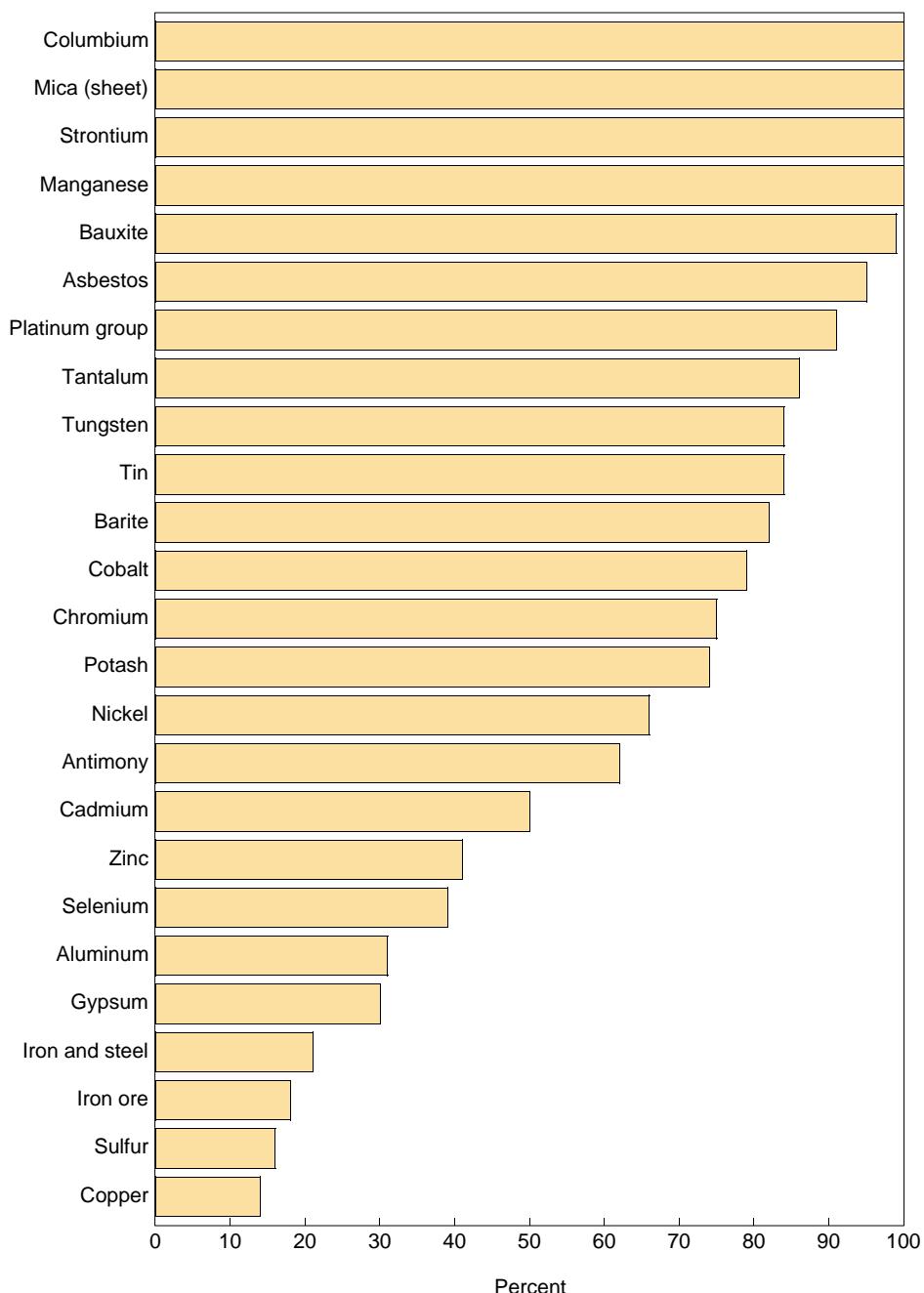


Figure 24.1
**Net U.S. Imports of Selected Minerals and Metals
as a Percent of Apparent Consumption: 1994**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1154.

Natural Resources

This section presents data on the area, ownership, production, trade, reserves, and disposition of natural resources. Natural resources is defined here as including forestry, fisheries, and mining and mineral products.

Forestry—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, and similar data.

The principal sources of data relating to forests and forest products are *An Analysis of the Timber Situation in the United States, 1989-2040*, 1990; *Forest Resources of the United States*, 1992, 1993; *U.S. Timber Production, Trade, Consumption, and Price Statistics*; *Land Areas of the National Forest System*, 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 5 years) and the 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 Forest and Paper Association, Washington, DC.

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. In general, more data are available for lumber and other manufactured products such as particle board and softwood panels, etc., than for the primary forest products such as poles and piling and fuelwood.

Fisheries—The principal source of data relating to fisheries is *Fisheries of the United States*, issued annually by the National Marine Fisheries Service

In Brief

Petroleum balance, 1994:

	Barrels
<i>Products supplied</i>	<i>6.5 billion</i>
<i>Net imports</i>	<i>2.5 billion</i>
<i>Stocks</i>	<i>1.7 billion</i>

(NMFS), National Oceanic and Atmospheric Administration (NOAA).

The NMFS collects and disseminates data on commercial landings of fish and shellfish. Annual reports include quantity and value of commercial landings of fish and shellfish 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 for the wholesaling and fish processing establishments, annual and seasonal employment. The Magnuson Fishery Conservation and Management Act of 1976 (Magnuson Act), Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ), and 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 EEZ. Within the EEZ, 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*, 1993. The NMFS collects and disseminates data on catches by foreign fishing vessels in the EEZ.

Mining and mineral products—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 26 and 30 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 *Minerals Yearbook*, published by the U.S. Geological Survey, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. See text, section 19, for list of Department of Energy publications. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Nongovernment sources include the *Annual Statistical Report* of the American Iron and Steel Institute, Washington, DC; *Metals Week* and the monthly *Engineering and Mining Journal*, issued by the McGraw-Hill Publishing Co., New York, NY; *The Iron Age*, issued weekly by the Chilton Co., Philadelphia, PA; and the *Joint Association Survey* of the U.S. Oil and Gas Industry, conducted jointly 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 U.S. Geological Survey since 1880. Current data in U.S. Geological Survey 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, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the U.S. Geological Survey 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 5 years 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.

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

No. 1121. National Forest System—Summary: 1970 to 1993

[For fiscal years ending in year shown; see text, section 9. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1970*, series J 33-34, for similar grazing data, and L 15-31]

ITEM	Unit	1970	1980	1985	1988	1989	1990	1991	1992	1993
Timber cut, total value	Mil. dol	309	737	725	1,243	1,313	1,191	1,012	938	918
Commercial and cost sales: ¹										
Volume	Mil. bd.	11,527	9,178	10,941	12,649	11,951	10,500	8,475	7,290	5,917
Value	Mil. dol	308	730	721	1,240	1,310	1,188	1,009	935	914.6
Free use:										
Volume	Mil. bd.	179	2,070	399	223	214	151	121	80	80
Value ²	Mil. dol	0.3	5.7	2.2	1.2	1.2	1.0	1.0	0.8	0.8
Misc. forest products:										
Value	Mil. dol	0.7	1.1	1.7	2.0	2.2	2.6	2.7	2.7	2.8
Livestock grazing: ³										
Cattle and horses ⁴	1,000 .	1,607	1,521	1,565	1,313	1,526	1,236	1,265	1,216	(NA)
Sheep and goats	1,000 .	2,105	1,328	1,183	1,067	972	958	1,029	1,017	(NA)
Roads and trails:										
Road construction ⁵	Miles . .	942	925	1,903	1,352	866	857	910	853	816
Trail construction ^{5,6}	Miles . .	278	2,419	987	1,834	1,944	1,635	1,921	1,976	1,976
Receipts, total	Mil. dol	300	703	636	980	1,051	971	772	614	503
Timber use	Mil. dol	284	625	515	888	910	849	667	520	425
Grazing use	Mil. dol	4	16	9	9	11	10	11	11	11
Special land use, etc	Mil. dol	11	62	112	83	130	112	93	84	67
Payments to local govt. ⁷	Mil. dol	73	240	229	325	368	368	335	322	323
25-percent fund ⁸	Mil. dol	72	234	212	317	354	358	327	(NA)	(NA)
Other ⁹	Mil. dol	1	7	17	8	15	10	8	(NA)	(NA)
Allotments to Forest Service ¹⁰	Mil. dol	30	73	60	104	111	106	88	(NA)	(NA)
Roads and trails	Mil. dol	29	65	55	92	96	91	73	(NA)	(NA)
Other	Mil. dol	1	8	5	12	15	14	16	(NA)	(NA)

NA Not available. ¹ Includes land exchanges. ² Includes some free use timber not reducible to board feet. ³ For 1970, data for livestock permitted to graze; thereafter, for number actually grazed. Calendar-year data, prior to 1980. Excludes Puerto Rico. ⁴ Excludes animals under 6 months of age. 1970 includes swine. Beginning 1980, includes burros. ⁵ Includes reconstruction. ⁶ Beginning 1980, includes work accomplished by Human Resource Programs and volunteers. ⁷ Payments made in following year. ⁸ Includes Tongass Alaska suspense account. ⁹ Includes Arizona and New Mexico School Fund (through 1980), State of Minnesota, and receipts paid to counties under Bankhead-Jones Farm Tenant Act. ¹⁰ For use in following year.

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

No. 1122. Forest and Timberland Area, Sawtimber and Stock: 1970 to 1992

[As of Jan. 1]

YEAR AND REGION	Total forest land (mil. acres)	TIMBERLAND, OWNERSHIP ¹				SAWTIMBER, NET VOLUME ³		GROWING STOCK, NET VOLUME ⁴	
		All ownerships (mil. acres)	Federally owned or managed ² (mil. acres)	State, county, and municipal (mil. acres)	Private (mil. acres)	Total (bil. bd. ft.)	Softwood (bil. bd. ft.)	Total (bil. cu. ft.)	Softwood (bil. cu. ft.)
United States, 1970	754	504	116	29	360	2,587	2,035	694	458
North	(NA)	154	11	18	126	295	81	146	39
South	(NA)	203	15	3	185	569	302	191	87
Rocky Mountains	(NA)	65	42	2	20	398	384	101	95
Pacific Coast	(NA)	82	47	5	29	1,325	1,268	257	238
United States, 1987	731	485	97	34	354	2,853	2,040	766	453
North	165	154	11	19	124	459	126	190	48
South	203	197	16	4	177	781	388	245	106
Rocky Mountains	142	61	39	3	20	411	394	108	100
Pacific Coast	220	72	31	8	32	1,202	1,132	223	199
United States, 1992	737	490	97	35	358	2,992	2,047	796	450
North	168	158	11	19	127	540	137	207	51
South	212	199	16	4	179	842	389	251	103
Rocky Mountains	140	63	40	3	20	415	397	110	101
Pacific Coast	217	70	30	8	32	1,196	1,124	218	195

NA Not available. ¹ Timberland is forest land that is producing or is capable of crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as 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 Sawtimber is timber suitable for sawing into lumber. Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for freedom from defect. Softwood trees must be at least 9.0-inches diameter, and hardwood trees must be at least 11.0-inches diameter at 4 1/2 feet above ground. International 1/4-inch rule. ⁴ Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches diameter or larger at 4 1/2 feet above ground.

Source: U.S. Forest Service, *Forest Resources of the United States*, 1992.

No. 1123. National Forest System Land—States and Other Areas: 1990 and 1992

[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 LAND ²		OTHER LANDS WITHIN UNIT BOUNDARIES	
	1990	1992	1990	1992	1990	1992
United States	231,443	231,502	191,324	191,453	40,119	40,049
Alabama	1,280	1,288	658	659	622	629
Alaska	24,345	24,345	22,220	22,193	2,126	2,152
Arizona	11,880	11,887	11,239	11,247	642	641
Arkansas	3,490	3,490	2,509	2,529	981	961
California	24,401	24,401	20,619	20,616	3,782	3,785
Colorado	16,039	16,037	14,462	14,467	1,577	1,570
Connecticut	-	(Z)	-	(Z)	-	-
Delaware	-	-	-	-	-	-
Florida	1,246	1,254	1,128	1,135	118	119
Georgia	1,846	1,846	859	860	987	986
Hawaii	-	(Z)	-	(Z)	-	-
Idaho	21,674	21,674	20,438	20,441	1,236	1,233
Illinois	840	840	266	268	573	572
Indiana	644	644	188	189	456	455
Iowa	-	-	-	-	-	-
Kansas	116	116	108	108	8	8
Kentucky	2,102	2,102	670	673	1,431	1,428
Louisiana	1,022	1,022	601	601	422	421
Maine	93	93	53	53	40	40
Maryland	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-
Michigan	4,885	4,895	2,816	2,849	2,069	2,046
Minnesota	5,467	5,467	2,810	2,815	2,657	2,652
Mississippi	2,310	2,310	1,150	1,153	1,160	1,157
Missouri	3,082	3,082	1,475	1,478	1,606	1,603
Montana	19,101	19,102	16,806	16,806	2,295	2,296
Nebraska	442	442	352	352	90	90
Nevada	6,275	6,275	5,797	5,801	478	474
New Hampshire	825	825	720	721	105	104
New Jersey	-	-	-	-	-	-
New Mexico	10,367	10,367	9,321	9,321	1,046	1,045
New York	13	13	13	13	-	-
North Carolina	3,165	3,165	1,232	1,234	1,934	1,932
North Dakota	1,106	1,106	1,106	1,106	(Z)	-
Ohio	833	833	203	212	630	622
Oklahoma	461	465	297	301	165	164
Oregon	17,502	17,504	15,651	15,655	1,851	1,849
Pennsylvania	744	744	513	513	231	231
Rhode Island	-	-	-	-	-	-
South Carolina	1,376	1,376	607	609	768	767
South Dakota	2,344	2,352	1,996	2,013	349	339
Tennessee	1,212	1,212	628	628	585	585
Texas	1,994	1,994	753	755	1,241	1,240
Utah	9,186	9,186	8,099	8,099	1,087	1,087
Vermont	815	816	340	345	475	471
Virginia	3,223	3,223	1,645	1,648	1,578	1,575
Washington	10,050	10,061	9,151	9,160	899	901
West Virginia	1,863	1,863	1,025	1,025	838	838
Wisconsin	2,023	2,023	1,517	1,518	506	505
Wyoming	9,704	9,704	9,255	9,255	449	449

- Represents zero. Z Less than half the unit of measure. ¹ Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, national grasslands, Land utilization projects, research and experimental areas, and other areas. ² Federally owned land within the "gross area within unit boundaries."

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

No. 1124. Public Lands—Disposal: 1980 to 1993

[For fiscal year ending in year shown: see text, section 9. Period figures are totals, not annual averages.
See also *Historical Statistics, Colonial Times to 1970*, series J 10-15 and J 28-32]

ITEM	Unit	1980	1985	1987	1988	1989	1990	1991	1992	1993
Applications, entries, and selections allowed ¹	1,000 acres	1,167	1,404	1	1	1	7	1	1	-
Applications, entries, and selections approved ¹	1,000 acres	175	6,491	1,812	1,387	579	238	436	1,219	819
Patents and certificates ¹	1,000 acres	2,495	4,217	3,000	5,419	780	1,052	476	1,585	
Mineral class, total	Number	106,125	119,419	89,789	82,585	83,762	81,355	83,358	72,337	59,631
Leases ²	Number	105,963	119,101	89,546	82,450	83,656	81,248	83,259	72,192	59,523
Permits ²	Number	132	316	231	121	96	96	88	121	84
Licenses	Number	30	2	12	14	10	11	11	24	24
Grazing Leases ³	Number	7,700	7,387	7,164	7,197	7,263	7,105	7,185	7,036	6,994
Permits ⁴	Number	14,741	12,493	12,368	12,537	12,362	12,153	12,312	12,128	12,069

¹ Represents or rounds to zero. ² Excludes Indian fee and reissue trust and corrective patents. ³ Excludes free-use permits for disposition of mineral materials. ⁴ Beginning 1985, as of September 30. ⁴ Licenses and permits within grazing districts.

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

No. 1125. Timber-Based Industries—Summary of Manufactures: 1991 and 1992

[Data based on 1987 *Standard Industrial Classification Manual*, published by the Office of Management and Budget, see text, section 26. N.e.c. = Not elsewhere classified]

INDUSTRY	SIC ¹ code	1991			1992		
		All employees		Value of shipments (bil. dol.)	All employees		Value of shipments (bil. dol.)
		Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)	
Logging and sawmills	241/242	207.6	4,307	28.9	221.7	4,739	31.3
Millwork and veneer ²	243	209.9	4,487	21.4	224.6	5,027	24.9
Wood containers	244	39.8	634	2.9	40.0	639	2.9
Wood buildings, mobile homes	245	54.1	1,106	6.0	56.2	1,230	6.6
Miscellaneous wood products	249	90.9	1,706	9.5	84.9	1,740	10.3
Pulp mills	261	16.8	697	5.3	15.9	688	5.5
Paper mills	262	130.3	5,224	33.3	130.7	5,425	32.8
Paperboard mills	263	50.6	2,027	15.0	51.5	2,135	16.1
Paperboard containers and boxes	265	198.6	5,392	30.6	199.0	5,710	32.6
Converted paper and paperboard products ³	267	224.3	6,043	44.6	229.2	6,521	46.0

¹ Standard Industrial Classification code; see text, section 13. ² Includes plywood and structural members. ³ Except containers and boxes.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1992 Final Industry Series*, MC87-I-24A-D and MC87-I-26A-C, and *Annual Survey of Manufactures*.

No. 1126. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1970 to 1988

[In millions of cubic feet, roundwood equivalent. See also *Historical Statistics, Colonial Times to 1970*, series L 72-97]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988, prel.
Industrial roundwood:										
Domestic production	Mil. cu. ft.	11,105	10,575	12,120	12,065	12,725	12,515	13,845	14,670	14,985
Imports	Mil. cu. ft.	2,430	2,215	3,250	3,710	4,165	4,340	4,375	4,575	4,445
Exports	Mil. cu. ft.	1,540	1,685	2,350	2,110	2,060	2,070	2,300	2,650	3,200
Consumption	Mil. cu. ft.	11,995	11,105	13,020	13,665	14,830	14,785	15,920	16,595	16,230
Lumber:										
Domestic production	Mil. cu. ft.	5,215	4,890	5,300	5,370	5,770	5,665	6,545	6,990	6,920
Plywood and veneer:										
Domestic production	Mil. cu. ft.	1,020	1,165	1,175	1,365	1,400	1,420	1,505	1,650	1,630
Pulp products:										
Domestic production	Mil. cu. ft.	3,835	3,485	4,390	4,165	4,355	4,165	4,545	4,670	4,885
Logs:										
Imports	Mil. cu. ft.	25	15	25	30	30	20	15	15	15
Pulpwood chips, exports	Mil. cu. ft.	145	195	275	155	145	145	150	160	215
Fuelwood consumption	Mil. cu. ft.	540	570	3,105	3,235	3,620	3,450	3,115	3,150	3,360
Timber products, per capita	Cu. ft.	61.1	54.0	70.8	72.0	77.9	76.2	78.8	81.0	79.5
Industrial roundwood	Cu. ft.	58.5	51.4	57.2	58.2	62.6	61.8	65.9	68.0	65.9
Fuelwood	Cu. ft.	2.6	2.6	13.6	13.8	15.3	14.4	12.9	12.9	13.6
Lumber	Bd. ft.	193.0	171.0	188.0	190.0	205.0	207.0	224.0	233.0	221.0
Plywood and veneer	Bd. ft.	34.0	32.0	30.0	34.0	34.0	35.0	37.0	39.0	37.0
Pulp products	Cords (128 cu. ft.)	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual.

No. 1127. Selected Species—Stumpage Prices In Current and Constant (1982) Dollars: 1980 to 1993

[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	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CURRENT DOLLARS												
Softwoods:												
Douglas fir ¹	432	162	133	126	161	190	256	390	466	395	477	318
Southern pine ²	155	141	139	91	104	136	142	131	127	166	198	217
Sugar pine ³	667	138	84	110	170	288	260	289	285	241	492	598
Ponderosa pine ^{3,4}	206	104	123	101	157	209	182	292	252	238	292	535
Western hemlock ⁵	213	62	62	51	75	105	163	223	203	164	165	364
Hardwoods:												
All eastern hardwoods ⁶	52	60	90	65	70	88	151	136	146	160	167	264
Oak, white, red, and black ⁶	66	88	145	95	108	147	146	179	188	164	211	195
Maple, sugar ⁷	70	55	81	70	66	81	108	129	135	121	145	220
CONSTANT (1982) DOLLARS ⁸												
Softwoods:												
Douglas fir ¹	481	160	128	122	160	185	240	347	401	339	407	270
Southern pine ²	173	139	134	88	103	132	133	117	109	143	169	184
Sugar pine ³	742	136	81	106	169	280	244	258	245	207	419	508
Ponderosa pine ^{3,4}	230	103	118	98	156	204	170	260	217	204	249	455
Western hemlock ⁵	237	61	60	49	75	103	152	199	175	141	140	309
Hardwoods:												
All eastern hardwoods ⁶	58	59	87	63	70	86	142	121	126	137	142	224
Oak, white, red, and black ⁶	73	87	140	92	108	143	137	159	162	140	180	166
Maple, sugar ⁷	78	54	78	68	66	78	101	115	116	104	123	187

¹ Western Washington and western Oregon. ² Southern region. ³ Pacific Southwest region (formerly California region). ⁴ Includes Jeffrey pine. ⁵ Pacific Northwest region. ⁶ Eastern and Southern regions. ⁷ Eastern region. ⁸ Deflated by the producer price index, all commodities.

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

No. 1128. Lumber Consumption, by Species Group and End Use: 1970 to 1992

[In million board feet, except per capita in board feet. Per capita consumption based on estimated resident population as of July 1]

ITEM	1970	1986	1991	1992	END-USE		1970	1976	1986	1991
					New housing	Residential upkeep and improvements				
Total	39.9	57.0	54.8	56.0	New housing		13.3	17.0	19.3	15.0
Per capita	194	237	217	219	Residential upkeep and improvements		4.7	5.7	10.1	11.6
Species group:					New nonresidential construction		4.7	4.5	5.3	5.4
Softwoods	32.0	48.0	44.0	45.7	Manufacturing		4.7	4.9	4.8	5.6
Hardwoods	7.9	9.0	10.8	10.3	Shipping		5.7	5.9	6.8	8.2
					Other ²		6.8	6.7	10.9	8.8

¹ In addition to new construction, includes railroad ties laid as replacements in existing track and lumber used by railroads for railroad repair. ² Includes upkeep and improvement of nonresidential buildings and structures; made-at-home projects, such as furniture, boats, and picnic tables; made-on-the-job items such as advertising and display structures; and miscellaneous products and uses.

Source: U.S. Forest Service, *The 1993 RPA Timber Assessment Update*, forthcoming.

No. 1129. Selected Timber Products—Producer Price Indexes: 1980 to 1994

[See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	Unit	1980	1985	1990	1992	1993	1994
Lumber and wood products, except furniture	Dec. 1984=100	(NA)	100.3	117.0	129.7	148.3	154.4
Logging camps and logging contractors	Dec. 1981=100	(NA)	94.8	135.6	151.3	186.4	192.6
Sawmills and planing mills	Dec. 1984=100	(NA)	99.7	113.7	131.3	161.8	165.2
Millwork, veneer, and plywood ¹	Dec. 1984=100	(NA)	99.9	115.4	128.4	142.8	148.7
Softwood plywood	Dec. 1980=100	91.4	90.0	102.5	124.2	145.4	153.1
Wood containers	June 1985=100	(NA)	(NA)	113.9	123.5	141.7	147.4
Wood buildings and mobile homes	Dec. 1984=100	(NA)	100.6	115.5	121.5	129.5	139.8
Particleboard	Dec. 1982=100	92.1	110.0	117.1	120.7	138.6	156.2
Paper and allied products	Dec. 1984=100	(NA)	98.8	121.9	121.2	120.2	123.6
Pulp mills	Dec. 1982=100	105.5	100.9	153.8	118.5	105.8	117.2
Paper mill products; except building paper	June 1981=100	93.5	109.5	134.0	126.6	126.6	128.4
Paperboard mills	Dec. 1982=100	97.3	112.0	146.0	142.6	138.3	152.2
Converted paper and paperboard products ²	June 1993=100	(NA)	(NA)	(NA)	(NA)	(NA)	100.6
Paperboard containers and boxes	Dec. 1984=100	(NA)	98.4	117.7	118.5	118.0	123.7

NA Not available. ¹ Includes structural wood members. ² Excludes containers and boxes.

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

No. 1130. Paper and Paperboard—Production, New Supply, and Ratio of New Supply to Real GDP: 1990 to 1993

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

ITEM	PRODUCTION				NEW SUPPLY				RATIO OF NEW SUPPLY TO REAL GDP ¹			
	1990	1991	1992	1993	1990	1991	1992	1993	1990	1991	1992	1993
Total paper	39,361	39,084	40,973	41,745	49,494	47,379	49,424	51,244	10,106	9,734	9,926	9,980
Total paperboard	39,423	40,416	41,985	43,213	36,406	36,826	38,543	40,045	7,434	7,566	7,741	7,799
Unbleached Kraft	20,357	20,950	21,658	21,447	17,780	17,794	18,515	18,456	3,631	3,656	3,718	3,595
Semicheical	5,640	5,552	5,762	5,672	5,609	5,482	5,730	5,774	1,145	1,126	1,151	1,125
Bleached Kraft	4,399	4,572	4,503	4,583	3,638	3,781	3,690	3,788	0,743	0,777	0,741	0,738
Recycled	9,026	9,332	10,063	11,510	9,378	9,768	10,608	12,026	1,915	2,007	2,130	2,342

¹ GDP = Gross domestic product.

Source: American Forest and Paper Association, Washington, DC, *Monthly Statistical Summary of Paper, Paperboard and Woodpulp*.

No. 1131. Newsprint—Production, Stocks, Consumption, and Price Index: 1970 to 1992

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

COUNTRY AND ITEM	1970	1980	1985	1987	1988	1989	1990	1991	1992
Canada: Production	7,808	8,625	8,890	9,630	9,840	9,640	9,068	8,977	8,931
Shipments from mills	7,795	8,622	8,899	9,718	9,740	9,606	9,074	8,728	9,143
Stocks at mills, end of year . . .	236	165	288	189	288	321	315	564	351
United States:									
Consumption, estimate	6,468	10,088	11,507	12,303	12,245	12,241	12,125	11,381	11,634
Production	3,142	4,239	4,924	5,300	5,427	5,523	5,997	6,206	6,424
Shipments from mills	3,136	4,234	4,927	5,310	5,415	5,515	6,007	6,152	6,464
Stocks, end of year: At mills . . .	33	21	57	36	48	56	46	98	59
At and in transit to publishers . .	749	732	910	900	932	749	801	932	938
Producer price index (1982=100)	34.1	188.5	105.3	112.3	127.6	122.5	119.5	120.9	109.9

¹ Average for 11 months.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly. Data from American Forest and Paper Association, Washington, DC, and Canadian Pulp & Paper Association.

No. 1132. Selected Timber Products—Imports and Exports: 1970 to 1993

ITEM	Unit	1970	1980	1985	1988	1989	1990	1991	1992	1993, prel.
IMPORTS¹										
Lumber, total ²	Mil. bd. ft. .	6,114	9,866	14,996	14,226	15,277	12,159	11,756	13,474	15,625
From Canada	Percent	96.0	97.5	97.6	97.5	91.3	98.5	98.3	98.3	97.6
Softwoods	Mil. bd. ft. .	5,778	9,573	14,632	13,841	14,928	11,927	11,545	13,214	15,260
Hardwoods	Mil. bd. ft. .	337	293	364	386	349	232	210	260	335
Logs, total	Mil. bd. ft. ³ .	144	128	99	68	42	28	15	46	94
From Canada	Percent	79.6	97.4	81.8	91.9	61.5	67.5	74.5	88.9	77.7
Softwoods	Mil. bd. ft. ³ .	107	114	71	56	24	18	9	40	86
Hardwoods	Mil. bd. ft. ³ .	38	13	28	12	18	10	6	7	8
Paper and board ⁴	1,000 tons .	7,115	8,780	11,522	13,110	13,100	13,148	12,167	12,543	13,971
Woodpulp	1,000 tons .	3,518	4,051	4,466	4,938	5,105	4,893	4,997	5,029	5,413
Plywood	Mil. sq. ft. ⁵ .	2,049	1,235	1,817	1,698	1,955	1,687	1,457	1,776	1,798
EXPORTS										
Lumber, total ²	Mil. bd. ft. .	1,243	2,494	1,945	4,527	4,243	3,802	3,997	3,603	3,385
To: Canada	Percent	21.7	25.3	23.7	17.6	15.6	18.1	15.1	17.3	17.4
Japan	Percent	30.8	26.0	32.1	34.5	38.1	33.5	30.5	30.9	36.3
Europe	Percent	24.1	23.8	15.1	20.5	16.6	19.1	19.6	21.2	15.9
Softwoods	Mil. bd. ft. .	1,115	2,007	1,518	3,266	3,379	2,941	3,055	2,613	2,376
Hardwoods	Mil. bd. ft. .	128	487	427	1,261	863	861	942	990	1,008
Logs, total	Mil. bd. ft. ³ .	2,741	3,261	3,843	4,798	4,745	4,262	3,816	3,316	2,877
To: Canada	Percent	10.6	9.7	11.6	7.9	5.8	9.3	11.2	12.6	13.6
Japan	Percent	86.3	78.0	49.4	50.3	63.5	62.5	56.7	62.1	65.4
China: Mainland	Percent	2.7	27.8	23.4	9.6	8.5	9.7	7.1	4.6	
Softwoods	Mil. bd. ft. ³ .	2,672	3,109	3,732	4,594	4,532	4,044	3,532	3,092	2,640
Hardwoods	Mil. bd. ft. ³ .	69	152	111	204	214	218	283	224	237
Paper and board ⁴	1,000 tons .	2,817	5,214	4,071	5,691	6,300	6,796	8,331	8,971	9,126
Woodpulp	1,000 tons .	3,095	3,806	3,796	5,528	6,231	5,906	6,337	7,222	6,499
Plywood	Mil. sq. ft. .	172	413	358	1,093	1,562	1,767	1,552	1,759	1,648

NA Not available. ¹ Customs value of imports; see text, section 28. ² Includes railroad ties. ³ Log scale. ⁴ Includes paper and board products. Excludes hardboard. ⁵ 3/8 inch basis.

Source: U.S. Foreign Agricultural Service, unpublished data. Trade, Consumption, and Price Statistics: 1960-89, forthcoming.

No. 1133. Fishery Products—Domestic Catch and Imports, Summary: 1970 to 1993

[Live weight, in millions of pounds, except percent. 1979-1993 preliminary. For data on commercial catch for selected countries, see table 1361, section 30. See *Historical Statistics, Colonial Times to 1970*, series L 224-226, for domestic catch]

ITEM	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	11,474	11,357	12,552	15,150	14,368	15,744	14,628	15,485	16,349	16,364	16,106	20,334
For human food	6,213	8,006	8,498	9,337	9,620	10,561	10,505	12,268	12,662	13,020	13,242	13,821
For industrial use	5,261	3,351	4,054	5,813	4,748	5,183	4,123	3,217	3,687	3,344	2,864	6,513
Domestic catch	4,917	6,482	6,438	6,258	6,031	6,896	7,192	8,463	9,404	9,484	9,637	10,467
For human food	2,537	3,654	3,320	3,294	3,393	3,946	4,588	6,204	7,041	7,031	7,618	8,214
For industrial use	2,380	2,828	3,118	2,964	2,638	2,950	2,604	2,259	2,363	2,453	2,019	2,253
Imports	6,557	4,875	6,114	8,892	8,337	8,848	7,436	7,022	6,945	6,879	6,469	9,867
For human food	3,676	4,352	5,178	6,043	6,227	6,615	5,917	6,064	5,621	5,989	5,624	5,607
For industrial use	2,881	523	936	2,849	2,110	2,233	1,519	958	1,324	890	845	4,260
Disposition	4,917	6,482	6,438	6,258	6,031	6,896	7,192	8,463	9,404	9,484	9,637	10,467
Fresh and frozen	1,595	2,621	2,336	2,242	2,487	3,157	3,813	5,585	6,501	6,541	7,288	7,744
Canned	1,150	1,161	1,128	1,232	1,134	1,009	1,017	798	751	674	543	649
Cured	71	96	82	70	60	89	86	128	126	119	100	115
Reduced to meal, oil, etc.	2,101	2,604	2,892	2,714	2,350	2,641	2,276	1,952	2,026	2,150	1,696	1,959

¹ For univalve 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.

No. 1134. Fisheries—Quantity and Value of Domestic Catch: 1970 to 1993

[1979-1993 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 224-226, L 229, and L 310]

YEAR	QUANTITY (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For indus- trial prod- ucts ²				Total	For human food	For indus- trial prod- ucts ²		
1970	4,917	2,537	2,380	613	12.5	1986	6,031	3,393	2,638	2,763	45.8
1975	4,877	2,465	2,412	977	20.0	1987	6,896	2,950	3,946	3,115	45.2
1980	6,482	3,654	2,828	2,237	34.5	1988	7,192	4,588	2,604	3,520	48.9
1981	5,977	3,547	2,430	2,388	40.0	1989	8,463	6,204	2,259	3,238	38.30
1982	6,367	3,285	3,082	2,390	37.5	1990	9,404	7,041	2,363	3,522	37.50
1983	6,439	3,238	3,201	2,355	36.6	1991	9,484	7,031	2,453	3,308	34.90
1984	6,438	3,320	3,118	2,350	36.5	1992	9,637	7,618	2,019	3,678	38.19
1985	6,258	3,294	2,964	2,326	37.2	1993	10,467	8,214	2,253	3,471	33.2

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

No. 1135. Domestic Fish and Shellfish Catch and Value, by Species: 1985 to 1993

SPECIES	QUANTITY (1,000 lb.)				VALUE (\$1,000)		
	1988-92 5-year average	1985	1990	1993	1985	1990	1993
Total	(X)	6,257,642	9,403,571	10,466,895	2,326,237	3,521,995	3,471,460
Fish, total¹	(X)	5,214,363	8,091,068	8,999,142	1,193,427	1,900,097	1,884,121
Cod: Atlantic	80,859	82,823	95,881	50,503	35,140	61,329	44,956
Pacific	453,996	120,275	526,396	482,799	18,556	91,384	116,172
Flounder	347,282	195,718	254,519	599,180	129,121	112,921	135,598
Herring, sea: Atlantic	104,642	57,133	113,095	109,645	2,968	5,746	6,511
Herring, sea: Pacific	128,219	142,074	108,120	106,572	47,025	32,179	18,711
Menhaden	1,931,671	2,739,401	1,962,160	1,983,319	100,680	93,896	103,258
Pollock, Alaska	2,506,943	92,833	3,108,031	3,257,990	5,409	268,344	358,378
Salmon	724,855	726,946	733,146	888,134	439,795	612,367	423,530
Shellfish, total¹	(X)	1,043,279	1,312,503	1,467,753	1,132,810	1,621,898	1,587,339
Clams	137,159	150,551	139,198	147,752	128,349	130,194	138,030
Crabs	537,548	337,632	499,416	604,437	203,044	483,837	510,494
Lobsters: American	56,353	46,152	61,017	56,513	114,895	154,677	151,746
Oysters	31,805	44,173	29,193	33,575	70,053	93,718	86,698
Scallops: Calico	19,583	12,513	(NA)	(NA)	1,281	(NA)	(NA)
Sea	35,412	15,829	39,917	18,116	74,562	153,696	105,603
Shrimp	337,347	333,691	346,494	292,887	472,850	491,433	412,896
Squid: Atlantic	65,250	7,157	59,809	90,809	7,256	21,178	38,323
Pacific	55,219	22,276	36,082	71,550	4,047	2,636	8,079

NA Not available. X Not applicable. ¹ Includes other types of fish and shellfish, not shown separately.

Source of tables 1133-1135: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1136. U.S. Private Aquaculture—Trout and Catfish Production and Value: 1988 to 1994

[Periods are from Sept. 1 of the previous year to Aug. 31 of stated year. Data are for foodsize fish, those over 12 inches long]

ITEM	Unit	1988	1989	1990	1991	1992	1993	1994
TROUT								
Number sold	Mil.	70.5	67.4	67.8	67.7	64.5	60.9	58.3
Total weight	Mil. lb	56.0	55.5	56.8	58.9	55.2	54.6	52.1
Total value of sales	Mil. dol.	57.9	60.0	64.6	58.3	51.0	54.3	52.7
Average price received	\$/lb.	1.03	1.08	1.14	0.99	0.92	0.99	1.01
Average weight	Lb	0.8	0.8	0.8	0.9	0.9	0.9	0.9
CATFISH								
Fish sold to processors	Mil. lb	295.1	341.9	360.4	390.9	457.4	459.0	(NA)
Avg. price paid by processors	Cents/lb.	76.4	71.7	75.8	63.1	59.8	71.0	(NA)
Value	Mil. dol.	225.5	245.1	273.2	246.7	273.5	325.9	(NA)
Processor sales	Mil. lb	149.6	176.3	183.1	199.8	231.3	233.5	(NA)
Avg. price received by processors	Cents/lb.	220.8	211.2	224.0	208.6	200.3	218.7	(NA)
Value	Mil. dol.	330.3	372.3	410.1	416.8	463.3	510.7	(NA)
Inventory (Jan. 1)	Mil. lb	5.3	8.8	8.1	9.4	9.6	11.6	9.5

NA Not available.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, USDA.

No. 1137. Supply of Selected Fishery Items: 1980 to 1993

[In millions of pounds. Totals available for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught. Data are preliminary]

ITEM	Unit	1980	1984	1985	1987	1988	1989	1990	1991	1992	1993
Tuna, canned	Canned weight	666	777	759	866	843	1,028	856	933	922	835
Shrimp	Heads-off weight	425	584	633	773	767	743	734	744	820	840
Clams	Meat weight	102	144	164	151	145	150	152	144	155	156
Salmon, canned	Canned weight	126	150	113	76	59	159	148	131	73	114
American lobster	Round weight	69	100	108	116	121	85	95	107	95	92
Spiny lobster	Round weight	127	153	154	151	139	89	89	85	81	76
Scallops	Meat weight	51	87	72	79	74	79	74	62	69	66
Sardines, canned	Canned weight	69	58	76	77	63	61	61	52	41	41
Oysters	Meat weight	71	84	90	92	78	66	56	47	50	48
Crab meat, canned	Canned weight	9	7	8	8	8	8	9	11	9	9
Snow crab	Round weight	54	23	45	29	30	58	37	60	88	66
King crab	Round weight	133	13	11	14	10	18	19	20	15	8

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

No. 1138. Canned, Fresh, and Frozen Fishery Products: 1980 to 1993

[Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only. 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.)					
	1980	1985	1990	1991	1992	1993	1980	1985	1990	1991	1992	1993
Canned, 1	1,516	1,161	1,178	1,386	1,343	1,615	1,928	1,360	1,562	1,644	1,577	1,626
Tuna	602	545	581	593	609	619	1,144	821	902	877	888	904
Salmon	200	159	196	196	152	199	376	228	366	413	293	307
Clam products	77	117	110	129	126	116	66	109	76	84	88	90
Mackerel ²	38	15	23	9	5	(NA)	12	7	11	3	2	(NA)
Sardines, Maine	20	20	13	14	17	14	32	38	17	19	25	25
Shrimp	16	4	1	1	1	1	80	19	3	4	4	4
Crabs	5	1	1	(Z)	(Z)	(Z)	19	2	4	(Z)	1	1
Oysters ³	(Z)	2	1	1	(NA)	(Z)	(Z)	2	1	2	(NA)	(Z)
Fish fillets and steaks ⁴ . . .	202	246	441	473	449	409	261	440	843	1,021	912	829
Cod	31	57	65	71	65	54	43	89	132	180	158	131
Flounder	49	69	54	48	46	35	87	157	154	147	120	100
Haddock	17	8	7	8	5	4	29	19	24	30	19	17
Ocean perch, Atlantic	7	2	1	1	1	1	9	3	1	1	3	2
Rockfish	14	18	33	22	19	18	13	25	53	36	30	28
Pollock, Atlantic	9	15	12	8	9	8	9	17	21	18	19	18
Pollock, Alaska	(NA)	11	164	152	165	154	(NA)	24	174	206	205	179
Other	74	66	105	163	139	135	71	106	284	403	358	354

NA Not available. Z Less than 500,000 pounds or \$500,000. ¹ Includes other products, not shown separately. ² Includes Jack and a small amount of Pacific mackerel. ³ Includes oyster specialties. ⁴ Fresh and frozen.

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

No. 1139. Gross Domestic Product (GDP) in Mining: 1980 to 1993

[In millions of dollars, except percent. For definition of gross domestic product, see text, section 14. For 1977-87, based on 1972 Standard Industrial Classification (SIC); For 1987, estimates are shown first based on the 1972 SIC and then on the 1987 SIC. Estimates thereafter based on 1987 SIC]

MINING INDUSTRY	1980	1985	1987	1988	1989	1990	1991	1992	1993
Current dollars, total	112.6	130.6	83.0	87.9	84.2	103.1	92.0	85.2	89.4
Metal mining	4.4	2.5	2.6	4.8	5.2	6.2	6.3	6.3	6.8
Coal mining	13.6	13.8	12.5	12.5	12.9	12.7	12.4	13.1	12.3
Oil and gas extraction	89.1	108.4	60.8	63.2	58.8	76.9	66.1	58.5	62.7
Nonmetallic minerals, except fuels	5.5	5.9	7.2	7.3	7.4	7.2	7.1	7.3	7.6
Constant (1987) dollars, total	79.9	83.3	83.0	94.2	83.3	91.8	92.3	89.0	93.1
Metal mining	1.6	2.5	2.6	4.3	5.0	6.6	7.7	8.0	8.6
Coal mining	10.1	11.3	12.5	13.8	14.8	15.3	15.5	16.7	16.2
Oil and gas extraction	61.8	63.2	60.8	69.0	56.2	62.9	62.2	57.2	61.1
Nonmetallic minerals, except fuels	6.4	6.3	7.2	7.1	7.3	7.0	6.9	7.1	7.2

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, October 1994.

No. 1140. Mining and Primary Metal Production Indexes: 1970 to 1994

[1987=100. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

INDUSTRY GROUP	1970	1980	1985	1986	1988	1989	1990	1991	1992	1993	1994
Mining	100.4	110.0	109.0	101.0	101.3	100.0	102.0	100.2	98.9	98.2	99.8
Coal	67.2	90.2	96.3	97.1	103.1	107.0	112.2	108.2	108.2	102.9	112.0
Anthracite	274.1	169.6	132.8	120.8	115.6	96.3	103.2	72.7	66.1	(NA)	(NA)
Bituminous	66.0	89.7	96.1	96.9	105.0	105.8	113.3	109.4	105.8	(NA)	(NA)
Oil and gas extraction	104.8	112.1	111.9	102.0	99.7	96.0	96.8	95.9	93.2	93.0	92.9
Metal mining	129.5	108.8	91.3	95.2	120.3	140.5	153.1	153.7	163.8	162.4	159.4
Iron ore	194.4	149.4	104.9	84.4	119.4	122.5	117.9	118.3	116.3	115.7	122.5
Nonferrous ores	111.5	95.0	86.4	99.1	120.5	144.1	160.2	160.8	173.3	171.7	166.4
Copper ore	123.2	93.1	86.9	91.2	113.7	120.0	126.8	131.1	141.9	143.3	145.4
Primary metals, manufacturing	115.2	110.8	101.8	93.7	108.7	107.2	106.5	98.7	101.9	106.9	114.5
Nonferrous metals	77.1	92.5	98.5	97.3	103.1	101.7	99.5	96.1	97.6	101.0	109.3
Copper	135.2	94.7	99.8	99.1	100.1	98.9	102.2	110.0	124.8	135.3	137.5
Aluminum	107.8	138.7	104.7	90.9	117.6	120.5	121.0	123.2	120.5	110.5	98.6
Iron and steel	148.2	126.0	104.5	90.8	112.7	111.2	111.5	100.5	105.1	111.4	118.3

NA Not available.

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

No. 1141. Summary of Mineral Operations: 1963 to 1992

[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	1963	1967	1972	1977	1982	1987	1992
Establishments	Number	38,651	28,579	25,269	31,359	42,241	33,617	30,828
With 20 or more employees	Number	5,499	5,682	5,312	6,632	(NA)	6,299	5,581
Including all operations in manufactures	Number	40,532	29,688	26,178	31,967	42,585	34,041	(NA)
Excluding oil and gas extraction	Number	19,290	13,330	11,680	13,520	12,267	10,707	9,951
Employees, total	1,000.	616	567	595	799	1,114	698	637
Production workers 1	1,000.	482	433	443	593	762	451	414
All other	1,000.	134	134	152	206	352	247	223
Worker-hours, production workers 1	Million	973	892	909	1,183	1,578	942	873
Worker-hours per production workers	1,000.	2.0	2.1	2.1	2.0	2.1	2.1	2.1
Payroll, total	Mil. dol.	3,743	4,187	6,226	13,167	28,637	21,739	24,303
Wages, production workers 1	Mil. dol.	2,680	2,888	4,250	9,082	18,030	12,443	13,874
Salaries, all other employees	Mil. dol.	1,063	1,299	1,976	4,085	10,607	9,296	10,429
Cost of supplies, etc. 2	Mil. dol.	8,974	10,576	14,884	46,079	109,697	62,423	64,602
Value added in mining	Mil. dol.	15,910	19,330	26,471	68,013	188,056	110,959	113,780
Metal mining	Mil. dol.	1,418	1,557	2,382	3,504	3,215	4,610	7,180
Coal mining	Mil. dol.	1,727	2,091	3,754	11,266	18,631	17,068	17,283
Oil and gas extraction	Mil. dol.	11,020	13,394	17,612	48,587	159,937	80,049	79,700
Nonmetallic minerals mining	Mil. dol.	1,745	2,288	2,723	4,656	6,273	9,233	9,619
Value of shipments and receipts 3	Mil. dol.	18,804	22,784	36,319	96,375	250,000	157,964	162,339
Capital expenditures	Mil. dol.	3,264	4,058	5,036	17,718	47,753	15,418	16,043

NA Not available. ¹ See footnote 3, table 1142. ² Includes purchased machinery installed. ³ See footnote 5, table 1142.

Source: U.S. Bureau of the Census, *Census of Mineral Industries*, 1972, 1977, 1982, 1987, and 1992.

No. 1142. Mineral Industries—Summary: 1987 and 1992

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

MINERAL INDUSTRY	1987							1992							Capital expenditures (mil. dol.)		
	Establishments, total	All employees		Production workers ³		Value added in mining ⁴ (mil. dol.)	Value of shipments and receipts ⁵ (mil. dol.)	Establishments		All employees		Production workers ³		Value added in mining ⁴ (mil. dol.)	Value of shipments and receipts ⁵ (mil. dol.)		
		Number (1,000)	Pay-roll ² (mil. dol.)	Number (1,000)	Wages (mil. dol.)			Total	With 20 or more employees	Number (1,000)	Pay-roll ² (mil. dol.)	Number (1,000)	Hours ⁶ (mil.)	Wages (mil. dol.)			
All industries	33,617	698	21,739	451	12,443	110,959	157,964	30,828	5,581	637	24,303	414	873	13,874	113,780	162,339	16,043
Metal mining	1,027	44	1,354	34	952	4,610	6,852	1,063	273	53	2,113	42	89	1,542	7,180	10,327	1,574
Iron ores	51	7	224	6	166	768	1,362	40	18	9	348	7	15	274	985	1,715	53
Copper ores	61	14	405	11	283	1,301	2,150	62	35	15	550	12	25	405	1,730	2,935	516
Lead and zinc ores	39	2	58	1	40	176	268	44	24	3	113	2	5	86	287	472	22
Gold and silver ores	372	13	423	10	305	1,814	2,261	428	116	19	827	16	33	601	3,641	4,453	(D)
Ferroalloy ores, except vanadium	58	1	46	1	24	61	110	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Metal mining services	268	3	81	2	60	176	251	303	38	3	120	3	6	92	263	357	(D)
Miscellaneous metal ores	236	5	162	4	99	374	559	186	42	4	155	3	5	84	274	396	58
Coal mining	3,905	163	5,567	129	4,251	17,068	25,955	3,086	1,239	134	5,438	108	227	4,197	17,283	26,984	1,899
Bituminous coal and lignite mining	3,507	158	5,410	124	4,125	16,679	25,347	2,642	1,155	128	5,247	103	216	4,051	16,792	26,269	1,869
Anthracite mining	107	2	41	2	32	109	206	76	19	2	47	1	2	30	97	161	4
Coal mining services	291	4	116	3	94	280	402	368	65	5	145	4	9	116	394	554	26
Oil and gas extraction	22,910	378	11,961	206	5,283	80,049	112,363	20,877	2,686	344	13,526	187	391	5,992	79,700	111,518	11,423
Crude petroleum and natural gas	10,203	199	7,510	69	2,154	67,955	76,518	9,388	1,017	174	8,409	64	131	2,601	66,297	72,298	9,850
Natural gas liquids	714	13	433	10	320	4,025	24,750	591	197	13	532	9	18	360	4,246	27,206	619
Oil and gas field services	11,993	167	4,018	127	2,809	8,069	11,095	10,898	1,472	157	4,585	114	242	3,031	9,156	12,014	955
Drilling oil and gas wells	2,591	55	1,318	46	1,012	2,549	3,626	2,129	450	48	1,371	38	81	982	2,516	3,584	289
Oil, gas exploration services	1,917	17	452	13	311	771	1,096	1,489	85	14	462	8	19	238	742	980	182
Oil, gas field services, n.e.c.	7,485	95	2,248	69	1,486	4,748	6,373	7,280	937	96	2,753	68	143	1,811	5,899	7,451	484
Nonmetallic mining	5,775	113	2,858	83	1,956	9,233	12,795	5,802	1,383	106	3,226	77	166	2,144	9,619	13,510	1,147
Dimension stone ⁷	149	1	25	1	18	65	86	171	17	1	31	1	2	22	79	101	5
Crushed and broken stone ⁸	2,002	44	1,082	33	754	3,465	4,768	2,142	664	42	1,222	31	68	840	3,670	5,071	430
Sand and gravel ⁸	2,750	33	772	24	551	2,320	3,139	2,678	440	30	889	21	47	594	2,321	3,160	262
Clay and related minerals ⁸	197	10	272	7	165	827	1,249	200	100	10	320	8	17	211	935	1,400	87
Chemical and fertilizer minerals	148	16	501	12	336	1,999	2,772	156	76	15	564	10	22	347	2,071	3,017	308
Nonmetallic minerals, services	177	2	45	1	32	119	165	175	14	2	47	1	3	35	128	170	14
Miscellaneous ⁸	352	7	162	5	101	438	616	280	72	5	154	4	8	96	415	590	42

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

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: 1987*, and *1992*, final industry series reports.

No. 1143. Mineral Industries—Gross Assets and Capital Expenditures: 1977 to 1992

[In millions of dollars]

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total ¹	Buildings and other structures	Machinery and equipment	Mineral exploration and development ¹	Mineral land and rights ¹	Total ¹	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development ¹
Mineral industries: ²											
1977.....	44,664	6,099	33,068	2,625	2,871	6,802	785	5,068	30	399	520
1982.....	94,613	10,228	73,419	5,036	5,930	13,472	1,229	10,551	78	937	677
1987.....	84,286	9,314	64,143	5,034	5,795	4,869	349	3,234	88	797	401
1992.....	(NA)	(NA)	(NA)	(NA)	(NA)	6,193	(NA)	(NA)	(NA)	(NA)	(NA)
Crude oil, nat. gas:											
1977.....	94,414	(NA)	(NA)	(NA)	(NA)	10,916	571	2,269	14	93	7,969
1982.....	233,052	(NA)	(NA)	(NA)	(NA)	34,281	1,967	5,550	20	215	26,529
1987.....	(NA)	(NA)	(NA)	(NA)	(NA)	10,549	590	3,176	18	218	6,548
1992.....	(NA)	(NA)	(NA)	(NA)	(NA)	9,850	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Excludes data for mineral exploration and development, and mineral land and rights portions for mining service industries and natural gas liquids industry. ² Excludes crude petroleum and natural gas. ³ Not collected separately. Data for mineral exploration and development are combined with mineral land and rights. Data for used buildings and other structures are combined with used machinery and equipment.

Source: U.S. Bureau of the Census, *Census of Mineral Industries*, 1987 and preliminary summary for 1992.

No. 1144. Mineral Industries—Employment, Hours, and Earnings: 1992 to 1994

ITEM	Unit	1992	1993	1994	ITEM	Unit	1992	1993	1994
All mining:					Avg. weekly hours	No	43.8	43.8	44.1
All employees	1,000 .	635	611	605	Avg. weekly earnings	No Dol	614	619	622
Production workers	1,000 .	448	432	431	Metal mining:				
Avg. weekly hours	No	43.9	44.3	44.7	All employees	1,000 .	53	50	51
Avg. weekly earnings	Dol	638	647	666	Production workers	1,000 .	42	40	41
Coal mining:					Avg. weekly hours	No	42.9	43.1	43.6
All employees	1,000 .	127	109	114	Avg. weekly earnings	Dol	655	659	703
Production workers	1,000 .	103	87	92	Nonmetallic minerals, except fuels:				
Avg. weekly hours	No	44.0	44.4	45.2	All employees	1,000 .	102	101	101
Avg. weekly earnings	Dol	755	766	802	Production workers	1,000 .	76	76	76
Oil and gas extraction:					Avg. weekly hours	No	44.9	46.1	46.5
All employees	1,000 .	353	351	339	Avg. weekly earnings	Dol	551	585	608
Production workers	1,000 .	228	229	222					

Source: U.S. Bureau of Labor Statistics, *Bulletin 2370* and *Employment and Earnings*, March and June issues.

No. 1145. Selected Mineral Products—Average Prices: 1970 to 1995

[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]

YEAR	Tantalum (dol. per lb.) ¹	Copper, electro- lytic ² (cents per lb.)	Plati- num ³ (dol./ troy oz.)	Gold (dol./ fine oz.)	Silver (dol./ fine oz.)	Lead ⁴ (cents per lb.)	Tin (New York) ⁵ (cents per lb.)	Zinc ⁶ (cents per lb.)	Sulfur ⁷ crude (dol./ metric ton)	Bitumi- nous coal ⁸ (dol./ short ton)	Crude petro- leum ⁸ (dol./ bbl.)	Natural gas ⁸ (dol./ 1,000 cu. ft.)
1970.....	9.15	58	133	36	1.77	16	174	15	922.41	6.26	3.18	0.17
1975.....	18.32	64	164	161	4.42	22	340	39	944.20	19.23	7.67	0.44
1980.....	126.37	101	677	613	20.63	43	846	37	89.06	24.52	21.59	1.59
1982.....	49.95	73	327	376	7.95	26	654	39	108.27	27.14	28.52	2.46
1983.....	30.60	77	424	424	11.44	22	655	41	87.24	25.85	26.19	2.59
1984.....	37.44	67	357	361	8.14	26	624	49	94.31	25.51	25.88	2.66
1985.....	33.68	67	291	318	6.14	19	596	40	106.46	25.10	24.09	2.51
1986.....	23.74	66	461	368	5.47	22	383	38	105.22	23.70	12.51	1.94
1987.....	27.08	83	553	478	7.01	36	419	42	89.78	23.00	15.40	1.67
1988.....	47.37	121	523	438	6.53	37	441	60	85.95	22.00	12.58	1.69
1989.....	44.93	131	507	383	5.50	39	520	82	86.62	21.76	15.86	1.69
1990.....	38.06	123	467	385	4.82	46	386	75	80.14	21.71	20.03	1.71
1991.....	36.70	109	371	363	4.04	34	363	53	71.45	21.45	16.54	1.64
1992.....	34.42	107	356	345	3.94	35	402	58	48.14	20.98	15.99	1.74
1993.....	(NA)	92	370	361	4.30	32	350	46	31.86	19.79	14.25	2.03
1994.....	(NA)	111	406	385	5.29	37	369	49	28.60	19.43	13.19	1.83
1995, prel..	(NA)	137	430	385	5.30	42	420	53	35.00	(NA)	14.62	

NA Not available. ¹ Dollars per pound of tantalum content. ² Domestic market prices for wirebar, 1970, 1975-77; prices for cathode thereafter. ³ Average annual dealer prices. ⁴ 1970, 1990 prices; beginning 1975, nationwide delivered basis. ⁵ Straits tin through 1975; thereafter, composite price. ⁶ Prime western. Beginning 1975, delivered price. ⁷ F.o.b. works. ⁸ Average value at the point of production. Source: U.S. Energy Information Administration, *Annual Energy Review*.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Facts and Problems*, 1980 edition; and *Mineral Commodity Summaries*, annual.

No. 1146. Mineral Production: 1990 to 1995

[Data represent production as measured by mine shipments, mine sales or marketable production]

MINERAL	Unit	1990	1993	1994	1995
FUEL MINERALS					
Coal, total	Mil. sh. tons	1,029.1	945.4	1,033.5	(NA)
Bituminous	Mil. sh. tons	693.2	576.7	640.3	(NA)
Subbituminous	Mil. sh. tons	244.3	274.9	300.5	(NA)
Lignite	Mil. sh. tons	88.1	89.5	88.1	(NA)
Anthracite	Mil. sh. tons	3.5	4.3	4.6	(NA)
Natural gas (marketed production)	Tril. cu. ft.	18.59	18.98	19.64	19.62
Petroleum (crude)	Mil. bbl.	2,686	2,500	2,420	(NA)
Uranium (recoverable content)	Mil. lb.	8.9	3.1	3.4	(NA)
NONFUEL MINERALS					
Abrasive stone ²	Metric tons	3,709	(Z)	(Z)	(Z)
Asbestos (sales)	1,000 metric tons	(D)	13.0	10.0	10.0
Asphalt and related bitumens (native) ³	Mil. metric tons	25	27	(3)	(3)
Barite, primary, sold/used by producers	1,000 metric tons	430	315	583	525
Boron minerals, sold or used by producers	1,000 metric tons	1,094	574	550	546
Bromine, sold or used by producers	1,000 metric tons	177	177	(D)	211
Calcium chloride (natural)	1,000 sh. tons	(D)	-	-	-
Carbon dioxide, natural (estimate)	Mil. cu. ft.	-	-	-	-
Cement:					
Portland	Mil. sh. tons	75.6	71.6	74.3	72.1
Masonry	Mil. sh. tons	3.3	3.0	4.0	4.0
Clays	1,000 metric tons	42,904	40,700	42,200	46,600
Diatomite	1,000 metric tons	631	599	613	672
Feldspar ⁴	1,000 metric tons	630	770	765	770
Fluorspar, finished shipments	1,000 metric tons	64	60	50	(D)
Garnet (abrasive)	1,000 metric tons	47.0	(D)	51	(D)
Gypsum, crude	Mil. metric tons	16.4	15.8	17.2	17.2
Helium ⁵	Mil. cu. meters	87	96	100	102
Lime, sold or used by producers	Mil. sh. tons	17.5	16.8	17.4	18.4
Mica, scrap & flake, sold/used by producers	1,000 metric tons	109	88	110	104
Peat, sales by producers	1,000 sh. tons	795	612	552	577
Perlite, processed, sold or used	1,000 metric tons	576	569	644	719
Phosphate rock (marketable)	Mil. metric tons	46.3	35.0	41.0	46
Potash (K ₂ O equivalent) sales	1,000 metric tons	1,713	1,470	1,470	1,470
Pumice & pumicite, producer sales	1,000 metric tons	443	469	490	544
Pyrites	1,000 metric tons	(D)	(D)	(D)	(NA)
Salt, common, sold/used by producers	Mil. metric tons	36.9	38.7	39.2	39.2
Sand & gravel, sold/used by producer					
Construction	Mil. metric tons	852	895	918	907
Industrial	Mil. metric tons	829	869	891	879
Sodium carbonate (natural) (soda ash)	1,000 metric tons	9,156	8,959	9,320	9,800
Sodium sulfate (natural)	1,000 metric tons	349	(D)	298	325
Stone ⁶	Mil. metric tons	1,110	1,117	1,230	1,280
Crushed and broken	Mil. metric tons	1,109	1,116	1,230	1,280
Dimension	1,000 metric tons	1,118	1,235	(D)	(D)
Sulfur: Frasch mines (shipments)	1,000 metric tons	3,676	1,904	3,010	(D)
Talc, and pyrophyllite, crude	1,000 metric tons	1,267	(D)	(D)	1,110
Tripoli	1,000 metric tons	94	94	82	(D)
Vermiculite concentrate	1,000 metric tons	209	187	177	170
METALS					
Antimony ore and concentrate	Metric tons	(D)	(D)	(D)	(D)
Bauxite (dried)	1,000 metric tons	(D)	(D)	(D)	(D)
Copper (recoverable content)	1,000 metric tons	1,590	1,800	1,810	1,890
Gold (recoverable content)	Metric tons	294	331	326	320
Iron ore (gross weight)	Mil. metric tons	57.0	56.3	57.6	62
Lead (recoverable content)	1,000 metric tons	497	355	363	374
Magnesium metal	1,000 metric tons	139	132	128	140
Manganiferous ore (gross weight) ⁸	1,000 metric ton	(D)	(D)	(D)	(D)
Mercury ⁹	Metric tons	562	(D)	(D)	(D)
Molybdenum (concentrate)	1,000 metric tons	62	39	46	(D)
Nickel	1,000 metric tons	0.3	2.5	(NA)	1.7
Palladium metal	Kilograms	5,930	6,500	6,440	6,400
Platinum metal	Kilograms	1,810	1,800	1,960	2,000
Silver (recoverable content)	Metric tons	2,121	1,645	1,480	1,500
Titanium concentrate: Ilmenite (gross weight) ¹⁰	1,000 metric tons	(D)	(D)	(D)	(D)
Tungsten ore and concentrate ¹⁰	Metric tons	(D)	(D)	(D)	(D)
Zinc (recoverable content)	1,000 metric tons	515	488	570	600

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. Z Less than half the unit of measure. ¹ 42 gal. bbl. ² Includes grindstones, oilstones, whetstones, and deburring media. Excludes grinding pebbles, and tubemill liners. ³ Contains bituminous limestone and sandstone, and gilsonite. Includes road oil, 1990-93. Discontinued.

⁴ Includes aplite, 1992-93. ⁵ Refined only. ⁶ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table; 1993 excludes dimension stone. Includes calcareous marl and slate. ⁷ Represents shipments; includes byproduct ores. ⁸ 5 to 35 percent manganiferous ore. ⁹ Mercury produced as a byproduct of gold ores only.

¹⁰ Content of ore and concentrate.

Source: U.S. Bureau of Mines, *Minerals Yearbook* thru 1991; thereafter, *Annual Reports and Mineral Commodity Summaries*, annual. U.S. Energy Information Administration, *Annual Energy Review*.

No. 1147. Mineral Production Value: 1990 to 1994

[In millions of dollars. See Historical Statistics, Colonial Times to 1970, series M 13-37 for selected values]

MINERAL	1990	1992	1993	1994
Mineral production, total	150,530	135,797	113,395	97,025
Mineral fuels, total	117,066	103,764	101,519	97,025
Coal,	31,336	29,287	27,020	28,926
Bituminous ¹	22,266	20,856	18,624	19,953
Anthracite	138	120	142	120
Natural gas	31,789	32,555	38,834	36,179
Petroleum (crude)	53,801	41,846	35,625	31,920
Uranium U ₃ O ₈	140	76	40	(NA)
Industrial minerals, total	21,022	20,496	(NA)	(NA)
Abrasive stone ²	(Z)	(Z)	(Z)	(NA)
Asbestos (sales)	(⁴)	6	6	5
Asphalt, related bitumens (native) ³	3,480	2,794	(NA)	(NA)
Barite, primary, sold/used by producers	16	20	19	13
Boron minerals, sold/used by producers	436	339	373	370
Bromine, sold/used by producers	173	170	123	157
Calcium chloride (natural)	(⁴)	(⁴)	(X)	(X)
Carbon dioxide, natural (estimate)	-	-	(X)	(X)
Cement:				
Portland	3,683	3,500	3,916	4,155
Masonry	225	195	229	264
Clays	1,620	1,482	1,488	1,597
Diatomite	138	141	150	162
Feldspar ⁵	28	29	31	30
Fluor spar, finished shipments	(⁴)	(⁴)	(⁴)	(⁴)
Garnet (abrasive)	7	5	4	5
Gemstones (estimate)	53	66	58	52
Gypsum, crude	100	101	107	118
Helium	113	187	189	191
Lime, sold/used by producers	902	950	977	996
Mica, scrap and flake, sold/used by producers	6	5	4	5
Peat (sold by producers)	19	17	17	18
Perlite, processed, sold/used by producers	17	16	17	19
Phosphate rock (marketable)	1,075	1,058	759	902
Potash (K ₂ O equivalent)	303	334	286	274
Pumice and pumicite (sales by producers)	11	15	12	14
Pyrites	(⁴)	(⁴)	(⁴)	(⁴)
Salt (common), sold/used by producers	827	803	894	906
Sand and gravel, sold/used by producers	3,686	3,766	3,988	4,293
Construction	3,249	3,341	3,534	3,835
Industrial	436	425	454	458
Sodium carbonate (natural) (soda ash)	836	836	734	650
Sodium sulfate (natural)	34	26	(D)	25
Stone ⁷	5,822	5,775	5,987	6,731
Crushed and broken	5,591	5,594	5,770	6,731
Dimension	231	181	217	(NA)
Sulfur: Frasch mines (shipments)	335	159	101	135
Talc and pyrophyllite, crude ⁸	31	31	(D)	32
Tripoli	3	3	4	(NA)
Vermiculite concentrate	19	15	15	(D)
Industrial minerals, undistributed	504	478	212	136
Metals, total	12,442	11,537	11,876	(NA)
Antimony ore and concentrate ⁹	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Bauxite (dried or equivalent)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Copper (recoverable content)	4,311	4,179	3,636	4,382
Gold (recoverable content)	3,650	3,662	3,841	3,843
Iron ore (gross weight) ¹¹	1,741	1,732	1,643	1,700
Lead (recoverable content)	491	308	249	286
Magnesium metal ¹²	433	360	377	(D)
Manganiferous ore (gross weight) ¹³	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Mercury ¹⁴	(¹⁰)	0.4	(D)	(D)
Molybdenum (concentrate)	348	209	165	215
Palladium metal	22	18	25	25
Platinum metal	27	21	21	21
Silver (recoverable content)	320	220	227	192
Titanium concentrate: Ilmenite (gross weight)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Tungsten ore and concentrate	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Vanadium (recoverable content)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Zinc mine production (recoverable content)	847	674	497	549
Metals, undistributed	242	156	306	113

- Represents or rounds to zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable. Z Less than \$500,000. Includes subbituminous and lignite. ² Includes grindstones, oilstones, whetstones, and deburring media. ³ 1990-92, excluded from industrial minerals. ⁴ Included in "Industrial minerals, undistributed." ⁵ 1992-93, includes aplite. ⁶ Refined only. ⁷ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone; 1993 excludes dimension stone. State ranks based on publishable data. Includes calcareous marl and slate. ⁸ 1990-92, talc only. ⁹ Antimony content. ¹⁰ Included with "Metals, undistributed." ¹¹ Represents shipments; includes byproduct ores. ¹² Canvass for magnesium chloride for magnesium metal discontinued in 1986. ¹³ 5 to 35 percent manganiferous ore. ¹⁴ Mercury produced as a byproduct of gold ores only.

Source: U.S. Bureau of Mines, Minerals Yearbook thru 1991; Annual Reports and Mineral Commodities Summaries, annual. U.S. Energy Information Administration, Annual Energy Review.

No. 1148. Nonfuel Mineral Commodities—Summary: 1994

[Preliminary estimates. Average price in dollars per metric tons except as noted]

MINERAL	MINERAL DISPOSITION				Average price per unit (dollars)	Employment (number)
	Unit	Production	Exports	Net import reliance ¹ (percent)		
Aluminum	1,000 metric tons	4,950	1,700	25	6,500	2 ⁰ .85
Antimony (contained)	Metric tons	343,000	2,600	60	50,200	2 ² .40
Arsenic	Metric tons	-	100	100	24,000	2 ⁰ .72
Asbestos	1,000 metric tons	9	13	46	24	4 ⁰ (D)
Barite	1,000 metric tons	600	20	65	1,710	441.00
Bauxite and alumina	1,000 metric tons	(D)	130	99	4,000	415-18
Beryllium (contained)	Metric tons	225	55	(⁰)	200	2 ⁶ 275.00
Bismuth (contained)	Metric tons	(D)	120	(D)	1,500	3.75
Boron (B ₂ O ₃ content)	1,000 metric tons	602	230	(⁰)	287	4 ⁸ 294.00
Bromine (contained)	1,000 metric tons	211	25	(⁰)	206	9 ⁸⁸ 00.00
Cadmium (contained)	Metric tons	3,100	1,050	21	1,600	2 ¹⁰ .84
Cement	1,000 metric tons	77,000	600	17	92,000	62.00
Chromium	1,000 metric tons	11,117	13	78	537	4 ¹² 230.00 (NA)
Clays	1,000 metric tons	46,600	4,510	(⁰)	42,100	2 ² (NA)
Cobalt (contained)	Metric tons	11,150	1,400	82	8,400	2 ⁸ .27 (NA)
Columbium (contained)	Metric tons	-	400	100	3,900	2 ¹² .90 (NA)
Copper (Mine, contained)	1,000 metric tons	1,890	850	6	2,570	2 ¹³ 70.00
Diamond (industrial)	Million carats	141.1	120	36	222	1 ⁴ 0.46 (NA)
Diatomite	1,000 metric tons	670	145	(⁰)	525	4 ²⁵ 9.00
Feldspar	1,000 metric tons	770	17	(⁰)	761	441.56
Fluor spar	1,000 metric tons	150	52	92	603	(NA)
Gallium (contained)	Kilograms	-	(NA)	(NA)	425.00	20
Garnet (industrial)	Metric tons	53,300	7,260	(⁰)	44,900	85-1500
Gemstones	Million dollars	99.9	2,510	98	4,110	(NA)
Germanium (contained)	Kilograms	310,000	(NA)	(NA)	1 ²⁵ ,000	15 ¹ 375.00
Gold (contained)	Metric tons	320	365	(⁰)	(NA)	1 ⁶ 385.00
Graphite (crude)	1,000 metric tons	-	30	100	30	4 ¹⁷ 635.00
Gypsum (crude)	1,000 metric tons	17,300	110	30	25,900	4 ⁶ .80
Indium	Metric tons	-	(NA)	(NA)	143	1 ⁹ 375.00 (NA)
Iodine	Metric tons	1,800	1,300	62	4,800	2 ⁹ .32
Iron ore (usable)	Million metric tons	62	5	18	75.3	2 ¹ 72.5-74.0
Iron and steel scrap (metal)	Million metric tons	83	10.4	(⁰)	74	4 ²² 130.00
Iron and steel slag (metal)	1,000 metric tons	21,000	4	1	1 ²¹ ,000	4 ⁷ .33
Lead (contained)	1,000 metric tons	390	10	15	1,450	2342.00
Lime	1,000 metric tons	18,500	75	1	18,700	462.70
Magnesium compounds	1,000 metric tons	300	50	50	600	(NA)
Magnesium metal	1,000 metric tons	200	37	(⁰)	2 ⁹ .167	2 ² .10
Manganese (gross weight)	1,000 metric tons	-	22	100	2 ⁷ 110	2 ⁶ 24.00 (NA)
Mercury	Metric tons	27,450	220	(D)	4,480	2 ⁸ 250.00
Mica, scrap and flake	1,000 metric tons	104	7	10	100	465.00
Molybdenum (contained)	Metric tons	59,000	40,000	(⁰)	29,000	30 ⁸ .245
Nickel (contained)	Metric tons	9,850	9,900	61	159,000	4 ³¹ 230.00
Nitrogen (fixed)-ammonia	1,000 metric tons	13,200	200	20	16,600	2,500
Nonrenewable organics	Million metric tons	(NA)	(NA)	(NA)	(NA)	(NA)
Peat	1,000 metric tons	580	20	55	1,290	42.70
Perlite	1,000 metric tons	719	25	8	779	429.40
Phosphate rock	1,000 metric tons	45,500	3,000	(⁰)	43,600	42.50
Platinum-group metals	Kilograms	8,000	47,000	(NA)	(NA)	32 ⁴ 320.00
Potash (K ₂ O equivalent)	1,000 metric tons	1,460	450	74	5,670	4 ³³ 135.00
Pumice and pumicite	1,000 metric tons	544	18	29	763	423.15
Salt	1,000 metric tons	43,300	825	15	49,500	4 ³⁴ 115.00
Silicon (contained)	1,000 metric tons	390	60	33	580	35 ⁵⁴ .50 (NA)
Silver (contained)	Metric tons	1,500	1,500	(NA)	(NA)	1 ⁵ .30
Sodium carbonate (soda ash)	1,000 metric tons	9,800	3,600	(⁰)	6,280	4 ³⁶ 105.00
Sodium sulfate	1,000 metric tons	325	70	15	675	37 ¹¹ 0.40
Stone (crushed)	Million metric tons	1,280	6	-	1,280	4 ⁵ .48
Sulfur (all forms)	1,000 metric tons	11,800	1,000	18	13,900	43835.00
Talc	1,000 metric tons	1,050	190	(⁰)	970	47-560
Thallium (contained)	Kilograms	-	(NA)	100	700	300.00
Tin (contained)	Metric tons	11,190	2,000	84	47,000	2 ²⁹ 00.00
Titanium dioxide	1,000 metric tons	1,280	381	(⁰)	1,090	2 ³⁹ .96
Tungsten (contained)	Metric tons	(D)	-	87	7 ¹⁵ ,900	4060.00
Vermiculite	1,000 metric tons	170	5	15	130	(D)
Zinc (contained)	1,000 metric tons	600	400	41	4 ¹ 1,210	23 ⁵³ 0.00
Zirconium (ZrO ₂) content	Metric tons	(D)	23,600	(D)	(D)	4 ² (NA) (NA)

¹ Represents or rounds to zero.² Price per pound.³ Refinery production.⁴ Price per metric ton.⁵ Net exporter.⁶ Metal, vacuum-cast ingot.⁷ Estimated consumption.⁸ Granulated pentahydrate borax in bulk, f.o.b. mine.⁹ Cents per kilogram, bulk, purified bromine.¹⁰ 1- to 5-short ton lots.¹¹ Secondary production.¹² Turkish, chromite price.¹³ Columbite price.¹⁴ Value of imports per carat.¹⁵ Zone refined, first reduction quality.¹⁶ Price per troy ounce.¹⁷ Price of flake imports.¹⁸ Includes employment at calcining plants.¹⁹ 99.97% indium, per kilogram.²⁰ O.i.f. value, crude, per kilogram.²¹ Lake Superior pellets. Cent per long ton unit of iron.²² Delivered, No. 1 Heavy Melting composite price.²³ Estimated manganese content.²⁴ 46%-48% Mn metallurgical ore, per unit contained Mn, c.i.f. U.S. ports.²⁵ Secondary industrial production.²⁶ Price per 76-pound flask.²⁷ Price per kilogram.²⁸ London Metal Exchange cash price.²⁹ F.o.b. gulf coast.³⁰ Dealer price of platinum. Per troy ounce.³¹ F.o.b. Gulf Coast.³² Price of ferrosilicon, 50% Si.³³ Quoted year-end price, dense, bulk, f.o.b. Green River, WY.³⁴ Elemental sulfur, f.o.b. mine and/or plant.³⁵ Rutile, f.o.b. U.S. east coast.³⁶ All forms.³⁷ Price for imported zircon, f.o.b. U.S. east coast.¹ Calculated as a percent of apparent consumption.² Price per pound.³ Refinery production.⁴ Price per metric ton.⁵ Net exporter.⁶ Metal, vacuum-cast ingot.⁷ Estimated consumption.⁸ Granulated pentahydrate borax in bulk, f.o.b. mine.⁹ Cents per kilogram, bulk, purified bromine.¹⁰ 1- to 5-short ton lots.¹¹ Secondary production.¹² Turkish, chromite price.¹³ Columbite price.¹⁴ Value of imports per carat.¹⁵ Zone refined, first reduction quality.¹⁶ Price per troy ounce.¹⁷ Price of flake imports.¹⁸ Includes employment at calcining plants.¹⁹ 99.97% indium, per kilogram.²⁰ O.i.f. value, crude, per kilogram.²¹ Lake Superior pellets. Cent per long ton unit of iron.²² Delivered, No. 1 Heavy Melting composite price.²³ Estimated manganese content.²⁴ 46%-48% Mn metallurgical ore, per unit contained Mn, c.i.f. U.S. ports.²⁵ Secondary industrial production.²⁶ Price per 76-pound flask.²⁷ Price per kilogram.²⁸ London Metal Exchange cash price.²⁹ F.o.b. gulf coast.³⁰ Dealer price of platinum. Per troy ounce.³¹ F.o.b. Gulf Coast.³² Price of ferrosilicon, 50% Si.³³ Quoted year-end price, dense, bulk, f.o.b. Green River, WY.³⁴ Elemental sulfur, f.o.b. mine and/or plant.³⁵ Rutile, f.o.b. U.S. east coast.³⁶ All forms.³⁷ Price for imported zircon, f.o.b. U.S. east coast.

No. 1149. Value of Domestic Nonfuel Mineral Production: 1980 to 1995

[In millions of dollars]

AREA	1980	1985	1989	1990	1991	1992	1993	1994	1995
U.S. ¹	25,140	23,303	32,220	33,452	30,579	32,012	31,912	35,000	37,600
Northeast	1,581	1,964	2,450	2,479	2,095	2,308	2,451	2,620	2,670
N.E.	268	325	455	446	347	423	424	444	467
ME	37	41	65	55	41	56	60	61	59
NH	25	33	33	36	30	42	37	44	39
VT	43	50	89	87	60	60	53	53	53
MA	91	117	144	128	112	147	160	178	206
RI	6	12	11	18	13	21	23	26	30
CT	66	72	113	122	91	98	91	82	81
M.A.	1,313	1,639	1,995	2,033	1,748	1,885	2,027	2,180	2,210
NY	496	657	745	773	699	766	852	893	863
NJ	149	178	249	229	205	240	262	289	289
PA	668	804	1,001	1,031	844	881	913	997	1,050
Midwest	6,610	6,034	6,980	7,163	6,755	7,261	7,357	7,880	8,080
E.N.C.	2,930	2,869	3,551	3,483	3,479	3,762	3,875	4,000	4,030
OH	562	594	699	733	684	742	851	880	871
IN.	288	303	434	428	403	477	472	555	581
IL	443	460	633	667	673	734	734	823	820
MI.	1,485	1,387	1,599	1,440	1,503	1,587	1,510	1,460	1,460
WI	152	125	185	215	216	244	256	284	295
W.N.C.	3,680	3,165	3,429	3,680	3,276	3,499	3,482	3,870	4,050
MN	1,782	1,548	1,376	1,482	1,289	1,364	1,300	1,340	1,490
IA	252	228	283	310	344	391	398	451	484
MO	1,054	735	1,050	1,105	880	897	855	1,090	1,110
ND	22	24	14	25	17	26	25	25	25
SD	228	208	284	319	290	301	337	323	315
NE	80	100	104	90	89	115	126	146	142
KS	262	322	318	349	367	405	442	497	492
South	7,320	8,029	8,966	9,291	8,285	8,560	8,578	9,520	10,000
S.A.	3,454	3,998	4,985	5,132	4,497	4,651	4,689	5,090	5,290
DE ²	2	4	6	10	5	9	10	9	9
MD	186	258	342	368	348	339	314	340	341
VA	305	381	509	507	428	462	465	502	517
WV	106	105	125	133	117	112	149	181	193
NC	380	466	582	586	557	596	617	710	743
SC	195	276	425	450	340	347	391	433	426
GA	771	946	1,387	1,504	1,306	1,346	1,432	1,550	1,670
FL	1,509	1,562	1,608	1,574	1,396	1,440	1,311	1,370	1,390
E.S.C.	1,030	1,251	1,537	1,692	1,533	1,640	1,564	1,790	1,860
KY	204	268	331	359	343	401	388	428	401
TN	394	473	638	663	548	576	510	602	660
AL	328	407	461	559	540	543	562	626	678
MS	104	103	108	111	102	121	100	135	125
W.S.C.	2,836	2,780	2,443	2,467	2,255	2,269	2,325	2,630	2,850
AR	293	270	382	381	361	404	347	405	479
LA	584	521	380	368	352	309	232	350	362
OK	224	252	219	259	276	253	298	356	388
TX	1,735	1,737	1,462	1,459	1,266	1,303	1,430	1,520	1,620
West	9,629	7,276	13,809	14,512	13,435	13,858	13,424	15,000	16,600
Mountain	7,223	4,669	9,985	10,380	9,581	10,154	9,736	11,000	12,400
MT	280	200	566	573	534	539	484	543	581
ID	522	359	365	375	298	306	274	346	399
WY	761	551	827	911	929	949	844	880	976
CO	1,265	408	458	377	338	385	399	410	448
NM	766	657	1,122	1,103	986	871	804	930	1,080
AZ	2,471	1,550	3,046	3,085	2,877	3,160	2,780	3,280	4,150
UT	764	313	1,290	1,335	1,190	1,348	1,314	1,520	1,810
NV	394	631	2,310	2,621	2,429	2,588	2,820	3,070	2,920
Pacific	2,406	2,607	3,824	4,132	3,854	3,704	3,688	4,030	4,250
WA	207	222	481	483	483	469	505	570	613
OR	152	130	183	205	198	214	226	243	261
CA	1,872	2,112	2,854	2,771	2,538	2,370	2,440	2,580	2,680
AK	115	90	213	577	494	526	378	519	594
HI	60	53	92	106	141	149	139	216	206

¹ Includes undistributed not shown separately.² Partial data only.

No. 1150. Principal Fuels, Nonmetals, and Metals—U.S. Production, as Percent of World Production: 1980 to 1994

MINERAL	WORLD PRODUCTION					PERCENT U.S. OF WORLD			
	Unit	1980	1985	1990	1994	1980	1985	1990	1994
Fuels: ¹									
Coal	Bil. sh. ton . . .	4.2	4.8	5.2	(NA)	20	18	20	(NA)
Petroleum (crude) . . .	Bil. bbl . . .	21.7	19.6	22	(NA)	14	17	12	(NA)
Natural gas (dry, marketable) . . .	Tril. cu. ft . . .	53.1	62	74.3	(NA)	37	26	24	(NA)
Natural gas plant liquids . . .	Bil. bbl . . .	1.4	1.5	1.8	(NA)	43	38	32	(NA)
Nonmetals:									
Asbestos	1,000 metric tons	4,699	4,249	4,003	2,410	2	1	(D)	(Z)
Barite	1,000 metric tons	7,495	6,067	5,633	4,470	27	11	8	17
Feldspar	1,000 metric tons	3,202	4,039	5,456	6,250	20	16	12	12
Fluorspar	1,000 metric tons	5,006	4,979	5,131	3,850	2	1	1	1
Gypsum	Mil. metric tons .	78	87	100	101	14	15	15	17
Mica (incl. scrap)	1,000 metric tons	228	255	215	214	46	49	51	51
Nitrogen, (fixed) - ammonia	Mil. metric tons .	74	91	97	92	20	14	13	15
Phosphate rock, gross wt.	Mil. metric tons .	144	149	162	124	38	34	29	33
Potash (K ₂ O equivalent)	Mil. metric tons .	28	29	28	23	8	4	6	6
Sulfur, elemental	Mil. metric tons .	55	54	58	51	22	22	20	23
Metals, mine basis:									
Bauxite	Mil. metric tons .	89	84	109	107	2	1	(D)	(NA)
Columbian concentrates (Nb content)	1,000 metric tons	15	15	15	37	(NA)	-	(NA)	-
Copper	7,405	7,988	9,017	9,260	16	14	18	20	
Gold	Metric tons .	1,219	1,532	2,133	2,290	2	5	14	14
Iron ore	Mil. metric tons .	891	861	982	995	8	6	6	6
Lead ²	1,000 metric tons	3,470	3,431	3,353	2,800	17	12	15	13
Mercury	Metric tons	6,806	6,136	4,523	1,760	16	9	12	(NA)
Molybdenum	1,000 metric tons	111	98	128	104	62	50	48	45
Nickel ²	1,000 metric tons	779	813	965	(NA)	2	1	(Z)	(NA)
Silver	1,000 metric tons	11	13	16	14	9	9	13	11
Tantalum concentrates (ta content)	Metric tons	544	315	400	(NA)	(NA)	(NA)	(NA)	(NA)
Titanium concentrates:									
Ilmenite	1,000 metric tons	3,726	3,457	4,072	(NA)	14	(D)	(D)	(NA)
Rutile	1,000 metric tons	436	373	481	(NA)	(D)	(D)	(D)	(NA)
Tungsten ²	1,000 metric tons	52	47	43	26	5	2	14	(NA)
Vanadium ²	1,000 metric tons	37	30	31	34	12	(D)	(D)	8
Zinc ²	1,000 metric tons	5,954	6,758	7,184	6,810	6	4	8	9
Metals, smelter basis:									
Aluminum	1,000 metric tons	15,383	15,398	19,292	19,100	30	23	21	17
Cadmium	1,000 metric tons	18	19	20	18	9	8	8	6
Copper	1,000 metric tons	7,649	8,630	9,472	11,200	14	14	15	20
Iron, pig	Mil. metric tons .	514	499	532	512	12	9	9	10
Lead ³	1,000 metric tons	5,430	5,641	5,763	5,380	23	20	23	24
Magnesium ⁴	1,000 metric tons	316	325	354	267	49	42	39	48
Raw Steel	Mil. metric tons .	717	718	771	726	14	11	12	13
Tin ⁵	1,000 metric tons	251	193	223	199	1	2	-	(NA)
Zinc	1,000 metric tons	6,049	6,786	7,060	7,360	6	5	5	5

- Represents or rounds to zero. D Withheld to avoid disclosing company data. NA Not available. Z Less than half the unit of measure. ¹ Source: Energy Information Administration, *International Energy Annual*. ² Content of ore or concentrate. ³ Refinery production. ⁴ Primary production; no smelter processing necessary. ⁵ Production from primary sources only.

Source: Except as noted, U.S. Bureau of Mines, *Annual Reports*, and *Mineral Commodity Summaries*, annual.

No. 1151. Federal Strategic and Critical Materials Inventory: 1980 to 1994

[As of Dec. 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency]

MINERAL	QUANTITY ¹					VALUE (mil. dol.) ²			
	Unit	1980	1985	1990	1994	1980	1985	1990	1994
Tin	1,000 metric ton	200	185	169	145	3,158	2,324	962	684
Silver	1,000 troy oz	139,500	136,006	92,151	59,507	2,288	801	374	158
Cobalt	Mil. lb	41	53	53	52	1,020	590	443	561
Bauxite ³	1,000 lg. ton	14,333	17,957	18,033	16,549	583	871	888	191
Manganese ⁴	1,000 sh. ton	5,130	4,470	4,017	2,792	599	520	962	468
Tungsten ⁵	Mil. lb	97	87	82	82	817	369	253	178
Zinc	1,000 sh. ton	380	378	379	360	317	268	483	307
Titanium	1,000 sh. ton	43	48	37	37	432	405	402	221
Platinum	1,000 troy oz	466	466	453	453	215	154	186	131
Chromium ⁶	1,000 sh. ton	804	854	1,074	1,149	773	836	917	837
Diamonds; Stones	Carat 1,000	19,224	12,549	7,777	6,457	349	336	267	533
Industrial, bort	Carat 1,000	23,693	22,001	17,353	4,012	73	39	16	3

¹ Consists of stockpile and nonstockpile grades and reflects uncommitted balances. ² Market values are estimated trade values of similar materials and not necessarily amounts that would be realized at time of sale. ³ Consists of abrasive grade, metallic grade Jamaica, metallic grade Suriname, and refractory. ⁴ Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med. carbon, ferro-silicon, and metal. ⁵ Consists of carbide powder, ferro, metal powder, and ores and concentrates. ⁶ Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. Defense Logistics Agency, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

No. 1152. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1990 to 1993

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Import and export data are not necessarily comparable to prior data due to change in tariff schedule to Harmonized System]

PRODUCT	QUANTITY				VALUE (mil. dol.)				
	Unit	1990	1991	1992	1993	1990	1991	1992	1993
IMPORTS									
Petroleum (crude) ¹	Mil. bbls.	2,222	2,124	2,295	2,543	43,833	37,123	38,553	38,469
Gem stones: Diamonds	Mil. carats	7.5	8.5	9.4	11.5	3,955	3,992	4,144	5,096
Ores and concentrates:									
Chromium (Cr_2O_3 content)	1,000 metric tons	134	94	99	123	22	15	15	17
Copper	1,000 metric tons	91.5	60.8	102.1	37	131	69	125	46
Iron	Mil. metric tons	18.1	13.3	12.5	14	560	437	396	421
Tungsten	1,000 metric tons	6.4	7.8	2.5	1.7	31	43	16	8
Metals:									
Aluminum	1,000 metric tons	960	1,025	1,156	1,836	1,597	1,428	1,501	2,147
Cobalt ²	1,000 metric tons	6.0	6.4	5.3	5.4	107	158	246	166
Copper refined ingots, etc	1,000 metric tons	262	289	289	343	675	685	660	669
Gold (refined bullion)	Metric tons	65	147	141	130	795	1,722	1,568	1,495
Iron and steel products (major)	Mil. metric tons	17.8	16.2	17.4	20.0	11,612	11,962	10,977	(NA)
Platinum group ³	Metric tons	125	126	132	153	1,906	1,743	1,484	1,311
Silver (refined bullion)	Metric tons	2,698	2,525	2,662	2,183	437	339	341	297
Zinc: Blocks, pigs, slabs	1,000 metric tons	632	549	644	724	992	620	784	699
EXPORTS									
Fuels: ¹									
Bituminous coal	Mil. sh. tons	95.3	98.4	(NA)	(NA)	4,464	4,588	4,427	3,197
Petroleum (crude)	Mil. bbls.	8.0	2.7	(NA)	(NA)	198.6	54.1	32.4	20.0
Nonmetallic minerals:									
Gem stones: Diamonds	Mil. carats	1.2	1.8	1.9	1.6	1,433	1,383	1,362	1,499
Nitrogen compounds (maj.)	Mil. metric tons	11.9	13.9	12.8	11.5	(NA)	(NA)	(NA)	(NA)
Phosphatic fertilizers ⁴	Mil. metric tons	9.2	11.5	10.3	9.2	1,515	1,974	1,974	(NA)
Metals:									
Aluminum: Ingots, slabs, crude	1,000 metric tons	684	793	604	400	1,169	1,274	843	541
Plates, sheets, bars, etc	1,000 metric tons	419	489	534	571	1,278	1,384	1,416	1,346
Gold (refined bullion)	Metric tons	141	174	257	658	1,719	2,039	2,877	7,611
Iron and steel products (major)	Mil. metric tons	4.7	6.6	4.7	4.5	4,665	5,753	5,374	4,848
Magnesium ⁵	1,000 metric tons	51.8	55.2	52	39	164	150	132	103
Molybdenum ⁶	Metric tons	180	88	74	52	2	1	1	1
Silver (refined bullion)	Metric tons	736	787	911	705	120	115	126	100
Scrap exports:									
Aluminum	1,000 metric tons	537	461	295	212	719	542	300	211
Iron and steel	Mil. metric tons	11.7	9.5	9.4	10	1,653	1,253	1,113	1,341

NA Not available. 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, annual; 1989 and 1990, *U.S. Exports of Merchandise* and *U.S. Imports of Merchandise* compact discs, December issues. ² Includes unwrought metal, waste and scrap. ³ Unwrought and semimanufactured. ⁴ Superphosphates and ammonium phosphates. ⁵ Metal and alloys, scrap, semimanufactured forms. ⁶ Metals and alloys, crude and scrap.

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

No. 1153. Mineral Industries—Lost Workday Injuries and Fatalities: 1994

[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. Data for all years includes injuries to independent contractors at mine sites. Rates for the noncoal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286.]

ITEM	Coal mining	Quarrying; related industries ¹	Metal/nonmetal mining ³	Sand and gravel mining
Injuries, total ¹	11,353	5,369	4,498	1,863
Fatal	44	22	13	5
Rate per million work-hours: ²				
Fatal	0.04	0.03	0.02	0.02
Nonfatal	7.24	4.70	3.35	4.05
Fatalities per 1,000 employed	0.33	0.26	0.18	0.15

¹ Includes contractor data. ² Average number of persons at work each day mines were active.

Source: U.S. Mine Safety and Health Administration, Denver, CO, unpublished data.

No. 1154. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1980 to 1994

[Percent, based on net imports which equal the difference between imports and exports plus or minus Government stockpile and industry stock changes]

MINERAL	1980	1985	1988	1989	1990	1991	1992	1993	1994
Columbium	100	100	100	100	100	100	100	100	100
Manganese	98	100	100	100	100	100	100	100	100
Mica (sheet)	100	100	100	100	100	100	100	100	100
Strontium	100	100	100	100	100	100	100	100	100
Bauxite ¹	94	96	97	96	98	100	100	100	99
Asbestos	78	65	75	90	90	95	95	95	95
Platinum group	87	92	91	90	88	90	87	89	91
Cobalt	93	94	87	83	84	80	75	79	79
Chromium	91	75	78	78	71	72	76	74	75
Tungsten	53	68	86	84	81	91	86	82	84
Nickel	76	71	74	71	64	61	59	63	66
Tin	79	72	78	77	71	74	80	84	84
Barite	44	74	76	77	71	66	52	70	82
Potash	65	76	71	65	68	69	68	72	74
Antimony	47	63	65	56	51	53	60	62	62
Cadmium	55	57	64	48	46	50	52	61	50
Selenium	59	(D)	52	55	46	50	48	39	39
Zinc ²	60	70	69	61	41	24	30	45	41
Gypsum	35	38	36	35	36	31	31	31	30
Iron ore	25	21	18	22	21	11	12	14	18
Iron and steel	13	22	19	13	13	12	13	15	21
Sulfur	14	3	16	1	15	19	20	12	16
Copper	16	28	13	7	3	(NA)	2	7	14
Aluminum ⁽³⁾	16	7	(NA)	(NA)	(NA)	(NA)	1	19	31
Silver	7	(NA)							
Mercury	27	(NA)	(NA)	(NA)	(D)	(D)	(NA)	(D)	(D)
Titanium	32	(D)							
Vanadium	35	(D)							

D Withheld to avoid disclosure. NA Not available. ¹ Includes alumina. ² Beginning 1990, effect of sharp rise in exports of concentrates. If calculated on a refined zinc-only basis, reliance would be about the same as pre-1990 level. ³ Net exports.

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

No. 1155. Federal Offshore Leasing, Exploration, Production, and Revenue: 1980 to 1994

[See source for explanation of terms and for reliability statement]

ITEM	Unit	1980	1985	1988	1989	1990	1991	1992	1993	1994
Tracts offered	Number	483	15,754	28,382	11,013	10,459	16,600	9,618	10,164	10,861
Tracts leased	Number	218	681	1,621	1,049	825	676	204	336	560
Acres offered	1,000	2,563	87,029	158,016	60,098	56,789	90,288	52,380	55,070	58,895
Acres leased	1,000	1,134	3,574	8,839	5,581	4,263	3,414	1,021	1,714	2,775
Bonus paid for leased tracts	Bil. dol.	4.2	1.6	1.3	0.6	0.6	0.3	0.1	0.1	0.3
New wells being drilled:										
Active	Number	191	195	116	123	120	64	104	129	120
Suspended	Number	739	348	289	361	266	249	180	193	222
Wells completed	Number	9,638	12,285	12,827	12,938	13,167	13,184	13,209	13,181	13,342
Wells plugged and abandoned	Number	8,057	10,487	13,164	13,846	14,677	15,430	16,348	16,709	17,427
Revenue, total ¹	Bil. dol.	6.4	5.3	3.4	2.9	3.4	2.8	2.6	2.9	2.6
Bonuses	Bil. dol.	4.2	1.6	1.3	0.6	0.6	0.3	0.1	0.1	0.3
Oil and gas royalties ¹	Bil. dol.	2.1	3.6	2.1	2.1	2.6	2.3	2.3	2.5	2.3
Rentals	Bil. dol.	(Z)	0.1	0.1	0.1	0.1	0.1	0.1	(Z)	(Z)
Sales value ²	Bil. dol.	13.1	22.2	12.9	13.4	17.0	14.9	15.1	16.4	15.0
Crude oil	Bil. dol.	4.8	9.6	4.2	4.4	5.9	5.2	5.3	4.9	4.4
Condensate	Bil. dol.	0.4	1.0	0.7	0.8	1.1	1.1	1.0	0.9	0.7
Natural gas	Bil. dol.	7.9	11.4	7.9	7.8	9.5	7.9	8.2	9.9	9.8
Sales volume:										
Crude oil	Mil. bbls.	259	351	279	260	274	263	302	307	319
Condensate	Mil. bbls.	19	38	41	45	51	52	52	55	51
Natural gas	Bil. cu. ft.	4,641	4,001	4,310	4,200	5,093	4,516	4,686	4,533	4,700

Z Less than \$50 million. ¹ Includes condensate royalties. ² Production value is value at time of production, not current value.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual.

No. 1156. Petroleum Industry—Summary: 1980 to 1994

[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	Unit	1980	1985	1988	1989	1990	1991	1992	1993	1994
Crude oil producing wells (Dec. 31)	1,000...	548	647	612	603	602	614	594	584	582
Daily output per well	Bbl.	15.9	13.9	13.5	12.6	12.2	12.1	12.1	11.7	11.4
Completed wells drilled, total	1,000...	56.93	57.88	25.58	22.82	26.22	24.75	19.78	20.32	16.01
Crude oil	1,000...	30.50	33.14	12.53	9.76	11.53	11.36	8.26	7.65	5.69
Gas	1,000...	15.13	12.97	7.58	8.57	9.85	8.77	7.59	8.36	7.22
Dry	1,000...	11.30	11.76	5.48	4.49	4.83	4.61	3.94	4.32	3.10
Average depth per well ¹	Feet	4,188	4,225	4,570	4,558	4,662	4,805	5,194	5,422	5,644
Average cost per well ¹	\$1,000...	368	349	355	362	384	422	383	427	(NA)
Offshore	\$1,000...	3,024	4,073	3,112	3,197	3,112	3,550	3,223	3,250	(NA)
Average cost per foot ¹	Dollars	77.02	75.35	70.23	73.55	76.07	82.64	70.27	75.30	(NA)
Crude oil production, total	Mil. bbl.	3,138	3,274	2,971	2,779	2,685	2,707	2,617	2,499	2,419
Value at wells	Bil. dol.	67.9	78.9	37.5	44.1	53.8	44.7	42.0	35.6	(NA)
Average price per barrel	Dollars	21.59	24.09	12.58	15.86	20.03	16.54	15.99	14.24	(NA)
Refinery input of crude oil	Mil. bbl.	4,934	4,381	4,848	4,891	4,895	4,855	4,909	4,969	(NA)
Imports: Crude oil	Mil. bbl.	1,926	1,168	1,869	2,133	2,151	2,111	2,223	2,472	(NA)
Refined petroleum products	Mil. bbl.	603	681	840	809	775	500	471	(NA)	(NA)
Import value	Bil. dol.	78.7	53.5	42.6	51.9	63.8	53.5	54.8	55.0	55.0
Export value	Bil. dol.	7.9	9.9	7.1	7.5	9.2	9.7	9.1	7.7	6.6
Operable refineries	Number	319	223	213	204	205	202	199	187	179
Capacity (Jan. 1)	Mil. bbl.	6,566	5,716	5,811	5,712	5,683	5,723	5,731	5,519	5,486
Output	Mil. bbl.	5,352	5,019	5,498	5,539	5,570	5,933	6,050	(NA)	(NA)
Utilization rate	Percent	75.4	77.6	84.7	86.6	87.1	86.0	87.9	91.5	92.6
Proved reserves	Bil. bbl.	29.8	28.4	26.8	26.5	26.3	24.7	23.7	23.0	22.5

NA Not available. ¹ Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, annual.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *Petroleum Supply Annual*; U.S. *Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*.

No. 1157. Natural Gas—Financial Performance Measure: 1985 to 1994

[LT = Long term. S&P = Standard & Poor's]

ITEM	1985	1987	1988	1989	1990	1991	1992	1993	1994
Producer segment, majors:									
Average adjusted stock price	28.24	37.01	41.64	51.79	49.20	50.01	48.50	57.50	(NA)
S&P bond rating	AA-	A	AA-	AA	AA	AA	AA	BBB+	BBB+
LT debt as a percent of invested capital	32.06	28.33	30.54	30.35	27.76	29.19	30.10	42.15	40.40
Times interest earned ratio	5.09	3.76	4.42	4.32	5.07	4.04	3.93	2.25	2.55
Rate of return on common equity (%)	14.30	10.64	17.67	18.56	17.78	12.54	9.05	7.30	6.72
Price/earnings ratio	7.35	11.69	9.11	10.65	9.98	15.15	15.14	23.53	33.63
Market/book value ratio	1.18	1.69	1.65	1.99	1.92	2.01	2.07	2.61	2.51
Producer segment, independents:									
Average adjusted stock price	14.66	12.33	12.84	17.34	15.14	12.01	11.93	14.53	(NA)
S&P bond rating	A-	BBB	BBB-	BBB-	BBB-	BBB-	BBB+	BBB+	BBB+
LT debt as a percent of invested capital	47.39	61.13	73.47	68.00	63.00	55.87	53.93	45.01	45.64
Times interest earned ratio	0.36	0.52	0.91	1.59	1.46	1.21	1.46	1.83	1.04
Rate of return on common equity (%)	-10.39	-7.85	-1.69	6.51	1.93	-1.17	1.99	5.14	0.61
Price/earnings ratio	6.78	15.70	17.96	16.45	23.75	31.28	21.50	26.46	35.71
Market/book value ratio	1.23	1.96	1.84	2.32	2.63	2.05	1.85	2.30	2.35
Pipeline segment, w/Columbia:									
Average adjusted stock price	19.68	17.96	20.52	27.84	23.76	20.10	23.49	26.26	(NA)
S&P bond rating	BBB-	BBB-	BBB	BBB	BBB	BBB-	BBB+	BBB-	BBB
LT debt as a percent of invested capital	53.35	52.92	52.29	52.99	53.24	55.91	54.61	50.24	47.30
Times interest earned ratio	1.89	1.75	1.44	1.79	1.65	1.00	1.74	2.33	2.72
Rate of return on common equity (%)	6.32	7.97	6.18	8.63	7.47	1.01	6.23	10.88	12.25
Price/earnings ratio	10.94	12.04	13.42	14.66	16.00	17.36	13.18	16.68	14.42
Market/book value ratio	1.11	1.31	1.28	1.51	1.55	1.52	1.53	1.86	1.77
Average adjusted stock price	17.69	18.84	18.66	23.29	21.21	20.53	22.78	26.06	(NA)
S&P bond rating	BBB+	A	A	A	A	A	A	A	A
LT debt as a percent of invested capital	44.21	44.27	47.30	46.31	47.28	48.62	48.83	46.62	47.93
Times interest earned ratio	2.81	3.01	2.51	2.49	2.04	1.95	2.42	2.88	2.92
Rate of return on common equity (%)	8.55	12.19	10.35	12.35	9.17	7.17	4.09	10.95	11.45
Price/earnings ratio	8.42	11.96	10.16	12.01	12.69	15.15	14.38	14.83	13.02
Market/book value ratio	1.29	1.48	1.36	1.49	1.51	1.47	1.56	1.77	1.56

NA Not available.

Source: U.S. Energy Information Administration, *Natural Gas 1995: Issues and Trends*.

No. 1158. World Crude Oil Production: 1980 to 1995

[In thousands of barrels]

COUNTRY	1980	1985	1990	1991	1992	1993	1994	1995
Total ¹	59,599	53,981	60,566	60,210	60,213	60,640	60,916	62,227
Algeria	1,106	1,037	1,175	1,230	1,214	1,190	1,170	1,197
Kuwait	1,656	1,023	1,175	190	1,058	1,872	2,034	2,061
Libya	1,787	1,059	1,375	1,483	1,433	1,377	1,378	1,390
Saudi Arabia	9,900	3,388	6,410	8,115	8,332	8,198	8,147	8,231
United Arab Emirates	1,709	1,193	2,117	2,386	2,266	2,191	2,263	2,277
Indonesia	1,577	1,325	1,462	1,592	1,504	1,528	1,514	1,523
Iran	1,662	2,250	3,088	3,312	3,429	3,650	3,635	3,643
Nigeria	2,055	1,495	1,810	1,892	1,943	2,050	2,037	2,026
Venezuela	2,168	1,677	2,137	2,375	2,371	2,450	2,514	2,750
Canada	1,435	1,471	1,553	1,548	1,598	1,680	1,743	1,814
Mexico	1,936	2,745	2,553	2,680	2,668	2,671	2,689	2,618
United Kingdom	1,622	2,530	1,820	1,797	1,825	1,915	2,375	2,489
United States	8,597	8,971	7,355	7,417	7,171	6,847	6,662	6,530
China	2,114	2,505	2,774	2,835	2,838	2,911	2,939	3,015
U.S.S.R (former)	11,706	11,585	10,975	9,992	8,931	7,717	6,611	6,550

¹ Includes countries not shown separately.Source: U. S. Energy Information Administration, *Monthly Energy Review*.**No. 1159. World Natural Gas Production: 1985 to 1993**

[In quadrillion Btu's]

REGION AND COUNTRY	1985	1986	1987	1988	1989	1990	1991	1992 ¹	1993 ¹
World total	61.42	62.24	65.46	68.62	71.59	72.48	73.99	73.84	75.15
North America	20.98	20.33	21.11	22.12	22.59	23.23	23.31	23.86	24.66
Canada	3.08	2.90	3.15	3.63	3.85	3.96	4.18	4.60	5.04
United States	16.98	16.54	17.14	17.60	17.85	18.36	18.23	18.38	18.74
Central and South America	1.84	1.86	1.82	1.94	2.21	2.22	2.22	2.07	2.24
Western Europe	6.83	6.74	6.99	6.63	6.88	6.99	7.58	7.64	8.08
Eastern Europe	23.11	24.54	25.61	27.29	27.96	28.32	28.03	26.68	26.04
Middle East	2.50	2.76	3.18	3.47	3.87	3.89	4.02	4.33	4.75
Africa	1.97	1.99	2.23	2.37	2.53	2.60	2.85	2.93	2.99
Far East and Oceania	4.16	4.38	4.67	4.96	5.16	5.66	5.98	6.29	6.59

NA Not available. ¹ Preliminary.Source: U. S. Energy Information Administration, *International Energy Annual*.**No. 1160. Domestic Motor Gasoline Supply: 1980 to 1996**

[In 1,000 barrels per day, except as noted]

ITEM	1980	1985	1988	1989	1990	1991	1992	1993	1994	1995	1996
Supply ¹	6,579	6,831	7,336	7,328	7,235	7,188	7,268	7,476	7,601	7,785	7,416
Production	6,506	6,419	6,956	6,963	6,959	6,975	7,058	7,360	7,312	7,586	7,375
Net imports	140	381	405	369	342	297	294	247	356	264	407
Stocks (mil. bbl.) ²	261	223	228	213	220	219	216	226	215	202	214

NA Not available. ¹ Production plus net imports less net increase in primary stocks. ² End of year, includes motor gasoline blending components.Source: U. S. Energy Information Administration, *Monthly Energy Review*.**No. 1161. Natural Gas Plant Liquids—Production and Value: 1970 to 1994**[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1980	1985	1988	1989	1990	1991	1992	1993	1994
Field production ¹	Mil. bbl . . .	606	576	587	595	564	566	606	621	634	630
Pentanes plus	Mil. bbl . . .	197	126	103	111	113	112	118	121	122	119
Liquefied petroleum gases	Mil. bbl . . .	400	441	479	483	451	454	488	500	512	511
Natural gas processed	Tril. cu. ft . . .	19	15	13	13	13	15	16	16	16	(NA)

NA Not available. ¹ Includes other finished petroleum products, not shown separately.Source: Through 1975, U. S. Bureau of Mines, *Minerals Yearbook*; thereafter, U. S. Energy Information Administration, *Energy Data Reports, Petroleum Statement Annual, Petroleum Supply Annual*, and *Natural Gas Annual*.

No. 1162. U.S. Petroleum Balance: 1980 to 1994

[In millions of barrels]

ITEM	1980	1985	1989	1990	1991	1992	1993	1994
Petroleum products supplied	6,242	5,740	6,324	6,201	6,101	6,234	6,291	6,467
Production of products	5,765	5,363	5,874	5,934	5,933	6,050	6,182	6,244
Crude input to refineries	4,934	4,381	4,891	4,894	4,855	4,909	4,969	5,061
Oil, field production	3,138	3,274	2,779	2,685	2,707	2,617	2,499	2,431
Alaska	592	666	684	647	656	627	577	569
Lower 48 States	2,555	2,608	2,095	2,037	2,050	1,997	1,922	1,863
Net imports	1,821	1,094	2,081	2,112	2,068	2,194	2,441	2,542
Imports (gross excluding SPR) ¹	1,910	1,125	2,112	2,142	2,111	2,223	2,472	2,574
SPR ¹ imports	16	43	20	10	-	4	5	4
Exports	-105	75	52	40	42	32	36	36
Other sources	33	12	32	98	80	90	28	88
Natural gas plant liquids (NGPL), supply	577	604	563	574	613	628	664	694
Other liquids	253	378	420	465	466	513	550	489
Net imports of refined products	484	313	396	326	177	156	134	217
Imports	578	523	656	598	500	471	461	518
Exports	94	210	260	272	323	315	327	302
New supply of products	6,249	5,676	6,270	6,259	6,110	6,206	6,316	6,461
Stock withdrawal, refined products	-7	64	53	-59	-10	28	-24	6
Ending stocks, all oils	1,392	1,519	1,581	1,621	1,617	1,592	1,647	1,653
Crude oil and lease condensate	358	321	341	323	325	318	335	337
Strategic Petroleum Reserve (SPR) ¹	108	493	580	586	569	575	587	592
Unfinished oils	124	107	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gasoline blending components	17	33	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Pentanes plus	(NA)	8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Finished refined products	785	557	580	712	724	(NA)	(NA)	(NA)
PRODUCT TYPE SUPPLIED								
Total products	6,242	5,740	6,324	6,201	6,101	6,234	6,291	6,467
Finished motor gasoline	2,407	2,493	2,675	2,641	2,623	2,660	2,729	2,774
Distillate fuel oil	1,049	1,047	1,152	1,103	1,066	1,090	1,110	1,154
Residual fuel oil	918	439	500	449	423	401	394	373
Liquified petroleum gases ²	414	584	609	568	616	642	633	686
Pentanes plus, other liquids, etc	1,454	1,155	1,378	1,431	1,365	(NA)	(NA)	(NA)
Crude oil	(NA)	22	10	9	7	5	4	3

- Represents zero. NA Not available. ¹ SPR=Strategic petroleum reserve. See table 933.² Includes ethane.Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

No. 1163. Crude Petroleum and Natural Gas—Production, by State: 1985 to 1994

[See also *Historical Statistics, Colonial Times to 1970*, series M 138, M 142, and M 147-161]

STATE	CRUDE PETROLEUM						NATURAL GAS MARKETED PRODUCTION ¹					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	1985	1990	1994	1985	1990	1994	1985	1990	1994	1985	1990	1994
Total ²	3,274	2,685	2,431	78,884	32,071	32,071	17,270	18,594	19,635	43,343	31,658	36,850
AL.	22	18	18	579	275	275	107	135	515	398	373	1,119
AK.	666	658	569	10,655	5,559	5,559	321	403	453	236	554	578
AR.	19	10	10	443	131	131	155	175	188	393	360	497
CA.	424	322	286	8,386	3,467	3,467	491	363	309	1,653	857	940
CO.	30	31	29	758	442	442	178	243	453	517	377	629
FL.	11	6	6	(NA)	(NA)	(NA)	11	6	7	26	15	10
IL.	30	20	17	795	270	270	1	1	(Z)	4	1	1
IN.	5	3	2	134	39	39	(Z)	(Z)	(Z)	1	(Z)	
KS.	75	59	47	1,939	687	687	528	574	713	671	893	1,139
KY.	8	5	4	201	62	62	73	75	73	174	169	164
LA.	508	148	126	5,387	1,973	1,973	5,014	5,242	5,170	13,355	9,587	10,728
MI.	27	20	12	726	188	188	132	140	223	475	420	436
MS.	31	30	20	796	271	271	144	95	63	456	167	95
MT.	30	20	17	734	222	222	52	50	50	125	90	73
NE.	7	5	4	163	57	57	2	1	3	6	2	5
NM.	79	66	66	2,028	1,009	1,009	905	965	1,558	2,370	1,629	2,463
NY.	1	(Z)	(Z)	25	-	-	32	25	20	106	55	48
ND.	51	39	28	1,307	388	388	73	52	58	138	93	(NA)
OH.	15	8	9	361	140	140	182	155	132	560	393	321
OK.	163	117	91	4,256	1,395	1,395	1,936	2,258	1,935	4,930	3,548	3,290
PA.	5	2	3	114	41	41	150	178	150	474	417	414
TX.	889	674	591	23	8,849	8,849	6,053	6,343	6,354	14,097	9,939	11,985
UT.	41	23	21	773	338	338	83	146	271	293	249	417
WV.	4	2	2	86	30	30	145	178	182	558	568	480
WY.	129	103	80	3,061	1,087	1,087	417	736	696	1,252	856	1,429

NA Not available. Z Less than 500 million cubic feet or less than \$500,000. ¹ Excludes nonhydrocarbon gases.² Includes other States not shown separately. State production does not include State offshore production.Source: U.S. Energy Information Administration, *Energy Data Reports*, *Petroleum Supply Annual*, *Natural Gas Annual*, and *Natural Gas Monthly*.

No. 1164. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1970 to 1994

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

ITEM	Unit	1970	1975	1980	1985	1988	1989	1990	1991	1992	1993	1994	
Producing wells (year-end)		1,000 . . .	117	130	182	243	257	262	270	277	276	286	288
Production value at wells	Bil. dol. . .	3.7	8.9	32.1	43.4	30.3	30.6	31.8	30.4	32.6	38.8	36.2	36.2
Avg. per 1,000 cu. ft.	Dollars . . .	0.17	0.44	1.59	2.51	1.69	1.69	1.71	1.64	1.74	2.03	1.83	1.83
Proved reserves ¹ . . .	Tril. cu. ft. . .	291	228	199	193	168	167	169	167	165	162	162	164
Marketed production ² . . .	Tril. cu. ft. . .	21.9	20.1	20.2	17.3	17.9	18.1	18.6	18.5	18.7	19.1	19.8	19.8
Drawn from storage	Tril. cu. ft. . .	1.5	1.8	1.9	2.4	2.2	2.8	1.9	2.7	2.7	2.7	2.5	2.5
Imports ³ . . .	Tril. cu. ft. . .	0.8	1.0	1.0	1.0	1.3	1.4	1.5	1.8	2.1	2.4	2.6	2.6
Consumption, total . . .	Tril. cu. ft. . .	21.1	19.5	19.9	17.3	18.0	18.8	18.7	19.0	19.5	20.3	20.8	20.8
Residential . . .	Tril. cu. ft. . .	4.8	4.9	4.8	4.4	4.6	4.8	4.4	4.6	4.7	5.0	4.8	4.8
Commercial ⁴ . . .	Tril. cu. ft. . .	2.4	2.5	2.6	2.4	2.7	2.7	2.6	2.7	2.8	2.9	2.9	2.9
Industrial . . .	Tril. cu. ft. . .	9.3	7.0	8.2	6.9	7.5	7.9	8.2	8.3	8.7	9.2	9.4	9.4
Lease and plant fuel	Tril. cu. ft. . .	1.4	1.4	1.0	1.0	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.2
Other industrial	Tril. cu. ft. . .	7.9	7.0	7.2	5.9	6.4	6.8	7.0	7.2	7.5	8.0	8.2	8.2
Electric utilities . . .	Tril. cu. ft. . .	3.9	3.2	3.7	3.0	2.6	2.8	2.8	2.8	2.8	2.8	2.7	3.0
Transportation ⁵ . . .	Tril. cu. ft. . .	0.7	0.6	0.6	0.5	0.6	0.6	0.7	0.6	0.6	0.6	0.7	0.7
Extraction losses ⁶ . . .	Tril. cu. ft. . .	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9
Exports . . .	Tril. cu. ft. . .	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2
Additions to storage ⁷ . . .	Tril. cu. ft. . .	1.9	2.1	1.9	2.1	2.2	2.5	2.4	2.6	2.6	2.8	2.8	2.8
World production (dry) . . .	Tril. cu. ft. . .	(NA)	44.1	53.1	62.0	69.8	71.9	74.3	74.8	(NA)	(NA)	(NA)	(NA)
U.S. production (dry) . . .	Tril. cu. ft. . .	21.0	19.2	19.4	16.5	17.1	17.3	17.8	17.7	17.8	18.1	18.7	18.7
Percent U.S. of world . . .	Percent . . .	56.0	43.6	36.5	26.4	24.4	24.0	24.0	23.7	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Estimated, end of year. Source: 1970-1976; American Gas Association, Arlington, VA, (copyright); thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, annual*.

² Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. For 1980 and thereafter, it excludes the nonhydrocarbon gases subsequently removed. ³ Includes imports of liquefied natural gas. ⁴ Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

⁵ Pipeline fuel and vehicle fuel. ⁶ Volumetric reduction in natural gas resulting from the extraction of natural gas constituents at natural gas processing plants. ⁷ Beginning with 1980, includes liquefied natural gas (LNG) storage in above ground tanks.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review, International Energy Annual, Natural Gas Annual*, Volume I and II and *Monthly Energy Review*.

No. 1165. Liquefied Petroleum Gases—Summary: 1980 to 1994

[In millions of 42-gallon barrels. Includes ethane]

ITEM	1980	1990	1993	1994	ITEM	1980	1990	1993	1994
Production . . .	561	638	850	734	Consumption . . .	538	568	633	(NA)
At natural gas plants . . .	441	456	631	511	Ethane ¹ . . .	164	186	217	(NA)
At refineries . . .	121	182	216	223	Propane ^{1,2} . . .	298	335	367	(NA)
Imports . . .	79	68	70	67	Butane (incl. isobutane) ² . . .	76	47	49	(NA)
Refinery input . . .	85	107	179	108	Stocks, Dec. 31 . . .	116	98	117	99
Exports . . .	9	14	16	14					

NA Not available. ¹ Reported consumption of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane. ² Reported consumption of butane-propane mixtures have been allocated 60 percent butane and 40 percent propane.

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

No. 1166. World Coal Trade: 1980 to 1991

[In millions of short tons]

COUNTRIES	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Exporting countries, total ¹ . . .	277.2	292.0	284.5	332.9	370.2	376.3	383.0	415.0	423.5	440.2	434.6
United States . . .	88.7	106.5	78.2	82.0	93.2	85.5	79.6	94.9	100.8	105.8	109
Australia . . .	46.6	48.8	62.3	82.2	96.6	101.3	111.9	109.8	108.5	116.9	132.5
South Africa . . .	30.7	30.5	32.7	40.9	49.8	50.1	46.9	47.4	51.6	54.5	52.7
Soviet Union . . .	26.2	23.0	22.8	22.8	26.5	36.9	39.1	46.0	43.9	42.7	31
Germany ² . . .	13.8	11.2	11.5	12.4	10.5	7.9	6.9	5.5	5.9	6.0	3.9
Canada . . .	16.1	16.6	18.6	26.8	30.3	28.6	29.5	35.0	36.1	34.2	37.6
Poland . . .	34.6	30.6	38.7	47.2	39.7	37.9	34.2	35.5	31.8	61.8	19.8
China: Mainland . . .	4.2	5.1	6.8	7.7	8.6	10.9	14.4	16.2	16.9	19.1	20.7
Importing countries, total ¹ . . .	277.2	292.0	284.5	332.9	370.2	376.3	383.0	415.0	423.5	440.2	434.6
Western Europe/Mediterranean . . .	126.9	126.5	112.9	132.4	152.3	149.0	145.6	146.2	154.7	172.1	180.6
Japan . . .	75.6	86.5	82.8	96.2	103.0	99.6	100.2	111.6	111.7	113.9	123.5
Eastern Europe . . .	34.8	37.0	39.7	39.9	39.1	45.4	44.9	45.1	39.6	30.6	21.9
Canada . . .	17.4	17.3	16.7	20.3	16.1	14.7	15.8	19.3	15.1	15.7	13.7

¹ Includes areas not shown separately. ² Beginning 1990, represents United Germany.

Source: U.S. Energy Information Administration, 1975-84, *Outlook for U.S. Coal Imports*; thereafter, *Annual Prospects for World Coal Trade*.

No. 1167. Coal and Coke—Summary: 1970 to 1994

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1992, was an estimated 476 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	1970	1980	1985	1990	1991	1992	1993	1994
Coal production, total¹	Mil. sh. tons .	613	830	884	1,029	996	998	945	1,034
Value	Mil. dol.	3,882	20,453	22,277	(NA)	(NA)	(NA)	(NA)	(NA)
Anthracite production	Mil. sh. tons . . .	9.7	6.1	4.7	3.5	3.4	3.1	4.3	4.7
Bituminous coal and lignite: ²	Number	5,601	5,598	4,547	3,243	2,846	2,134	2,326	2,209
Production	Mil. sh. tons	603	824	879	1,026	993	992	941	1,029
Value, total	Mil. dol.	3,774	20,196	22,061	22,274	21,598	(NA)	(NA)	(NA)
Average per ton	Dollars	6.26	24.52	25.10	21.71	21.45	20.98	19.79	19.43
Exports	Mil. sh. tons	72	92	93	106	109	103	75	71
Value	Mil. dol.	961	4,627	4,465	4,510	4,619	(NA)	(NA)	(NA)
Imports	1,000 sh. tons . .	36	1,194	1,952	2,699	3,390	3,803	7,309	7,583
Method of mining:									
Underground	Mil. sh. tons	339	337	350	425	407	407	351	399
Surface	Mil. sh. tons	264	487	529	605	589	590	594	634
Percent of total prod.	Percent	43.8	59.1	60.2	58.7	59.1	59.1	62.0	61.0
Value	Mil. dol.	(Z)	30	70	(NA)	(NA)	(NA)	(NA)	(NA)
Consumption ³	Mil. sh. tons	523	703	818	896	888	892	926	930
Electric power utilities	Mil. sh. tons	320	569	694	774	772	780	814	817
Industrial	Mil. sh. tons	184	126	116	76	75	74	75	75
Productivity average: ⁴									
Daily employment	1,000	140	225	169	131	121	110	101	97.5
Days worked	Number	228	210	204	271	274	280	280	285
Tons per worker:									
Per day	Sh. tons	18.84	16.32	23.13	32.90	35.18	37.71	(NA)	(NA)
Per year	Sh. tons	4,296	3,427	4,719	7,106	7,880	(NA)	(NA)	(NA)
Production, by State:									
Alabama	Mil. sh. tons	21	26	28	29	27	26	25	24
Illinois	Mil. sh. tons	65	63	59	60	60	60	41	53
Indiana	Mil. sh. tons	22	31	33	36	32	31	29	31
Kentucky	Mil. sh. tons	125	150	152	173	159	161	156	162
Montana	Mil. sh. tons	3	30	33	38	38	39	36	42
Ohio	Mil. sh. tons	55	39	36	35	31	30	29	30
Pennsylvania	Mil. sh. tons	90	93	71	71	65	69	60	62
Virginia	Mil. sh. tons	35	41	41	47	42	43	39	37
West Virginia	Mil. sh. tons	144	122	128	169	167	162	131	162
Wyoming	Mil. sh. tons	7	95	141	184	194	190	210	237
Other States	Mil. sh. tons	44	140	161	187	181	189	(NA)	(NA)
World production	Mil. sh. tons	3,295	4,103	4,779	5,214	4,952	4,996	4,885	(NA)
Coke production⁵	Mil. sh. tons	66.5	46.1	28.4	27.6	24.1	23.4	23.1	22.2
Oven coke ⁶	Mil. sh. tons	65.7	46.1	28.7	27.6	24.0	(NA)	(NA)	(NA)
Value of product at plant	Mil. dol.	2,193	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	103	103	(NA)	(NA)	(NA)	(NA)	(NA)
Coal carbonized	Mil. sh. tons	96.5	66.7	41.1	38.9	33.9	32.4	31.3	31.7
Average value per ton	Dollars	12.47	56.26	54.30	47.73	48.88	47.9	47.4	46.5
Yield of coke from coal	Percent	69.1	69.2	69.8	71.0	71.0	(NA)	(NA)	(NA)

NA Not available. ¹ Less than \$500,000. ² Includes bituminous coal, lignite, and anthracite. ³ All domestic production data for 1970 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. ⁴ Includes some categories not shown separately. ⁵ Data for 1970 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons more. Beginning 1985, includes anthracite. ⁶ Includes beehive coke. ⁷ Prior to 1980, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1970, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Coal Industry*, annual; *Annual Energy Review*, and *Quarterly Coal Report*, and unpublished data.

No. 1168. Uranium Concentrate (U_3O_8) Industry—Summary: 1980 to 1993

[Middle demand case. See table 969. See also *Historical Statistics, Colonial Times to 1970*, series M 266-267]

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993
Production	1,000 sh. tons . .	21.9	5.6	6.8	6.5	6.5	6.9	4.4	4.0	2.8	3.1
Net imports (U_3O_8)	1,000 sh. tons . .	-1.1	3.2	6.4	7.5	6.4	5.6	12.1	9.8	12.3	(NA)
Utility and Suppliers inventories (U_3O_8 equivalent)	1,000 sh. tons . .	54.4	168.3	166.2	164.5	159.1	154.9	45.6	36.70	(NA)	(NA)
Price (1988 dol./lb. U_3O_8):											
Long-term contract price	Dollars	41.4	24.7	19.3	18.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Spot market price	Dollars	45.0	17.0	18.1	17.3	14.5	14.2	(NA)	(NA)	(NA)	(NA)
Delivered price	Dollars	39.9	233.6	231.9	219.6	225.7	227.8	(NA)	(NA)	(NA)	(NA)
Capital expenditures (1988 dollars)	Mil. dol.	1,107	37	29	63	36	35	(NA)	(NA)	1.0	(NA)
Employment	1,000	19.9	2.4	2.1	2.0	2.10	1.6	1.3	(NA)	0.7	0.4

NA Not available. ¹ Includes natural U_3O_8 (uranium oxide), natural UF_6 (uranium hexafluoride), natural UF_6 under usage agreement, UF_6 at enrichment suppliers, enriched UF_6 and fabricated fuel. ² Average U.S. contract prices and market price settlements.

Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry*, annual, and *Uranium Industry*, annual.