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.

In Brief

	1994
Paper and board production	90.5 mil. sh. tns.
Recovered paper consumption	30.0 mil. sh. tns.
Petroleum balance, 1993:	
Products supplied	6.3 billion barrels
Net imports	2.4 billion barrels
Stocks	1.6 billion barrels

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 (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 Bureau of Mines, 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. Non-government 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 Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every 5th year for years ending in “2” and “7.” The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its Current Industrial Reports series.

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. 1147. 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	1976
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. 1148. 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	786	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. 1149. 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. 1150. 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	1,460
Mineral class, total	Number	106,125	119,419	89,789	82,585	83,762	81,355	83,358	72,337	59,631
Leases	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

- Represents or rounds to zero. [1] Excludes Indian fee and reissue trust and corrective patents. [2] Excludes free-use permits for disposition of mineral materials. [3] 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. 1151. 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
Logging	2411	78.1	1,561	11.4	83.6	1,693	13.8
Sawmills and planing mills, general	2421	129.5	2,747	17.5	138.1	3,046	17.5
Hardwood dimension and flooring mills	2426	26.1	462	1.7	28.5	502	2.0
Special product sawmills, n.e.c	2429	2.0	36	0.2	1.8	31	0.1
Millwork and veneer [2]	243	209.9	4,487	21.4	224.6	5,027	24.9
Millwork	2431	84.9	1,836	9.0	85.9	1,973	9.6
Wood kitchen cabinets	2434	57.1	1,139	4.2	63.0	1,311	5.0
Hardwood veneer and plywood	2435	17.3	320	1.9	20.2	400	2.3
Softwood veneer and plywood	2436	31.7	810	4.6	313	828	5.5
Structural wood members, n.e.c	2439	18.9	382	1.8	24.3	516	2.5
Wood containers	244	39.8	634	2.9	40.0	639	2.9
Nailed and lock corner wood boxes	2441	6.2	100	0.4	5.9	101	0.4
Wood pallets and skids	2448	27.1	413	2.0	28.6	448	2.1
Wood containers, n.e.c	2449	6.5	120	0.4	5.5	90	0.3
Wood buildings, mobile homes	245	54.1	1,106	6.0	56.2	1,230	6.6
Mobile homes	2451	35.1	714	3.9	37.1	813	4.5
Prefabricated wood buildings and components	2452	19.0	392	2.0	19.1	416	2.1
Miscellaneous wood products	249	90.9	1,706	9.5	84.9	1,740	10.3
Wood preserving	2491	11.7	233	2.6	11.0	237	2.7
Reconstituted wood products	2493	21.0	537	3.0	22.9	613	3.9
Wood products, n.e.c	2499	58.1	936	3.8	51.0	890	3.7
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
Setup paperboard boxes	2652	8.7	150	0.6	6.6	129	0.4
Corrugated and solid fiber boxes	2653	108.7	3,047	18.0	111.0	3,247	19.7
Fiber cans, tubes, drums, & similar prods.	2655	12.9	341	1.9	12.4	337	1.9
Sanitary food containers, except folding	2656	17.6	411	2.7	15.4	386	2.5
Folding paperboard boxes, incl. sanitary	2657	50.7	1,443	7.4	53.6	1,610	8.0
Converted paper and paperboard products [3]	267	224.3	6,043	44.6	229.2	6,521	46.0
Packaging paper & plastics film, coated & laminated	2671	15.4	492	3.1	18.2	560	3.7
Coated and laminated paper, n.e.c	2672	34.2	992	7.4	32.3	1,032	7.6
Plastics, foil, and coated paper bags	2673	35.4	875	5.1	38.4	979	5.7
Uncoated paper and multiwall bags	2674	17.9	398	2.7	18.7	440	2.8
Die-cut paper and paperboard and cardboard	2675	17.0	408	2.3	15.6	373	2.0
Sanitary paper products	2676	38.8	1,343	15.6	40.5	1,451	15.5
Envelopes	2677	24.5	616	2.7	24.9	672	2.8
Stationery, tablets, and related products	2678	10.1	209	1.4	9.3	218	1.4
Converted paper and paperboard products, n.e.c	2679	30.9	711	4.3	31.2	795	4.4

[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, 1987 Final Industry Series*, MC87-I-24A-D and MC87-I-26A-C, and *Annual Survey of Manufactures.*

No. 1152. 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. 1153. 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
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 [1]	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 railcar 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. 1154. 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. 1155. 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. 1156. Lumber Production and Consumption, by Kind of Wood: 1988 to 1993

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

ITEM	1988	1989	1990 [1]	1991 [1]	1992	1993
Total production	**44,576**	**43,576**	**43,466**	**40,031**	**(NA)**	**(NA)**
Softwoods [2]	36,845	36,040	36,224	33,250	(NA)	(NA)
Hardwoods [2]	7,731	7,536	7,242	6,781	(NA)	(NA)
Domestic consumption	**58,834**	**58,847**	**54,482**	**51,134**	**(NA)**	**(NA)**
Percent net imports [3]	16.5	16.7	15.7	15.5	(NA)	(NA)
Softwoods	48,513	47,975	45,003	41,998	(NA)	(NA)
Hardwoods	10,321	10,872	9,480	9,136	(NA)	(NA)
United States	**50,300**	**49,960**	**48,451**	**44,794**	**46,635**	**45,247**
North	6,814	6,797	6,917	6,620	6,750	6,767
South	19,751	19,695	20,110	18,885	20,893	21,239
West	23,735	23,468	21,423	19,290	18,992	17,242

NA Not available. [1] New sample, based on the new MA-24T sample. [2] Includes types not shown separately. [3] Imports minus exports.

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

No. 1157. Wood Products—Production: 1980 to 1990

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, prel.
Hardwood flooring	Mil. bd. ft	78	83	75	98	110	122	145	174	193	206	205
Softwood plywood	Bil. sq. ft., 3/8"	15.5	15.5	15.1	18.3	18.9	19.3	20.4	21.1	22.9	21.4	20.7
Insulation boards [1]	1,000 short tons	1,051	845	593	713	785	735	732	605	529	460	474
Hardboard [1]	Mil. sq. ft., 1/8"	6,140	6,104	5,587	7,303	6,837	6,300	5,822	5,458	5,118	5,196	5,025
Particleboard	Mil. sq. ft., 3/4"	2,950	2,869	2,393	3,009	3,196	3,331	3,603	3,706	3,829	3,858	3,806

[1] Beginning 1982, data are for shipments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Forest Products Review,* monthly (discontinued April 1983); and unpublished data. Based on reports of U.S. Bureau of the Census, National Oak Flooring Manufacturers Association and National Particleboard Association.

No. 1158. 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
Semichemical	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. 1159. 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	[1]88.5	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. 1160. Recovered Paper Utilization and Recovery Rates: 1970 to 1994

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

ITEM	1970	1980	1985	1988	1989	1990	1991	1992	1993	1994
Paper and board, production [1]	51.7	63.6	68.7	78.1	78.4	80.3	81.1	84.6	86.6	90.5
Recovered paper consumption	11.8	14.9	16.4	19.7	20.2	21.7	23.7	26.2	28.0	30.0
Recovered paper utilization rate (percent)	22.8	23.5	23.8	25.2	25.8	27.1	29.2	31.0	32.4	33.1
Other recovered paper uses [2]	0.42	0.47	0.53	0.70	0.72	1.00	1.08	1.10	1.15	1.20
Recovered paper exports	0.41	2.64	3.56	5.95	6.31	6.51	6.60	6.45	5.89	7.71
Total paper recovered	12.6	17.9	20.4	26.2	27.1	29.1	31.2	33.6	34.9	38.6
Paper and board, new supply [3]	56.0	67.2	76.1	85.5	85.2	86.7	84.9	88.1	91.4	95.4
Recovery rate (percent)	22.4	26.7	26.8	30.6	31.8	33.6	36.8	38.1	38.2	40.5

[1] Excludes hard pressed board; includes construction paper and board, and wet machine board. [2] Estimated. [3] Excludes production of hard pressed board.

Source: American Forest and Paper Association, Washington, DC, *Statistics of Paper, Paperboard, and Woodpulp,* annual; and unpublished data.

No. 1161. Selected Wood Products—Production and Consumption: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970,* series L 151-170]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989
PULPWOOD										
Receipts, total	Mil. cords [1]	68.9	65.4	81.0	88.0	85.4	90.6	93.9	95.1	97.0
Softwood	Mil. cords [1]	52.4	49.3	60.2	62.9	60.2	63.3	65.3	65.8	67.1
Hardwood	Mil. cords [1]	16.5	16.2	20.8	25.2	25.1	27.3	28.6	29.3	29.9
Consumption, total	Mil. cords [1]	67.6	65.4	79.7	87.0	84.8	91.1	92.4	95.3	96.1
Softwood	Mil. cords [1]	51.3	48.9	58.8	62.0	59.7	63.1	64.2	65.9	66.3
Hardwood	Mil. cords [1]	16.3	16.5	20.9	24.9	25.1	28.1	28.2	29.4	29.7
Inventories [2]	Mil. cords [1]	6.6	6.6	6.7	5.2	5.1	4.7	5.6	5.3	5.8
WOODPULP										
Production	Mil. short tons	43.9	43.1	53.0	57.8	57.7	60.6	62.4	64.1	64.6
Consumption, [3] total	Mil. short tons	43.2	42.4	52.4	57.5	56.6	60.0	61.2	62.8	62.7
Own pulp	Mil. short tons	38.9	38.5	46.6	50.3	49.7	52.6	53.8	54.9	54.9
Purchased pulp	Mil. short tons	4.3	3.9	5.9	7.2	7.0	7.5	7.4	7.9	7.8
PLYWOOD										
Softwood:										
Production	Mil. sq. ft. [4]	14,149	15,706	15,483	18,865	19,341	20,363	22,312	22,233	20,919
Consumption, total	Mil. sq. ft. [4]	(NA)	(NA)	15,145	18,526	19,122	19,880	21,503	22,277	20,904
Value	Mil. dol.	949	(NA)	2,582	2,995	3,080	3,237	3,483	3,513	3,734
Hardwood:										
Production	Mil. sq. ft. [5]	1,904	1,280	1,311	1,185	1,016	1,088	1,256	1,217	1,213
Consumption, total	Mil. sq. ft. [5]	5,772	4,970	3,416	3,831	4,311	4,884	4,918	4,193	(NA)
Value	Mil. dol.	516	586	977	1,199	1,192	1,320	1,471	1,405	1,392

- Represents or rounds to zero. NA Not available. [1] Standard cords. 128 cubic feet roughwood bases. [2] As of Dec. 31. [3] In the manufacture of paper and board. [4] 3/8" basis. [5] Surface measure.

Source: U.S. Bureau of the Census, *Current Industrial Reports,* series MA26-A, MA24-H, and MA24-F.

No. 1162. Selected Timber Products—Imports and Exports: 1970 to 1993

ITEM	Unit	1970	1980	1985	1988	1989	1990	1991	1992	1993, prel.
IMPORTS [1]										
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
Value	Mil. dol.	434	1,826	2,898	2,939	2,875	2,534	2,507	3,310	4,787
Hardwoods	Mil. bd. ft.	337	293	364	386	349	232	210	260	335
Value	Mil. dol.	62	152	180	238	152	141	142	176	224
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
Value	Mil. dol.	9	17	17	15	12	7	6	20	41
Hardwoods	Mil. bd. ft. [3]	38	13	28	12	18	10	6	7	8
Value	Mil. dol.	5	3	4	3	17	10	6	6	9
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
Value	Mil. dol.	1,039	3,418	5,698	8,002	8,330	8,427	7,929	7,899	8,527
Woodpulp	1,000 tons	3,518	4,051	4,466	4,938	5,105	4,893	4,997	5,029	5,413
Value	Mil. dol.	483	1,684	1,521	2,608	3,037	2,831	2,132	2,094	1,860
Plywood	Mil. sq. ft. [5]	2,049	1,235	1,817	1,698	1,955	1,687	1,457	1,776	1,798
Value	Mil. dol.	208	409	463	577	516	537	457	574	677
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
Value	Mil. dol.	163	789	497	1,143	1,404	1,336	1,358	1,363	1,372
Hardwoods	Mil. bd. ft.	128	487	427	1,261	863	861	942	990	1,008
Value	Mil. dol.	31	272	263	683	659	818	879	988	1,077
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	(NA)	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
Value	Mil. dol.	320	1,452	1,169	2,090	2,176	2,170	1,870	1,925	2,237
Hardwoods	Mil. bd. ft. [3]	69	152	111	204	214	218	283	224	237
Value	Mil. dol.	36	129	91	160	223	251	234	238	253
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
Value	Mil. dol.	602	2,773	2,266	3,753	4,261	5,035	6,006	6,392	6,541
Woodpulp	1,000 tons	3,095	3,806	3,796	5,528	6,231	5,906	6,337	7,222	6,499
Value	Mil. dol.	464	1,652	1,354	2,915	3,513	3,156	2,800	3,114	2,389
Plywood	Mil. sq. ft. [5]	172	413	358	1,093	1,562	1,767	1,552	1,759	1,648
Value	Mil. dol.	16	108	86	247	292	338	295	366	401

NA Not available. [1] Customs value of imports; see text, section 29. [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, *Trade, Consumption, and Price Statistics: 1960-89*, forthcoming, and unpublished data.

No. 1163. 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 1404, 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
Finfish	(NA)	6,139	6,303	6,991	7,087	7,919	7,786	9,735	10,120	10,186	10,297	10,796
Shellfish [1]	(NA)	1,867	2,195	2,346	2,533	2,642	2,719	2,533	2,542	2,834	2,945	3,025
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**
Percent of total	42.8	57.1	51.3	41.3	42.0	43.8	49.2	54.7	57.5	58.0	59.8	51.5
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
Finfish	(NA)	2,516	2,348	2,273	2,240	2,769	3,306	4,897	5,747	5,564	6,182	6,746
Shellfish [1]	(NA)	1,138	972	1,021	1,153	1,177	1,282	1,307	1,294	1,467	1,436	1,468
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 [2]	**6,557**	**4,875**	**6,114**	**8,892**	**8,337**	**8,848**	**7,436**	**7,022**	**6,945**	**6,879**	**6,469**	**9,867**
Percent of total	57.2	42.9	48.7	58.7	58.0	56.2	50.8	45.3	42.5	42.0	40.2	48.5
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
Finfish	(NA)	3,623	3,955	4,718	4,847	5,150	4,480	4,838	4,373	4,622	4,115	4,026
Shellfish [1]	(NA)	729	1,223	1,325	1,380	1,465	1,437	1,226	1,248	1,367	1,509	1,581
For industrial use [3]	2,881	523	936	2,849	2,110	2,233	1,519	958	1,324	890	845	4,260

NA Not available. [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.

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

No. 1164. Fisheries—Employment, Fishing Craft, and Establishments: 1970 to 1992

[**In thousands.** As of **Dec. 31.** 1979-92 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970,* series L 254-261]

ITEM	1970	1980	1983	1984	1985	1986	1987	1988	1989 [1]	1990 [1]	1991 [1]	1992 [1]
Persons employed in U.S.	**227**	**296**	**333**	**340**	**351**	**347**	**359**	**364**	**(NA)**	**(NA)**	**(NA)**	**(NA)**
Fishermen	140	193	223	230	239	247	256	274	(NA)	(NA)	(NA)	(NA)
Shore workers [2]	87	103	110	110	112	100	103	90	73	72	73	72
Craft used	**88**	**113**	**127**	**127**	**130**	**128**	**[3]93**	**[3]110**	**111**	**95**	**(NA)**	**(NA)**
Vessels, 5 net tons and over	14	19	21	24	24	38	[3]23	[3]32	36	32	(NA)	(NA)
Motorboats	72	93	105	102	104	88	[3]68	[3]78	75	63	(NA)	(NA)
Other boats	2	1	1	1	2	2	[3]2	(NA)	(NA)	(NA)	(NA)	(NA)
Fishery shore establishments.	**3.7**	**3.6**	**3.9**	**4.0**	**4.0**	**4.0**	**4.2**	**4.6**	**4.5**	**4.6**	**4.6**	**4.9**

NA Not available. [1] Estimated and excludes Mississippi River. Maryland and Virginia represent only Federal collected data. [2] Seasonal average for processors and wholesaling plants. [3] Excludes Maryland and Virginia.

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

No. 1165. 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 industrial products [2]				Total	For human food	For industrial products [2]		
1970	4,917	2,537	2,380	613	12.5	1982	6,367	3,285	3,082	2,390	37.5
1971	5,018	2,441	2,577	651	13.0	1983	6,439	3,238	3,201	2,355	36.6
1972	4,806	2,435	2,371	748	15.6	1984	6,438	3,320	3,118	2,350	36.5
1973	4,858	2,398	2,460	937	19.3	1985	6,258	3,294	2,964	2,326	37.2
1974	4,967	2,496	2,471	932	18.7	1986	6,031	3,393	2,638	2,763	45.8
1975	4,877	2,465	2,412	977	20.0	1987	6,896	3,946	2,950	3,115	45.2
1976	5,388	2,775	2,613	1,349	25.0	1988	7,192	4,588	2,604	3,520	48.9
1977	5,271	2,952	2,319	1,554	29.5	1989	8,463	6,204	2,259	3,238	38.3
1978	6,028	3,177	2,851	1,854	30.7	1990	9,404	7,041	2,363	3,522	37.5
1979	6,267	3,318	2,949	2,234	35.6	1991	9,484	7,031	2,453	3,308	34.9
1980	6,482	3,654	2,828	2,237	34.5	1992	9,637	7,618	2,019	3,678	38.2
1981	5,977	3,547	2,430	2,388	40.0	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.

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

No. 1166. Domestic Fisheries—Catch, by Selected Ports: 1985 to 1993

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

PORT	CATCH (mil. lb.)					VALUE (mil. dol.)				
	1985	1990	1991	1992	1993	1985	1990	1991	1992	1993
New Bedford, MA	90.6	114.8	106.4	103.3	82.1	103.2	160.4	157.7	151.8	107.5
Dutch Harbor-Unalaska, AK	106.3	509.9	731.7	736.0	793.9	21.3	126.2	130.6	194.0	161.2
Kodiak, AK	96.1	272.5	287.3	274.0	374.2	65.8	101.7	96.9	90.0	81.5
Dulac-Chauvin, LA	398.6	164.4	166.8	65.0	142.4	59.9	52.7	50.1	52.1	48.0
Empire-Venice, LA	224.5	244.2	309.4	269.1	335.4	34.3	46.3	50.2	50.1	52.3
Gloucester, MA	116.5	126.2	107.2	101.7	67.6	37.1	40.5	40.0	34.1	31.3
Petersburg, AK	(NA)	67.5	90.3	81.0	110.2	(NA)	39.4	34.6	33.0	32.8
Cordova, AK	(NA)	70.8	47.5	30.0	18.1	(NA)	36.8	19.5	17.0	10.7
Cape May-Wildwood, NJ	30.3	69.2	93.1	93.9	95.0	18.1	34.4	40.1	34.9	36.2
Point Judith, RI	56.8	58.7	64.7	66.7	60.4	28.0	32.2	37.5	36.6	35.2
Portland, ME	36.1	48.9	63.4	59.2	86.1	17.2	31.7	44.1	43.6	49.1
Ketchiken, AK	(NA)	52.6	68.5	70.0	100.6	(NA)	28.3	21.9	27.0	27.0
Beaufort-Morehead City, NC	133.2	102.0	137.0	78.7	88.4	22.7	23.0	23.0	16.2	15.6
Cameron, LA	673.6	232.6	288.4	246.0	323.1	29.9	20.6	26.3	26.5	27.4
Morgan City-Berwick, LA	7.7	146.5	112.3	130.8	147.5	(NA)	19.7	9.4	14.3	13.0
Pascagoula-Moss Point, MS	423.2	303.9	227.3	177.0	169.7	18.4	18.8	15.1	12.4	10.7
Los Angeles, CA	150.3	158.5	141.5	94.9	99.8	32.5	21.3	17.4	14.6	13.7
Astoria, OR	25.5	41.2	53.0	67.0	68.0	9.5	16.2	17.0	19.0	19.0
Port Hueneme-Oxnard-Ventura, CA	19.9	39.4	52.0	18.7	39.9	5.4	12.5	14.0	10.7	10.3
Intercoastal City, LA	(NA)	173.0	211.4	175.9	202.7	(NA)	7.6	12.0	10.4	11.0

NA Not available.

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

No. 1167. 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, total [1]	**(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	32,178	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, total [1]	**(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	1,135	[2]12,524	1,281	[2]	
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

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

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

No. 1168. Disposition of U.S. Domestic Catch: 1970 to 1993

[**Live weight catch in millions of pounds.** 1980-93 preliminary. In addition to whole fish, a large portion of waste (400-500 million lb.) derived from canning, filleting, and dressing fish and shellfish utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970,* series L 305-310, for similar but not entirely comparable data]

DISPOSITION	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	**4,917**	**4,877**	**6,482**	**6,258**	**6,031**	**6,896**	**7,192**	**8,463**	**9,404**	**9,484**	**9,637**	**10,467**
Fresh and frozen	1,595	1,744	2,621	2,242	2,487	3,157	3,813	5,585	6,501	6,541	7,288	7,744
Canned	1,150	907	1,161	1,232	1,134	1,009	1,017	798	751	674	543	649
Cured	71	55	96	70	60	89	86	128	126	119	100	115
Reduced to meal, oil, etc	2,101	2,171	2,604	2,714	2,350	2,641	2,276	1,952	2,026	2,150	1,696	1,959

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

No. 1169. 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. 1170. 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. 1171. 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**	**1615**	**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. 1172. 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 4, table 1176. [2] Includes purchased machinery installed. [3] See footnote 6, table 1176.

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

No. 1173. Gross Domestic Product (GDP) in Mining: 1980 to 1992

[**In millions of dollars, except percent.** For definition of gross national product, see text, section 14. For 1947-86, 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	1986	1987	1988	1989	1990	1991	1992
Current dollars, total	**112.6**	**130.6**	**82.7**	**83.0**	**87.9**	**84.2**	**103.1**	**92.0**	**85.2**
Metal mining	4.4	2.5	2.5	2.6	4.8	5.2	6.2	6.3	6.3
Coal mining	13.6	13.8	14.0	12.5	12.5	12.9	12.7	12.4	13.1
Oil and gas extraction	89.1	108.4	59.5	60.8	63.2	58.8	76.9	66.1	58.5
Nonmetallic minerals, exc. fuels	5.5	5.9	6.7	7.2	7.3	7.4	7.2	7.1	7.3
Constant (1987) dollars, total	**79.9**	**83.3**	**83.0**	**83.0**	**94.2**	**83.3**	**91.8**	**92.3**	**89.0**
Metal mining	1.6	2.5	2.9	2.6	4.3	5.0	6.6	7.7	8.0
Coal mining	10.1	11.3	13.0	12.5	13.8	14.8	15.3	15.5	16.7
Oil and gas extraction	61.8	63.2	60.2	60.8	69.0	56.2	62.9	62.2	57.2
Nonmetallic minerals, exc. fuels	6.4	6.3	6.9	7.2	7.1	7.3	7.0	6.9	7.1

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

No. 1174. 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. 1175. Mineral Production, 1990 to 1994,

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

	MINERAL	Unit	PRODUCTION QUANTITY			
			1990	1992	1993	1994
1	Total mineral production	(X)	(X)	(X)	(X)	(X)
2	**Mineral fuels**	(X)	(X)	(X)	(X)	(X)
3	Coal: Bituminous and lignite	Mil. sh. tons	1,026	998	945	(NA)
4	Pennsylvania anthracite	Mil. sh. tons	4	3	4	(NA)
5	Natural gas (wet)	Tril. cu. ft.	18.6	18.7	19.3	19.7
6	Petroleum (crude)	Mil. bbl. [1]	2,685	2,625	2,499	(NA)
7	Uranium [2]	Mil. lb.	8.9	5.6	3.1	(NA)
8	**Industrial minerals**	(X)	(X)	(X)	(X)	(X)
9	Abrasive stone [3]	Metric tons	3,709	1,732	(Z)	(NA)
10	Asbestos (sales)	1,000 metric tons	(D)	15.6	13.0	10.0
11	Asphalt and related bitumens (native) [4]	Mil. metric tons	25	25	(NA)	(NA)
12	Barite, primary, sold/used by producers	1,000 metric tons	430	326	315	340
13	Boron minerals, sold or used by producers	1,000 metric tons	1,094	1,009	1,055	560
14	Bromine, sold or used by producers	1,000 metric tons	177	171	177	197
15	Calcium chloride (natural)	1,000 sh. tons	(D)	(D)	-	-
16	Carbon dioxide, natural (estimate)	Mil. cu. ft.	-	-	-	-
17	Cement: Portland	Mil. sh. tons	75.6	72.8	78.9	83.6
18	Masonry	Mil. sh. tons	3.3	2.9	3.0	4.0
19	Clays	1,000 metric tons	42,904	40,237	41,074	42,300
20	Diatomite	1,000 metric tons	631	595	599	596
21	Feldspar [6]	1,000 metric tons	630	726	770	740
22	Fluorspar, finished shipments	1,000 metric tons	64	51	60	50
23	Garnet (abrasive)	1,000 metric tons	47.0	54.1	44.0	46.5
24	Gemstones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)
25	Gypsum, crude	Mil. sh. tons	16.4	16.3	17.4	19.1
26	Helium [7]	Mil. cu. meters	87	94	96	96
27	Lime, sold or used by producers	Mil. sh. tons	17.5	16.1	18.7	19.1
28	Mica, scrap & flake, sold/used by producers	1,000 metric tons	109	85	88	96
29	Peat, sales by producers	1,000 sh. tons	795	719	675	750
30	Perlite, processed, sold or used	1,000 metric tons	576	541	569	610
31	Phosphate rock (marketable)	Mil. metric tons	46.3	47.0	35.0	41.0
32	Potash (K_2O equivalent) sales	1,000 metric tons	1,713	1,705	1,506	1,425
33	Pumice & pumicite, producer sales	1,000 metric tons	443	481	469	485
34	Pyrites	1,000 metric tons	(D)	(D)	(D)	(D)
35	Salt, common, sold/used by producers	Mil. metric tons	36.9	34.8	38.7	38.6
36	Sand & gravel, sold/used by producer	Mil. metric tons	852	858	895	949
37	Construction	Mil. metric tons	829	834	869	922
38	Industrial	Mil. metric tons	26	25	26	27
39	Sodium carbonate (natural) (soda ash)	1,000 metric tons	9,156	9,379	8,959	9,100
40	Sodium sulfate (natural)	1,000 metric tons	349	337	322	300
41	Stone [8]	Mil. metric tons	1,110	1,055	1,167	1,196
42	Crushed and broken	Mil. metric tons	1,109	1,054	1,116	1,195
43	Dimension	1,000 metric tons	1,118	1,061	1,235	1,070
44	Sulfur: Frasch mines (shipments)	1,000 metric tons	3,676	2,600	1,904	2,700
45	Talc, and pyrophyllite, crude [9]	1,000 metric tons	1,267	997	(D)	972
46	Tripoli	1,000 metric tons	94	85	94	(NA)
47	Vermiculite concentrate	1,000 metric tons	209	190	190	190
48	Industrial minerals, undistributed	(X)	(X)	(X)	(X)	(X)
49	**Metals** [10]	(X)	(X)	(X)	(X)	(X)
50	Antimony ore and concentrate [10]	Metric tons	(D)	(D)	(D)	(D)
51	Bauxite (dried)	1,000 metric tons	(D)	(D)	(D)	(D)
52	Copper [2]	1,000 metric tons	1,590	1,760	1,800	1,840
53	Gold [2] [14] [15]	Metric tons	294	330	331	330
54	Iron ore,	Mil. metric tons	57.0	55.6	56.3	57.0
55	Lead [2]	1,000 metric tons	497	407	362	365
56	Magnesium metal [16]	1,000 metric tons	139	137	132	135
57	Manganiferous ore [15] [17]	1,000 metric tons	(D)	(D)	(D)	(D)
58	Mercury [18]	Metric tons	562	64	(D)	(D)
59	Molybdenum [19]	1,000 metric tons	62	50	37	40
60	Nickel [20]	1,000 metric tons	0.3	6.7	2.5	(NA)
61	Palladium metal	Kilograms	5,930	6,470	6,500	6,500
62	Platinum metal	Kilograms	1,810	1,840	1,800	1,800
63	Silver [2]	Metric tons	2,121	1,804	1,645	1,400
64	Titanium concentrate: Ilmenite [15]	1,000 metric tons	(D)	(D)	(D)	(D)
65	Tungsten ore and concentrate [20]	Metric tons	(D)	(D)	(D)	(D)
66	Vanadium [2]	Metric tons	(D)	(D)	(D)	(D)
67	Zinc mine production [2]	1,000 metric tons	515	523	488	540
68	Metals, undistributed	(X)	(X)	(X)	(X)	(X)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable. Z Less than half the unit of measure. [1]42 gal. bbl. [2]Recoverable content of ores, etc. [3]Includes grindstones, oilstones, whetstones, and deburring media. Excludes grinding pebbles, and tubemill liners. [4]Contains bituminous limestone and sandstone, and gilsonite. Includes road oil, 1989-92. Value excluded from industrial minerals, 1989-92. [5]Value included in "Industrial minerals, undistributed." [6]Includes aplite, 1992-93. [7]1980, crude and refined; thereafter, refined only. [8]Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table; 1993 excludes dimension stone. State ranks based on publishable data. Includes calcareous marl and slate.

and Principal Producing States, 1994

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

PRODUCTION VALUE (mil. dol.)				Principal producing States ranked by quantity, 1993	
1990	1992	1993	1994		
141,741	(NA)	(NA)	(NA)	(X)	1
108,422	(NA)	(NA)	(NA)	(X)	2
22,274	(NA)	(NA)	(NA)	(NA)	3
133	(NA)	(NA)	(NA)	(NA)	4
31,658	32,571	(NA)	(NA)	(NA)	5
53,772	(NA)	(NA)	(NA)	(NA)	6
140	(NA)	(Z)	(NA)	(NA)	7
21,022	20,496	(NA)	(NA)	(NA)	8
(Z)	(Z)	(Z)	(NA)	(NA)	9
(5)	6	6	5	CA, VT	10
3,480	2,794	(NA)	(NA)	(NA)	11
16	20	19	13	NV, GA, MO	12
436	339	373	370	CA	13
173	170	123	157	AR, MI	14
(5)	(5)	(X)	(X)	(NA)	15
-	-	(X)	(X)	(NA)	16
3,683	3,500	3,916	4,155	CA, TX, PA	17
225	195	229	264	FL, IN, TX	18
1,620	1,482	1,488	1,597	GA, AL, TX	19
138	141	150	162	CA, NV, OR	20
28	29	31	30	NC, VA, OK	21
(5)	(5)	(5)	(5)	IL, VT	22
7	5	4	5	ID, NY	23
53	66	58	52	(NA)	24
100	101	107	118	OK, IA, TX	25
113	187	189	191	KS, WY	26
902	950	977	996	OH, MO, AL	27
6	5	4	5	NC, GA, NM	28
19	17	17	18	FL, MI, MN	29
17	16	17	19	NM, AZ, CA	30
1,075	1,058	759	902	FL, NC, ID	31
303	334	286	274	NM	32
11	15	12	14	OR, NM, CA	33
(5)	(5)	(5)	(5)	(NA)	34
827	803	894	906	LA, TX, NY	35
3,686	3,766	3,988	4,293	(NA)	36
3,249	3,341	3,534	3,835	CA, MI, OH	37
436	425	454	458	IL, NJ, CA	38
836	836	734	650	WY, CA	39
34	26	(D)	25	CA, UT	40
5,822	5,775	5,987	6,731	(NA)	41
5,591	5,594	5,770	6,731	TX, PA, FL	42
231	181	217	(8)	GA, WI, MA	43
335	159	101	135	LA, TX	44
31	31	(D)	32	MT, TX, VT	45
3	3	4	(NA)	(NA)	46
19	15	15	(D)	SC, VA	47
504	478	212	136	(NA)	48
12,442	11,537	11,876	(NA)	(NA)	49
(12)	(12)	(12)	(12)	ID	50
(12)	(12)	(12)	(12)	AL, GA	51
4,311	4,179	3,636	4,382	AZ, UT, NM	52
3,650	3,662	3,841	3,843	NV, CA, UT	53
1,741	1,732	1,643	1,700	MN, MI	54
491	308	249	286	MO, AL, ID	55
433	360	377	(D)	(NA)	56
(12)	(12)	(12)	(12)	SC	57
(12)	0.4	(D)	(D)	NV	58
348	209	165	215	AZ, CO, TX	59
(NA)	(12)	(12)	(NA)	(NA)	60
22	18	25	25	MT	61
27	21	21	21	MT	62
329	229	227	192	NV, AZ, ID	63
(12)	(12)	(12)	(12)	FL, CA	64
(12)	(12)	(12)	(12)	CA	65
(12)	(12)	(12)	(12)	ID	66
847	674	497	549	AL, TN, NY	67
242	156	306	113	(NA)	68

[9] For 1991-92, production quantity, talc only; 1989-92 [10] Comprises value of items that cannot be disclosed. [11] Antimony content. [12] Included with "Metals, undistributed. [13] Dried equivalent. [14] Represents shipments; includes byproduct ores. [15] Gross weight. [16] For 1980-85, magnesium chloride for magnesium metal included in "Metals undistributed," canvass for magnesium chloride for magnesium metal discontinued in 1986. [17] 5 to 35 percent manganiferous ore. [18] 1986-89, mercury produced as the primary product only; thereafter, mercury produced as a byproduct of gold ores only. [19] Content of concentrate. [20] Content of ore and concentrate. [21] Tungsten content.

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; Uranium Industry Annual; Petroleum Supply Annual,* vol. 1; *Natural Gas Annual; and Quarterly Coal Report.*

No. 1176. 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									
	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.)	Capital expenditures (mil. dol.)
		Number [1] (1,000)	Payroll [2] (mil. dol.)	Number [1] (1,000)	Wages (mil. dol.)			Total	With 20 or more employees	Number [1] (1,000)	Payroll [2] (mil. dol.)	Number [1] (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	25347	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. 1177. 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)	Consumption, apparent		
Aluminum	1,000 metric tons	5,000	1,300	31	7,300	[2]0.65	21,100
Antimony (contained)	Metric tons	[3]37,000	4,000	62	45,000	[2]1.60	100
Arsenic	Metric tons	-	100	100	19,400	[2]0.50	(NA)
Asbestos	1,000 metric tons	10	21	95	28	[4]531	(NA)
Barite	1,000 metric tons	340	10	82	1,450	[4]38	350
Bauxite and alumina	1,000 metric tons	(D)	1,150	99	3,500	[4]15-18	35
Beryllium (contained)	Metric tons	200	20	(5)	191	[2 6]225	425
Bismuth (contained)	Metric tons	(D)	140	(D)	[1]1,500	[2]3.25	30
Boron (B_2O_3 content)	1,000 metric tons	560	550	(5)	362	[4 8]324	900
Bromine (contained)	1,000 metric tons	197	20	-	287	[9]36.2	1,600
Cadmium (contained)	Metric tons	[3]1,000	490	50	2,020	[2 10]1.03	140
Cement	1,000 short tons	80,007	599	12	90,492	56.22	18,000
Chromium	1,000 metric tons	[11]91	28	75	387	[4 12]110	(NA)
Clays	1,000 metric tons	42,300	4,400	(5)	37,900	(NA)	11,000
Cobalt (contained)	Metric tons	[11]1,600	1,300	79	7,800	[2]25.00	(NA)
Columbium (contained)	Metric tons	-	160	100	3,700	[2 13]2.60	(NA)
Copper (Mine, contained)	1,000 metric tons	2,380	680	14	2,800	[2]1.08	13,500
Diamond (industrial)	Million carats	149.1	110	17	181	[14]0.62	(NA)
Diatomite	1,000 metric tons	596	104	(5)	494	[4]272	1,000
Feldspar	1,000 metric tons	740	12	(5)	738	[4]41.00	400
Fluorspar	1,000 metric tons	170	20	88	455	(NA)	180
Gallium (contained)	Kilograms	-	(NA)	(NA)	[1]11,500	395	20
Garnet (industrial)	Metric tons	46,500	10,000	(5)	50,400	100-2000	160
Gemstones	Million dollars	66.3	1,550	98	3,536	(NA)	1,000
Germanium (contained)	Kilograms	[3]10,000	(NA)	(NA)	[1]25,000	[15]1,060	100
Gold (contained)	Metric tons	330	140	(5)	310	[16]389.00	13,500
Graphite (crude)	1,000 metric tons	-	19	100	40	[4 17]603	-
Gypsum (crude)	1,000 short tons	17,300	100	30	2,600	[4]6.80	[18]6,700
Indium	Metric tons	-	(NA)	(NA)	[1]40	[19]135.00	(NA)
Iodine	Metric tons	2,000	1,000	58	4,800	[20]7.13	35
Iron ore (usable)	Million metric tons	57.0	4.0	18	69.3	[21]72.5-74.0	7,000
Iron and steel scrap (metal)	Million metric tons	76.4	8.3	(5)	69.6	[4 22]125.00	40,000
Iron and steel slag (metal)	1,000 metric tons	19,000	4	1	[1]19,000	[4]6.70	2,500
Lead (contained)	1,000 metric tons	365	30	17	1,500	[23]36.3	1,500
Lime	1,000 short tons	17,300	80	(1)	17,400	[4]57.50	5,500
Magnesium compounds	1,000 metric tons	380	50	37	600	(NA)	600
Magnesium metal	1,000 metric tons	194	48	(5)	152	[24]1.48-1.53	1,400
Manganese (gross weight)	1,000 metric tons	-	23	100	[25]695	[26]2.40	(NA)
Mercury	Metric tons	[27]400	400	(D)	[1]550	[28]180.00	(NA)
Mica, scrap and flake	1,000 metric tons	96	6	14	111	[4]51	80
Molybdenum (contained)	Metric tons	40,000	30,000	(5)	18,000	[29]7.70	700
Nickel (contained)	Metric tons	-	7,570	66	131,000	[30]6,089	2
Nitrogen (fixed)-ammonia	1,000 metric tons	13,050	200	18	16,000	[4 31]215	2,500
Nonrenewable organics	Million metric tons	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Peat	1,000 short tons	660	23	49	1,300	[4]26.00	650
Perlite	1,000 metric tons	610	24	8	660	[4]31.15	125
Phosphate rock	1,000 metric tons	41,000	3,400	2	42,000	[4]22.00	5,200
Platinum-group metals	Kilograms	8,300	90,000	91	127,000	[32]400	400
Potash (K_2O equivalent)	1,000 metric tons	1,425	400	74	5,390	[4 33]128	1,655
Pumice and pumicite	1,000 metric tons	485	18	24	637	[4]28.22	55
Salt	1,000 metric tons	39,500	700	19	47,400	[4]34 112.00	4,150
Silicon (contained)	1,000 metric tons	390	30	39	640	[35]44.1	(NA)
Silver (contained)	Metric tons	1,400	1,600	(NA)	4,000	[16]5.30	1,000
Sodium carbonate (soda ash)	1,000 metric tons	9,100	2,900	(5)	6,314	[4 36]98.00	2,800
Sodium sulfate	1,000 metric tons	610	85	14	712	[37]114.00	240
Stone (crushed)	Million short tons	1,195	5	-	1,198	[4]5.47	77,000
Sulfur (all forms)	1,000 metric tons	11,300	850	16	13,450	[4 38]45.00	3,100
Talc	1,000 metric tons	972	165	(5)	944	[4]7-350	800
Thallium (contained)	Kilograms	-	(NA)	100	[1]800	285	-
Tin (contained)	Metric tons	[11]11,900	2,700	84	46,000	[2]2.46	5
Titanium dioxide	1,000 metric tons	1,250	344	(5)	1,110	[2 39]10.95	4,600
Tungsten (contained)	Metric tons	(D)	-	94	[7]4,000	[40]45	20
Vermiculite	1,000 metric tons	190	5	12	215	(D)	230
Zinc (contained)	1,000 metric tons	540	390	41	[41]1,350	[23]46.4	2,200
Zirconium (Z_r02) content	Metric tons	(D)	18,587	(D)	(D)	[42]200	(NA)

- Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. [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. Cents per long ton unit of iron. [22] Delivered, No. 1 Heavy Melting composite price. [23] Cents per pound. [24] Year-end price, per pound. [25] Estimated manganese content. [26] 46%-48% Mn metallurgical ore, per unit contained Mn, c.i.f. U.S. ports. [27] Secondary industrial production. [28] Price per 76-pound flask. [29] Price per kilogram. [30] London Metal Exchange cash price. [31] F.o.b. gulf coast. [32] Dealer price of platinum. Per troy ounce, palladium price was $140 for 1994 and $120 for 1993; rhodium price was $810 for 1994 and $1,066 for 1993. [33] Price of K20, muriate. [34] Vacuum and open pan, bulk, pellets and packaged, f.o.b. mine and plant. [35] Ferrosilicon, 50% Si. [36] Quoted year-end price, dense, bulk, f.o.b. Green River, WY. [37] Quoted price, bulk, f.o.b. works, East, per short ton. [38] Elemental sulfur, f.o.b. mine and/or plant. [39] Rutile, list, year-end. [40] Price per unit W03 (7.93 kilograms of contained tungsten per unit). [41] All forms. [42] Price for imported zircon, f.o.b. U.S. east coast.

Source: U.S. Bureau of Mines, *Mineral Commodity Summaries,* annual.

No. 1178. Value of Domestic Nonfuel Mineral Production: 1980 to 1994

[In millions of dollars]

AREA	1980	1990	1992	1993	1994	Principal minerals in order of value
U.S. [1]	25,140	33,452	32,012	[1] 31,912	[1] 34,209	(X)
Northeast	1,581	2,479	2,308	2,451	2,536	(X)
N.E	268	446	423	424	427	(X)
ME	37	55	56	60	58	Sand and gravel (construction), cement (portland), and stone (crushed and broken).
NH	25	36	42	37	40	Sand and gravel (construction), stone (crushed and broken), and stone dimension).
VT	43	87 [2]	60 [2]	53 [2]	48	Stone (dimension), stone (crushed and broken), and sand and gravel (construction).
MA	91	128	147	160	157	Stone (crushed and broken), sand and gravel (construction), and stone (dimension).
RI	6	18	21 [2]	23 [2]	27	Sand and gravel (construction), stone (crushed and broken), and sand and gravel (industrial).
CT	66	122	97	91	97	Stone, sand, and gravel (construction), & sand and gravel (industrial).
M.A	1,313	2,033	1,885	2,027	2,109	(X)
NY	496	773	766	852	871	Salt, Stone (crushed and broken), and sand and gravel (construction).
NJ	149	229	240	262	274	Stone (crushed and broken), sand and gravel (construction), and sand and gravel (industrial).
PA	668	1,031	879	913	964	Stone (crushed and broken), cement (portland), and lime.
Midwest	6,610	7,163	7,261	7,357	7,906	(X)
E.N.C	2,930	3,483	3,762	3,875	4,145	(X)
OH	562	733	742	851	893	Stone (crushed and broken), sand and gravel (construction), and salt.
IN	288	428	477	473	517	Stone (crushed and broken), cement (portland), and sand and gravel (construction).
IL	443	667	734	734	770	Stone (crushed and broken), sand and gravel (construction), and cement (portland).
MI	1,485	1,440	1,587	1,504	1,621	Iron ore (usable), cement (portland), & sand and gravel (construction).
WI	152	215	222	313	344	Stone (crushed & broken), sand & gravel (construction), & copper.
W.N.C.	3,680	3,680	3,499	3,482	3,761	(X)
MN	1,782	1,482	1,364	1,299	1,352	Iron ore (usable), sand and gravel (construction), and stone (crushed and broken).
IA	252	310	391	398	426	Stone (crushed and broken), cement (portland), and sand and gravel (construction).
MO	1,054	1,105	897	855	1,003	Stone (crushed and broken), cement (portland), and lead.
ND	22	25	26	25	26	Sand and gravel (construction), lime, and sand and gravel (industrial).
SD	228	319	301	337	322	Gold (lode), cement (portland), and sand and gravel (construction).
NE	80	90	115	126	137	Cement (portland), stone (crushed and broken), and sand and gravel (construction).
KS	262	349	405	442	495	Stone (crushed and broken), salt, and Helium (Grade-A).
South	7,320	9,291	8,560	8,578	9,309	(X)
S.A	3,454	5,132	4,651	4,689	5,146	(X)
DE [2]	2	10	9	[2]10	[2]9	Magnesium compounds, sand and gravel (construction).
MD	186	368	339	314	324	Stone (crushed and broken), cement (portland), and sand and gravel (construction).
VA	305	507	462	465	514	Stone (crushed and broken), cement (portland), and lime.
WV	106	133	112	149	176	Stone (crushed and broken), cement (portland), and sand and gravel (industrial).
NC	380	586	596	617	705	Stone (crushed and broken), phosphate rock, and sand and gravel (construction).
SC	195	450	247	391	415	Stone (crushed and broken), cement (portland), and gold (lode).
GA	771	1,504	1,346	1,432	1,535	Clay, stone (crushed and broken), and cement (portland).
FL	1,509	1,574	1,440	1,311	1,468	Phosphate rock, stone (crushed and broken), and cement (portland).
E.S.C	1,030	1,692	1,640	1,564	1,696	(X)
KY	204	359	401	388	431	Stone (crushed and broken), lime and cement (portland).
TN	394	663	576	510	577	Stone (crushed and broken), zinc, and cement (portland).
AL	328	559	543	562	576	Stone (crushed and broken), cement (portland), and lime.
MS	104	111	120	104	112	Sand and gravel (construction), clay, and cement (portland).
W.S.C.	2,836	2,467	2,269	2,325	2,467	(X)
AR	293	381	404	347	392	Bromine, stone (crushed & broken), & sand & gravel (construction).
LA	584	368	309	232	328	Salt, sulfur (Frasch), and sand and gravel (construction).
OK	224	259	253	298	338	Stone (crushed and broken), cement (portland), and sand and gravel (construction).
TX	1,735	1,459	1,303	1,448	1,409	Cement (portland), stone (crushed and broken), and magnesium metal.
West	9,629	14,512	13,858	13,424	14,354	(X)
Mt	7,223	10,380	10,154	9,736	10,482	(X)
MT	280	573	539	484	492	Gold (lode), copper, and cement (portland).
ID	522	375	306	274	343	Phosphate rock, gold (lode), and sand and gravel (construction).
WY	761	911	951	856	781	Soda ash, clay, and helium (Grade-A).
CO	1,265	377	385	399	440	Sand and gravel (construction), cement (portland), and gold (lode).
NM	766	1,103	871	804	914	Copper, potash, and sand and gravel (construction).
AZ	2,471	3,085	3,166	2,776	3,323	Copper, sand and gravel (construction), and cement (portland).
UT	764	1,335	1,348	1,314	1,428	Copper, gold (lode), and magnesium metal.
NV	394	2,621	2,588	2,829	2,761	Gold (lode), sand and gravel (construction), and diatomite.
Pac	2,406	4,132	3,704	3,688	3,872	(X)
WA	207	483	469	505	556	Sand and gravel (construction), magnesium metal, and stone (crushed and broken).
OR	152	205	214	226	253	Stone (crushed and broken), sand and gravel (construction), and cement (portland).
CA	1,872	2,771	2,346	2,440	2,497	Cement (portland), sand and gravel (construction), and gold (lode).
AK	115	577	526	378	429	Zinc, gold (lode), and sand and gravel (construction).
HI	60	106	149	139	137	Stone (crushed and broken), cement (portland), and sand and gravel (construction).

X Not applicable. [1] Includes undistributed not shown separately. [2] Partial data only.
Source: U.S. Bureau of Mines, *Annual Reports, and Mineral Commodities Summary,* annual.

No. 1179. 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.

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

No. 1180. 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	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,				
Avg. weekly hours	No	44.0	44.4	45.2	except fuels:				
Avg. weekly earnings	Dol	755	766	802	All employees	1,000	102	101	101
Oil and gas extraction:					Production workers	1,000	76	76	76
All employees	1,000	353	351	339	Avg. weekly hours	No	44.9	46.1	46.5
Production workers	1,000	228	229	222	Avg. weekly earnings	Dol	551	585	608

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

No. 1181. Selected Mineral Products—Average Prices: 1970 to 1994

[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, electrolytic [2] (cents per lb.)	Platinum [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, crude [7] (dol./metric ton)	Bituminous coal [8] (dol./short ton)	Crude petroleum [8] (dol./bbl.)	Natural gas [8] (dol./1,000 cu. ft.)
1970	9.15	58	133	36	1.77	16	174	15	[9]22.41	6.26	3.18	0.17
1975	18.32	64	164	161	4.42	22	340	39	[9]44.20	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
1981	99.51	84	446	460	10.52	37	733	45	111.48	26.29	31.77	1.98
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	20.56	14.24	1.97
1994, prel.	(NA)	108	400	389	5.30	36	358	46	45.00	(NA)	(NA)	(NA)

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, New York 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. 1182. Principal Fuels, Nonmetals, and Metals—U.S. Production, as Percent of World Production: 1980 to 1993

MINERAL	WORLD PRODUCTION					PERCENT U.S. OF WORLD			
	Unit	1980	1985	1990	1993	1980	1985	1990	1993
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	2,775	2	1	(D)	(NA)
Barite	1,000 metric tons	7,495	6,067	5,633	4,890	27	11	8	6
Feldspar	1,000 metric tons	3,202	4,039	5,456	6,009	20	16	12	13
Fluorspar	1,000 metric tons	5,006	4,979	5,131	4,031	2	1	1	1
Gypsum	Mil. metric tons	78	87	100	103	14	15	15	15
Mica (incl. scrap)	1,000 metric tons	228	255	215	190	46	49	51	46
Nitrogen, (fixed) - ammonia	Mil. metric tons	74	91	97	91	20	14	13	14
Phosphate rock, gross wt.	Mil. metric tons	144	149	162	132	38	34	29	27
Potash (k_2O equivalent)	Mil. metric tons	28	29	28	(NA)	8	4	6	(NA)
Sulfur, elemental	Mil. metric tons	55	54	58	52	22	22	20	21
Metals, mine basis:									
Bauxite	Mil. metric tons	89	84	109	106	2	1	(D)	(NA)
Columbian concentrates (Nb content)	1,000 metric tons	15	15	15	31	(NA)	-	(NA)	-
Copper	1,000 metric tons	7,405	7,988	9,017	9,352	16	14	18	19
Gold	Metric tons	1,219	1,532	2,133	2,330	2	5	14	14
Iron ore	Mil. metric tons	891	861	982	989	8	6	6	6
Lead [2]	1,000 metric tons	3,470	3,431	3,353	2,926	17	12	15	12
Mercury	Metric tons	6,806	6,136	4,523	2,563	16	9	12	(NA)
Molybdenum	1,000 metric tons	111	98	128	95	62	50	48	39
Nickel [2]	1,000 metric tons	779	813	965	899	2	1	(Z)	(NA)
Silver	1,000 metric tons	11	13	16	14	9	9	13	12
Tantalum concentrates (ta content)	Metric tons	544	315	400	(NA)	(NA)	-	(NA)	(NA)
Titanium concentrates:									
Ilmenite	1,000 metric tons	3,726	3,457	4,072	3,579	14	(D)	(D)	(NA)
Rutile	1,000 metric tons	436	373	481	464	(D)	(D)	(D)	(NA)
Tungsten [2]	1,000 metric tons	52	47	43	30	5	2	14	(NA)
Vanadium [2]	1,000 metric tons	37	30	31	29	12	(D)	(D)	10
Zinc [2]	1,000 metric tons	5,954	6,758	7,184	6,895	6	4	8	7
Metals, smelter basis:									
Aluminum	1,000 metric tons	15,383	15,398	19,292	19,816	30	23	21	19
Cadmium	1,000 metric tons	18	19	20	19	9	8	8	6
Copper	1,000 metric tons	7,649	8,630	9,472	9,352	14	14	15	19
Iron, pig	Mil. metric tons	514	499	532	989	12	9	9	6
Lead [3]	1,000 metric tons	5,430	5,641	5,763	2,926	23	20	23	12
Magnesium [4]	1,000 metric tons	316	325	354	284	49	42	39	47
Raw Steel	Mil. metric tons	717	718	771	725	14	11	12	12
Tin [5]	1,000 metric tons	251	193	223	193	1	2		(NA)
Zinc	1,000 metric tons	6,049	6,786	7,060	7,177	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 and 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. 1183. 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. 1184. Federal Strategic and Critical Materials—Summary: 1990 to 1994

ITEM	Unit	Tin	Silver	Cobalt	Bauxite	Mang-anese	Tungsten	Zinc	Titanium	Platinum	Chromium	DIAMONDS	
												Stones	Indus-trial bort
Production:													
1990	1,000 metric tons.	[1] 13.2	[1] 2.1	1.2	(D)	-	(D)	263	24.7	[2] 7,740	[1] 101	-	[3] [4] 90.0
1992	1,000 metric tons.	[1] 8.8	[1] 1.8	1.6	(D)	-	(D)	272	(D)	[2] 8,310	[1] 102	-	[3] [4] 95.0
1993	1,000 metric tons.	[1] 7.2	[1] 1.6	1.6	(D)	-	(D)	240	(D)	[2] 8,300	[1] 92	-	[3] [4] 105.0
1994	1,000 metric tons.	7.4	1.4	1.6	(D)	-	(D)	240	(D)	8,300	91	-	108.0
Imports:													
1990	1,000 metric tons.	33.8	3.4	6.4	12,987	307	6.4	723	1.1	[2] 125,354	346	[4] 11.0	[4] 85.4
1992	1,000 metric tons.	27.3	5.0	5.8	11,372	247	2.5	740	0.7	[2] 132,006	324	[4] 9.8	[4] 97.3
1993	1,000 metric tons.	33.7	3.8	5.9	11,936	232	1.7	805	2.2	[2] 153,165	330	[4] 5.2	[4] 133.0
1994	1,000 metric tons.	34.0	3.6	7.3	11,200	280	3.6	800	5.0	160,000	281	3.0	140.0
Export:													
1990	1,000 metric tons.	0.7	1.8	1.3	64	70	0.1	128	[5] 15.8	[2] 55,044	16	[4] 1.7	[4] 71.0
1992	1,000 metric tons.	1.9	1.8	1.4	68	13	([6])	120	[5] 8.0	[2] 57,830	18	[4] 5.6	[4] 83.6
1993	1,000 metric tons.	2.6	1.7	0.8	92	16	([6])	52	[5] 7.9	[2] 78,521	21	[4] 3.4	[4] 107.0
1994	1,000 metric tons.	2.7	1.6	1.3	150	12	([6])	50	9.0	90,000	28	1.0	110.0
Consumption:													
1990	1,000 metric tons.	[7] 45.5	4.4	7.6	[8] 4,570	497	8.4	992	[9] 23.2	[2] 117,043	445	[4] 9.8	[4] 112.7
1992	1,000 metric tons.	[7] 43.6	4.1	6.5	[8] 4,863	438	7.1	1,035	[9] 14.2	[2] 110,900	422	[4] 4.3	[4] 121.9
1993	1,000 metric tons.	[7] 44.2	3.3	6.5	[8] 4,633	389	7.1	1,148	[9] 15.1	[2] 122,700	470	[4] 1.9	[4] 146.0
1994	1,000 metric tons.	46.0	4.0	7.2	3,500	430	8.4	1,220	16.0	127,000	387	2.0	181.0
Net Import reliance:													
1990	Percent	71.0	([10])	84.0	98	100	81.0	41	([11])	88	71	95.0	13.0
1992	Percent	80.0	([10])	75.0	100	100	86.0	30	(D)	87	76	98.0	19.0
1993	Percent	84.0	([10])	79.0	100	100	82.0	45	(D)	89	74	95.0	18.0
1994	Percent	84.0	([10])	79.0	99	100	94.0	41	(D)	91	75	95.0	17.0
Stocks, end of year:													
1990	1,000 metric tons.	17.3	9.2	3.2	2,300	379	1.1	87	3.3	[2] 30,324	126	(NA)	(NA)
1992	1,000 metric tons.	10.7	10.1	1.8	2,300	276	0.7	75	1.9	[2] 25,338	118	(NA)	(NA)
1993	1,000 metric tons.	10.9	11.2	1.5	1,000	302	0.6	78	2.9	[2] 20,782	104	(NA)	(NA)
1994	1,000 metric tons.	10.0	8.4	3.1	2,200	325	0.4	75	4.0	20,000	100	(NA)	(NA)
World production:													
1990	1,000 metric tons.	218.1	16.5	42.4	109,042	26,108	51.8	7,158	100.8	[2] 291,015	12,959	([12])	[4] 58.5
1992	1,000 metric tons.	178.4	14.7	27.1	101,145	21,608	37.5	7,227	38.6	[2] 281,438	10,993	([12])	[4] 48.8
1993	1,000 metric tons.	178.2	14.1	22.2	105,550	21,757	29.5	6,895	37.0	[2] 250,718	10,001	([12])	[4] 50.4
1994	1,000 metric tons.	180.0	14.0	22.0	110,000	21,000	21.0	6,700	31.0	250,000	9,400	([12])	50.0

- Represents or rounds to zero. D Withheld to avoid disclosure of individual company data. NA Not available. [1] Production from scrap or secondary production. [2] Kilograms. [3] Manufactured diamond bort, grit, and powder and dust. [4] Million carats. [5] All metal forms. [6] Less than 50 metric tons. [7] Apparent demand. [8] Includes alumina. [9] Reported consumption. [10] Net importer; however, changes in unreported investor stocks preclude calculation of a meaningful net import reliance. [11] Net exporter. [12] Included with bort production; data not separable.

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

No. 1185. 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	(NA)	(NA)	43,833	37,123	(NA)	(NA)
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) [3]	Mil. metric tons	17.8	16.2	17.4	20.0	11,612	11,962	10,977	(NA)
Platinum group	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	(NA)	(NA)
Petroleum (crude)	Mil. bbls	8.0	2.7	(NA)	(NA)	198.6	54.1	(NA)	(NA)
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	(NA)	(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) [5]	Mil. metric tons	4.7	6.6	4.7	4.5	4,665	5,753	5,374	4,848
Magnesium [6]	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. 1186. Mineral Industries—Lost Workday Injuries and Fatalities: 1993

[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 mining [2]	Sand and gravel mining	Nonmetal mining
Injuries, total	8,375	3,208	1,741	1,126	965
Fatal	47	19	14	13	5
Rate per million work-hours:					
Fatal	0.20	0.15	0.16	0.23	0.10
Nonfatal	36.0	24.9	19.9	19.9	19.1
Fatalities per 1,000 employed [3]	0.35	0.30	0.32	0.40	0.19

[1] Includes cement. [2] Nonmetal mines exclude extraction of Frasch process sulfur. [3] Average number of persons at work each day mines were active.

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

No. 1187. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1980 to 1994, and by Major Foreign Sources

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

MINERAL	1980	1990	1992	1993	1994	Rank of major foreign sources, 1990-93
Columbium	100	100	100	100	100	Brazil, 66%; Canada, 25%; Germany 4%
Manganese	98	100	100	100	100	Rep. of So. Africa, 24%; France, 13%; Brazil, 12%
Mica (sheet)	100	100	100	100	100	India, 64%; Belgium, 18%; China, 3%
Strontium	100	100	100	100	100	Mexico, 92%; Germany, 6%
Bauxite [1]	94	98	100	100	99	Australia, 36%; Jamaica, 20%; Guinea, 18%
Asbestos	78	90	95	95	95	Canada, 98%; Rep. of South Africa, 1%
Platinum group	87	88	87	89	91	Rep. of So. Africa, 47%; Russia, 15%; U.K., 14%.
Tantalum	90	86	85	85	86	Germany, 27%; Australia, 21%; Canada, 8%
Cobalt	93	84	75	79	79	Zambia, 26%; Zaire, 19%; Canada, 16%
Chromium	91	71	76	74	75	Rep. of So. Africa, 43%; Turkey, 15%; Zimbabwe, 9%
Tungsten	53	81	86	82	84	China, 45%; Bolivia, 9%; Peru, 7%
Nickel	76	64	59	63	66	Canada, 51%; Norway, 15%; Australia, 10%
Tin	79	71	80	84	84	Brazil, 25%; Bolivia, 24%; China, 23%
Barite	44	71	52	70	82	China, 72%; India, 19%; Mexico, 5%.
Potash	65	68	68	72	74	Canada, 91%; Israel, 3%; former U.S.S.R., 3%
Antimony	47	51	60	62	62	China, 60%; Mexico, 10%; Rep. of So. Africa, 10%
Cadmium	55	46	52	61	50	Canada, 37%; Mexico, 18%; Australia, 8%
Selenium	59	46	48	39	39	Canada, 41%; Japan, 14%; Philippines, 13%
Zinc	60	[2]41	[2]30	[2]45	41	Canada, 60%; Mexico, 13%; Peru, 6%
Gypsum	35	36	31	31	30	Canada, 71%; Mexico, 22%; Spain, 5%.
Iron ore	25	21	12	14	18	Canada, 53%; Brazil, 21%; Venezuela, 21%
Iron and steel	13	13	13	15	21	EEC [3], 31%; Canada, 21%; Japan, 15%
Sulfur	14	15	20	12	16	Canada, 61%; Mexico, 31%.
Copper	16	3	2	7	14	Canada, 41%; Chile, 15%; Mexico, 13%
Aluminum	([4])	([4])	1	19	31	Canada, 75%; Russia, 6%; Venezuela, 5%
Silver	7	(NA)	(NA)	(NA)	(NA)	Mexico, 29%; Canada, 25%; Peru, 10%
Mercury	27	(D)	(NA)	(D)	(D)	Canada, 78%; Germany, 20%
Titanium	32	([4])	(D)	([4])	([4])	Japan, 43%; former U.S.S.R., 36%; China, 14%
Vanadium	35	(D)	(D)	(D)	(D)	Canada, 24%; EC, 20%; So. Amer.& Mexico, 16%

D Withheld to avoid disclosure. NA Not available. [1] Includes alumina. [2] 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; 1990, 64%; 1991, 61%; and 1992, 64%. [3] European Economic Community. [4] Net exports.

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

No. 1188. Federal Offshore Leasing, Exploration, Production, and Revenue: 1980 to 1993

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

ITEM	Unit	1980	1985	1987	1988	1989	1990	1991	1992	1993
Tracts offered	Number	483	15,754	10,926	33,376	11,013	10,459	16,800	9,618	10,164
Tracts leased	Number	218	667	640	1,856	1,049	825	676	204	336
Acres offered	1,000	2,563	87,029	59,762	85,366	60,096	56,788	80,288	52,380	55,070
Acres leased	1,000	1,134	3,512	45,075	10,040	5,580	4,263	3,416	1,021	1,714
Bonus paid for leased tracts	Bil. dol.	4.2	1.5	0.5	1.2	0.6	0.6	0.4	0.1	0.1
New wells being drilled:										
Active	Number	191	195	142	116	123	120	64	104	129
Suspended	Number	739	348	265	289	361	266	249	180	133
Wells completed	Number	9,638	12,285	12,736	12,827	12,938	13,167	13,184	13,209	13,181
Wells plugged and abandoned	Number	8,057	10,487	12,373	13,164	13,846	14,677	15,430	16,348	16,709
Revenue, total [1]	Bil. dol.	6.4	5.2	2.9	3.4	2.8	3.3	2.8	2.5	2.6
Bonuses	Bil. dol.	4.2	1.5	0.5	1.2	0.6	0.6	0.4	0.1	0.1
Oil and gas royalties [1]	Bil. dol.	2.1	3.6	2.3	2.1	2.1	2.6	2.3	2.3	2.5
Rentals	Bil. dol.	(Z)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	(Z)
Production, value [2]	Bil. dol.	13.1	22.2	14.6	12.9	13.0	16.5	14.2	14.5	15.8
Crude oil	Bil. dol.	4.8	9.6	5.6	4.2	4.4	5.9	5.2	5.3	4.9
Condensate	Bil. dol.	0.4	1.0	0.7	0.7	0.8	1.1	1.1	1.0	1.0
Natural gas	Bil. dol.	7.9	11.5	8.1	7.9	7.8	9.5	7.9	8.2	9.9
Production: [2]										
Crude oil	Mil. bbls.	259	352	325	279	260	274	263	301	307
Condensate	Mil. bbls.	19	37	41	41	45	51	52	52	55
Natural gas	Bil. cu..	4,641	4,000	4,425	4,310	4,200	5,093	4,516	4,685	4,533

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. 1189. Petroleum Industry—Summary: 1980 to 1993

[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	1987	1988	1989	1990	1991	1992	1993
Crude oil producing wells (Dec. 31)	1,000	548	647	620	612	603	602	614	594	584
Daily output per well	Bbl.	15.9	13.9	13.5	13.5	12.6	12.2	12.1	12.1	11.7
Completed wells drilled, total	1,000	56.93	57.88	28.71	25.58	22.82	26.23	24.56	19.82	20.85
Crude oil	1,000	30.50	33.14	15.33	12.53	9.76	11.53	11.36	8.22	7.70
Gas	1,000	15.13	12.97	7.08	7.58	8.57	9.86	8.67	7.59	8.65
Dry	1,000	11.30	11.76	6.30	5.48	4.49	4.83	4.53	4.01	4.49
Average depth per well [1]	Feet	4,773	4,637	4,762	5,051	4,925	5,043	5,100	5,445	5,668
Average cost per well [1]	$1,000	368	349	280	355	362	384	421	383	427
Offshore	$1,000	3,024	4,073	2,896	3,112	3,197	3,112	3,550	3,223	3,250
Average cost per foot [1]	Dollars	77.02	75.35	58.71	70.23	73.55	76.07	82.64	70.27	75.30
Crude oil production, total	Mil. bbl.	3,146	3,275	3,047	2,979	2,785	2,685	2,707	2,625	2,499
Value at wells	Bil. dol.	67.9	78.9	46.9	37.5	44.1	53.8	44.7	42.0	35.5
Average price per barrel	Dollars	21.59	24.09	15.40	12.58	15.86	20.03	16.54	15.99	14.24
Refinery input of crude oil	Mil. bbl.	4,934	4,381	4,692	4,848	4,891	4,895	4,855	4,909	4,969
Imports: Crude oil	Mil. bbl.	1,926	1,168	1,706	1,869	2,133	2,151	2,111	2,223	2,472
Refined petroleum products	Mil. bbl.	603	681	731	840	809	775	500	471	(NA)
Import value	Bil. dol.	78.7	53.5	43.5	42.6	51.9	63.8	53.5	54.8	55.0
Export value	Bil. dol.	7.9	9.9	7.5	7.1	7.5	9.2	9.7	9.1	7.6
Operable refineries	Number	319	223	219	213	204	205	202	199	187
Capacity (Jan. 1)	Mil. bbl.	6,566	5,716	5,683	5,811	5,712	5,683	5,723	5,731	5,519
Output	Mil. bbl.	5,352	5,019	5,339	5,498	5,539	5,570	5,933	6,050	(NA)
Utilization rate	Percent	75.4	77.6	83.1	84.7	86.6	87.1	86.0	87.9	91.4
Proved reserves	Bil. bbl.	29.8	28.4	27.3	26.8	26.5	26.3	24.7	23.7	23.0

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. 1190. Natural Gas—Financial Performance Measures: 1985 to 1993

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

ITEM	1985	1986	1987	1988	1989	1990	1991	1992	1993
Producer segment, majors:									
Average adjusted stock price	28.24	34.82	37.01	41.64	51.79	49.20	50.01	48.50	57.50
S&P bond rating	AA-	A+	A	AA-	AA	AA	AA	AA	AA
LT debt as a percent of invested capital	32.06	31.51	28.33	30.54	30.35	27.76	29.19	30.10	28.85
Times interest earned ratio	5.09	3.41	3.76	4.42	4.32	5.07	4.04	3.93	4.80
Rate of return on common equity (%)	14.30	10.34	10.64	17.67	18.56	17.78	12.54	9.05	13.74
Price/earnings ratio	7.35	10.47	11.69	9.11	10.65	9.98	15.15	15.14	16.40
Market/book value ratio	1.18	1.31	1.69	1.65	1.99	1.92	2.01	2.07	2.38
Producer segment, independents:									
Average adjusted stock price	14.66	14.52	12.33	12.84	17.34	15.14	12.01	11.93	14.53
S&P bond rating	A-	BBB+	BBB	BBB-	BBB-	BBB-	BBB-	BB+	BB+
LT debt as a percent of invested capital	47.39	59.03	61.13	73.47	68.00	63.00	55.87	53.93	52.21
Times interest earned ratio	0.36	-0.56	0.52	0.91	1.59	1.46	1.21	1.46	1.23
Rate of return on common equity (%)	-10.39	-15.08	-7.85	-1.69	6.51	1.93	-1.17	1.99	1.21
Price/earnings ratio	6.78	22.07	15.70	17.96	16.45	23.75	31.28	21.50	29.61
Market/book value ratio	1.23	1.45	1.96	1.84	2.32	2.63	2.05	1.85	2.18
Pipeline segment, w/Columbia:									
Average adjusted stock price	19.68	19.97	17.96	20.52	27.84	23.76	20.10	23.49	26.26
S&P bond rating	BBB-	BBB-	BBB-	BBB	BBB	BBB	BBB-	BB+	BB+
LT debt as a percent of invested capital	53.35	57.20	52.92	52.29	52.99	53.24	55.91	54.61	50.39
Times interest earned ratio	1.89	0.83	1.75	1.44	1.79	1.65	1.00	1.74	2.33
Rate of return on common equity (%)	6.32	-3.93	7.97	6.18	8.63	7.47	1.01	6.23	10.97
Price/earnings ratio	10.94	13.00	12.04	13.42	14.66	16.00	17.36	13.18	16.57
Market/book value ratio	1.11	1.30	1.31	1.28	1.51	1.55	1.52	1.53	1.86
Average adjusted stock price	17.69	19.94	18.84	18.66	23.29	21.21	20.53	22.78	26.06
S&P bond rating	BBB+	BBB+	A	A	A	A	A	A	A
LT debt as a percent of invested capital	44.21	45.04	44.27	47.30	46.31	47.28	48.62	48.83	46.46
Times interest earned ratio	2.81	2.67	3.01	2.51	2.49	2.04	1.95	2.42	3.07
Rate of return on common equity (%)	8.55	11.41	12.19	10.35	12.35	9.17	7.17	4.09	11.07
Price/earnings ratio	8.42	12.74	11.96	10.16	12.01	12.69	15.15	14.38	14.48
Market/book value ratio	1.29	1.48	1.48	1.36	1.49	1.51	1.47	1.56	1.75

Source: U.S. Energy Information Administration, *Natural Gas 1994: Issues and Trends.*

No. 1191. World Crude Oil Production: 1980 to 1993

[In thousands of barrels]

COUNTRY	1980	1985	1988	1989	1990	1991	1992	1993
Total [1]	**59,599**	**53,981**	**58,662**	**59,773**	**60,471**	**60,105**	**60,255**	**60,070**
Algeria	1,106	1,037	1,040	1,095	1,175	1,230	1,217	1,190
Kuwait	1,656	1,023	1,492	1,783	1,175	190	1,029	1,872
Libya	1,787	1,059	1,175	1,150	1,375	1,483	1,483	1,377
Saudi Arabia	9,900	3,388	5,086	5,064	6,410	8,115	8,438	8,198
United Arab Emirates	1,709	1,193	1,565	1,860	2,117	2,386	2,325	2,241
Indonesia	1,577	1,325	1,342	1,409	1,462	1,592	1,566	1,507
Iran	1,662	2,250	2,240	2,810	3,088	3,312	3,429	3,650
Nigeria	2,055	1,495	1,450	1,716	1,810	1,892	1,982	2,050
Venezuela	2,168	1,677	1,903	1,907	2,137	2,375	2,334	2,377
Canada	1,435	1,471	1,616	1,560	1,553	1,548	1,598	1,678
Mexico	1,936	2,745	2,512	2,520	2,553	2,680	2,668	2,671
United Kingdom	1,622	2,530	2,232	1,802	1,820	1,797	1,825	1,909
United States	8,597	8,971	8,140	7,613	7,355	7,417	7,171	6,847
China	2,114	2,505	2,730	2,757	2,774	2,835	2,838	2,911
U.S.S.R. (former)	11,706	11,585	11,978	11,625	10,880	9,887	8,388	7,297

[1] Includes countries not shown separately.

Source: U.S. Energy Information Administration, *Monthly Energy Review.*

No. 1192. World Natural Gas Production: 1984 to 1992

[In quadrillion Btu's]

REGION AND COUNTRY	1984	1985	1986	1987	1988	1989	1990	1991	1992 [1]
World total	**58.33**	**60.62**	**61.89**	**64.93**	**68.07**	**70.56**	**72.00**	**73.96**	**74.27**
North America	21.54	20.80	20.13	20.88	21.87	22.34	22.99	23.37	23.76
Canada	2.61	2.98	2.77	3.00	3.47	3.67	3.72	4.18	4.56
United States	17.93	16.91	16.47	17.05	17.52	17.78	18.36	18.28	18.31
Central and South America	1.78	1.84	1.86	1.82	2.04	2.21	2.22	2.22	2.21
Western Europe	6.03	6.25	6.26	6.59	6.28	6.47	6.47	7.56	7.60
Eastern Europe	21.31	23.11	24.54	25.61	27.08	27.96	28.34	28.04	26.85
Middle East	2.10	2.50	2.76	3.18	3.53	3.87	3.89	3.89	4.31
Africa	1.91	1.97	1.99	2.23	2.32	2.53	2.60	2.82	2.92
Far East and Oceania	3.66	4.16	4.35	4.63	4.96	5.18	5.48	6.06	6.62

[1] Preliminary.

Source: U.S. Energy Information Administration, *International Energy Annual.*

No. 1193. Domestic Motor Gasoline Supply: 1980 to 1994

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

ITEM	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Supply [1]	6,579	6,831	7,034	7,206	7,336	7,328	7,235	7,188	7,268	7,476	7,592
Production	6,506	6,419	6,752	6,841	6,956	6,963	6,959	6,975	7,058	7,360	7,291
Net imports	140	381	326	384	405	369	342	297	294	247	354
Stocks (mil. bbl.) [2]	261	223	233	226	228	213	220	219	216	226	211

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. 1194. Natural Gas Plant Liquids—Production and Value: 1970 to 1993

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

ITEM	Unit	1970	1980	1985	1987	1988	1989	1990	1991	1992	1993
Field production [1]	Mil. bbl	606	576	587	582	595	564	566	606	621	634
Pentanes plus	Mil. bbl	197	126	103	106	111	113	112	118	121	122
Liquefied petroleum gases	Mil. bbl	400	441	479	474	483	451	454	488	500	512
Natural gas processed	Tril. cu. ft.	19	15	13	13	13	13	15	16	16	16

[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. 1195. U.S. Petroleum Balance: 1980 to 1993

[In millions of barrels]

ITEM	1980	1985	1988	1989	1990	1991	1992	1993
Petroleum products supplied	**6,242**	**5,740**	**6,308**	**6,324**	**6,201**	**6,101**	**6,234**	**6,291**
New supply of products	6,249	5,676	6,290	6,270	6,259	6,110	6,206	6,316
Production of products	5,765	5,363	5,849	5,874	5,934	5,933	6,050	6,182
Crude input to refineries	4,934	4,381	4,835	4,891	4,894	4,855	4,909	4,969
Oil, field production	3,146	3,275	2,979	2,779	2,685	2,707	2,625	2,499
Alaska	592	666	738	684	647	656	627	577
Lower 48 States	2,555	2,608	2,241	2,095	2,037	2,050	1,997	1,922
Net imports	1,821	1,094	1,807	2,081	2,112	2,068	2,194	2,441
Imports (gross excluding SPR) [1]	1,910	1,125	1,845	2,112	2,142	2,111	2,223	2,472
SPR [1] imports	16	43	19	20	10	-	4	5
Exports	-105	75	57	52	40	42	32	36
Other sources	33	12	57	32	98	80	90	28
Natural gas plant liquids (NGPL), supply	577	604	593	563	574	613	628	664
Other liquids	253	378	418	420	465	466	513	550
Net imports of refined products	484	313	441	396	326	177	156	134
Imports	578	523	681	656	598	500	471	461
Exports	94	210	240	260	272	323	315	327
Stock withdrawal, refined products	-7	64	17	53	-59	-10	28	-24
Ending stocks, all oils	1,392	1,519	1,597	1,581	1,621	1,617	1,592	1,647
Crude oil and lease condensate	358	321	330	341	323	325	318	335
Strategic Petroleum Reserve (SPR) [1]	108	493	560	580	586	569	575	587
Unfinished oils	124	107	100	(NA)	(NA)	(NA)	(NA)	(NA)
Gasoline blending components	17	33	39	(NA)	(NA)	(NA)	(NA)	(NA)
Pentanes plus	(NA)	8	7	(NA)	(NA)	(NA)	(NA)	(NA)
Finished refined products	785	557	562	580	712	724	(NA)	(NA)
PRODUCT TYPE SUPPLIED								
Total products	**6,242**	**5,740**	**6,326**	**6,324**	**6,201**	**6,101**	**6,234**	**6,291**
Finished motor gasoline	2,407	2,493	2,678	2,675	2,641	2,623	2,660	2,729
Distillate fuel oil	1,049	1,047	1,140	1,152	1,103	1,066	1,090	1,110
Residual fuel oil	918	439	5,030	500	449	423	401	394
Liquefied petroleum gases [2]	414	584	604	609	568	616	642	633
Pentanes plus, other liquids, etc.	1,454	1,155	1,369	1,378	1,431	1,365	70	72
Crude oil	(NA)	22	15	10	9	7	5	4

- Represents zero. NA Not available. [1] SPR=Strategic Petroleum Reserve. (See table 956.) [2] Includes ethane.

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

No. 1196. Crude Petroleum and Natural Gas—Production, by State: 1985 to 1993

[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	1993	1985	1990	1993	1985	1990	1993	1985	1990	1993
Total [2]	**3,274**	**2,685**	**2,499**	**78,884**	**53,772**	**35,611**	**17,270**	**18,594**	**19,305**	**43,343**	**31,658**	**39,185**
AL	22	18	19	579	387	308	107	135	388	398	373	956
AK	666	658	577	10,655	10,086	8,141	321	403	430	236	554	611
AR	19	10	10	443	222	150	155	175	196	393	360	551
CA	424	322	293	8,386	5,732	3,548	491	363	316	1,653	857	753
CO	30	31	29	758	722	481	178	243	401	517	377	646
FL	11	6	6	(NA)	(NA)	(NA)	11	6	7	26	15	15
IL	30	20	17	795	467	288	1	1	(Z)	4	1	1
IN	5	3	3	134	73	51	(Z)	(Z)	(Z)	1	1	(Z)
KS	75	59	50	1,939	1,359	798	528	574	686	671	893	1,238
KY	8	5	6	201	124	99	73	75	87	174	169	198
LA	508	148	139	5,387	3,409	2,349	5,014	5,242	5,166	13,355	9,587	11,052
MI	27	20	14	726	458	235	132	140	205	475	420	487
MS	31	30	23	796	630	336	144	95	81	456	167	139
MT	30	20	17	734	429	250	52	50	55	125	90	84
NE	7	5	5	163	119	75	2	1	2	6	2	4
NM	79	66	68	2,028	1,472	1,118	905	965	1,409	2,370	1,629	2,512
NY	1	(Z)	(Z)	25	9	-	32	25	21	106	55	51
ND	51	39	31	1,307	849	478	73	52	60	138	93	110
OH	15	8	8	361	196	140	182	155	137	560	393	337
OK	163	117	97	4,256	2,690	1,598	1,936	2,258	2,050	4,930	3,548	3,859
PA	5	2	2	114	54	35	150	178	132	474	417	359
TX	889	674	619	23	15,060	10,022	6,053	6,343	6,250	14,097	9,939	13,059
UT	41	23	22	773	524	385	83	146	225	293	249	398
WV	4	2	2	86	43	34	145	178	176	558	568	467
WY	129	103	88	3,061	2,169	1,284	417	736	779	1,252	856	1,549

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. 1198. Liquefied Petroleum Gases—Summary: 1980 to 1993

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

ITEM	1980	1990	1992	1993	ITEM	1980	1990	1992	1993
Production	**561**	**638**	**720**	**850**	**Consumption**	**538**	**568**	**629**	**633**
At natural gas plants	441	456	500	634	Ethane [1]	164	186	209	217
At refineries	121	182	222	216	Propane [1 2]	298	335	378	367
Imports	79	68	57	70	Butane (incl. isobutane) [2]	76	47	42	49
Refinery input	85	107	172	179	Stocks, Dec. 31	116	98	98	117
Exports	9	14	18	16					

[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. 1199. 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	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] Represents United Germany beginning, 1990.

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

No. 1200. Coal and Coke—Summary: 1970 to 1993

[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	1989	1990	1991	1992	1993
Coal production, total [1]	**Mil. sh. tons**	**613**	**830**	**884**	**981**	**1,029**	**996**	**998**	**945**
Value	Mil. dol.	3,882	20,453	22,277	21,330	(NA)	(NA)	(NA)	(NA)
Anthracite production	Mil. sh. tons	9.7	6.1	4.7	3.3	3.5	3.4	3.5	3.6
Bituminous coal and lignite: [2]									
Number of mines	Number	5,601	5,598	4,547	3,429	3,243	2,846	2,746	2,475
Production	Mil. sh. tons	603	824	879	977	1,026	993	995	945
Value, total	Mil. dol.	3,774	20,196	22,061	21,260	22,274	21,598	(NA)	(NA)
Average per ton	Dollars	6.26	24.52	25.10	21.76	21.71	21.75	21.03	19.85
Exports	Mil. sh. tons	72	92	93	101	106	109	103	75
Value	Mil. dol.	961	4,627	4,465	4,287	4,510	4,619	(NA)	(NA)
Imports	1,000 sh. tons	36	1,194	1,952	2,851	2,699	3,390	3,803	(NA)
Method of mining:									
Underground	Mil. sh. tons	339	337	350	394	425	407	407	351
Surface	Mil. sh. tons	264	487	529	587	605	589	590	594
Percent of total prod	Percent	43.8	59.1	60.2	59.8	58.7	59.1	59.1	(NA)
Value	Mil. dol.	(Z)	30	70	(NA)	(NA)	(NA)	(NA)	(NA)
Consumption [3]	Mil. sh. tons	523	703	818	890	896	888	892	928
Electric power utilities	Mil. sh. tons	320	569	694	767	774	772	780	814
Industrial	Mil. sh. tons	184	126	116	76	76	75	74	75
Productivity average: [4]									
Daily employment	1,000	140	225	169	131	131	121	110	101
Days worked	Number	228	210	204	269	271	274	280	280
Tons per worker:									
Per day	Sh. tons	18.84	16.32	23.13	31.75	32.90	35.18	37.71	(NA)
Per year	Sh. tons	4,296	3,427	4,719	6,795	7,106	7,880	(NA)	(NA)
Production, by State:									
Alabama	Mil. sh. tons	21	26	28	28	29	27	26	25
Illinois	Mil. sh. tons	65	63	59	59	60	60	60	41
Indiana	Mil. sh. tons	22	31	33	34	36	32	31	29
Kentucky	Mil. sh. tons	125	150	152	167	173	159	161	156
Montana	Mil. sh. tons	3	30	33	38	38	38	39	36
Ohio	Mil. sh. tons	55	39	36	34	35	31	30	29
Pennsylvania	Mil. sh. tons	90	93	71	71	71	65	68	60
Virginia	Mil. sh. tons	35	41	41	43	47	42	43	39
West Virginia	Mil. sh. tons	144	122	128	154	169	167	162	131
Wyoming	Mil. sh. tons	7	95	141	172	184	194	190	210
Other States	Mil. sh. tons	44	140	161	182	187	181	189	(NA)
World production	Mil. sh. tons	3,295	4,103	4,779	5,252	5,214	4,952	4,975	(NA)
Coke production [5]	**Mil. sh. tons**	**66.5**	**46.1**	**28.4**	**28.1**	**27.6**	**24.1**	**23.4**	**23.2**
Oven coke [6]	Mil. sh. tons	65.7	46.1	28.7	33.0	27.6	24.0	23.0	(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	41.4	38.9	33.9	32.4	31.6
Average value per ton	Dollars	12.47	56.26	54.30	47.50	47.73	48.88	47.9	47.4
Yield of coke from coal	Percent	69.1	69.2	69.8	79.8	71.0	71.0	(NA)	(NA)

NA Not available. Z Less than $500,000. [1] Includes bituminous coal, lignite, and anthracite. [2] All domestic production data for 1970 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. [3] Includes some categories not shown separately. [4] 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. [5] Includes beehive coke. [6] 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. 1201. 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	[1]68.3	[1]66.2	[1]64.5	[1]59.1	[1]54.9	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	[2]33.6	[2]31.9	[2]19.6	[2]25.7	[2]27.8	(NA)	(NA)	(NA)	(NA)
Capital expenditures (1988 dollars)	Mil. dol.	1,107	37	29	63	36	35	(NA)	(NA)	(NA)	(NA)
Employment	1,000	19.9	2.4	2.1	2.0	2.10	1.6	1.3	1.0	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.