1,873**	**2,289**	**2,381**	**2,624**	**3,801**	**4,458**	**4,505**
Textile mill products	510	578	1,533	1,855	1,857	2,073	3,029	3,457	3,473
Yarn and thread	119	133	271	336	376	330	590	642	813
Cotton broad woven fabric	108	112	376	499	438	426	626	546	335
Other broad woven and knit fabric	135	151	387	423	399	433	678	809	825
Narrow fabric	21	15	32	36	39	84	95	106	129
Special fabric	64	89	194	243	252	406	504	709	694
Made-up articles	52	53	185	214	242	252	329	318	332
Textile floor coverings	11	25	88	106	109	143	207	327	345
Apparel	103	155	341	434	524	551	772	1,001	1,032
Imports	**1,280**	**2,275**	**3,530**	**4,883**	**5,415**	**7,045**	**7,229**	**8,139**	**9,073**
Trade balance	**–667**	**–1,542**	**–1,657**	**–2,593**	**–3,033**	**–4,420**	**–3,428**	**–3,681**	**–4,568**

Source: U.S. Bureau of the Census, *U.S. General Imports, Schedule A Commodity by Country,* Report FT135, and *U.S. Exports, Schedule E Commodity by Country,* Report FT410, monthly.

No. 1411. Male and Female Clothing—Production: 1960 to 1980

[See also *Historical Statistics, Colonial Times to 1970,* series P 242 and 243]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
MALE CLOTHING											
Men's suits [1]	Mil. units	21.3	21.9	17.7	16.8	13.7	16.2	17.3	17.5	17.0	14.8
Boys' suits [2]	Mil. units	5.1	6.6	4.7	2.9	2.5	2.5	3.6	4.7	4.5	3.5
Separate trousers (men's)	Mil. units	100.3	142.3	173.6	156.6	118.9	132.2	128.8	122.7	125.6	124.0
Separate coats [3]	Mil. units	14.2	16.3	16.1	21.1	13.1	13.6	17.8	16.1	16.3	18.9
Men's and youths'	Mil. units	10.2	12.3	11.8	18.6	11.5	12.9	16.6	15.0	17.0	17.7
Boys'	Mil. units	4.0	4.0	4.3	2.5	1.6	.9	1.2	1.1	1.3	1.2
Woven shirts, men's [4]	Mil. doz	23.2	28.2	20.8	20.4	17.4	19.5	18.2	15.0	14.9	13.8
Casual slacks	Mil. units	(NA)	(NA)	123.6	207.6	153.3	221.3	287.5	99.5	87.2	95.7
Jeans	Mil. units								191.0	225.5	261.6
Work shirts (incl. flannels)	Mil. doz	3.8	4.0	4.1	3.4	2.9	3.7	4.0	3.8	3.8	3.6
FEMALE CLOTHING											
Blouses	Mil. doz	15.6	19.0	13.3	17.2	18.3	19.7	24.7	25.6	27.5	26.7
Dresses	Mil. units	253	281	251	190	174	171	193	190	183	179
Suits [5]	Mil. units	9.4	11.9	8.8	7.8	9.0	11.7	36.5	32.1	24.9	18.2
Slacks	Mil. doz	3.6	7.1	9.4	18.6	18.3	18.3	18.6	12.4	18.6	19.3
Jeans	Mil. doz								4.4	5.5	5.9
Skirts	Mil. doz	8.3	8.9	6.9	4.4	4.3	4.9	5.4	5.8	5.6	5.9
Untrimmed coats	Mil. units	21.0	19.1	17.0	20.5	18.4	20.7	19.0	18.9	18.4	16.8
Fur-trimmed coats	Mil. units	2.5	6.1	4.7							
Knit outerwear: Sweaters	Mil. doz	6.4	7.3	5.3	6.3	6.6	6.1	6.6	5.9	4.9	4.4
Sport shirts	Mil. doz	2.3	3.4	4.0	7.4	7.8	8.4	11.7	11.0	10.7	10.5

NA Not available. [1] Beginning 1975, excludes leisure suits. [2] Beginning 1970, includes uniform suits and coats. [3] Beginning 1975, excludes leisure coats. [4] Includes knit and woven dress and woven sport. [5] Beginning 1977, includes pant suits.

Source: U.S. Bureau of the Census, *Current Industrial Reports,* series MA-23E, MA-23F, and MA-23G.

No. 1412. Footwear—Summary: 1960 to 1981

[In millions of pairs, except as indicated. See *Historical Statistics, Colonial Times to 1970,* series P 260-261, for men's and women's shoes]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980 [1]	1981 [1]
Apparent consumption	**623.4**	**711.3**	**801.7**	**743.3**	**727.9**	**786.3**	**745.7**	**787.7**	**832.9**	**745.1**	**736.6**
Production, shoes and slippers	600.0	626.2	562.3	453.0	413.1	422.5	391.1	418.9	398.4	396.9	376.1
Percent exported	.5	.4	.4	.9	1.1	1.4	1.3	1.7	2.3	3.2	3.1
Value (bil. dol.)	2.2	2.5	2.9	3.2	3.1	3.5	[2] 3.7	3.8	4.3	4.7	4.7
Shoes, sandals, playshoes (production)	521.0	533.2	460.8	365.0	339.1	355.5	332.0	335.6	320.6	323.5	310.8
Men's, youths', boys'	124.7	143.8	143.5	127.9	121.2	128.1	116.8	116.8	103.8	102.5	99.4
Women's	279.8	280.0	230.2	167.1	154.1	155.9	145.0	145.4	145.9	143.1	131.8
Misses'	40.2	36.5	23.2	15.8	13.1	15.6	13.2	13.1	13.7	11.3	9.3
Children's	32.7	33.5	25.9	20.6	18.5	21.0	18.3	16.2	13.9	14.2	12.5
Infants' and babies'	36.6	32.5	29.0	23.8	24.2	24.9	22.7	23.2	22.8	23.6	21.3
Athletic shoes	7.0	7.0	9.0	9.9	7.9	10.1	16.0	20.9	20.5	24.3	23.4
Imports	26.6	87.6	241.5	294.3	319.4	369.8	360.0	375.7	443.6	361.0	372.1
Percent of total consumption	4.3	12.3	30.1	39.6	43.9	47.0	48.3	47.7	53.3	48.5	50.5

[1] Preliminary. [2] Source: U.S. Bureau of the Census, *Census of Manufactures, 1977.*

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports,* series M31A.

No. 1413. Chemicals and Allied Products—Value of Shipments: 1970 to 1980

[In millions of dollars. "N.e.c." means not elsewhere classified]

PRODUCT	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
Total [1]	**49,355**	**57,350**	**65,008**	**83,801**	**89,848**	**89,721**	**118,154**	**129,357**	**147,674**	**161,559**
Alkalies and chlorine	666	806	876	1,232	1,673	1,866	1,786	1,746	1,864	2,078
Industrial gases	664	659	721	793	906	1,049	1,199	1,408	1,520	1,563
Cyclic crudes and intermediates	2,014	2,332	2,764	4,141	4,202	5,231	5,514	5,515	7,988	7,732
Inorganic pigments	683	756	893	1,196	964	1,267	1,339	1,381	1,585	1,601
Industrial organic chemicals, n.e.c	6,470	7,466	8,548	12,743	14,098	16,794	19,378	21,214	25,083	27,025
Misc. end-use chems. and chem. prods. exc. urea	4,897	5,900	6,582	9,828	10,901	12,977	2,071	1,851	2,503	2,911
Misc. cyclic and acyclic chemicals and chem. prods							13,425	14,915	17,575	18,888
Industrial inorganic chemicals, n.e.c [1] [2]	4,109	3,003	3,514	4,609	4,675	5,751	6,920	7,977	9,294	10,327
Potassium and sodium compounds	543	503	583	900	910	1,074	1,103	1,206	1,275	1,375
Plastics materials and resins	4,562	4,486	5,678	8,444	7,747	10,455	12,181	13,783	16,964	18,014
Synthetic rubber (vulcanizable elastomers)	1,114	1,289	1,397	1,862	1,820	2,204	2,354	2,826	3,228	3,248
Cellulosic manmade fibers	665	685	744	898	781	814	851	945	1,086	1,156
Organic fibers, noncellulosic	2,468	2,949	3,954	3,867	4,035	4,414	5,472	5,912	6,719	7,147
Biological products	351	495	559	684	788	874	1,068	1,216	1,421	1,599
Medicinals and botanicals	747	794	986	1,467	1,489	1,774	2,206	2,406	2,906	3,158
Pharmaceutical preparations	5,264	6,295	6,841	7,463	8,247	9,217	9,640	10,711	11,539	13,012
Soaps and detergents	2,509	2,852	3,033	3,500	3,963	4,490	5,000	5,551	6,107	7,081
Polishes and sanitation goods	1,306	1,736	1,844	1,980	2,196	2,432	2,669	3,029	3,112	3,359
Specialty cleaning and sanitation products	755	899	937	1,071	1,197	1,316	1,478	1,625	1,880	2,089
Toilet preparations [1]	3,770	4,247	4,573	4,797	5,178	5,883	6,394	6,792	7,510	8,209
Hair preparations (incl. shampoos)	1,034	1,065	1,100	1,129	1,306	1,408	1,475	1,466	1,719	2,003
Perfumes, toilet water, colognes	536	677	716	755	918	1,007	1,097	1,250	1,438	1,468
Dentifrices, mouthwashes, gargles, etc	468	485	(S)	535	536	628	660	733	848	866
Paints and allied products	3,019	3,520	3,914	4,578	4,672	5,415	6,123	6,671	7,403	7,682
Fertilizers [2]	1,394	2,642	3,033	5,203	6,588	6,026	6,845	6,931	7,985	9,981
Adhesives and sealants [3]	580	954	1,152	1,404	1,464	1,655	1,873	2,075	2,366	2,426
Explosives	213	238	247	359	450	426	426	456	592	646
Printing ink	389	498	528	623	698	765	904	990	1,100	1,235

S Does not meet publication standards. [1] Includes products not shown separately. [2] Beginning 1972, synthetic ammonia, nitric acid, and ammonium compounds included in fertilizers. [3] Beginning 1972, excludes gelatin.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972,* and *1977,* and *Annual Survey of Manufactures.*

No. 1414. Chemicals—Production, by Kind: 1979 and 1980

[In **thousands of short tons, except as indicated.** Data for chemicals shown are restricted to a selected group composed for the most part of inorganic chemicals and related products which are sufficiently important economically to justify publication. Includes data for chemicals produced by Tennessee Valley Authority, and by Government-owned privately operated plants. See *Historical Statistics, Colonial Times to 1970,* series P 248, 249, and 251, for sodium hydroxide, ammonia (anhydrous), and sulfuric acid, respectively]

CHEMICAL	1979	1980
Acetylene [1] (mil. cu. ft.)	5,608	5,493
Aluminum chloride:		
Anhydrous (100% $AlCl_3$)	73	74
Liquid and crystal (32° Bé)	23	20
Aluminum sulfate (17% Al_2O_3) [2] (Commercial)	1,315	1,286
Iron free	117	116
Ammonia, synthetic anhydrous	18,634	19,653
Ammonium nitrate, original solution (100% NH_4NO_3)	8,293	9,127
Ammonium sulfate, synthetic (technical) [3]	2,363	2,136
Argon, refined (mil. cu. ft.)	8,129	7,906
Calcium carbide (commercial)	268	261
Calcium phosphate dibasic (100% $CaHPO_4$)	834	863
Carbon, activated [4]	84	81
Carbon dioxide (liquid, gas, and solid) [5]	3,780	3,710
Chlorine, gas [6]	12,291	11,421
Chrome, yellow and orange (C.P.)	33	28
Chrome orange, molybdate (C.P.)	13	10
Hydrochloric acid (100% HCl)	3,090	2,895
Hydrofluoric acid, anhydrous and aqueous (100% HF)	200	213
Hydrogen [7] [8] (billion cu. ft.)	106	106
Hydrogen [8] [9] (billion cu. ft.)		

CHEMICAL	1979	1980
Hydrogen peroxide (100% by weight)	114	116
Nitric acid (100% HNO_3)	8,916	9,232
Nitrogen (100%) (bil. cu. ft.)	427	479
Nitrogen solutions (100% N) (bil. cu. ft.)	2,321	2,773
Oxygen [7] (bil. cu. ft.)	456	431
Oxygen [9] (bil. cu. ft.)		
Phosphoric acid (100% P_2O_5)	10,318	10,938
Phosphorus (white and red)	460	432
Potassium hydroxide (88–92% KOH)	264	245
Potassium pyrophosphate (100% $K_4P_2O_7$)	42	24
Sodium bichromate and chromate	157	154
Sodium chlorate (100% $NaClO_3$)	269	278
Sodium hydroxide (caustic soda) (100% NaOH)	12,759	11,625
Sodium silicate (soluble silicate glass, liquid and solid) (anhydrous) [10]	813	786
Sodium sulfate:		
High purity (more than 99% Na_2SO_4)	509	464
Glauber's salt (100% Na_2SO_4–$10H_2O$)	611	675
Sulfuric acid gross [11] (mil. sh. tons)	43	44
Titanium dioxide [12] (100% TiO_2)	742	727

[1] Excludes quantities of acetylene produced and consumed by railroad shops, shipyards, and small establishments using portable generators. [2] Includes quantities produced and consumed by municipalities. [3] Excludes byproduct coke-oven production. [4] Includes data for decolorizing and water purification grades only. [5] Excludes quantities produced and consumed in plants manufacturing soda ash or urea. [6] Total production, including quantities liquefied for use, storage, or shipment. [7] 99.5–100%. [8] Excludes quantities produced and consumed in manufacture of methanol and ammonia, produced by ammonia dissociation process, or disposed of as waste, e.g. vented, used as fuel, etc. Excludes amounts of hydrogen produced in petroleum refineries for captive use. [9] Less than 99.5%. [10] Excludes amounts produced and consumed in making meta-, ortho-, and sesquisilicates. [11] 100% H_2SO_4. Includes sulfuric acid of oleum grades. [12] Composite and pure.

Source: U.S. Bureau of the Census, compiled from manufacturers reports and published in *Current Industrial Reports,* series MA28A, MA28B, and MA28C.

No. 1415. Petroleum and Coal Products—Value of Shipments and Inventories: 1963 to 1980

[In millions of dollars. See also table 1295]

ITEM AND PRODUCT	1963	1967	1972	1975	1976	1977	1978	1979	1980
Shipments, total	**16,864**	**20,821**	**27,349**	**66,458**	**78,844**	**93,947**	**100,349**	**140,887**	**190,701**
Petroleum refining [1]	15,558	19,249	24,773	62,481	74,348	88,590	93,745	133,359	182,436
Gasoline	7,978	9,844	13,030	31,502	36,841	41,840	45,529	62,741	90,736
Jet fuel	633	1,100	1,372	3,702	4,229	5,359	5,720	8,383	13,279
Kerosene	375	431	372	791	828	893	797	1,306	1,483
Light fuel oil	2,896	3,306	4,408	11,298	13,554	17,509	17,664	25,632	33,414
Heavy oil	622	566	1,107	4,626	5,243	6,794	6,600	9,038	11,517
Liquefied refinery gases	703	1,136	1,153	2,910	3,604	4,501	4,823	7,860	9,331
Lubricating oils and greases	785	884	895	1,443	1,639	1,719	1,847	2,624	3,339
Unfinished oils and lubricating oils base stock	526	613	734	1,613	2,195	2,888	3,133	5,312	6,860
Asphalt	361	424	672	1,541	1,564	2,217	2,131	2,626	3,140
Other petroleum products, and refinery products	681	945	1,031	3,056	4,652	4,870	5,501	7,837	9,337
Paving mixtures and blocks	403	530	893	1,203	1,229	1,519	1,931	1,963	2,313
Asphalt felts and coatings	408	519	902	1,463	1,700	1,829	2,387	2,699	2,731
Lubricating oils and greases not made in refining	426	443	642	1,059	1,216	1,514	1,787	2,271	2,530
Other	69	80	139	253	351	495	499	595	691
Inventories, total [2]	**1,818**	**2,030**	**2,223**	**4,751**	**5,213**	**5,656**	**5,498**	**7,653**	**9,880**
Petroleum refining	*1,686*	*1,904*	*2,002*	*4,395*	*4,802*	*5,196*	*4,963*	*7,074*	*9,179*

[1] Petroleum refining by product class. [2] Includes lubricating oils and greases from purchased materials. Inventories as of end of reporting year.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977,* MC 77-1-29A, and *Annual Survey of Manufactures.*

No. 1416. Rubber—New Supply, Distribution, and Stocks: 1960 to 1980

[In thousands of long tons. 1960 excludes Alaska and Hawaii, except for imports and exports, which also include Puerto Rico. Natural rubber refers to dry weights of all types, including liquid latex, guayule, etc. Synthetic comprises SBR (including weight of oil content), neoprene, butyl, and butadiene-acrylonitrile, all years; beginning 1965, also includes polyisobutylene, chlorosulfonated polyethylene, and polysulfide, silicone, acrylic, stereo, and fluorocarbon rubbers. Reclaimed comprises both natural and synthetic]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980
New supply	**2,150**	**2,581**	**3,042**	**3,340**	**3,547**	**3,285**	**2,826**	**3,332**	**3,557**	**3,772**	**3,816**	**3,172**
Domestic production [1]	1,729	2,094	2,398	2,611	2,768	2,492	2,077	2,496	2,600	2,830	2,889	2,360
Synthetic	1,436	1,813	2,197	2,417	2,566	2,358	1,958	2,387	2,481	2,705	2,764	2,272
Imports [2]	420	487	644	729	779	793	749	836	957	943	927	812
Natural	411	445	550	618	643	682	658	714	793	771	769	618
Distribution	**2,203**	**2,657**	**3,001**	**3,410**	**3,584**	**3,344**	**2,956**	**3,222**	**3,618**	**3,773**	**3,845**	(3)
Domestic consumption [2]	1,835	2,326	2,677	3,121	3,268	3,039	2,706	2,919	3,343	3,471	3,409	(3)
Synthetic	1,079	1,540	1,918	2,292	2,402	2,175	1,933	2,138	2,433	2,559	2,541	(3)
Exports [2]	368	331	324	289	316	305	250	303	275	302	437	487
Synthetic	342	282	299	265	295	284	226	281	252	284	416	465
Stocks, end of year [1]	**359**	**442**	**645**	**632**	**629**	**644**	**528**	**642**	**582**	**606**	**370**	**312**

[1] Includes reclaimed and synthetic. [2] Natural, synthetic and reclaimed. [3] Series discontinued as of 1980.

Source: U.S. Bureau of the Census, *Current Industrial Reports,* series MA-30A.

No. 1417. Miscellaneous Plastics Products—Value of Shipments: 1975 to 1980

[In millions of dollars. Excludes all products specifically classified in other industries such as converted flexible packaging, boats, toys, sporting goods, luggage, etc., and captive production of plastics by companies who ship products other than those classified in SIC Industry 3079]

PRODUCT	1975	1976	1978	1979	1980, prel.
Miscellaneous plastics products	**15,533**	**18,679**	**27,165**	**29,348**	**30,245**
Unsupported plastics film sheets, sheeting, rods, tubes, and other	2,701	3,318	4,590	5,051	5,158
Laminated sheets, rods, and tubes	801	1,029	1,305	1,542	1,561
Building and construction plastics products	1,339	1,628	3,006	3,120	3,286
Regenerated cellulosic prod., exc. rayon	473	574	357	309	311
Custom compounded purchased resins	352	447	868	1,154	1,177
Furniture components and furnishings	543	654	1,127	1,214	1,287
Packaging	2,051	2,369	3,063	3,729	4,304
Transportation	1,182	1,569	2,598	2,542	1,832
Electrical and electronic	603	694	1,519	1,578	1,643
Consumer, institutional, and commercial fabricated plastics products	3,961	4,341	3,540	3,507	3,865

Source: U.S. Bureau of the Census, *Current Industrial Reports,* series MA-30D.

No. 1418. Iron and Steel Industry—Summary: 1960 to 1981

[Reporting companies in 1981 represented 85 percent of raw steel production of entire industry. The user should recognize that many of these companies produce and sell products and services other than those related to the steel industry; therefore the financial data reported represents the total operations of the steel companies]

ITEM	Unit	1960	1965	1970	1975	1976	1977	1978	1979	1980	1981
Steel mill products, apparent supply	Mil. tons [1]	71.5	100.6	97.1	89.0	101.1	108.4	116.6	115.0	95.2	104.0
Net shipments	Mil. tons [1]	71.1	92.7	90.8	80.0	89.4	91.1	97.9	100.3	83.9	87.0
Exports	Mil. tons [1]	3.0	2.5	7.1	3.0	2.6	2.0	2.4	2.8	4.1	2.9
Imports	Mil. tons [1]	3.4	10.4	13.4	12.0	14.3	19.3	21.1	17.5	15.5	19.9
Percent of total supply	Percent	4.7	10.3	13.8	13.5	14.1	17.8	18.1	15.2	16.3	19.1
Scrap consumed	Mil. tons [1]	52.1	69.8	69.3	62.8	68.4	69.3	76.3	77.2	66.6	70.5
Scrap produced	Mil. tons [1]	33.3	46.7	46.4	40.1	43.5	42.4	44.8	45.4	36.9	38.9
Scrap inventory	Mil. tons [1]	7.7	6.0	6.5	7.6	8.6	7.7	6.9	7.4	6.9	7.3
Iron and steel products:											
Exports	Mil. tons [1]	4.1	3.1	8.1	4.1	3.9	3.2	3.5	3.8	5.1	3.8
Imports	Mil. tons [1]	4.1	12.0	14.6	13.9	16.3	21.7	24.1	20.3	17.9	22.6
Revenues	Bil. dol.	14.2	18.0	19.3	33.7	36.5	39.7	49.5	55.7	53.8	62.0
Net income	Bil. dol.	.8	1.1	.5	1.6	1.3	(z)	1.2	1.2	1.7	2.6
Stockholders' equity [2]	Bil. dol.	10.5	12.0	13.0	16.2	17.2	18.0	17.6	17.7	18.1	19.5
Total assets	Bil. dol.	15.9	18.8	23.6	30.4	33.6	35.4	38.4	40.2	43.7	47.5
Net fixed assets	Bil. dol.	8.8	10.0	14.1	16.9	18.7	19.7	20.3	21.3	22.4	23.2
Capital expenditures	Bil. dol.	1.5	1.8	1.7	3.2	3.3	2.9	2.5	3.3	3.4	3.5
Working capital ratio	Ratio	2.6	2.4	1.9	2.0	1.9	1.8	1.8	1.7	1.7	1.8
Inventories	Bil. dol.	3.0	3.2	1.1	5.4	6.4	5.9	6.5	6.9	6.8	8.1
Average employment	1,000	572	584	531	457	454	452	449	453	399	391
Hours worked	Million	1,087	1,421	1,220	855	877	876	892	894	758	753
Index of output all employees [3]	1977=100	71	87	88	93	99	100	108	107	103	112
Producer price indexes: [4]											
Iron and steel, total	1967=100	97.1	97.9	115.1	200.9	215.9	230.4	253.6	283.5	305.2	333.8
Steel mill products	1967=100	96.4	97.5	114.2	197.2	209.8	229.9	254.5	280.4	302.7	337.6
Finished	1967=100	96.3	97.5	114.2	196.6	209.0	229.0	253.5	279.5	301.2	336.2
Semifinished	1967=100	97.1	98.3	112.2	206.7	223.1	243.6	270.5	294.3	325.6	359.3
Pig iron and ferralloys	1967=100	120.4	100.3	114.8	264.7	261.6	257.1	260.0	296.7	307.4	316.2
Iron ore	1967=100	108.0	100.7	100.1	154.3	171.0	186.1	194.9	216.7	244.8	268.4
Scrap, iron and steel	1967=100	110.2	112.6	138.8	245.6	259.0	231.2	264.6	341.9	328.1	327.4
Foundry and forge shop products	1967=100	92.0	94.6	112.1	194.3	218.6	230.5	249.5	277.1	310.0	329.8

Z Less than $50 million. [1] In millions of short tons. [2] Prior to 1974, as of December 31; thereafter, as of January 1. [3] Index of output per employee hour. [4] Source: U.S. Bureau of Labor Statistics, *Producer Prices and Price Indexes*, monthly and annual.

Source: Except as noted, American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

No. 1419. Pig Iron and Ferroalloys—Summary: 1960 to 1981

[In millions of short tons, except furnaces]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
Blast furnaces, Jan. 1	263	239	228	216	206	199	196	193	179	169	176	(NA)
Number in blast, Jan. 1	229	191	169	126	163	136	119	107	(NA)	(NA)	(NA)	(NA)
Total production [1]	**68.6**	**90.9**	**93.5**	**91.3**	**95.9**	**79.9**	**86.9**	**81.3**	**87.7**	**87.0**	**68.7**	**73.6**
Basic	58.3	80.4	86.4	84.0	91.2	75.9	82.9	76.2	84.5	84.0	67.0	71.2
Bessemer [2]	3.8	2.9	1.6	1.4	1.2	1.2	1.3	.4	.4	.2	–	.1
Foundry [3]	2.2	2.3	2.3	2.0	1.5	1.3	1.5	1.6	1.9	1.5	.7	1.2
All other	4.4	5.2	3.2	4.0	2.0	1.5	1.2	1.1	.9	1.3	1.0	1.1

– Represents zero. NA Not available. [1] Beginning 1974, includes blast furnace ferroalloys. [2] Includes low phosphorus. [3] Includes ferrosilicon.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

No. 1420. Raw Steel Production: 1950 to 1981

[In millions of net tons, except percent. See also *Historical Statistics, Colonial Times to 1970*, series P 265-269]

ITEM	1950	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981
World production	207.9	379.7	503.1	654.2	768.6	782.8	712.0	745.6	741.8	790.6	[1] 824.5	[1] 790.4	[1] 780.7
U.S. production	96.8	99.3	131.5	131.5	150.8	145.7	116.6	128.0	125.3	137.0	136.3	111.8	120.8
Percent of world	46.6	26.0	26.2	20.1	19.6	18.6	16.4	17.2	16.9	17.3	16.5	14.2	15.5
Basic oxygen process	–	3.3	22.9	63.3	83.3	81.6	71.8	79.9	77.4	83.5	83.3	67.6	73.2
Electric	6.0	8.4	13.8	20.2	27.8	28.7	22.7	24.6	27.9	32.2	33.9	31.2	34.1
Open hearth [2]	90.8	87.6	94.8	48.0	39.8	35.5	22.2	23.5	20.0	21.3	19.1	13.0	13.5
Carbon	88.3	90.9	116.7	117.4	132.7	126.6	100.4	112.0	108.1	116.9	116.2	94.7	101.5
Alloy and stainless	8.6	8.4	14.8	14.1	18.1	19.1	16.3	16.0	17.2	20.1	20.1	17.1	19.3

– Represents zero. [1] Preliminary. [2] Prior to 1970, includes bessemer.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

No. 1421. Steel Products—Net Shipments, by Market Classes: 1960 to 1981

[In thousands of short tons. Comprises carbon, alloy, and stainless steel. "N.e.c." means not elsewhere classified]

MARKET CLASS	1960	1965	1970	1975	1977	1978	1979	1980	1981
Total [1]	**71,149**	**92,666**	**90,798**	**79,957**	**91,147**	**97,935**	**100,262**	**83,853**	**87,014**
Automotive	14,610	20,123	14,475	15,214	21,490	21,253	18,621	12,124	13,154
Steel service centers, distributors	11,125	14,813	16,025	12,700	15,346	17,333	18,246	16,172	17,637
Construction, incl. maintenance	9,664	11,836	8,913	8,119	7,553	9,612	9,978	8,742	8,446
Containers, packaging, shipping	6,429	7,331	7,775	6,053	6,714	6,595	6,772	5,551	5,292
Machinery, industrial equipment, tools	3,958	5,873	5,169	5,173	5,566	5,992	5,996	4,540	4,624
Steel for converting and processing	2,928	3,932	3,443	3,255	3,679	4,612	5,058	4,117	5,058
Rail transportation	2,525	3,805	3,098	3,152	3,238	3,549	4,111	3,155	2,162
Contractors' products	3,602	5,018	4,440	3,927	4,500	3,480	3,745	3,148	3,230
Oil and gas industries	1,759	1,936	3,550	4,171	3,650	4,140	3,739	5,371	6,238
Electrical equipment	2,078	2,985	2,694	2,173	2,639	2,811	2,819	2,441	2,600
Appliances, utensils, and cutlery	1,760	2,179	2,160	1,653	2,129	2,094	2,140	1,725	1,775
Other domestic commercial equipment	1,959	2,179	1,778	1,390	1,846	1,889	2,073	1,701	1,622
Exports (reporting companies only)	2,563	2,078	5,985	1,755	1,076	1,224	2,007	2,595	1,845
Agricultural, incl. machinery	1,003	1,483	1,126	1,429	1,743	1,805	1,971	1,240	1,229
Independent forgers, n.e.c.	841	1,250	1,048	1,098	998	1,192	1,254	933	1,035
Industrial fasteners [2]	1,071	1,234	1,005	675	848	870	934	590	648
Shipbuilding and marine equipment	622	1,051	859	1,413	869	845	924	1,201	1,101
Mining, quarrying, and lumbering	288	392	497	596	486	508	569	454	493
Ordnance and other military	165	289	1,222	405	193	207	204	177	166
Aircraft and aerospace	78	94	56	69	63	60	60	53	37

[1] Total includes nonclassified shipments, and, beginning 1970, data include estimates for a relatively small number of companies which report raw steel production but not shipments. [2] Bolts, nuts, rivets, and screws.

Source: American Iron and Steel Institute, Washington, D.C., *Annual Statistical Report*. (Copyright.)

No. 1422. Ferrous and Nonferrous Castings—Shipments: 1960 to 1981

[In thousands of short tons. Data are based on a sample of foundries]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981
Ferrous castings: [1]											
Gray iron castings [2 3 4]	11,594	15,713	13,945	15,661	13,328	15,103	16,014	16,124	15,402	11,799	9,729
Pressure pipe and fittings	1,336	1,876	1,691	1,957	1,380	1,414	1,653	1,690	1,546	1,396	1,238
Soil pipe and fittings	782	958	953	771	449	533	457	512	482	375	478
All other	9,476	12,879	11,301	12,933	11,499	13,156	13,904	13,922	13,374	10,028	8,013
Malleable iron castings [3]	821	1,136	852	912	770	845	815	790	715	450	421
For sale	467	648	521	553	484	518	479	455	376	206	200
For own use	354	488	331	359	286	327	336	335	339	244	221
Standard malleable	632	827	628	669	534	570	572	542	496	312	291
Pearlitic malleable	189	309	224	243	236	275	243	248	219	138	130
Steel castings [2 3]	1,392	1,961	1,724	2,091	2,026	1,693	1,667	1,857	2,039	1,878	1,752
Carbon	1,016	1,378	1,147	1,394	1,758	1,660	1,474	1,675	1,342	1,225	1,111
Alloy	376	583	577	697	268	233	193	182	697	653	641
Nonferrous castings, all types [3]	**2,201**	**3,437**	**3,033**	**3,211**	**2,534**	**3,157**	**3,281**	**3,327**	**3,253**	**2,432**	**2,438**
Copper and copper-base alloy	760	889	751	671	519	549	580	580	617	489	471
Aluminum and aluminum-base alloy	775	1,409	1,506	1,759	1,375	1,845	2,009	2,088	2,081	1,538	1,580
Zinc and zinc-base alloy	623	1,065	696	693	572	691	613	574	491	346	333
Magnesium and magnesium-base alloy	24	32	34	49	32	39	49	45	28	24	23
Lead and lead-base alloy die [5]	21	42	45	39	36	32	31	40	36	35	31

[1] 1960 excludes Alaska and Hawaii. [2] Beginning 1975, data not strictly comparable with earlier years. [3] Includes shipments "for own use." [4] Includes ductile (nodular) iron castings. [5] Excludes lead die casting for battery plates and parts.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33A and M33E.

No. 1423. Copper-Base Mill and Foundry Products—Shipments: 1960 to 1981

[In millions of pounds, metal weight. 1960 excludes Alaska and Hawaii]

PRODUCT	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Total	**4,298**	**6,288**	**5,640**	**7,195**	**6,196**	**4,639**	**5,512**	**5,980**	**6,266**	**6,707**	**5,786**	**5,987**
Brass mill products	1,878	2,974	2,513	3,319	2,813	2,025	2,517	2,668	2,712	2,976	2,467	2,622
Alloyed [1]	1,128	1,711	1,542	2,060	1,816	1,324	1,643	1,726	1,750	1,869	1,508	1,695
Unalloyed	750	1,263	971	1,259	997	701	873	942	962	1,107	959	927
Copper wire mill products [2]	1,521	2,177	2,329	3,032	2,647	2,056	2,383	2,667	2,911	3,048	2,783	2,847
Brass and bronze foundry products	862	1,075	751	780	667	512	547	583	580	617	489	471
Copper-base powder mill products	39	62	47	64	69	46	65	64	63	66	47	47

[1] Excludes webbing scrap (military ammunition cups and discs). [2] Copper content.

Source: U.S. Bureau of the Census and U.S. Bureau of Industrial Economics, *Current Industrial Reports*, series ITA-9008, annual.

No. 1424. Aluminum and Magnesium Mill Products—Net Shipments: 1960 to 1981

[In millions of pounds. 1960 excludes Alaska and Hawaii. Producers' net shipments consist of total shipments less shipments to other metal mills for further fabrication into other forms of mill products]

PRODUCT	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980	1981, prel.
Aluminum mill products	**3,049**	**5,692**	**7,358**	**10,461**	**7,427**	**9,706**	**10,442**	**11,346**	**11,241**	**10,485**	**10,342**
Plate, sheet, and foil	1,637	3,019	4,247	6,374	4,664	6,346	6,846	7,285	7,205	6,692	6,848
Extruded shapes and tubing	937	1,719	1,823	2,384	1,643	2,141	2,396	2,509	2,426	2,329	2,207
Rolled structural shapes, rod, bar [1]	392	600	963	1,387	924	985	959	1,280	1,337	1,213	1,043
Powder, flake and paste	33	59	205	177	99	132	121	136	126	117	105
Forgings and impacts	50	95	120	138	97	100	121	136	147	134	139
Magnesium mill products	**21**	**32**	**31**	**29**	**26**	**27**	**32**	**40**	**44**	**35**	**33**

[1] Includes wire.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M33-2 and MA33G.

No. 1425. Machine Tool Orders and Shipments: 1960 to 1981

[In millions of dollars. These data represent total industry volume based on reports from members of the National Machine Tool Builders' Association. The reporting companies produce about 90 percent of the U.S. machine tool output]

YEAR	METAL CUTTING TYPE TOOLS					METAL FORMING TYPE TOOLS				
	New orders (net)		Shipments		Order backog, end of period	New orders (net)		Shipments		Order backog, end of period
	Total	Domestic	Total	Domestic		Total	Domestic	Total	Domestic	
1960	535	375	542	421	344	210	153	203	160	100
1961	592	401	541	367	394	183	136	210	156	73
1962	572	469	613	450	354	245	193	208	156	109
1963	760	607	638	526	475	302	263	257	215	153
1964	1,039	861	845	679	669	540	487	320	281	374
1965	1,252	1,123	1,023	886	899	442	410	403	363	412
1966	1,630	1,483	1,222	1,098	1,307	446	401	463	437	394
1967	1,135	1,025	1,353	1,211	1,089	287	248	453	407	228
1968	1,079	960	1,358	1,238	810	395	361	369	324	255
1969	1,195	1,033	1,192	1,077	812	533	484	405	369	383
1970	651	507	993	827	471	261	227	450	412	235
1971	609	524	672	554	408	252	223	326	286	162
1972	1,009	877	714	627	702	403	368	304	267	261
1973	1,825	1,550	1,074	935	1,454	787	717	427	388	621
1974	2,017	1,716	1,446	1,241	2,025	566	406	585	522	521
1975	916	781	1,879	1,548	1,062	361	213	573	485	219
1976	1,662	1,477	1,482	1,270	1,242	541	509	578	474	209
1977	2,202	1,981	1,651	1,470	1,794	793	731	630	560	384
1978	3,373	3,043	2,189	1,960	2,981	973	897	825	729	518
1979	4,495	3,966	2,930	2,606	4,546	1,126	920	947	860	619
1980	3,885	3,496	3,681	3,206	4,750	870	665	1,011	879	385
1981	2,228	1,946	4,105	3,552	2,873	717	617	991	824	427

NA Not available.

Source: National Machine Tool Builders Association; data published in U.S. Bureau of Economic Analysis, *Business Statistics, 1979*, for 1955-1978; thereafter, *Survey of Current Business*, monthly.

No. 1426. Selected Heating Equipment—Summary of Shipments: 1975 to 1980

[Included in SIC major group 34; represents companies with 20 or more employees. Data are ranked by latest year value]

ITEM	QUANTITY (1,000 units)					VALUE (mil. dol.)				
	1975	1977	1978	1979	1980	1975	1977	1978	1979	1980
Domestic heating stoves	1,097	1,590	2,054	2,608	2,042	80	183	234	310	406
Oil burners, sold separately	554	641	665	666	476	63	84	90	101	90
Gas-fired unit heaters	101	170	178	182	108	22	44	50	52	33
Floor and wall furnaces	361	404	433	327	289	32	44	50	48	48
Solar energy collectors [1]	(NA)	(NA)	171	[2] 227	340	(NA)	(NA)	27	[2] 33	64
Mechanical stokers	(Z)	1	1	2	1	5	11	9	11	13
Duct furnaces	14	18	25	24	23	5	7	9	9	9

NA Not available. Z Less than 500. [1] For related data, see table 1006. [2] Excludes concentrating collectors.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-34N.

No. 1427. Machinery (Except Electrical)—Value of Shipments: 1960 to 1980

[In millions of dollars. "N.e.c." means not elsewhere classified. Includes products with shipments of $1 billion or more in 1980. Based on sample; see Appendix III]

PRODUCT	1960	1970	1972	1975	1976	1977	1978	1979	1980
Ball and roller bearings	836	1,295	1,419	2,046	2,195	2,445	2,795	3,156	3,352
Blowers and fans [1]	269	647	682	1,247	1,400	1,422	1,511	1,703	1,902
Calculating and accounting machines [1]	(NA)	525	694	837	790	836	891	1,170	1,233
Electronic computing equipment [1]	(NA)	5,671	6,108	8,443	10,134	12,673	15,769	20,399	25,658
Carburetors, pistons, rings, and valves	(NA)	530	792	898	1,120	1,299	1,507	1,775	1,668
Construction machinery [2]	940	2,049	3,161	5,070	5,540	6,597	8,016	8,718	8,466
Conveyors and conveying equipment [1]	367	814	826	1,333	1,385	1,684	1,923	2,318	2,530
Farm machinery, except tractors [1]	1,449	3,065	2,928	5,316	5,907	6,912	7,357	8,989	8,934
Lawn and garden equipment [1]			1,143	1,558	1,676	1,747	2,118	2,704	2,419
Farm tractors, wheel-type, incl. attachments	[1]511	915	1,215	2,374	2,514	2,637	2,524	3,094	2,919
Food products machinery [1]	462	823	867	1,411	1,394	1,576	1,955	2,052	2,159
Hoists, cranes, and monorails [1]	201	487	446	756	809	901	1,009	1,268	1,396
Industrial furnaces and ovens [1]	215	377	341	532	585	704	794	950	1,042
Industrial trucks and tractors [1]	389	890	1,005	1,302	1,341	1,800	2,266	2,797	2,582
Internal combustion engines [1 3]	1,215	2,762	3,353	5,191	6,138	7,548	9,064	9,624	9,853
Machine tools, metal cutting types [1]	747	1,544	1,259	2,406	2,146	2,561	3,377	4,128	4,952
Machine tools, metal forming types [1]	379	735	670	1,026	1,051	1,115	1,358	1,635	1,749
Office machines, n.e.c. and typewriters [1]	456	978	1,047	1,334	1,563	2,020	2,422	2,756	3,246
Oil field machinery [1]	507	934	980	2,412	2,637	3,219	4,046	4,885	6,517
Paper industries machinery [1]	348	455	381	761	773	698	799	1,017	1,177
Power-driven handtools [1]	254	523	725	772	878	1,497	1,694	1,911	2,084
Printing trades machinery [1]	350	657	737	940	1,006	1,287	1,536	1,746	2,053
Pumps and pumping equipment [1]	1,107	2,203	1,633	2,623	2,985	3,523	4,037	4,697	5,286
Refrigeration and heating equipment [1]	1,809	5,053	6,232	6,151	7,563	8,502	10,158	10,939	10,253
Small cutting tools for machine tools	401	700	738	1,185	1,277	1,376	1,652	2,024	2,199
Special dies, tools, jigs, and fixtures	1,751	2,775	2,714	3,068	3,620	4,450	5,059	5,733	6,165
Turbines, and turbine generator sets [1]	623	1,640	2,080	2,585	2,803	2,813	2,824	3,211	3,601
Textile machinery [1]	494	712	738	861	918	857	949	1,057	1,123
Tractor shovel loaders	286	581	811	1,280	1,141	1,537	1,926	2,077	1,959
Tracklaying tractors	270	479	564	1,128	1,061	1,165	1,421	1,358	1,326

NA Not available. [1] Includes parts. [2] Excludes tractors and tractor shovel loaders. [3] Excludes aircraft and gasoline automotive.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972* and *1977*, and *Annual Survey of Manufactures*.

No. 1428. Electrical Machinery and Products Shipments: 1960 to 1980

[In millions of dollars. All figures based on sample and subject to sampling variability. "N.e.c." means not elsewhere classified. Includes products with shipments of $2 billion or more in 1980]

PRODUCT	1960	1965	1970	1972	1975	1976	1977	1978	1979	1980, prel.
Batteries	558	831	1,056	1,270	1,747	2,110	2,535	2,938	3,286	3,364
Communications equipment	2,028	3,098	5,444	5,529	[1]7,941	[1]8,572	[1]11,031	[1]12,499	[1]14,861	[1]17,571
Telephone and telegraph apparatus	1,431	1,953	3,575	3,974	4,734	5,132	7,119	8,003	9,677	11,162
Communication equipment, excluding broadcast	597	1,145	1,869	1,555	2,739	2,880	3,344	3,789	4,282	5,261
Connectors for electronic applications	(NA)	[2]2,276	[2]3,134	524	839	838	986	1,322	1,683	2,010
Current carrying wiring devices	622	644	983	1,207	1,240	1,641	1,825	2,024	2,561	2,704
Electric housewares and fans	598	1,002	1,261	1,448	1,687	1,979	2,304	2,372	2,730	3,094
Electronic components and subassemblies, n.e.c.	(NA)	([2])	([2])	3,210	3,445	4,262	5,574	6,827	8,611	10,122
Engine electrical equipment	772	1,059	1,437	1,781	2,050	2,649	3,049	3,432	3,424	3,039
General industry power circuit devices	567	825	1,154	1,246	1,874	2,013	2,429	2,997	3,464	3,977
Household cooking equipment	469	624	811	1,027	1,101	1,514	1,807	2,089	2,212	2,330
Household refrigerators and freezers	805	960	1,220	1,419	1,611	1,579	2,006	2,045	2,314	2,202
Lamp bulbs	490	643	885	1,069	1,225	1,477	1,630	1,894	2,143	2,050
Lighting fixtures	849	1,313	1,796	2,276	2,366	2,738	3,230	1,852	2,125	2,230
Motors and generators	1,508	1,936	2,478	2,636	3,677	4,129	4,976	5,660	6,436	6,526
Noncurrent carrying wiring devices	360	536	700	833	1,074	1,171	1,316	1,574	1,966	2,008
Radio and TV receiving sets [1]	1,641	2,984	2,966	3,589	3,545	4,143	4,731	5,484	5,489	4,094
Television receivers	775	1,687	1,756	2,149	1,924	2,225	2,451	2,802	2,975	3,333
Semiconductors and related devices	(S)	839	1,582	2,361	3,038	4,079	4,532	5,815	7,356	9,455
Switchgear and switchboard apparatus	899	1,269	1,849	2,059	2,509	2,662	3,298	3,682	4,075	4,533
Transformers	725	891	1,378	1,436	1,769	1,821	2,118	2,371	2,538	2,765
X-ray and electromedical equipment	88	121	235	383	740	820	1,838	1,958	2,283	2,416

NA Not available. S Withheld because data did not meet publication standards. [1] Includes items not shown separately. [2] Data for "Electronic components and subassemblies" included with "Connectors for electronic applications".

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972* and *1977*, and *Annual Survey of Manufactures*.

No. 1429. Electronic Computing Equipment Industry—Summary: 1972 to 1980

[In millions of dollars, except as indicated. Data for the noncensus years (all years except 1972 and 1977) are based on sample surveys and are therefore subject to sampling errors. Included in SIC major group 35. See source for further detail]

ITEM	1972	1973	1974	1975	1976	1977	1978	1979	1980, prel.
Employment, total (1,000)	144.8	155.3	176.7	162.5	165.7	192.7	232.1	273.9	304.6
Salaries and wages	1,668	1,873	2,222	2,292	2,451	3,004	3,814	4,777	5,916
Production workers (1,000)	64.7	74.9	86.8	73.8	71.3	85.5	102.9	122.0	134.7
Work-hours (million)	130.6	151.4	173.0	145.9	144.0	172.4	202.3	243.8	268.7
Workers wages	547	660	795	731	707	978	1,267	1,546	1,875
Value added	3,498	4,238	5,205	4,960	6,108	7,624	9,628	12,465	14,717
Supplemental labor cost	205	237	312	343	399	528	698	904	1,097
Cost of materials	2,981	3,481	4,164	3,705	4,380	5,701	7,519	9,985	12,787
Value of shipments	6,471	7,423	9,122	8,560	10,388	12,924	16,558	21,466	26,594
New capital expenditures	213	207	296	292	373	652	1,101	1,317	1,738
Inventories	1,574	2,005	2,478	2,264	2,294	3,008	3,989	5,524	6,879
Assets, total	1,896	1,857	2,085	2,232	2,353	3,042	4,076	5,196	(NA)
Ratio of:									
Cost of materials, supplemental labor cost, and salaries and wages to value of shipments	.750	.753	.753	.741	.696	.714	.727	.730	.745
Cost of materials to value of shipments	.461	.469	.457	.433	.422	.441	.454	.465	.481
Value added to value of shipments	.540	.571	.571	.548	.588	.590	.581	.581	.553
Value added to work-hours	26.78	27.99	30.09	32.15	42.42	44.22	47.59	51.13	54.77

NA Not available.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972* and *1977,* and *Annual Survey of Manufactures.*

No. 1430. Electronic Components and Accessories Industry—Summary: 1972 to 1980

[In millions of dollars, except as indicated. Included in SIC major group 36. See headnote, table 1429]

ITEM	1972	1973	1974	1975	1976	1977	1978	1979	1980
Employment, total (1,000)	336.0	394.8	381.7	302.3	323.0	373.5	412.3	467.6	498.6
Salaries and wages	2,870	3,474	3,686	3,358	3,763	4,557	5,294	6,461	7,780
Production workers (1,000)	233.9	283.2	266.3	197.6	218.8	257.9	286.7	324.5	336.6
Workers wages	1,560	1,971	1,974	1,705	1,964	2,457	2,887	3,484	4,050
Value added	5,306	6,596	6,963	5,984	7,568	9,260	10,981	14,213	16,902
Supplemental labor cost	388	481	571	538	669	811	998	1,232	1,497
Cost of materials	3,468	4,437	4,635	3,984	5,008	6,390	7,210	9,206	11,434
Value of shipments	8,826	10,783	11,301	10,089	12,433	15,390	17,912	22,708	27,647
New capital expenditures	344	629	785	536	651	783	1,119	1,591	2,616
Inventories	1,495	1,965	2,266	2,050	2,320	2,773	3,275	4,376	5,388
Assets, total	3,701	4,083	4,469	4,868	5,228	6,026	6,964	8,142	(NA)
Rents, total	66	81	97	108	112	107	115	145	(NA)
Ratio of:									
Cost of materials to value of shipments	.393	.411	.410	.395	.403	.415	.403	.405	.414
Value added to value of shipments	.601	.612	.616	.593	.609	.602	.613	.627	.611

NA Not available.

Source: U.S. Bureau of the Census, *Census of Manufactures. 1972* and *1977,* and *Annual Survey of Manufactures.*

No. 1431. Electronic Components—Factory Sales: 1970 to 1981

[In millions of dollars]

SALES	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
Total	*6,205*	*5,774*	*6,894*	*9,906*	*10,403*	*9,286*	*10,884*	*13,033*	*16,440*	*20,644*	*24,276*	*24,375*
Active components	2,369	2,251	2,725	4,094	4,310	3,651	4,666	5,154	6,301	8,201	10,180	9,814
Electron tubes	1,076	1,094	1,258	1,338	1,196	1,071	1,233	1,296	1,451	1,586	1,778	2,014
TV tubes	482	533	651	722	613	499	637	633	732	799	959	1,069
Semiconductors	1,293	1,157	1,467	2,756	3,114	2,580	3,433	3,858	4,850	6,615	8,402	[1]7,800
Integrated circuits	524	534	718	1,421	1,767	1,458	2,032	2,464	3,261	4,671	6,360	(NA)
Transistors [2]	352	303	359	634	668	522	621	631	670	792	806	(NA)
Diodes and rectifiers	378	279	314	391	438	329	390	394	457	557	613	(NA)
Other	39	41	76	310	241	271	390	369	462	595	623	(NA)
Passive components	1,133	1,068	1,184	1,594	1,726	1,438	1,589	1,842	2,137	2,599	2,908	2,942
Capacitors	483	435	438	612	676	470	608	744	897	1,050	1,299	1,297
Resistors	365	359	411	537	514	447	449	477	504	647	653	636
Coils and transformers	285	274	335	445	536	489	485	560	654	791	838	[1]870
Passive networks	(NA)	(NA)	(NA)	(NA)	(NA)	32	47	61	82	111	118	139
Other components [3]	2,703	2,455	2,985	4,218	4,367	4,197	4,629	6,037	8,002	9,844	11,188	11,619
R & D expenditures [4]	571	483	455	485	586	501	427	598	622	803	909	(NA)

NA Not available. [1]Estimated. [2]Includes dual transistors for 1970 through 1973. [3]Includes electronic connectors and other electronic components not elsewhere classified. [4]Electronic research and development, test and evaluation (receipts or billings not reported as shipments of specific products). Source: U.S. Bureau of the Census, *Current Industrial Reports,* series MA36N, annual.

Source: Except as noted, Electronic Industries Association, Washington, D.C., *Electronic Market Data Book,* annual (copyright).

No. 1432. Motor Vehicles and Equipment Industry—Summary: 1967 to 1980

[ASM=Annual Survey of Manufactures]

Industry and year	Establishments (number)	All employees: Number (1,000)	All employees: Payroll (mil. dol.)	Production workers: Number (1,000)	Production workers: Hours (mil.)	Production workers: Wages (mil. dol.)	Value added by manufacture (mil. dol.)	Cost of materials (mil. dol.)	Value of shipments (mil. dol.)	Expenditures and assets: New capital expenditures (mil. dol.)	Expenditures and assets: Gross value of fixed assets (mil. dol.)	End-of-year inventories (mil. dol.)
Motor vehicle and car bodies:												
1967 Census	181	321	2,699	262	524	2,098	7,354	19,965	27,296	263	3,889	1,802
1970 ASM	(NA)	305	3,033	245	477	2,297	7,348	20,531	27,751	306	4,753	2,075
1971 ASM	(NA)	341	3,894	283	573	3,072	11,680	28,526	40,307	316	4,995	1,976
1972 Census	231	339	4,300	284	588	3,405	11,783	31,170	42,906	917	5,422	2,184
1973 ASM	(NA)	369	5,147	309	657	4,097	13,666	36,677	50,228	806	5,490	2,532
1974 ASM	(NA)	320	4,601	262	515	3,568	10,849	33,167	43,669	1,043	6,332	2,899
1975 ASM	(NA)	283	4,340	235	447	3,405	10,441	34,795	45,340	656	6,334	2,640
1976 ASM	(NA)	324	5,877	274	560	4,732	15,844	47,190	62,717	1,047	6,767	3,380
1977 Census	322	344	7,078	290	620	5,725	18,724	58,132	76,518	1,706	(NA)	4,011
1978 ASM	(NA)	359	7,846	304	628	6,358	20,491	64,615	84,901	1,877	(NA)	4,410
1979 ASM	(NA)	349	8,150	292	591	6,497	20,753	64,227	85,147	1,906	(NA)	4,492
1980 ASM	(NA)	274	6,904	221	427	5,400	13,817	52,297	66,257	2,290	(NA)	4,123
Motor vehicle parts, accessories:												
1967 Census	1,674	365	2,891	300	609	2,244	5,712	5,943	11,624	572	5,519	1,469
1970 ASM	(NA)	357	3,357	290	588	2,561	6,432	6,664	13,073	562	6,770	1,822
1971 ASM	(NA)	380	3,957	314	632	3,081	8,116	8,019	16,118	429	6,993	1,894
1972 Census	2,119	401	4,602	332	696	3,620	9,165	9,330	18,334	1,113	7,858	2,050
1973 ASM	(NA)	444	5,491	371	782	4,357	10,641	11,273	21,607	1,034	8,035	2,633
1974 ASM	(NA)	410	5,248	337	676	4,070	10,250	11,686	21,656	1,290	9,296	3,140
1975 ASM	(NA)	362	4,963	294	577	3,799	9,986	11,961	22,030	1,114	9,879	2,885
1976 ASM	(NA)	410	6,454	340	699	5,074	13,709	15,859	29,024	962	10,116	3,668
1977 Census	2,623	451	8,004	373	777	6,285	16,264	19,750	35,751	1,842	(NA)	4,124
1978 ASM	(NA)	476	9,099	391	811	7,145	18,377	22,193	40,283	2,458	(NA)	4,537
1979 ASM	(NA)	459	9,087	373	746	7,009	18,034	22,062	39,807	2,751	(NA)	5,091
1980 ASM	(NA)	369	7,886	287	549	5,869	14,719	17,974	32,881	3,093	(NA)	4,565
Truck trailers:												
1967 Census	179	23	147	18	36	105	269	446	714	22	143	130
1970 ASM	(NA)	23	162	17	34	114	283	492	777	20	194	134
1971 ASM	(NA)	21	162	16	32	115	288	501	787	20	193	144
1972 Census	255	25	206	20	38	149	449	685	1,118	15	208	191
1973 ASM	(NA)	30	250	24	46	183	506	865	1,370	28	227	260
1974 ASM	(NA)	30	276	24	45	198	569	1,087	1,637	30	255	309
1975 ASM	(NA)	19	187	14	26	121	356	536	922	33	273	234
1976 ASM	(NA)	21	234	16	31	158	488	817	1,297	15	251	239
1977 Census	353	28	322	23	43	230	646	1,285	1,910	36	(NA)	355
1978 ASM	(NA)	32	403	26	50	287	939	1,604	2,498	39	(NA)	448
1979 ASM	(NA)	36	476	28	54	342	1,135	1,993	3,088	37	(NA)	493
1980 ASM	(NA)	28	412	21	39	281	834	1,581	2,436	55	(NA)	441

NA Not available.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1977*, MC77-1-37A, and *Annual Survey of Manufactures*.

No. 1433. Transportation Equipment—Value of Shipments: 1960 to 1980

[In millions of dollars. "N.e.c." means not elsewhere classified]

Type of equipment	1960	1965	1970	1972	1975	1976	1977	1978	1979	1980, prel.
Aircraft [1 2]	[3] 4,663	5,277	8,722	7,538	10,881	11,723	12,053	13,610	18,925	23,366
Complete aircraft, military	[3] 2,395	2,657	3,833	2,803	4,017	4,671	4,580	3,719	4,430	5,892
Complete aircraft, personal and utility	1,270	337	3,176	474	1,003	1,204	2,034	6,372	10,883	13,053
Complete aircraft, except personal and utility		1,275		2,787	3,653	3,355	2,672			
Aircraft engines and engine parts	2,779	3,871	4,594	3,070	4,488	4,928	4,995	6,028	7,884	10,010
Aircraft equipment, n.e.c.	3,966	3,883	5,273	3,437	4,842	5,102	5,762	6,456	8,052	9,846
Boat building and repairing	331	423	644	1,031	1,290	1,571	1,822	2,103	2,238	2,129
Motor homes built on purchased chassis	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,495	2,005	962	830
Motor vehicles and car bodies [1]	16,739	26,310	26,811	41,046	43,394	59,753	72,979	80,551	80,133	61,428
Passenger cars and car chassis	14,009	21,852	19,391	29,246	26,883	39,746	47,799	50,815	50,306	42,417
Trucks, truck tractors, and truck chassis	2,573	4,289	5,734	9,586	11,872	16,597	21,544	25,830	25,640	15,493
Motor vehicle parts and accessories	12,273	[4] 18,875	13,189	19,417	23,023	30,385	37,842	42,952	42,906	35,638
Motorcycles, bicycles, and parts	123	226	395	541	705	688	847	1,001	1,112	1,160
Railroad equipment	1,087	2,027	(D)	2,284	3,885	3,336	4,002	5,207	7,313	7,173
Ship building and repairing [1 3]	1,216	1,916	2,594	3,201	5,513	5,833	6,270	6,688	7,466	8,889
Self-propelled ships, military (new)	406	742	1,086	1,100	1,768	1,957	2,212	2,282	2,512	2,903
Self-propelled ships, nonmilitary (new)	351	282	514	816	1,806	1,825	1,917	1,861	1,890	1,810
Travel trailers and campers	(NA)	(NA)	(NA)	1,277	1,083	1,356	1,478	1,539	1,068	845
Truck and bus bodies	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,881	2,166	2,297	2,074
Truck trailers	(NA)	671	765	1,079	876	1,250	1,607	2,390	2,935	2,263

D Withheld to avoid disclosure. NA Not available. [1] Includes data for products not shown separately. [2] See table 1107 for number of civil aircraft shipments. [3] Value of work done. [4] Includes combat vehicles.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1972* and *1977*, and *Annual Survey of Manufactures*.

No. 1434. Home Appliances and Home and Auto Electronics—Shipments and Retail Value: 1970 to 1981

[Compiled from reports of associations and manufacturers. Except as indicated, covers electric appliances only]

PRODUCT	MANUFACTURERS SHIPMENTS (1,000 units)						RETAIL VALUE (mil. dol.)					
	1970	1975	1978	1979	1980	1981	1970	1975	1978	1979	1980	1981
Major appliances	**29,052**	**27,851**	**36,447**	**35,965**	**32,768**	**33,233**	**6,146**	**7,258**	**12,515**	**12,647**	**12,309**	**13,276**
Air treatment [1]	6,485	3,292	4,709	4,680	4,129	4,378	1,254	755	1,459	1,512	1,379	1,620
Air conditioners	5,887	2,670	4,037	3,749	3,187	3,547	1,207	641	1,312	1,327	1,186	1,426
Dehumidifiers	598	392	441	664	718	601	47	37	62	98	111	102
Kitchen appliances [2]	15,492	16,864	22,268	21,989	20,126	20,453	3,410	4,337	8,197	8,227	8,102	8,719
Dishwashers	2,116	2,702	3,557	3,488	2,721	2,573	466	697	1,082	1,138	959	952
Disposers, food	1,977	2,080	3,313	3,316	2,885	3,067	129	187	285	295	277	321
Freezers (10 cu. ft. and over)	1,359	2,457	1,522	1,859	1,715	1,589	302	600	499	699	731	724
Microwave ovens	30	840	2,422	2,815	3,585	4,407	15	337	1,142	1,311	1,612	2,106
Ranges, electric	2,362	2,082	3,218	3,003	2,544	2,413	540	513	1,132	1,152	1,048	1,026
Ranges, gas	2,362	1,618	1,797	1,794	1,534	1,501	510	383	619	643	583	619
Ranges, smooth top	(x)	275	249	220	155	134	(x)	144	138	139	93	80
Refrigerators (6.5 cu. ft. and over)	5,286	4,577	5,890	5,701	5,173	4,997	1,448	1,423	3,228	3,187	3,093	3,277
Trash compactors	(x)	233	300	293	234	209	(x)	52	72	74	62	60
Home laundry	7,075	6,658	8,120	7,998	7,187	7,087	1,482	1,965	2,575	2,612	2,500	2,597
Dryers	2,981	2,680	3,392	3,333	2,933	2,892	525	672	864	906	858	921
Washers	4,094	3,978	4,728	4,666	4,254	4,195	957	1,293	1,711	1,706	1,642	1,676
Compact appliances	(x)	1,037	1,350	1,297	1,326	1,315	(x)	201	284	296	328	340
Kitchen electrics [1]	**50,640**	**57,486**	**73,217**	**76,825**	**81,953**	**81,121**	**949**	**1,295**	**1,841**	**2,032**	**2,257**	**2,364**
Blenders	5,100	4,000	5,660	5,025	4,673	4,823	128	92	113	106	103	111
Broilers	2,605	2,006	2,280	2,423	2,518	2,435	71	66	99	119	133	137
Coffeemakers	8,100	10,656	10,500	12,104	12,957	12,655	130	242	265	298	338	349
Corn poppers	2,300	2,430	3,600	5,280	5,543	5,777	23	29	65	130	141	156
Food processors	(x)	(x)	2,000	3,000	3,180	3,186	(x)	(x)	120	183	204	198
Frypan-skillets	3,200	2,611	2,600	2,709	2,736	2,553	93	89	94	103	109	112
Griddles/quick grills	500	640	646	661	628	580	13	18	18	21	21	21
Irons	9,275	7,883	10,451	10,340	11,184	10,882	159	187	298	287	317	326
Mixers	4,675	4,477	5,175	5,568	5,626	5,330	90	106	132	156	160	171
Slow cookers	(x)	6,500	6,700	5,641	5,585	5,641	(x)	156	141	107	112	119
Toasters	5,975	6,204	8,100	8,916	9,291	9,249	108	144	220	252	268	290
Waffle irons/sandwich grills	1,025	1,028	1,058	1,119	1,141	1,141	19	20	19	25	27	30
Fans	9,875	9,236	10,515	12,449	13,430	14,453	283	238	285	485	553	639
Portable electric heaters	2,835	2,990	4,467	4,437	3,319	3,193	70	70	123	138	109	114
Floor care [1]	8,538	9,120	10,685	10,734	10,255	10,639	548	689	1,136	1,208	1,212	1,310
Floor polishers	1,156	530	520	512	451	441	46	19	23	27	25	26
Vacuum cleaners	7,382	7,650	8,965	8,922	8,400	8,699	502	657	1,091	1,155	1,157	1,250
Personal care [1]	**25,100**	**36,495**	**49,542**	**57,172**	**59,531**	**59,158**	**477**	**707**	**933**	**1,018**	**1,122**	**1,166**
Bed coverings	4,050	4,032	4,900	5,125	5,586	5,161	81	89	127	144	173	175
Hair dryers	6,100	10,496	18,970	18,488	18,865	18,359	146	242	354	313	317	309
Hair setters	5,500	2,033	1,989	2,382	2,735	2,832	121	37	41	52	59	65
Heating pads	3,900	3,500	3,940	4,100	4,389	4,301	23	32	35	37	44	47
Oral hygiene devices	2,850	1,602	1,540	1,650	1,658	1,654	46	23	25	28	31	34
Power mowers	(NA)	5,670	6,315	6,814	6,456	6,026	(NA)	(NA)	1,261	2,260	2,298	2,226
Home and auto electronics:												
Televisions	9,368	11,453	16,300	16,074	17,004	17,026	3,090	3,800	5,694	5,300	5,969	6,281
Black and white	4,546	4,968	6,064	6,281	6,149	5,766	611	529	701	682	685	616
Color	4,822	6,485	10,236	9,793	10,855	11,262	2,479	3,271	4,993	4,618	5,284	5,665
Videocassette recorders	(x)	(x)	402	478	804	1,330	(x)	(x)	356	431	700	1,057
Components, hifi	(NA)	10,105	13,190	14,562	14,700	14,299	(NA)	1,017	1,497	1,705	1,772	1,641
Compact hifi systems	(NA)	3,491	4,474	4,341	3,945	3,578	(NA)	681	963	939	884	693
Portable tape player/recorder	(NA)	10,240	13,198	13,565	15,084	17,393	(NA)	487	681	693	818	764
Tape decks	(NA)	486	650	675	716	784	(NA)	133	182	184	178	173
Radios	34,049	25,276	32,478	28,550	27,012	27,881	682	615	1,056	919	868	863
Autosound	(NA)	6,484	8,655	9,130	18,362	19,251	(NA)	540	888	1,081	1,467	1,606
CB radios	(NA)	4,500	4,736	1,590	1,412	1,522	(NA)	816	393	130	112	126
Blank tape	(NA)	203,844	268,500	244,753	260,063	273,104	(NA)	349	805	687	852	1,039
Audio	(NA)	(NA)	263,000	234,786	244,747	246,393	(NA)	(NA)	710	511	595	629
Video	(NA)	(NA)	5,500	9,967	15,316	26,711	(NA)	(NA)	95	176	258	410
Calculators	(NA)	18,350	23,341	25,380	26,502	28,260	(NA)	1,153	915	843	841	832
Hand-held	(NA)	16,050	20,111	21,317	22,288	23,905	(NA)	613	495	425	420	409
Desk top	(NA)	2,300	3,230	4,063	4,214	4,355	(NA)	540	420	418	422	422
Digital watches	(NA)	4,200	17,750	19,717	21,163	23,595	(NA)	319	643	649	623	625

NA Not available. X Not applicable. [1] Includes products not shown separately. [2] Excludes duplication of microwave and smooth top range combinations.

Source: Gralla Publications, Inc., New York, N.Y., *Merchandising*, 59th Annual Statistical and Marketing Report.