

# STATISTICAL SUMMARY

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This annual report summarizes data on crude nonfuel mineral production for the United States, its island possessions, and the Commonwealth of Puerto Rico. Also included in this report are tables that show the principal nonfuel mineral commodities exported from and imported into the United States. In addition, there is a table that compares world and U.S. mineral production for selected nonfuel mineral commodities. The detailed data from which these tables were derived are contained in the individual commodity and State Annual Reports published by the U.S. Bureau of Mines.

Although crude mineral production may be measured at any of several stages of extraction and processing, the stage of measurement used in this annual report is what is termed "mine output." This term refers to minerals or ores in the form in which they are first extracted from the ground, but customarily may include the output from auxiliary processing at or near the mines.

Because of inadequacies in the statistics available some series deviate from the foregoing definition. For the commodities of copper, gold, lead, silver, tin, and zinc, the quantities shown are recorded on a mine basis (as the recoverable content of ore sold or treated). However the values assigned to the quantities are based on the average selling price of refined metal, not the mine value. Mercury is measured as recovered metal and valued at the average New York price for the metal. Values shown are in current dollars, with no adjustments made to compensate for changes in the purchasing power of the dollar.

The total value of all nonfuel mineral production in the United States increased about 10% to \$35.2 billion in 1994, with metals increasing almost 12% to \$12.1 billion and industrial minerals rising approximately 9% to \$23.0 billion over that of 1993. Eight of the mineral commodities produced in the United States in 1994 had an individual total production value greater than \$1 billion.

These commodities in descending order, stone (crushed and broken); cement (portland); copper; gold; sand and gravel (construction); clays; iron ore; and lime; comprised over 78% of the U.S. total production. (*See table 1.*)

Eleven States in 1994 produced mineral commodities having an individual total production value of greater than \$1 billion. These States in descending order, Arizona; Nevada; California; Georgia; Texas; Utah; Michigan; Florida; Minnesota; Missouri; and Pennsylvania; comprised over 56% of the U.S. total production. (*See table 4.*)

U.S. exports of mineral commodities in 1994 decreased slightly overall, with metals decreasing almost 6% to \$21.4 billion, and industrial minerals increases of over 17% to \$5.1 billion. Imports into the United States increased more than 21%, with metals increasing over 26% to \$34.2 billion, and industrial minerals increased 7% to \$11.1 billion over that of 1993. (*See tables 8 and 9.*)

TABLE 1  
NONFUEL MINERAL PRODUCTION 1/ IN THE UNITED STATES 2/

Mineral	1992		1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	
<b>METALS</b>							
Beryllium concentrates	metric tons	4,830	\$5	4,940	\$5	4,330	\$5
Copper 3/	do.	1,760,000	4,180,000	1,800,000	3,640,000	1,810,000	4,430,000
Gold 3/	kilograms	330,000	3,660,000	331,000	3,840,000	326,000 4/	4,040,000 4/
Iron ore	thousand metric tons	55,600	1,730,000	56,300	1,640,000	57,600	1,580,000
Iron oxide pigments (crude)	metric tons	39,300	4,670	35,800	5,020	46,400	6,010
Lead 3/	do.	397,000	307,000	355,000	249,000	363,000	298,000
Magnesium metal	do.	137,000	360,000	132,000	377,000	128,000	389,000
Mercury	do.	64	376	W	W	W	W
Molybdenum 5/	do.	49,600	209,000	39,200	165,000	46,000	284,000
Nickel ore 6/	do.	6,670	W	2,460	W	--	--
Palladium	kilograms	6,470	18,100	6,500	25,300	6,440	29,400
Platinum	do.	1,840	21,100	1,800	21,400	1,960	25,300
Silver 3/	metric tons	1,800	229,000	1,650	227,000	1,480	252,000
Zinc 3/	do.	523,000	674,000	488,000	497,000	570,000	619,000
Combined value of antimony, bauxite, manganiferous ore (5% to 35%), rare-earth metal concentrates, tin (1992-93), titanium concentrates (ilmenite and rutile), tungsten, vanadium, zircon concentrates, and values indicated by symbol W							
		XX	151,000	XX	132,000 r/	XX	147,000
Total metals		XX	11,500,000	XX	10,800,000 r/	XX	12,100,000
<b>INDUSTRIAL MINERALS (EXCLUDING FUELS)</b>							
Asbestos	metric tons	15,600	6,140	13,400	5,960	10,100	5,120
Barite	thousand metric tons	326	19,600	315	19,300	583	21,700
Boron minerals (B2O3)	metric tons	1,010,000	339,000	1,050,000	373,000	1,110,000	443,000
Bromine e/	do.	171,000	170,000	177,000	123,000	W	W
Cement:							
Masonry	thousand metric tons	2,660	195,000	2,960	229,000	3,610	286,000
Portland	do.	66,100	3,500,000	71,600	3,920,000	74,300	4,460,000
Clays	do.	40,700	1,480,000	40,700 r/	1,470,000 r/	42,200	1,600,000
Diatomite	metric tons	595,000	141,000	599,000	150,000	613,000	153,000
Feldspar	do.	726,000	28,500	770,000	31,400	765,000	31,200
Garnet (abrasive)	thousand metric tons	54	4,840	W	W	42	15,100
Gemstones	do.	NA	66,200	NA	57,700	NA	50,500
Gypsum (crude)	thousand metric tons	14,800	101,000	15,800	107,000	17,200	115,000
Helium:							
Crude	million cubic meters	W	W	29	25,800	39	38,500
Grade-A	do.	94	187,000	96	189,000	100	199,000
Iodine	metric tons	2,000	20,900	1,940	15,400	1,630	12,800
Lime	thousand metric tons	16,200	950,000	16,800 r/	965,000 r/	17,400	1,020,000
Mica (scrap)	do.	85	4,640	88	4,450	110	7,280
Peat	do.	652	16,700	612	16,800	552	15,300
Perlite	metric tons	541,000	16,400	569,000	17,400	644,000	19,400
Phosphate rock	thousand metric tons	47,000	1,060,000	35,500	759,000	41,100	839,000
Potash (K2O equivalent)	do.	1,770	334,000	1,640	286,000	2,970	285,000
Pumice	metric tons	481,000	14,900	469,000	12,000	490,000	11,800
Salt	thousand metric tons	34,800	803,000	38,700	893,000	39,500	956,000
Sand and gravel:							
Construction	do.	834,000	3,340,000	869,000	3,530,000	891,000	3,740,000
Industrial	do.	25,200	434,000	26,200	454,000	27,300	488,000
Silica stone 7/	metric tons	1,730	239	528	330	514	3,990
Sodium compounds:							
Soda ash	thousand metric tons	9,380	836,000	8,960	734,000	9,320	724,000
Sodium sulfate (natural)	do.	337	26,300	W	W	298	11,400
Stone: 8/							
Crushed	do.	1,050,000	5,590,000	1,130,000 r/	6,030,000 r/	1,230,000	6,620,000
Dimension	metric tons	981,000	181,000	1,230,000	216,000	W	W
Sulfur (Frasch)	thousand metric tons	2,600	159,000	1,900	101,000	3,010	162,000
Tripoli	metric tons	84,900	3,260	94,000	4,090	82,300	10,900
Vermiculite	do.	190,000	15,100	187,000	14,900	177,000	14,200
Zeolites	do.	W	NA	41,000	NA	58,000	NA

See footnotes at end of table

TABLE 1 -- Continued  
NONFUEL MINERAL PRODUCTION 1/ IN THE UNITED STATES 2/

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
<b>INDUSTRIAL MINERALS (EXCLUDING FUELS) -- Continued</b>						
Combined value of brucite, calcium chloride [natural 9/ (1992)], emery, fluorspar, greensand marl, kyanite, lithium minerals, magnesite, magnesium compounds, olivine, pyrites 10/ (1992-93) sand and gravel (construction), staurolite, talc and pyrophyllite, wollastonite, and values indicated by symbol W	XX	525,000	XX	422,000 r/	XX	692,000
Total industrial minerals	XX	20,600,000	XX	21,200,000 r/	XX	23,000,000
Grand total	XX	32,100,000	XX	32,000,000 r/	XX	35,200,000

e/ Estimated. r/ Revised. NA Not available. W Withheld to avoid disclosing company proprietary data; value included with "Combined value" data.

XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

3/ Recoverable content of ores, etc.

4/ Placer canvassing discontinued beginning 1994. May include some placer data from other sources.

5/ Content of ore and concentrate.

6/ The Riddle nickel smelter uses lateritic ore mined on Nickel Mountain, lateritic ore imported from New Caledonia, and small tonnages of recycled Ni-bearing catalysts. In 1989, the Glenbrook Nickel Co. purchased the idle mining and smelting complex and restarted the operation. Production of ferronickel on a contained Ni basis has been as follows: 1992--8,962 metric tons (mt) valued at \$62.7 million; 1993--4,878 mt valued at \$28.0 million; and in 1994 the Nickel Mountain mine was idle.

7/ Formerly identified as "abrasives". Includes grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.

8/ Excludes abrasive stone and bituminous limestone and sandstone; all included elsewhere in table.

9/ Canvassing discontinued beginning 1993.

10/ Canvassing discontinued beginning 1994.

TABLE 2  
TOTAL U.S. NONRENEWABLE ORGANIC MATERIALS PRODUCTION,  
BY QUANTITY AND VALUE 1/ 2/

(Million metric tons unless otherwise specified)

Category	1992		1993		1994	
	Quantity	Value (millions)	Quantity	Value (millions)	Quantity	Value (millions)
Asphalt and road oil	25.30	\$2,800	27.20	\$2,690	(3/)	(3/)
Lubricants, waxes, and miscellaneous products	12.40	1,530	12.70	1,370	(3/)	(3/)
Petrochemical industries	66.60	7,540	66.00	6,820	(3/)	(3/)
Petroleum coke and coal	12.70	1,110	12.90	986	(3/)	(3/)
Total	117.00	13,000	119.00	11,900	(3/)	(3/)

1/ Quantities valued at the fossil fuel prices given in the Department of Energy, Energy Information Administration, Annual Energy Review 1992.

2/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

3/ Coverage discontinued beginning 1994.

Note: Nonrenewable organic materials represent all nonfuel uses in physical structure applications. The petrochemical industries category includes feedstocks for the production of plastics, synthetic rubber, synthetic fibers, pesticides, coatings, solvents, fertilizers, and other petrochemicals.

TABLE 3  
NONFUEL MINERALS PRODUCED IN THE UNITED STATES,  
BY COMMODITY AND STATES IN 1994

(Based on quantity unless otherwise noted)

Mineral	Principal States	Other States
Antimony 1/	ID	
Asbestos	CA and VT	
Barite	GA, NV, MO, MT, TN, IL	
Bauxite	AL and GA	
Beryllium concentrate	UT	
Boron minerals	CA	
Bromine e/	AR	
Brucite	NV	
Cement:		
Masonry	FL, IN, AL, MD, SC, PA	All other states except AK, CT, DE, LA, MA, MN, MS, NV, NH, NJ, NC, ND, OR, RI, VT, WI, WY.
Portland	CA, TX, MI, PA, MO, AL	All other states except AK, CT, DE, LA, MA, MN, NH, NJ, NC, ND, RI, VT, WI.
Clays	GA, WY, FL, CA, MS, TN	All other states except AK, DE, HI, ID, RI, VT, WI.
Copper 1/	AZ, UT, NM, MT, MI, WI	ID, IL, MO, NV, OR, and TN.
Diatomite	CA, NV, WA, OR	
Emery	OR	
Feldspar	NC, CA, VA, GA, OK, ID	SD
Fluorspar	IL	
Garnet (abrasive)	ID and NY	
Gemstones (natural) 2/	TN, AR, AL, KY, AZ, MT	All other states.
Gold 1/ 3/	NV, CA, UT, SD, MT, WA	AK, AZ, CO, ID, NM, OR, SC, WI.
Greensand	NJ	
Gypsum (crude)	OK, MI, IA, TX, NV, IN	AR, AZ, CA, CO, IN, KS, LA, NM, NY, OH, UT, VA, WY.
Helium (crude and Grade-A)	KS, WY, TX, UT, CO	
Iodine	OK	
Iron ore (usable) 4/	MN, MI, MO, UT, TX, SD	CA, MI, NM
Iron oxide pigments (crude)	MO, GA, MI, VA, AZ	
Kyanite	VA	
Lead 1/	MO, AK, ID, MT, CO, NY	IL and TN.
Lime	OH, MO, PA, AL, KY, TX	All other states except AK, CT, DE, FL, GA, HI, KS, ME, MD, MS, NH, NJ, NM, NY, NC, RI, SC, VT.
Lithium minerals	NC and NV	
Magnesite	NV	
Magnesium compounds	MI, DE, FL, CA, UT, TX	
Magnesium metal	TX, WA, UT	
Manganiferous ore	SC	
Mercury	NV, UT, CA	
Mica (scrap)	NC, GA, NM, SC, SD	
Molybdenum	AZ, CO, UT, MT, ID, NM	
Nickel ore	OR	
Olivine	WA and NC	
Palladium metal	MT	
Peat	MI, FL, MN, IL, ME, NC	CO, IA, ME, MA, MT, NJ, NY, ND, OH, PA, SC, WA, WV, WI.
Perlite	NM, AZ, CA, NV	
Phosphate rock	FL, NC, ID, UT	
Platinum metal	MT	
Potash	NM, UT, CA, MI	
Pumice	CA, OR, AZ, NM, KS, ID	
Pyrites (ore and concentrate)	(5/)	
Rare-earth metal concentrates	CA and FL	
Salt	NY, OH, LA, KS, MI, TX	AL, AZ, CA, NV, NM, OK, UT, WV.
Sand and gravel:		
Construction	CA, TX, OH, AZ, WA, MI	All other states.
Industrial	IL, CA, TX, WI, MI, NJ	All other states except AK, DE, HI, KY, ME, NH, NM, OR, SD, UT, VT, WY.
Silica stone 6/	AR and WI	
Silver 1/	NV, AZ, ID, UT, AK, MT	CA, CO, IL, MI, MO, NM, NY, OR, SC, SD, TN, WA, WI.
Sodium compounds:		
Soda ash	WY and CA	
Sodium sulfate (natural)	TX and CA	
Staurolite	FL	

See footnotes at end of table.

TABLE 3 -- Continued  
NONFUEL MINERALS PRODUCED IN THE UNITED STATES,  
BY COMMODITY AND STATES IN 1994

(Based on quantity unless otherwise noted)

Mineral	Principal States	Other States
Stone:		
Crushed	PA, IL, NC, FL, GA, MO	All other states except DE.
Dimension	IN, GA, WI, VT, TX, NC	All other states except AK, DE, FL, HI, KY, LA, MS, NE, NV, NJ, ND, OR, RI, WY.
Sulfur (Frasch)	LA and TX	
Talc and pyrophyllite	MT, NY, TX, VT, MC, CA	VA and OR.
Tin	(7/)	
Titanium concentrates	FL and CA	
Tripoli	IL, OK, AR, PA	
Tungsten 1/	CA	
Vanadium 1/	ID	
Vermiculite (crude)	SC and VA	
Wollastonite	NY	
Zeolites	TX, OR, NV, NJ, AZ, CA	ID.
Zinc 1/	AK, TN, NY, MO, MT, CO	IL, ID, OR.
Zircon concentrates	FL	

e/ Estimated.

1/ Content of ores, etc.

2/ Principal producing States based on value.

3/ Placer canvassing discontinued beginning 1994. May include some placer data from other sources.

4/ Includes byproduct material.

5/ Canvassing discontinued.

6/ Formerly identified as "Abrasives." Includes grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.

7/ No production.

TABLE 4  
 VALUE OF NONFUEL MINERAL PRODUCTION IN THE UNITED STATES AND PRINCIPAL NONFUEL MINERALS  
 PRODUCED IN 1994 1/

State	Value (thousands)	Rank	Percent of U.S. total	Principal minerals, in order of value
Alabama	\$626,000	18	1.78	Cement (portland), stone (crushed and broken), lime, sand and gravel (construction), clays, cement (masonry).
Alaska	519,000	23	1.48	Zinc, gold, sand and gravel (construction), lead, stone (crushed and broken), silver.
Arizona	3,280,000	1	9.33	Copper, sand and gravel (construction), cement (portland), molybdenum, lime, silver.
Arkansas	405,000	30	1.15	Bromine, stone (crushed and broken), sand and gravel (construction), cement (portland), sand and gravel (industrial), lime.
California	2,580,000	3	7.35	Cement (portland), sand and gravel (construction), boron, gold, stone (crushed and broken), diatomite.
Colorado	410,000	29	1.17	Sand and gravel (construction), cement (portland), molybdenum, gold, stone (crushed and broken), zinc.
Connecticut	81,800	44	0.23	Stone (crushed and broken), sand and gravel (construction), stone (dimension), sand and gravel (industrial), clays, gemstones.
Delaware 2/	8,680	50	0.03	Sand and gravel (construction), magnesium compounds, gemstones.
Florida	1,370,000	8	3.90	Phosphate rock, stone (crushed and broken), cement (portland), sand and gravel (construction), clays, titanium concentrates.
Georgia	1,550,000	4	4.41	Clays, stone (crushed and broken), cement (portland), sand and gravel (construction), stone (dimension), cement (masonry).
Hawaii 2/	116,000	43	0.33	Stone (crushed and broken), cement (portland), sand and gravel (construction), cement (masonry), gemstones.
Idaho	346,000	32	0.98	Phosphate rock, sand and gravel (construction), gold, molybdenum, silver, stone (crushed and broken).
Illinois	823,000	16	2.34	Stone (crushed and broken), cement (portland), sand and gravel (construction), sand and gravel (industrial), lime, clays.
Indiana	555,000	21	1.58	Stone (crushed and broken), cement (portland), sand and gravel (construction), lime, cement (masonry), stone (dimension).
Iowa	451,000	26	1.28	Stone (crushed and broken), cement (portland), sand and gravel (construction), gypsum, lime, cement (masonry).
Kansas	497,000	25	1.41	Salt, helium (Grade-A), stone (crushed and broken), cement (portland), helium (crude), sand and gravel (construction).
Kentucky	428,000	28	1.22	Stone (crushed and broken), lime, cement (portland), sand and gravel (construction), clays, cement (masonry).
Louisiana	354,000	31	1.01	Salt, sulfur (Frasch), sand and gravel (construction), stone (crushed and broken), sand and gravel (industrial), lime.
Maine	61,000	45	0.17	Sand and gravel (construction), cement (portland), stone (crushed and broken), cement (masonry), peat, stone (dimension).
Maryland	340,000	33	0.97	Stone (crushed and broken), cement (portland), sand and gravel (construction), cement (masonry), stone (dimension), clays.
Massachusetts	178,000	40	0.51	Stone (crushed and broken), sand and gravel (construction), lime, stone (dimension), clays, peats.
Michigan	1,430,000	7	4.06	Iron ore (usable), cement (portland), sand and gravel (construction), magnesium compounds, stone (crushed and broken), copper.
Minnesota	1,340,000	9	3.82	Iron ore (usable), sand and gravel (construction), stone (crushed and broken), sand and gravel (industrial), stone (dimension), lime.
Mississippi	135,000	42	0.38	Sand and gravel (construction), clays, cement (portland), stone (crushed and broken), sand and gravel (industrial), gemstones.
Missouri	1,090,000	10	3.09	Stone (crushed and broken), cement (portland), lead, lime, zinc, sand and gravel (construction).
Montana	543,000	22	1.54	Gold, copper, cement (portland), molybdenum, palladium metal, sand and gravel (construction).
Nebraska	146,000	41	0.42	Cement (portland), sand and gravel (construction), stone (crushed and broken), lime, clays, cement (masonry).
Nevada	3,070,000	2	8.73	Gold, silver, sand and gravel (construction), diatomite, lime, cement (portland).
New Hampshire 2/	46,400	47	0.13	Sand and gravel (construction), stone (dimension), stone (crushed and broken), gemstones, clays.
New Jersey	289,000	36	0.82	Stone (crushed and broken), sand and gravel (construction), sand and gravel (industrial), greensand marl, clays, peat.
New Mexico	929,000	12	2.64	Copper, potash, sand and gravel (construction), cement (portland), stone (crushed and broken), perlite.
New York	892,000	13	2.54	Stone (crushed and broken), salt, cement (portland), sand and gravel (construction), zinc, wollastonite.
North Carolina	708,000	17	2.01	Stone (crushed and broken), phosphate rock, lithium minerals, sand and gravel (construction), sand and gravel (industrial), feldspar.
North Dakota	25,300	49	0.07	Sand and gravel (construction), lime, clays, sand and gravel (industrial), gemstones, peat.
Ohio	880,000	15	2.50	Stone (crushed and broken), sand and gravel (construction), salt, lime, cement (portland), sand and gravel (industrial).
Oklahoma	340,000	34	0.97	Stone (crushed and broken), cement (portland), sand and gravel (construction), sand and gravel (industrial), gypsum, iodine.
Oregon	243,000	38	0.69	Stone (crushed and broken), sand and gravel (construction), cement (portland), lime, diatomite, pumice.
Pennsylvania	1,010,000	11	2.86	Stone (crushed and broken), cement (portland), lime, sand and gravel (construction), cement (masonry), sand and gravel (industrial).
Rhode Island 2/	26,300	48	0.08	Sand and gravel (construction), stone (crushed and broken), sand and gravel (industrial), gemstones.
South Carolina	433,000	27	1.23	Cement (portland), stone (crushed and broken), gold, clays, sand and gravel (construction), cement (masonry).
South Dakota	324,000	35	0.92	Gold, cement (portland), stone (crushed and broken), sand and gravel (construction), stone (dimension), lime.
Tennessee	602,000	19	1.71	Stone (crushed and broken), zinc, cement (portland), sand and gravel (construction), clays, gemstones.
Texas	1,530,000	5	4.36	Cement (portland), stone (crushed and gravel), sand and gravel (construction), magnesium metal, lime, salt.
Utah	1,520,000	6	4.33	Copper, gold, magnesium metal, sand and gravel (construction), cement (portland), salt.

See footnotes at end of table.

TABLE 4 -- Continued  
 VALUE OF NONFUEL MINERAL PRODUCTION IN THE UNITED STATES AND PRINCIPAL NONFUEL MINERALS  
 PRODUCED IN 1994 1/

State	Value (thousands)	Rank	Percent of U.S. total	Principal minerals, in order of value
Vermont 2/	48,600	46	0.14	Stone (crushed and broken), sand and gravel (construction), stone (dimension), talc and pyrophyllite, asbestos, gemstones.
Virginia	502,000	24	1.43	Stone (crushed and broken), cement (portland), lime, sand and gravel (construction), clays, kyanite.
Washington	571,000	20	1.63	Sand and gravel (construction), magnesium metal, gold, stone (crushed and gravel ), cement (portland), lime.
West Virginia	181,000	39	0.52	Stone (crushed and broken), cement (portland), sand and gravel (industrial), salt, lime, cement (masonry).
Wisconsin 2/	283,000	37	0.80	Stone (crushed and broken), copper, sand and gravel (construction), sand and gravel (industrial), lime, gold.
Wyoming	880,000	14	2.50	Soda ash, clays, helium (Grade-A), cement (portland), stone (crushed and broken), sand and gravel (construction).
Undistributed	155,000	--	0.44	
Total	35,200,000	XX	100.00	

XX Not applicable.

1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

2/ Partial total, excludes values that must be concealed to avoid disclosing company proprietary data. Concealed values included with "Undistributed" figure.

TABLE 5  
VALUE OF NONFUEL MINERAL PRODUCTION PER CAPITA AND PER SQUARE MILE IN 1994,  
BY STATE 1/

State	Area (square miles)	Population (thousands)	Total value (thousands)	Per capita		Per square mile	
				Dollars	Rank	Dollars	Rank
Alabama	51,700	4,220	\$626,000	148	17	12,100	25
Alaska	591,000	606	519,000	856	3	877	49
Arizona	114,000	4,080	3,280,000	804	4	28,800	3
Arkansas	53,200	2,450	405,000	165	14	7,620	31
California	159,000	31,400	2,580,000	82	33	16,300	16
Colorado	104,000	3,660	410,000	112	20	3,940	43
Connecticut	5,020	3,280	81,800	25	49	16,300	15
Delaware	2,040	706	8,680 2/	12	50	4,250	40
Florida	58,700	14,000	1,370,000	98	26	23,400	7
Georgia	58,900	7,060	1,550,000	220	11	26,300	5
Hawaii	6,470	1,180	116,000 2/	98	27	17,900	14
Idaho	83,600	1,130	346,000	305	9	4,140	42
Illinois	56,300	11,800	823,000	70	38	14,600	20
Indiana	36,200	5,750	555,000	97	28	15,300	19
Iowa	56,300	2,830	451,000	160	15	8,020	29
Kansas	82,300	2,550	497,000	194	13	6,040	34
Kentucky	40,400	3,830	428,000	112	21	10,600	26
Louisiana	47,800	4,320	354,000	82	34	7,410	33
Maine	33,300	1,240	61,000	49	42	1,830	48
Maryland	10,500	5,010	340,000	68	39	32,500	2
Massachusetts	8,280	6,040	178,000	29	47	21,400	10
Michigan	58,500	9,500	1,430,000	150	16	24,400	6
Minnesota	84,400	4,570	1,340,000	294	10	15,900	17
Mississippi	47,700	2,670	135,000	51	41	2,830	45
Missouri	69,700	5,280	1,090,000	206	12	15,600	18
Montana	147,000	856	543,000	634	6	3,690	44
Nebraska	77,400	1,620	146,000	90	29	1,890	47
Nevada	111,000	1,460	3,070,000	2,110	1	27,800	4
New Hampshire	9,280	1,140	46,400 2/	41	44	5,000	38
New Jersey	7,790	7,900	289,000	37	46	37,100	1
New Mexico	122,000	1,650	929,000	562	7	7,640	30
New York	49,100	18,200	892,000	49	43	18,200	12
North Carolina	52,700	7,070	708,000	100	24	13,400	23
North Dakota	70,700	638	25,300	40	45	358	50
Ohio	41,300	11,100	880,000	79	35	21,300	11
Oklahoma	70,000	3,260	340,000	104	23	4,860	39
Oregon	97,100	3,090	243,000	79	36	2,500	46
Pennsylvania	45,300	12,100	1,010,000	83	31	22,200	8
Rhode Island	1,210	997	26,300 2/	26	48	21,700	9
South Carolina	31,100	3,660	433,000	118	18	13,900	22
South Dakota	77,100	721	324,000	449	8	4,200	41
Tennessee	42,100	5,180	602,000	116	19	14,300	21
Texas	267,000	18,400	1,530,000	83	32	5,750	35
Utah	84,900	1,910	1,520,000	799	5	17,900	13
Vermont	9,610	580	48,600 2/	84	30	5,060	36
Virginia	40,800	6,550	502,000	77	37	12,300	24
Washington	68,100	5,340	571,000	107	22	8,380	28
West Virginia	24,200	1,820	181,000	99	25	7,470	32
Wisconsin	56,200	5,080	283,000 2/	56	40	5,040	37
Wyoming	97,800	476	880,000	1,850	2	9,000	27
Undistributed	XX	XX	155,000	XX	XX	XX	XX
Total or average	3,620,000 3/	260,000 3/	35,200,000	135	XX	9,710	XX

XX Not applicable.

1/ Data rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

2/ Partial total, excludes values that must be concealed to avoid disclosing company proprietary data. Concealed values included with "Undistributed" figure.

3/ Excludes Washington, DC (which has no mineral production), with an area of 69 square miles and a population of 570,000.

Sources: U.S. Bureau of Mines and Bureau of the Census.



TABLE 6  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	
ALABAMA							
Cement:							
Masonry	thousand metric tons	193	\$11,100	277	\$21,900	312	\$28,900
Portland	do.	3,720	181,000	3,750	191,000	3,980	248,000
Clays 3/	do.	2,380	20,900	2,490	23,200	2,280	25,400
Lime	do.	1,450	82,600	1,630	89,500	1,660	88,300
Sand and gravel:							
Construction	do.	11,200	42,000	10,300 e/	39,100 e/	12,500	47,600
Industrial	do.	605	6,770	559	6,800	610	7,160
Stone (crushed)	do.	25,900 e/ 4/	176,000 e/ 4/	28,900	176,000	32,500	164,000
Combined value of bauxite, clays [bentonite, kaolin (1992)], gemstones, salt, and stone (crushed dolomite and granite (1992), dimension (1992-93), dimension (limestone, marble, and sandstone)]							
		XX	22,900	XX	14,900	XX	16,500
Total		XX	543,000	XX	562,000	XX	626,000
ALASKA							
Gemstones		NA	10	NA	10	NA	10
Gold 5/	kilograms	5,000	55,500	2,780	32,200	5,740 6/	71,100 6/
Sand and gravel (construction)							
	thousand metric tons	13,600	43,300	13,100 e/	42,600 e/	15,700	56,200
Stone (crushed)	do.	2,720 e/ 4/	13,400 e/ 4/	2,430	11,300 5/	3,870	24,100
Combined value of lead, silver, stone [crushed sandstone (1992-93)], tin (1993-94), and zinc							
		XX	414,000	XX	291,000	XX	367,000
Total		XX	526,000	XX	378,000	XX	519,000
ARIZONA							
Clays 3/	thousand metric tons	102	463	97	451	98	452
Copper 5/	metric tons	1,150,000	2,730,000	1,160,000	2,340,000	1,120,000	2,750,000
Gemstones		NA	5,420	NA	5,630	NA	3,550
Gold 5/	kilograms	6,660	73,800	2,710	31,500	1,980 6/	24,500 6/
Iron oxide pigments (crude)	metric tons	77	62	77	62	77	62
Sand and gravel (construction)							
	thousand metric tons	30,700	124,000	35,000 e/	138,000 e/	34,800	166,000
Silver 5/	metric tons	165	20,900	200	27,700	192	32,600
Stone (crushed)	thousand metric tons	4,990 e/	26,300 e/	6,430	36,800	4,970	25,000
Combined value of cement, clays (bentonite), gypsum (crude), lead (1992), lime, molybdenum, perlite, pumice, pyrites 7/ (1992-93), salt, sand and gravel (industrial), stone [dimension (1992-93), dimension sandstone (1994)], and tin (1992)							
		XX	184,000	XX	196,000	XX	274,000
Total		XX	3,160,000	XX	2,780,000	XX	3,280,000
ARKANSAS							
Bromine e/	metric tons	171,000	170,000	177,000	123,000	W	W
Clays 3/	thousand metric tons	837	2,970	1,030	2,360	883	2,440
Gemstones		NA	1,490	NA	5,530	NA	3,950
Sand and gravel:							
Construction	thousand metric tons	9,900	39,600	10,100 e/	40,900 e/	10,600	42,500
Industrial	do.	806	10,500	642	7,600	684	8,230
Silica stone 8/	metric tons	W	W	W	W	469	3,910
Stone (crushed) 4/	do.	22,900 e/	119,000 e/	21,700	103,000	20,800	122,000
Combined value of cement, clays (fire, kaolin), gypsum (crude), lime, stone [crushed dolomite and quartzite (1993), crushed dolomite and traprock (1992), crushed limestone and traprock (1994), dimension (1992-93), dimension limestone, marble, and sandstone (1994)], talc and pyrophyllite (1993), tripoli, and values indicated by symbol W							
		XX	60,400	XX	65,100	XX	223,000
Total		XX	404,000	XX	347,000	XX	405,000

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	
CALIFORNIA							
Asbestos	metric tons	11,000	\$4,450	10,000	\$4,430	8,990	\$4,200
Boron minerals (B <sub>2</sub> O <sub>3</sub> )	thousand metric tons	554	339,000	574	373,000	550	443,000
Cement:							
Masonry	do.	W	W	W	W	99	6,830
Portland	do.	7,290	428,000	8,510	468,000	9,640	539,000
Clays 3/	do.	1,910	26,200	1,930 r/	26,300 r/	1,570	20,600
Gemstones		NA	9,920	NA	673	NA	1,710
Gold 5/	kilograms	33,300	370,000	35,800	415,000	30,100 6/	373,000 6/
Lime	thousand metric tons	254	18,100	193	14,800	203	16,900
Mercury	metric tons	(9/)	(9/)	W	W	W	W
Rare-earth metal concentrates	do.	20,700	W	17,800	W	20,700	W
Sand and gravel:							
Construction	thousand metric tons	102,000	522,000	96,300 e/	476,000 e/	96,300	523,000
Industrial	do.	1,920	42,500	1,800	41,700	1,740	39,400
Silver 5/	metric tons	18	2,260	14	2,000	11	1,910
Stone:							
Crushed	thousand metric tons	37,000 e/	198,000 e/	38,200	250,000	41,100	258,000
Dimension	metric tons	21,100 e/	4,150 e/	29,100	6,300	11,100	4,030
Combined value of calcium chloride 10/ (1992), cement (masonry), clays [fuller's earth, kaolin (1994)], diatomite, feldspar, gypsum (crude), iron ore (usable), magnesium compounds, molybdenum (1992), perlite, potash, pumice, salt, soda ash, sodium sulfate (natural), stone [dimension limestone, sandstone, and slate (1994)], talc and pyrophyllite, titanium (ilmenite), tungsten, and values indicated by symbol W							
		XX	403,000	XX	362,000	XX	351,000
Total		XX	2,370,000	XX	2,440,000 r/	XX	2,580,000
COLORADO							
Clays	thousand metric tons	242 3/	1,800 3/	281	2,160	291	2,320
Gemstones		NA	225	NA	258	NA	267
Gold 5/	kilograms	3,760	41,700	W	W	4,420 6/	54,700 6/
Peat	thousand metric tons	W	333	W	W	W	W
Sand and gravel (construction)	do.	26,700	105,000	29,000 e/	118,000 e/	29,000	109,000
Stone:							
Crushed	do.	10,900 e/	60,400 e/	10,300	62,000	8,600	53,600
Dimension	metric tons	5,850 e/	252 e/	4,320	1,370	3,630 4/	51 4/
Combined value of cement, clays [fire (1992)], copper (1992-93), gypsum (crude), helium (Grade-A), lead, lime, molybdenum, perlite (1992-93), sand and gravel (industrial), silver, stone stone [dimension marble (1994)], zinc, and values indicated by symbol W							
		XX	175,000	XX	216,000	XX	191,000
Total		XX	385,000	XX	399,000	XX	410,000
CONNECTICUT							
Gemstones		NA	5	NA	5	NA	5
Sand and gravel (construction)	thousand metric tons	5,470	30,100	6,400 e/	34,900 e/	5,420	28,000
Stone (crushed)	do.	5,350 e/ 4/	54,500 e/ 4/	4,600 4/	39,500 4/	5,710	51,000
Combined value of clays (common), sand and gravel (industrial), and stone [crushed dolomite and miscellaneous (1992-93), dimension (1992-93), dimension granite and quartzite (1994)]							
		XX	13,500	XX	16,200	XX	2,670
Total		XX	98,100	XX	90,700	XX	81,800
DELAWARE							
Gemstones		NA	1	NA	1	NA	1
Sand and gravel (construction)	thousand metric tons	2,260	8,570	2,500 e/	10,300 e/	2,580	8,680
Total 11/		XX	8,580	XX	10,300	XX	8,680

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
FLORIDA						
Cement:						
Masonry thousand metric tons	310	\$22,400	351	\$27,300	400	\$34,600
Portland do.	2,900	162,000	4,190	211,000	3,370	228,000
Clays 3/ do.	367	37,200	407	52,700	430	55,000
Gemstones	NA	1	NA	W	NA	W
Peat thousand metric tons	191	3,160	219	3,780	206	3,230
Sand and gravel:						
Construction do.	21,100	66,100	22,800 e/	73,100 e/	16,600	60,700
Industrial do.	433	5,170	504	5,910	540	6,120
Stone (crushed) 4/ do.	53,800 e/	267,000 e/	64,900	313,000	67,000	343,000
Combined value of clays (common), magnesium compounds, phosphate rock, rare-earth metal metal concentrates, staurolite, stone [crushed dolomite and limestone (1993), crushed marl (1992)], titanium concentrates (ilmenite and rutile), zircon concentrates, and values indicated by symbol W	XX	877,000	XX	624,000	XX	639,000
Total	XX	1,440,000	XX	1,310,000	XX	1,370,000
GEORGIA						
Clays 3/ thousand metric tons	8,960	971,000	9,660 r/	994,000 r/	9,960	1,060,000
Gem stones	NA	645	NA	51	NA	51
Sand and gravel:						
Construction thousand metric tons	4,410	15,600	4,600 e/	16,600 e/	5,520	19,800
Industrial do.	533	8,780	491	7,940	440	7,040
Stone:						
Crushed do.	39,900 e/ 4/	244,000 e/ 4/	49,400	292,000	54,600	331,000
Dimension metric tons	144,000 e/ 4/	13,100 e/ 4/	176,000 4/	18,700 4/	200,000	19,100
Combined value of barite, bauxite, cement, clays (fire), feldspar, iron oxide pigments (crude), mica (scrap), and stone [crushed marl, marble, and miscellaneous (1992), dimension marble (1992-93), dimension marble and miscellaneous (1994)]	XX	93,000	XX	101,000	XX	116,000
Total	XX	1,350,000	XX	1,430,000 r/	XX	1,550,000
HAWAII						
Cement:						
Masonry thousand metric tons	7	1,420	7	880	6	395
Portland do.	520	53,900	451	48,300	404	28,300
Sand and gravel (construction) do.	W	W	W	W	521	4,740
Stone (crushed) do.	9,530 e/ 4/	93,500 e/ 4/	8,460	81,400	8,170	82,300
Combined value of other industrial minerals	XX	(12/)	XX	8,140	XX	(12/)
Total	XX	149,000 11/	XX	139,000	XX	116,000 11/
IDAHO						
Gemstones	NA	390	NA	566	NA	287
Gold 5/ kilograms	4,040	44,800	W	W	W	W
Molybdenum metric tons	W	W	--	--	W	W
Phosphate rock thousand metric tons	5,210	84,000	4,360	78,400	W	W
Pumice metric tons	55,500	401	43,400	327	W	W
Sand and gravel:						
Construction thousand metric tons	13,500	40,700	13,600 e/	44,900 e/	14,500	46,300
Industrial do.	728	9,210	W	W	W	W
Silver 5/ metric tons	254	32,100	190	26,200	W	W
Stone (crushed) thousand metric tons	3,630 e/	19,200 e/	4,600	20,800	4,160	20,300
Combined value of antimony, cement, clays [common (1992-93)], copper, feldspar, garnet (abrasive), lead, lime, perlite (1992), stone (dimension), vanadium ore, zinc, and values indicated by symbol W	XX	79,000	XX	103,000	XX	279,000
Total	XX	310,000	XX	274,000	XX	346,000

See footnotes at end of table.

TABLE 6 -- Continued  
 NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
ILLINOIS						
Cement (portland) thousand metric tons	2,590	\$119,000	2,430	\$123,000	2,590	\$151,000
Clays 3/ do.	535	2,360	477	1,090	494	1,170
Gemstones	NA	715	NA	328	NA	376
Sand and gravel:						
Construction thousand metric tons	32,400	124,000	34,500 e/	137,000 e/	37,900	150,000
Industrial do.	4,240	57,500	4,220	61,700	4,420	65,700
Stone (crushed) 4/ do.	66,000 e/	323,000 e/	61,500	315,000	62,600	353,000
Combined value of barite, cement (masonry (1992, 1994)], clays (fuller's earth), copper, fluorspar, lead, lime, peat, silver, stone [crushed sandstone (1993), crushed sandstone and limestone (1992), crushed miscellaneous (1994), dimension (1992-93), dimension dolomite (1994)], zinc, and values indicated by symbol W						
	XX	108,000	XX	95,900	XX	102,000
Total	XX	734,000	XX	734,000	XX	823,000
INDIANA						
Cement:						
Masonry thousand metric tons	337	24,800	W	W	W	W
Portland do.	2,240	111,000	2,060	109,000	2,290	132,000
Clays 3/ do.	842	3,020	600	2,540	774	2,540
Gemstones	NA	720	NA	47	NA	29
Peat thousand metric tons	25	512	24	W	23	W
Sand and gravel:						
Construction do.	26,200	95,900	27,000 e/	103,000 e/	28,100	108,000
Industrial do.	107	1,280	W	W	W	W
Stone:						
Crushed do.	39,000 e/	178,000 e/	36,900	166,000	45,900	211,000
Dimension metric tons	173,000 e/	26,800 e/	156,000 4/	22,900 4/	173,000	25,800
Combined value of clays (ball), gypsum (crude), lime, stone [dimension sandstone (1993)], and values indicated by symbol W						
	XX	35,100	XX	69,100 r/	XX	75,400
Total	XX	477,000	XX	472,000 r/	XX	555,000
IOWA						
Cement:						
Masonry thousand metric tons	45	4,120	W	W	W	W
Portland do.	2,560	116,000	2,300	136,000	2,390	153,000
Clays do.	389	1,610	358	1,670	384	1,520
Gemstones	NA	1,610	NA	46	NA	50
Gypsum (crude) thousand metric tons	1,990	11,600	1,990	12,300	2,210	12,700
Peat do.	W	W	W	W	5	W
Sand and gravel (construction)						
do.	15,300	58,400	16,600 e/	64,700 e/	15,300	58,200
Stone (crushed) do.	34,500 e/ 4/	186,000 e/ 4/	30,500	169,000	36,600	211,000
Combined value of lime, sand and gravel (industrial), stone crushed dolomite and limestone (1992), crushed dolomite and miscellaneous (1994), dimension], and values indicated by symbol W						
	XX	11,100	XX	13,900	XX	15,400
Total	XX	391,000	XX	398,000	XX	451,000
KANSAS						
Cement:						
Masonry thousand metric tons	31	1,910	35	2,410	24	2,090
Portland do.	1,550	79,500	1,380	73,900	1,640	101,000
Clays do.	544	3,920	513 3/	1,970 3/	556 3/	2,150 3/
Helium:						
Crude million cubic meters	W	W	23	20,400	32	31,400
Grade-A do.	W	W	52	104,000	53	105,000
Salt thousand metric tons	1,850 13/	98,600 13/	2,320 13/	103,000 13/	2,660	108,000
Sand and gravel (construction)						
do.	10,900	27,300	11,900 e/	30,700 e/	11,200	29,600

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	
KANSAS -- Continued							
Stone:							
Crushed	thousand metric tons	15,300 e/ 4/	69,600 e/ 4/	18,800 4/	90,700 4/	21,500	103,000
Dimension	metric tons	W	W	24,700 4/	2,540 4/	23,700 4/	1,730 4/
Combined value of clays [fuller's earth (1993-94)], gemstones, gypsum (crude), pumice, salt [brine (1992-93)], sand and gravel (industrial), stone [crushed quartzite (1992), crushed sandstone (1993), dimension (1992), dimension sandstone (1993-94)], and values indicated by symbol W							
		XX	124,000	XX	12,600	XX	11,900
Total		XX	405,000	XX	442,000	XX	497,000
KENTUCKY							
Clays 3/	thousand metric tons	760	3,780	768	3,060	820	3,460
Sand and gravel (construction)							
	do.	6,710	24,400	7,700 e/	29,900 e/	9,140	32,200
Stone (crushed)	do.	53,300 e/	251,000 e/	49,000 4/	226,000 4/	56,300	259,000
Combined value of cement, clays (ball), gemstones, lime, and stone [crushed sandstone (1993)]							
		XX	121,000	XX	128,000	XX	134,000
Total		XX	401,000	XX	388,000	XX	428,000
LOUISIANA							
Clays	thousand metric tons	384	3,590	375	496	371	3,280
Gemstones		NA	3,960	NA	141	NA	155
Salt	thousand metric tons	12,100	112,000	12,400	115,000	13,500	140,000
Sand and gravel:							
Construction	do.	11,500	48,700	11,900 e/	51,500 e/	12,300	49,600
Industrial	do.	471	9,270	465	9,360	454	9,320
Stone (crushed)	do.	W	W	W	W	707 4/	7,710 4/
Sulfur (Frasch)	do.	1,110	W	740	W	W	W
Combined value of gypsum (crude), lime, stone [crushed limestone, shell, and miscellaneous (1993), crushed shell and miscellaneous (1992,1994)], and values indicated by symbol W							
		XX	131,000	XX	54,600	XX	144,000
Total		XX	309,000	XX	232,000	XX	354,000
MAINE							
Gemstones		NA	108	NA	9,690	NA	235
Sand and gravel (construction)							
	thousand metric tons	6,080	26,900	4,400 e/	18,900 e/	5,890	24,400
Stone (crushed)	do.	1,720 e/	11,400 e/	1,830	10,400	2,740	15,500
Combined value of cement, clays (common), peat, and stone (dimension)							
		XX	17,500	XX	21,200	XX	20,900
Total		XX	55,900	XX	60,100	XX	61,000
MARYLAND							
Cement (portland)	thousand metric tons	1,510	84,200	1,630	81,600	1,710	90,700
Clays	do.	227	980	294	705	293	946
Gemstones		NA	1	NA	1	NA	1
Sand and gravel (construction)							
	thousand metric tons	10,900	69,300	11,200 e/	72,200 e/	8,920	61,200
Stone:							
Crushed	do.	21,600 e/	180,000 e/	23,100	152,000	24,100 4/	162,000 4/
Dimension	metric tons	10,300 e/	1,020 e/	19,300	2,020	18,800 4/	1,550 4/
Combined value of other industrial minerals							
		XX	3,470	XX	4,680	XX	24,000
Total		XX	339,000	XX	314,000	XX	340,000
MASSACHUSETTS							
Gemstones		NA	1	NA	W	NA	W
Sand and gravel:							
Construction	thousand metric tons	10,900	48,700	10,800 e/	51,300 e/	12,300	60,000
Industrial	do.	8	151	2	42	W	W
Stone:							
Crushed	do.	9,430 e/	77,200 e/	9,460 4/	76,300 4/	10,500	97,300
Dimension	metric tons	59,700 e/	9,290 e/	153,000	21,300	57,300	9,600

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
MASSACHUSETTS -- Continued						
Combined value of clays (common), lime, peat, and stone [crushed dolomite and miscellaneous (1993)], and values indicated by symbol W	XX	12,100	XX	11,300	XX	10,600
Total	XX	147,000	XX	160,000	XX	178,000
MICHIGAN						
Cement:						
Masonry thousand metric tons	212	20,400	216	17,400	235	17,700
Portland do.	5,000	262,000	5,120	313,000	5,160	331,000
Clays do.	1,260	4,350	1,230	4,850	1,150	3,370
Gemstones	NA	1	NA	1	NA	2
Gypsum (crude)	1,610	13,900	1,690	14,200	1,790	15,300
Iron ore (usable) thousand metric tons	12,900	W	12,900	W	13,800	W
Lime do.	577	31,300	617 r/	32,100 r/	637	33,000
Peat do.	181	5,890	186	6,110	156	5,090
Sand and gravel:						
Construction do.	43,500	143,000	45,000 e/	158,000 e/	48,800	160,000
Industrial do.	1,950	22,600	2,570	25,100	2,870	31,300
Stone:						
Crushed do.	35,000 e/	126,000 e/	31,000	112,000	35,000	113,000
Dimension do.	W	W	W	W	147 4/	35 4/
Combined value of calcium chloride [natural 4/ (1992)], copper, iron oxide pigments (crude), magnesium compounds, potash, salt, silver, stone (dimension), and values indicated by symbol W	XX	961,000	XX	823,000	XX	719,000
Total	XX	1,590,000	XX	1,510,000 r/	XX	1,430,000
MINNESOTA						
Gemstones	NA	686	NA	65	NA	26
Iron ore (usable) thousand metric tons	42,300	1,180,000	42,500	1,130,000	43,300	1,160,000
Peat do.	36	2,760	33	1,930	37	3,010
Sand and gravel (construction) do.	34,100	98,700	30,500 e/	85,400 e/	29,500	90,000
Stone:						
Crushed do.	9,530 e/	39,500 e/	9,420	37,700	10,900	47,100
Dimension metric tons	32,800 e/	11,400 e/	33,500	11,800	16,900 4/	W
Combined value of clays (common, kaolin), lime, sand and gravel industrial), and values indicated by symbol W	XX	30,400	XX	35,500 r/	XX	44,900
Total	XX	1,360,000	XX	1,300,000 r/	XX	1,340,000
MISSISSIPPI						
Clays thousand metric tons	1,120 3/	38,100 3/	1,100	34,300 r/	1,190 3/	40,500 3/
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction) thousand metric tons	10,400	44,100	14,500 e/	57,300 e/	12,400	53,200
Stone (crushed) do.	2,270 e/	10,400 e/	2,100	8,120	1,900	7,500
Combined value of other industrial minerals	XX	28,800	XX	(12/)	XX	33,900
Total	XX	121,000	XX	99,800 11/ r/	XX	135,000
MISSOURI						
Cement (portland) thousand metric tons	4,290	196,000	4,060	201,000	4,730	265,000
Clays 3/ do.	1,200	8,330	1,180	7,740	1,250	7,910
Copper 4/ metric tons	10,800	25,500	6,980	14,100	7,720	18,900
Gemstones	NA	862	NA	46	NA	67
Iron ore (usable) thousand metric tons	19	W	287	W	W	W
Lead 4/ metric tons	300,000	232,000	277,000	194,000	290,000	238,000
Sand and gravel:						
Construction thousand metric tons	8,190	26,500	6,400 e/	19,800 e/	9,760	36,500
Industrial do.	644	10,900	520	9,390	559	9,970
Silver 4/ metric tons	32	4,080	40	5,580	40	6,860
Stone (crushed) thousand metric tons	47,400 e/	187,000 e/	53,400	239,000	68,900	330,000
Zinc 4/ metric tons	44,000	56,700	40,200	40,900	42,000	45,600

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
MISSOURI -- Continued						
Combined value of barite, cement (masonry), clays (fuller's earth), iron oxide pigments (crude), lime, stone [dimension (1992), dimension (granite)], and values indicated by symbol W	XX	148,000	XX	123,000	XX	128,000
Total	XX	897,000	XX	855,000	XX	1,090,000
MONTANA						
Clays thousand metric tons	35 3/	101 3/	W	W	28 3/	W
Gemstones	NA	674	NA	281	NA	3,400
Gold 5/ kilograms	14,000	155,000	14,300	166,000	12,600 6/	156,000 6/
Lead 5/ metric tons	W	W	W	W	9,940	8,140
Palladium kilograms	6,470	18,100	6,500	25,300	6,440	29,400
Platinum do.	1,840	21,100	1,800	21,400	1,960	25,300
Sand and gravel (construction) thousand metric tons	10,100	31,400	10,000 e/	32,000 e/	7,360	28,800
Silver 5/ metric tons	197	25,000	127	17,600	71	12,000
Stone (crushed) thousand metric tons	2,000 e/	6,200 e/	2,820	10,400	2,320	8,830
Talc and pyrophyllite metric tons	408,000	16,200	350,000	11,900	W	W
Zinc 5/ do.	20,600	26,500	W	W	21,000	22,800
Combined value of barite, cement [masonry (1992,1994), portland], clays [bentonite, common (1993-94), fire (1993-94)], copper, iron ore [usable (1992-93)], lime, molybdenum, peat, phosphate rock (1992-93), sand and gravel (industrial), stone [dimension(1992), dimension miscellaneous (1993-94)], vermiculite (1992), and values indicated by symbol W	XX	239,000	XX	199,000	XX	249,000
Total	XX	539,000	XX	484,000	XX	543,000
NEBRASKA						
Clays thousand metric tons	183	879	192	932	206	867
Gemstones	NA	645	NA	W	NA	W
Lime thousand metric tons	26	1,740	24	1,230	24	904
Sand and gravel (construction) do.	12,000	38,100	12,900 e/	41,900 e/	15,000	49,200
Stone (crushed) do.	5,350 e/	29,100 e/	6,760	38,900	6,890	41,600
Combined value of cement, sand and gravel (industrial), and values indicated by symbol W	XX	44,300	XX	43,200	XX	53,600
Total	XX	115,000	XX	126,000	XX	146,000
NEVADA						
Barite thousand metric tons	W	W	242	9,100	284	\$5,020
Clays 3/ do.	51	7,720	16	3,430	7	2,860
Copper 5/ metric tons	W	W	W	W	6,450	15,800
Gemstones	NA	661	NA	660	NA	160
Gold 5/ kilograms	203,000	2,260,000	211,000	2,450,000	214,000 6/	2,650,000 6/
Mercury metric tons	64	373	W	W	W	W
Sand and gravel: Construction thousand metric tons	22,000	93,600	24,900 e/	108,000 e/	22,700	106,000
Industrial do.	482	W	480	W	572	W
Silver 5/ metric tons	614	77,700	713	98,500	673	115,000
Stone (crushed) thousand metric tons	1,090 e/	6,700 e/	1,070	12,500	2,310	20,600
Combined value of brucite, cement (portland), clays [fuller's earth (1993-94), kaolin], diatomite, fluorspar (1993), gypsum (crude), lime, lithium minerals, magnesite, perlite, salt, and values indicated by symbol W	XX	148,000	XX	144,000 r/	XX	153,000
Total	XX	2,590,000	XX	2,820,000 r/	XX	3,070,000
NEW HAMPSHIRE						
Clays thousand metric tons	W	W	3	16	3	16
Gemstones	NA	4	NA	9	NA	21
Sand and gravel (construction) thousand metric tons	5,840	25,600	4,800 e/	20,700 e/	7,120	32,600

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	
NEW HAMPSHIRE -- Continued							
Stone:							
Crushed	thousand metric tons	1,540 e/	\$11,000 e/	1,390	\$7,790	1,390 4/	\$7,470 4/
Dimension	metric tons	34,200 e/	5,460 e/	53,100	8,670	35,300	6,300
Combined value of other industrial minerals and values indicated by symbol W							
		XX	(12/)	XX	--	XX	(12/)
Total		XX	42,000 11/	XX	37,200	XX	46,400 11/
NEW JERSEY							
Gemstones		NA	1	NA	1	NA	1
Sand and gravel:							
Construction	thousand metric tons	14,900	80,000	14,700 e/	80,100 e/	16,100	100,000
Industrial	do.	1,380	24,700	1,830	28,600	1,690	30,600
Stone (crushed)	do.	15,500 e/ 4/	126,000 e/ 4/	16,700 4/	138,000 4/	19,800	154,000
Combined value of clays [common, fire (1992-93)], greensand marl, peat, stone [crushed sandstone and miscellaneous (1992-93)], titanium concentrates (ilmenite and rutile,1992), and zircon concentrates (1992)							
		XX	9,720	XX	15,700	XX	4,460
Total		XX	240,000	XX	262,000	XX	289,000
NEW MEXICO							
Clays 3/	thousand metric tons	33	79	33	101	127	269
Copper 5/	metric tons	211,000	501,000	224,000	453,000	234,000	574,000
Gemstones		NA	34	NA	10	NA	14
Gold 5/	kilograms	W	W	995	11,600	W	W
Potash	thousand metric tons	1,440	257,000	1,310	216,000	2,450	218,000
Pumice	metric tons	W	W	W	W	129,000	1,050
Sand and gravel (construction)							
	thousand metric tons	10,200	46,200	11,100 e/	51,100 e/	10,400	47,400
Silver 5/	metric tons	W	W	22	3,090	22	3,750
Stone (crushed)	thousand metric tons	2,720 e/	14,400 e/	3,500 4/	18,400 4/	3,550 4/	20,000 4/
Combined value of cement, clays (fire), gypsum (crude), iron ore [usable (1993-94)], lead (1992), mica (scrap), molybdenum, perlite, salt, stone [crushed quartzite (1993), crushed quartzite and traprock (1994), dimension (1992-93), dimension granite, marble, and miscellaneous (1994)], and values indicated by symbol W							
		XX	53,500	XX	51,200	XX	65,100
Total		XX	871,000	XX	804,000	XX	929,000
NEW YORK							
Cement:							
Masonry	thousand metric tons	W	W	75	5,420	82	6,020
Portland	do.	W	W	2,970	149,000	2,650	139,000
Clays	do.	415	2,410	508	9,250	507	9,270
Gemstones		NA	170	NA	W	NA	W
Peat	thousand metric tons	W	W	W	W	(9/)	12
Salt	do.	4,700	165,000	5,620	191,000	W	W
Sand and gravel (construction)							
	do.	28,500	130,000	34,900 e/	162,000 e/	28,000	138,000
Stone:							
Crushed	do.	33,400 e/	213,000 e/	38,400	223,000 4/	39,400	239,000
Dimension	metric tons	16,500 e/	2,780 e/	19,300	3,440	24,600 4/	7,370 4/
Combined value of emery (1993), garnet (abrasive), gypsum (crude), lead, sand and gravel (industrial), silver, stone [crushed traprock (1993), dimension granite and quartz(1994)], talc and pyrophyllite, wollastonite, zinc, and values indicated by symbol W							
		XX	253,000	XX	108,000	XX	354,000
Total		XX	766,000	XX	852,000	XX	892,000
NORTH CAROLINA							
Clays 3/	thousand metric tons	2,120	9,780	2,380	11,200	2,530	12,500
Feldspar	metric tons	439,000	15,500	472,000	16,700	488,000	17,600
Gemstones		NA	1,220	NA	546	NA	565

See footnotes at end of table.



TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
NORTH CAROLINA -- Continued						
Mica (scrap) metric tons	51	\$2,970	51	\$2,700	68	\$3,270
Peat thousand metric tons	W	108	W	162	21	W
Sand and gravel:						
Construction do.	9,280	42,700	11,100 e/	53,800 e/	11,100	50,700
Industrial do.	1,090	17,500	1,340	18,600	1,460	24,200
Stone:						
Crushed 4/ do.	44,100 e/	262,000 e/	47,800	298,000	53,900	351,000
Dimension metric tons	23,000 e/	7,470 e/	31,700	12,300	33,700	12,500
Combined value of clays (kaolin), lithium minerals, olivine, phosphate rock, stone [crushed quartzite, sandstone, slate, and miscellaneous (1994), crushed quartzite, slate, and volcanic cinder (1993), crushed volcanic cinder (1992)], talc and pyrophyllite, and values indicated by symbol W						
	XX	236,000	XX	204,000	XX	236,000
Total	XX	596,000	XX	617,000	XX	708,000
NORTH DAKOTA						
Clays thousand metric tons	W	W	W	W	59	W
Gemstones	NA	643	NA	W	NA	W
Lime thousand metric tons	101	4,290	W	4,800 r/	W	6,590
Peat do.	W	W	(9/)	W	W	W
Sand and gravel (construction)						
do.	7,930	20,600	7,700 e/	20,400 e/	6,810	18,500
Stone (crushed) do.	10 e/	W	W	W	--	--
Combined value of clays (common), sand and gravel (industrial), stone (crushed volcanic cinder), and values indicated by symbol W						
	XX	210	XX	131	XX	199
Total	XX	25,800	XX	25,300 r/	XX	25,300
OHIO						
Cement:						
Masonry thousand metric tons	103	10,300	93	11,300	W	W
Portland do.	1,320	77,100	1,490	90,300	1,050	69,700
Clays do.	2,290	12,100	2,160 3/	12,000 3/	2,080	12,500
Gemstones	NA	5	NA	5	NA	43
Lime thousand metric tons	1,670	96,700	1,700	101,000	1,850	113,000
Sand and gravel:						
Construction do.	42,900	178,000	46,400 e/	203,000 e/	47,700	205,000
Industrial do.	1,280	26,400	1,360	27,500	1,260	27,700
Stone:						
Crushed do.	44,000 e/ 4/	195,000 e/ 4/	52,200	228,000	56,400	251,000
Dimension metric tons	31,800 e/	2,240 e/	25,700 4/	1,210 4/	W	W
Combined value of clays [ball (1993-94)], gypsum (crude), peat, salt, silica stone 8/(1992-93), stone [crushed limestone and dolomite (1992), dimension limestone (1993)], and values indicated by symbol W						
	XX	145,000	XX	176,000	XX	201,000
Total	XX	742,000	XX	851,000	XX	880,000
OKLAHOMA						
Cement:						
Masonry thousand metric tons	W	W	85	6,720	91	7,410
Portland do.	931	39,300	1,700	77,600	1,680	102,000
Clays do.	622	3,300	613	2,940	771	3,910
Gemstones	NA	1,860	NA	W	NA	W
Gypsum (crude) thousand metric tons	2,360	14,900	2,650	15,400	2,890	17,000
Iodine (crude) metric tons	2,000	20,900	1,940	15,400	1,630	12,800
Sand and gravel:						
Construction thousand metric tons	8,980	24,200	9,700 e/	27,300 e/	8,480	27,200
Industrial do.	972	19,000	1,210	23,200	1,230	24,000
Stone:						
Crushed do.	24,900 e/ 4/	105,000 e/ 4/	27,100	114,000	29,900	125,000
Dimension metric tons	4,700 e/	706 e/	2,350 4/	838 4/	3,980 4/	1,250 4/

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
OKLAHOMA -- Continued						
Combined value of feldspar, lime, salt, stone crushed granite (1992), dimension limestone and sandstone (1993)], crushed sandstone (1994)], tripoli, and values indicated by symbol W	XX	23,100	XX	14,900	XX	19,400
Total	XX	253,000	XX	298,000	XX	340,000
OREGON						
Clays thousand metric tons	203 3/	326 3/	221	1,410	240	1,560
Copper 5/ metric tons	152	361	703	1,420	106	260
Gemstones	NA	2,720	NA	2,140	NA	2,160
Nickel ore 14/ metric tons	6,670	W	2,460	W	--	--
Pumice do.	W	W	W	W	220,000	2,760
Sand and gravel (construction) thousand metric tons	15,000	69,500	15,800 e/	74,800 e/	18,400	83,600
Silver 5/ metric tons	(9/)	1	--	--	(6/)	10
Stone (crushed) thousand metric tons	15,200 e/ 4/	74,900 e/ 4/	18,900	84,700	18,900	90,100
Talc and pyrophyllite metric tons	64	67	64	67	W	W
Zinc 5/ do.	--	--	--	--	118	128
Combined value of cement [masonry (1992), portland], clays [bentonite (1992)], diatomite, emery, gold 6/ (1992,1994), lime, stone [crushed slate (1992)], and values indicated by symbol W	XX	66,300	XX	61,600	XX	62,100
Total	XX	214,000	XX	226,000	XX	243,000
PENNSYLVANIA						
Cement:						
Masonry thousand metric tons	296	21,900	248	18,700	245	19,300
Portland do.	5,020	259,000	5,370	283,000	5,630	315,000
Clays do.	649	3,460	765	3,780	811	4,040
Gemstones	NA	1	NA	1	NA	1
Lime thousand metric tons	1,510	94,500	1,540	95,400	1,590	95,500
Peat do.	15	250	9	249	10	296
Sand and gravel (construction) do.	17,500	94,600	16,100 e/	83,900 e/	15,900	89,700
Stone:						
Crushed do.	65,000 e/ 4/	380,000 e/ 4/	69,400 4/	405,000 4/	76,700	462,000
Dimension metric tons	37,900 e/	10,800 e/	35,700	9,890	43,700 4/	7,280 4/
Combined value of sand and gravel (industrial), stone [crushed dolomite, limestone, and quartzite (1992), crushed quartzite (1993), dimension quartzite and slate (1994)], and tripoli	XX	16,200	XX	13,200	XX	13,300
Total	XX	881,000	XX	913,000	XX	1,010,000
RHODE ISLAND						
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction) thousand metric tons	2,230	12,000	2,500 e/	13,900 e/	2,310	14,200
Stone (crushed) do.	1,360 e/	9,500 e/	1,290	9,250	1,610	12,200
Total 11/	XX	21,500	XX	23,200	XX	26,300
SOUTH CAROLINA						
Cement (portland) thousand metric tons	2,080	93,400	2,130	109,000	2,210	143,000
Clays do.	1,610	27,700	1,540	31,300	1,520 3/	30,400 3/
Gemstones	NA	641	NA	W	NA	W
Gold 5/ kilograms	6,750	74,800	W	W	W	W
Sand and gravel:						
Construction thousand metric tons	6,260	19,900	6,800 e/	21,800 e/	8,600	26,100
Industrial do.	770	17,300	749	19,000	699	18,100
Stone (crushed) do.	16,000 e/ 4/	83,800 e/ 4/	19,800	121,000	20,000 4/	128,000 4/
Combined value of cement (masonry), manganiferous ore, mica (scrap), peat, silver, stone [crushed dolomite (1992), crushed marble (1994), dimension (1992-93), dimension granite (1994)], vermiculite and values indicated by symbol W	XX	29,300	XX	88,700	XX	87,700
Total	XX	347,000	XX	391,000	XX	433,000

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
SOUTH DAKOTA						
Gemstones	NA	\$967	NA	\$163	NA	\$110
Gold 5/ kilograms	18,700	207,000	19,200	223,000	W	W
Sand and gravel (construction)						
thousand metric tons	7,510	22,200	8,300 e/	25,000 e/	7,700	23,700
Silver 5/ metric tons	6	802	5	651	4	696
Stone (crushed) thousand metric tons	4,080 e/	18,900 e/	4,230 4/	18,700 4/	5,470 4/	24,500 4/
Combined value of cement, clays (common), feldspar, gypsum [crude, (1992-93)], iron ore (usable), lime, mica (scrap), stone [crushed sandstone and miscellaneous (1993), crushed miscellaneous (1994), dimension (1992-93), dimension granite (1994)], and value indicated by symbol W	XX	50,600	XX	69,400	XX	275,000
Total	XX	301,000	XX	337,000	XX	324,000
TENNESSEE						
Clays 3/ thousand metric tons	574	24,100	607	25,700	665	28,600
Gemstones	NA	23,300	NA	21,800	NA	23,100
Sand and gravel:						
Construction thousand metric tons	7,690	35,100	7,200 e/	34,000 e/	8,710	38,000
Industrial do.	614	10,700	644	11,700	660	11,600
Stone:						
Crushed do.	42,400 e/	244,000 e/	43,500	227,000	49,200	265,000
Dimension metric tons	3,080 e/	320 e/	4,550	552	W	W
Combined value of barite (1994), cement, clays (bentonite, common, fuller's earth), copper, lead, lime, silver, stone [dimension marble (1994)], zinc, and value indicated by symbol W	XX	238,000	XX	189,000	XX	235,000
Total	XX	576,000	XX	510,000	XX	602,000
TEXAS						
Cement:						
Masonry thousand metric tons	W	W	245	18,400	258	18,200
Portland do.	6,840	309,000	8,130	398,000	8,620	456,000
Clays 3/ do.	2,240	12,600	2,180	17,400	2,190	13,700
Gemstones	NA	3,830	NA	400	NA	448
Gypsum (crude) thousand metric tons	1,620	9,920	1,760	10,100	1,870	10,100
Helium (crude) million cubic meters	W	W	6	5,390	7	7,050
Lime thousand metric tons	1,340	83,400	1,370 r/	86,400 r/	1,210	76,200
Salt do.	7,990	76,100	8,250	76,100	8,040	70,500
Sand and gravel:						
Construction do.	41,400	166,000	47,100 e/	195,000 e/	56,700	242,000
Industrial do.	1,390	26,500	1,430	28,600	1,570	37,900
Stone (crushed) do.	64,700 e/	253,000 e/	70,800	279,000	76,100	300,000
Sulfur (Frasch) do.	1,500	W	1,160	W	W	W
Talc and pyrophyllite metric tons	236,000	5,720	236,000	5,660	225,000	5,860
Combined value of clays [ball, bentonite, fuller's earth, kaolin], fluorspar (1993), helium (Grade-A), iron ore (usable), magnesium compounds, magnesium metal, sodium sulfate (natural), stone [dimension (1992-93), dimension granite and limestone (1994)], and values indicated by symbol W	XX	357,000	XX	311,000	XX	295,000
Total	XX	1,300,000	XX	1,430,000 r/	XX	1,530,000
UTAH						
Beryllium concentrates metric tons	4,830	5	4,940	5	4,330	5
Clays 3/ thousand metric tons	243	2,710	216	3,130	243	3,410
Gemstones	NA	634	NA	1,160	NA	620
Potash thousand metric tons	W	W	210	49,700	W	W
Salt do.	1,370	44,500	2,250	46,800	1,680	56,700
Sand and gravel (construction)						
do.	16,000	54,800	16,000 e/	56,000 e/	21,100	69,600

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
UTAH -- Continued						
Silver 5/ metric tons	W	W	135	\$18,700	W	W
Stone (crushed) thousand metric tons	4,810 e/	\$22,400 e/	4,560	29,400	4,540	\$19,800
Combined value of cement, clays [bentonite, Fuller's earth (1992-93)], copper, gold, 5/ gypsum (crude), helium [Grade-A, (1994)], iron ore (usable), lime, magnesium compounds, magnesium metal, mercury, molybdenum, phosphate rock, sodium sulfate [natural (1992-93)], stone [dimension (1993), dimension quartzite and sandstone (1994)], and values indicated by symbol W	XX	1,220,000	XX	1,110,000	XX	1,370,000
Total	XX	1,350,000	XX	1,310,000	XX	1,520,000
VERMONT						
Asbestos metric tons	4,580	1,690	3,660	1,530	1,130	920
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction) thousand metric tons	3,150	11,300	3,000 e/	10,400 e/	3,890	14,500
Stone:						
Crushed do.	2,270 e/	12,200 e/	2,520	12,900	4,170	23,700
Dimension metric tons	113,000 e/	34,600 e/	97,400	27,900	13,500 4/	9,500 4/
Total 11/ do.	XX	59,800	XX	52,700	XX	48,600
VIRGINIA						
Cement (portland) thousand metric tons	W	W	W	W	930	54,700
Clays 3/ do.	754	3,370	775	2,950	870	3,250
Lime do.	764	40,300	756	40,000	742	40,200
Sand and gravel (construction) do.	8,660	37,300	9,000 e/	40,500 e/	8,060	33,400
Stone:						
Crushed do.	43,100 e/	261,000 e/	51,000	292,000	56,700	327,000
Dimension metric tons	W	W	W	W	108 4/	13 4/
Combined value of cement (masonry), clays [bentonite (1992-93), fuller's earth], feldspar, gemstones, gypsum (crude), iron oxide pigments (crude), kyanite, sand and gravel (industrial), stone [dimension (1992-93), dimension granite and slate (1994)], talc and pyrophyllite, vermiculite, and values indicated by symbol W	XX	120,000	XX	88,900	XX	43,600
Total	XX	462,000	XX	465,000	XX	502,000
WASHINGTON						
Clays 3/ thousand metric tons	306	1,890	238	1,370	246	1,140
Gemstones	NA	379	NA	24	NA	1,050
Gold 5/ kilograms	8,800	97,600	7,110	82,500	7,410 6/	91,800 6/
Lime thousand metric tons	W	W	213	W	239	W
Peat do.	W	W	W	W	3	111
Sand and gravel (construction) do.	37,100	141,000	40,200 e/	158,000 e/	39,600	165,000
Silver 5/ metric tons	W	W	14	1,940	W	W
Stone (crushed) thousand metric tons	12,200 e/	63,200 e/	13,200	68,600	15,500	86,100
Combined value of cement, clays (fire), diatomite, lead (1992-93), magnesium metal, olivine, sand and gravel (industrial), stone [dimension (1992-93), dimension miscellaneous (1994)], zinc (1992-93), and values indicated by symbol W	XX	165,000	XX	193,000	XX	226,000
Total	XX	469,000	XX	505,000	XX	571,000
WEST VIRGINIA						
Clays thousand metric tons	80	221	115	334	138	291
Gemstones	NA	1	NA	1	NA	1
Sand and gravel (construction) thousand metric tons	1,260	5,730	1,400 e/	6,700 e/	1,380	5,970
Stone (crushed) do.	10,300 e/	57,800 e/	10,300 4/	79,700	12,300 4/	99,300

See footnotes at end of table.

TABLE 6 -- Continued  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE UNITED STATES, BY STATE

Mineral	1992		1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
WEST VIRGINIA -- Continued						
Combined value of cement, lime, peat, salt, sand and gravel (industrial), and stone [dimension (1994)]	XX	47,800	XX	62,800	XX	75,500
Total	XX	112,000	XX	149,000	XX	181,000
WISCONSIN						
Gemstones	NA	5	NA	45	NA	53
Lime thousand metric tons	473	26,600	511	30,900	507	30,300
Peat do.	56	553	W	W	2	61
Sand and gravel:						
Construction do.	26,400	77,100	27,600 e/	82,800 e/	29,200	91,500
Industrial do.	1,300	26,000	1,480	31,400	1,630	32,400
Silica stone 8/ metric tons	W	W	W	W	45	80
Stone:						
Crushed thousand metric tons	23,100 e/ 4/	89,300 e/ 4/	26,200	98,000	28,500	114,000 4/
Dimension metric tons	32,800 e/	4,230 e/	122,000	13,100	125,000	14,100
Total 4/	XX	224,000	XX	256,000	XX	283,000
WYOMING						
Cement (portland) thousand metric tons	438	30,200	W	W	W	W
Clays 3/ do.	2,530	83,100	2,180 r/	63,300 r/	2,530	91,300
Gemstones	NA	12	NA	13	NA	13
Sand and gravel (construction) thousand metric tons	2,850	11,400	3,400 e/	15,000 e/	3,210	13,100
Stone (crushed) do.	4,080 e/	19,900 e/	3,460	19,800	5,080	30,000
Combined value of cement [masonry (1992-93)], clays (common), gypsum [crude (1994)], helium (Grade-A), lime, soda ash, and values indicated by symbol W	XX	804,000	XX	746,000	XX	746,000
Total	XX	949,000	XX	844,000 r/	XX	880,000
UNDISTRIBUTED						
Delaware, Hawaii (1992), Mississippi (1993-94), New Hampshire (1992, 1994), Rhode Island, Vermont, and Wisconsin	XX	25,600 r/	XX	95,700 r/	XX	155,000

e/ Estimated. r/ Revised. NA Not available. W Withheld to avoid disclosing company proprietary data, value included with "Combined value" data.

XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits.

3/ Excludes certain clays; kind and value included with "Combined value" data.

4/ Excludes certain stones; kind and value included with "Combined value" data.

5/ Recoverable content of ores, etc.

6/ Placer canvassing discontinued beginning 1994. May include placer data from other sources.

7/ Pyrites canvassing discontinued beginning 1994.

8/ Formerly identified as "abrasives." Grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.

9/ Less than 1/2 unit.

10/ Calcium chloride canvassing discontinued beginning 1993.

11/ Partial total, excludes values which must be concealed to avoid disclosing company proprietary data.

12/ Value excluded to avoid disclosing company proprietary data.

13/ Excludes salts in brines; value included with "Combined value" figure.

14/ The Riddle nickel smelter uses lateritic ore mined on Nickel Mountain, lateritic ore imported from New Caledonia, and small tonnages of recycled Ni-bearing catalysts. In 1989, the Glenbrook Nickel Co. purchased the idle mining and smelting complex and restarted the operation. Production of ferronickel on a contained Ni basis has been as follows: 1992--8,960 metric tons (mt) valued at \$62.7 million; 1993--4,880 mt valued at \$28.0 million; and in 1994 the Nickel Mountain mine was idle.

TABLE 7  
NONFUEL RAW MINERAL PRODUCTION 1/ 2/ IN THE COMMONWEALTH OF PUERTO RICO  
AND ISLANDS ADMINISTERED BY THE UNITED STATES

Mineral		1992		1993		1994	
		Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
PUERTO RICO							
Cement (portland)	thousand metric tons	1,300	\$120,000	1,310	\$72,600	W	W
Clays	do.	W	527	155	508	119	\$338
Lime	do.	27	3,720	--	--	23	2,970
Sand and gravel (industrial)	do.	W	W	58	1,400	W	W
Stone (crushed)	do.	NA	NA	7,850	51,100	10,500	78,400
Total		XX	124,000 3/	XX	126,000	XX	81,700 3/
ADMINISTERED ISLANDS							
American Samoa: Stone (crushed)	thousand metric tons	--	--	83	W	84	W
Guam: Stone (crushed)	do.	--	--	1,370	15,100	2,150	12,700
Total		XX	--	XX	15,100 3/	XX	12,700 3/

e/ Estimated. NA Not available. W Withheld to avoid disclosing company proprietary data; not included in "Total." XX Not applicable.

1/ Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

2/ Previously published and 1994 data are rounded by the U.S. Bureau of Mines to three significant digits; may not add to totals shown.

3/ Total does not include value of item withheld.

TABLE 8  
U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral		1993		1994	
		Quantity	Value (thousands)	Quantity	Value (thousands)
METALS					
Aluminum:					
Aluminum oxide (alumina, includes hydroxide [calcined equivalent])	thousand metric tons	1,240	\$306,000	1,040	\$271,000
Crude and semicrude	metric tons	1,210,000	2,230,000	1,370,000	2,730,000
Manufactures	do.	98,500	270,000	138,000	352,000
Speciality compounds (aluminum sulfate, aluminum chloride, aluminum oxide abrasives, and various fluorine-based compounds)	do.	52,200	NA	46,900	NA
Antimony:					
Metal, alloys, waste and scrap	do.	315	871	1,350	7,470
Oxide (antimony content)	do.	3,900	8,890	6,500	15,000
Arsenic metal	do.	364	1,210	79	411
Bauxite (dried and calcined)	thousand metric tons	85 r/	NA	114	NA
Beryllium (alloys, wrought or unwrought, and waste and scrap)	kilograms	19,700	1,760	28,500	2,700
Bismuth (metal, alloys, waste and scrap)	do.	70,100	790	160,000	1,060
Cadmium:					
Metal	do.	38,000	471	1,450,000	2,770
Sulfide	do.	31,400	29,800	205,000	119,000
Chromium:					
Chemicals	metric tons	20,000	34,900	29,500	44,000
Chromite ore and concentrate	do.	10,000	2,140	47,100	3,550
Metal and alloys	do.	15,700	18,400	12,400	16,500
Pigments	do.	2,310	9,400	1,310	6,010
Cobalt:					
Metal (unwrought, powders, waste and scrap, and mattes and other intermediate products of metallurgy)	do.	435	10,900	1,050	32,500
Metal (wrought and cobalt articles)	do.	249	11,400	665	24,500
Ores and concentrates	do.	9	78	71	558
Oxides and hydroxides	do.	308	6,080	327	7,420
Other forms (acetates and chlorides)	do.	563	4,100	309	2,930
Columbium:					
Ferrocolumbium	do.	815	7,310	234	2,080
Ores and concentrates	do.	6	46	489	4,500
Copper:					
Scrap (alloyed and unalloyed)	do.	262,000	280,000	360,000	437,000
Semimanufactures [pipes and tubing, plates, sheets, foil, bars, bare wire (including wire rod), wire and cable (stranded), and sulfate]	do.	100,000	384,000	106,000	378,000
Unmanufactured (ore and concentrates, matte, ash and precipitates, refined, unalloyed scrap, blister and anodes)	do.	578,000	854,000	596,000	943,000

See footnotes at end of table.

TABLE 8 -- Continued  
 U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
METALS -- Continued					
Gold:					
Bullion (refined)	kilograms	658,000	\$7,610,000	334,000	\$4,060,000
Doré and precipitates	do.	67,500	686,000	60,600	677,000
Ores and concentrates	do.	216	1,880	462	3,780
Waste and scrap	do.	66,800	616,000	76,300	745,000
Iron ore	thousand metric tons	5,060	167,000	4,890	163,000
Iron and steel:					
Ferroalloys not elsewhere listed:					
Ferrophosphorous	do.	1,810	1,040	29,100	4,960
Ferrozirconium	do.	20	54	131	161
Ferroalloys (n.e.c.)	do.	2,030	2,820	3,280	4,520
Products:					
Cast iron and steel	thousand metric tons	180	348,000	183	357,000
Fabricated steel	do.	631	1,960,000	866	2,190,000
Steel mill	do.	3,600	2,490,000	3,470	3,010,000
Other steel	do.	57	44,300	(2/)	(2/)
Scrap:					
Direct-reduced iron (steelmaking grade)	do.	17 r/	1,860 r/	17	1,850
Pig iron	do.	27	3,040	56	6,780
Heavy melting, bundles, shredded steel, borings, shovelings, and turnings, cut plate and structural, tinned (iron or steel), remelting ingots, stainless steel, other steel (alloys, tinplate and template)	do.	9,810	1,320,000	8,810	1,270,000
Ships, boats, and other vessels for scrapping	thousand metric tons	162	13,200	106	9,420
Used rails for rerolling and other uses [includes mixed (used plus new) rails]	do.	43	11,800	35	8,900
Lead:					
Ash and residues (lead content)	metric tons	1,730	1,330	20,600	11,100
Ore and concentrate (lead content)	do.	41,800	7,840	38,700	11,200
Scrap	do.	54,100	14,400	88,100	24,500
Unwrought metal and alloys (lead content)	do.	51,400	32,200	48,200	29,500
Wrought metal and alloys (lead content)	do.	7,140	19,700	5,340	19,300
Magnesium:					
Alloys	do.	1,950	8,220	5,630	16,900
Metal	do.	26,500	71,900	25,600	65,700
Powder, sheets, tubing, ribbons, wire, and other forms	do.	8,340	18,800	12,100	21,000
Waste and scrap	do.	2,010	4,640	1,840	4,280
Manganese:					
Ferromanganese (all grades)	do.	18,000	14,800	11,000	9,470
Metal (including alloys, waste, and scrap)	do.	3,840	9,400	4,870	10,200
Ore and concentrates	do.	15,900	1,790	15,300	1,550
Silicomanganese	do.	9,420	6,720	6,840	5,490
Mercury	do.	389	1,230	316	885
Molybdenum (molybdenum content):					
Ferromolybdenum	do.	224	2,960	479	5,200
Ore and concentrates	do.	28,300	74,200	33,600	199,000
Oxides and hydroxides (gross weight)	do.	1,040	5,610	2,240	13,700
Molybdates (all)	do.	958	4,790 r/	1,800	10,000
Powder (gross weight)	do.	203 r/	3,760 r/	168	4,320
Unwrought (gross weight)	do.	52	801	396	4,980
Wire (gross weight)	do.	261 r/	10,200 r/	221	10,000
Wrought (gross weight)	do.	94 r/	4,790	103	6,050
Nickel (nickel content):					
Alloyed (unwrought ingots, bars, rods, profiles, wire, sheets, strips, foil, tubes, pipes, and other articles)	do.	14,900	232,000 r/	17,000	226,000
Chemicals	do.	1,440	59,000	2,110	67,800
Unwrought:					
Primary (cathodes, pellets, briquets, shot, ferronickel, powder, flakes, and metallurgical-grade oxide)	do.	5,750	21,100	5,330	21,500
Secondary (scrap [stainless steel and waste])	do.	26,000	179,000 r/	34,500	235,000
Wrought (bars, rods, profiles, wire, sheets, strip, foil, tubes, and pipes)	do.	551	5,760	427	5,920
Platinum-group metals [platinum, palladium, rhodium, iridium, osmium, ruthenium, (ores and concentrates, waste and scrap, and refined)]	kilograms	78,500	441,000	88,600	375,000

See footnotes at end of table.

TABLE 8 -- Continued  
 U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
METALS -- Continued					
Rare-earth metals (rare-earth oxide content):					
Cerium compounds	do.	1,620,000	\$11,700	4,460,000	\$24,400
Compounds	do.	1,090,000	14,100	2,420,000	12,500
Ferrocerium and pyrophoric alloys	do.	4,810,000	20,400	3,400,000	12,000
Metals (including scandium and yttrium)	do.	161,000	2,400	274,000	1,570
Selenium (metal, waste and scrap, selenium content)	do.	261,000	2,200	246,000	2,280
Silicon:					
Ferrosilicon	metric tons	39,500	36,800	38,000	36,300
Metal	do.	10,600	133,000	12,100	140,000
Silver:					
Bullion (refined)	kilograms	705,000	100,000	868,000	155,000
Doré and precipitates	do.	103,000	16,000	99,100	17,500
Ores and concentrates	do.	2,270	395	196	41
Waste and scrap	do.	892,000	142,000	1,210,000	211,000
Tantalum:					
Ores and concentrates (includes synthetic)	thousand kilograms	11	111	25	328
Unwrought (alloys, metal, powders, and waste and scrap)	do.	242	24,900	200	21,100
Wrought	do.	50	18,700	88	25,600
Thorium:					
Compounds	kilograms	189	68	7	13
Ore (monazite concentrate)	do.	W	W	33,000	21,100
Tin:					
Ingots and pigs	metric tons	2,600	11,400	2,560	13,900
Tin scrap and other tin bearing material (except tinplate scrap, includes bars, rods, profiles, wire, powders, flakes, tubes, and pipes)	do.	92,600	63,200	68,000	52,800
Tinplate and terneplate	do.	201,000	120,000	213,000	123,000
Titanium:					
Metal:					
Scrap	do.	3,890	9,070	4,120	7,440
Sponge	do.	104	748	126	738
Other unwrought (billet, blooms and sheet bars, ingots, etc.)	do.	1,500	27,100	1,600	27,700
Wrought (bars, rods, etc.)	do.	2,390	72,700	3,850	131,000
Ores and concentrates	do.	15,200	4,890	19,000	6,070
Pigments (dioxides and oxides)	do.	290,000	405,000	352,000	485,000
Tungsten (tungsten content):					
Ammonium paratungstate	do.	166	2,210	250	2,200
Carbide powder	do.	1,250	22,500	1,320	27,600
Metal and alloy powder	do.	416	7,860	477	12,500
Miscellaneous tungsten-bearing materials (ferrotungsten and ferrosilicon tungsten, unwrought, wire [metal and alloy], wrought, other compounds [other tungstates], and other metal)	do.	550	24,000	1,080	24,100
Ore and concentrate	do.	63	309	44	209
Vanadium:					
Aluminum-vanadium master alloy	kilograms	866,000 r/	10,800	1,030,000	12,900
Compounds (pentoxide [anhydride], and other [excludes vanadates], vanadium content)	do.	1,020,000	5,260	1,390,000	7,870
Ferrovandium	do.	219,000 r/	2,780	374,000	4,410
Zinc:					
Basic materials (including waste and scrap)	metric tons	XX	197,000	XX	224,000
Compounds (chloride, lithopone, oxide, sulfate, sulfide, and compounds n.s.p.f.)	do.	17,300	50,400	25,300	31,100
Ore and concentrates (zinc content)	do.	311,000	117,000	389,000	157,000
Rolled	do.	6,600	6,400	6,680	4,760
Slab	do.	1,410 r/	1,510	6,310	7,390
Zirconium:					
Ore and concentrates	do.	35,900	13,200	32,000	13,900
Unwrought and waste and scrap	do.	248	6,150 r/	223	6,570
Metal totals		XX	22,700,000 r/	XX	21,400,000
INDUSTRIAL MINERALS					
Abrasive materials:					
Manufactured (Fused aluminum oxide, metallic abrasives, silicon carbide)					
	metric tons	57,100	59,000	60,900	60,200
Special silica	do.	1,990	6,760	XX	8,600

See footnotes at end of table.



TABLE 8 -- Continued  
 U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994	
	Quantity	Value (thousands)	Quantity	Value (thousands)
INDUSTRIAL MINERALS -- Continued				
Asbestos (includes reexports):				
Manufactured		XX	XX	\$177,000
Unmanufactured	metric tons	27,600	17,500	6,550
Barite (natural barium sulfate)	do.	18,500	13,800	1,850
Boron:				
Boric acid	thousand metric tons	75 r/	87	53,300
Sodium borates	do.	481	498	165,000
Bromine:				
Compounds (contained bromine)	thousand kilograms	13,400	11,500	21,100
Elemental	do.	6,010	6,470	7,270
Cement: Hydraulic and clinker	thousand metric tons	625	(2/)	(2/)
Clays:				
Ball	do.	60	81	3,470
Bentonite	do.	606	768	69,500
Fire	do.	148	225	24,300
Fuller's earth	do.	63	74	9,820
Kaolin	thousand metric tons	2,980	3,180	532,000
Other (includes chamotte or dinas earth, activated clays and earths, and artificially activated clays)	do.	293	295	100,000
Diatomite	do.	165	157	56,600
Diamonds (industrial):				
Industrial stones [including glazer's and engraver's unset, and miner's (natural and synthetic)]	thousand carats	1,040	4,400	89,600
Powder and grit (natural and synthetic)	do.	105,000	153,000	143,000
Feldspar	metric tons	17,700	17,300	1,940
Fluorspar	do.	12,700	23,500	3,690
Garnet (abrasive)	do.	11,400	XX	XX
Gemstones (includes reexports):		XX	XX	2,240,000
Graphite (natural and artificial)	metric tons	52,400	58,100	52,500
Gypsum:				
Boards	thousand metric tons	91	74	19,800
Crude	do.	69	89	4,090
Plasters	do.	156	153	22,800
Other	do.	XX	XX	26,700
Helium (Grade-A)	million cubic meters	28	25	49,600
Iodine:				
Crude/resublimed	metric tons	1,020	1,160	9,070
Potassium iodide	do.	203	90	990
Iron oxide pigments:				
Pigment grade	do.	22,400	21,300	30,700
Other grade	do.	139,000	229,000	94,800
Lime	thousand metric tons	69	74	7,800
Lithium compounds:				
Carbonate	metric tons	6,260	5,260	18,100
Hydroxide	do.	3,060	3,600	16,600
Magnesium compounds:				
Calcined dolomite	do.	13,700	(2/)	(2/)
Caustic-calcined magnesia	do.	4,450	3,240	1,780
Compounds (chlorides, hydroxide and peroxide, and sulfates)	do.	9,890	20,900	10,400
Dead-burned and fused magnesia	do.	59,800	59,800	22,800
Magnesite (crude)	do.	7,390	3,010 r/	987
Other magnesia	do.	22,000	12,700	8,660
Mica:				
Scrap and flake:				
Powder	do.	4,610	(2/)	(2/)
Waste	do.	335	(2/)	(2/)
Sheet:				
Unworked	do.	292	(2/)	(2/)
Worked	do.	617	(2/)	(2/)
Nitrogen compounds (major):				
Anhydrous ammonia	thousand metric tons	460	261	NA
Fertilizer materials	do.	10,900	13,400	NA
Industrial chemicals	do.	149	169	156,000
Peat	do.	8	23	2,200

See footnotes at end of table.

TABLE 8 -- Continued  
 U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
INDUSTRIAL MINERALS -- Continued					
Perlite (crude)	metric tons	26,000	\$1,000	30,000	\$900
Phosphorus:					
Diammonium and monoammonium phosphates	thousand metric tons	8,460	NA	10,700	NA
Elemental phosphorous	metric tons	18,400	32,200	15,200	26,400
Phosphate rock:					
Ground and unground	thousand metric tons	3,570	NA	3,310	NA
Phosphoric acid	do.	498	NA	516	NA
Superphosphates	do.	762	NA	801	NA
Potash:					
Potassium chloride (all grades)	metric tons	361,000	NA	419,000	NA
Potassium magnesium sulfate	do.	333,000	NA	298,000	NA
Potassium nitrate	metric tons	8,000	NA	6,510	NA
Potassium sulfate	do.	223,000	NA	273,000	NA
Pumice and pumicite	thousand metric tons	18 e/	462 e/	18	5,700
Quartz crystal (cultured)	thousand kilograms	24	2,260	38	6,110
Salt	thousand metric tons	688	34,800	742	30,200
Sand and gravel:					
Construction:					
Gravel	do.	534	5,000	482	4,640
Sand	do.	597	10,600	564	15,600
Industrial	do.	1,750	91,000	1,880	102,000
Sodium compounds:					
Soda ash	thousand metric tons	2,800	376,000	3,230	406,000
Sodium sulfate	do.	89	8,540	65	7,020
Stone:					
Crushed	metric tons	4,820,000	39,300	5,180,000	38,100
Dimension	thousand short tons	NA	57,900	NA	(2/)
Strontium compounds (precipitated carbonate, oxide, hydroxide, and peroxide)	kilograms	429 r/	451	1,860	908
Sulfur:					
Elemental	thousand metric tons	656	39,700	899	48,400
Sulfuric acid (100% H <sub>2</sub> SO <sub>4</sub> )	metric tons	145,000 r/	11,200 r/	140,000	11,100
Talc (excludes talcum in packages, face, and compact)	thousand metric tons	135	27,200	154	29,800
Vermiculite	do.	7 e/	NA	7 e/	NA
Industrial minerals totals		XX	4,300,000 r/	XX	5,060,000
Total		XX	27,000,000 r/	XX	26,500,000

r/ Revised. NA Not available. XX Not applicable.

1/ Data rounded by the U.S. Bureau of Mines to three significant digits.

2/ Data not available at time of table compilation.

3/Artificial graphite includes large amounts of materials made from petroleum coke.

TABLE 9  
U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
METALS					
Aluminum:					
Aluminum oxide (alumina)	thousand metric tons	3,940	\$754,000	3,120	\$623,000
Crude and semicrude	metric tons	2,540,000	3,260,000	3,380,000	5,000,000
Manufactures	do.	56,000	163,000	100,000	245,000
Antimony:					
Metal	do.	14,400	25,600	18,200	61,700
Ore and concentrate (antimony content)	do.	543	1,070	5,640	16,900
Oxides (antimony content)	do.	16,000	24,800	17,700	41,800
Arsenic:					
Acid	do.	--	--	5	10
Metal	do.	767	2,400	1,330	3,410
Trioxide	do.	27,500	15,900	26,800	15,200
Bauxite:					
Calcined	thousand metric tons	237	17,000	349	19,100
Crude and dried	do.	11,600	NA	10,700	NA
Beryllium:					
Beryl	metric tons	58	NA	--	--
Metal and compounds	kilograms	116,000	1,690	235,000	4,170
Bismuth metals and alloys	do.	1,330,000	6,250	1,660,000	9,650
Cadmium:					
Metal	do.	1,410,000	1,690	1,110,000	2,170
Sulfide	do.	10,800	143	43,500	272,000
Chromium:					
Chemicals	metric tons	15,500	21,700	20,600	29,300
Chromite ore	do.	255,000	16,500	201,000	13,900
Ferrochromium (all grades)	do.	387,000	184,000	317,000	148,000
Metals and alloys [metal (waste and scrap and other), and ferrochromium-silicon]	do.	14,900	44,100	21,600	47,100
Pigments and preparations based chromium	do.	4,980	12,700	6,400	16,400
Cobalt:					
Metal (alloys, articles, matte, wrought, and waste and scrap)	do.	752	16,900	1,040	20,800
Metal (unwrought, excluding alloys and waste and scrap)	do.	5,390	166,000	5,890	248,000
Oxide and hydroxides	do.	444	12,600	763	26,100
Other forms (acetates, carbonates, chlorides, and sulfates)	do.	842	7,320	1,250	12,100
Columbium:					
Ferrocolumbium	thousand kilograms	3,370	29,000	3,980	34,000
Ores and concentrates	do.	2,350	8,610	3,080	11,400
Oxide	do.	301	5,390	757	11,600
Unwrought (alloys, metals, and powders)	do.	111	2,380	171	3,770
Copper:					
Scrap (alloyed and unalloyed)	metric tons	200,000	307,000	160,000	265,000
Semimanufactures [pipes and tubing, plates, sheets, foil, bars, bare wire (including wire rod), wire and cable (stranded), and sulfate]	do.	79,800	267,000	94,100	290,000
Unmanufactured (ore and concentrates, matte, ash and precipitates, blister and anode, refined, unalloyed scrap)	do.	526,000	993,000 r/	675,000	1,430,000
Gallium (unwrought, waste and scrap)	kilograms	15,600	4,130 r/	16,900	3,550
Germanium materials	do.	15,500	5,300	14,700	5,140
Gold:					
Bullion (refined)	do.	130,000	1,500,000	96,400	1,180,000
Doré and precipitates	do.	12,500	135,000	15,100	174,000
Ore and concentrates	do.	1,240	13,500	2,250	27,300
Waste and scrap	do.	25,500	65,400	21,800	111,000
Hafnium (unwrought, and waste and scrap)	metric tons	3	669	5	871
Indium (unwrought, and waste and scrap)	kilograms	73,400	11,500	70,200	8,950
Iron ore	thousand metric tons	14,100	419,000 r/	17,500	499,000
Iron and steel:					
Ferroalloys not elsewhere listed:					
Ferrophosphorus	do.	9,970	2,330	15,200	5,170
Ferrotitanium and ferrosilicon-titanium	do.	45,400	8,070	6,340	11,200
Ferrozirconium	do.	267	506	60	108

See footnotes at end of table.

TABLE 9 -- Continued  
 U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
METALS -- Continued					
Iron and steel: -- Continued					
Ferroalloys not elsewhere listed: -- Continued					
Ferroalloys (n.e.c.)	thousand metric tons	16,500	\$34,900	22,400	\$30,600
Products:					
Cast iron and steel	do.	228	217,000	272	259,000
Fabricated steel	do.	2,050	3,760,000	2,360	3,840,000
Steel mill	do.	17,700	8,630,000	27,300	12,400,000
Pig iron	do.	828	117,000	2,440	342,000
Scrap:					
Direct-reduced iron (steelmaking grade)	do.	1,090	104,000	1,170	138,000
Heavy melting, bundles, shredded steel, borings, shovelings, and turnings, cut plate and structural, tinned (iron or steel), remelting ingots, stainless steel, other steel (alloys, tinplate and template)	do.	1,390 r/	162,000 r/	1,710	215,000
Ships, boats, and other vessels for scrapping	do.	(2/)	82	(2/)	210
Used rails for rerolling and other uses	do.	70	13,600	183	31,500
Stainless steel (bars, pipe, plate, semifinished, shapes, sheet, strip, tube, wire and wire rods)	metric tons	611,000	NA	(3/)	NA
Lead:					
Base bullion (lead content)	do.	18	62	577	284
Ore and concentrates (lead content)	do.	483	347	473	138
Pigments and compounds	do.	30,900	33,600	36,700	43,600
Pigs and bars (lead content)	do.	196,000	85,100	231,000	134,000
Scrap (reclaimed, includes ash and residues, lead content)	do.	78 r/	39	144	80
Wrought (all forms, including wire and powders, gross weight)	do.	6,890	10,300	5,820	12,100
Magnesium:					
Alloys (magnesium content)	do.	8,080	27,500	9,540	33,800
Metal	do.	24,200	53,100	15,700	36,200
Powder, sheets, tubing, ribbons, wire, and other forms (magnesium content)	do.	1,470	4,620	981	3,510
Waste and scrap	do.	3,460	4,520	2,920	4,190
Manganese:					
Chemicals (manganese dioxide and potassium permanganate)	do.	25,400	38,200	31,300	47,200
Metal	do.	15,100	22,500	20,300	28,800
Ore and concentrates (manganese content)	do.	232,000	24,900 r/	331,000	29,800
Ferromanganese (all grades, manganese content)	do.	542,000	335,000	530,000	338,000
Silicomanganese (manganese content)	do.	208,000	133,000	181,000	123,000
Mercury (metal, mercury-bearing waste and scrap)	do.	40	143	129	494
Molybdenum (molybdenum content):					
Ferromolybdenum	do.	2,190	12,700	2,960	23,200
Molybdates (all)	do.	317	2,630	362	2,630
Ore and concentrates	do.	3,400	17,000	2,280	15,900
Oxides and hydroxides (gross weight)	do.	622	2,880	628	3,950
Powder	do.	52	2,090	89	2,770
Unwrought	do.	136	1,750	52	1,060
Wire (gross weight)	do.	3	308	2	304
Wrought (gross weight)	do.	49	3,430	--	--
Other (inorganic compounds, orange, waste and scrap, and other, gross weight)	do.	1,080 r/	5,550	1,420	9,410
Nickel (nickel content):					
Alloyed (unwrought ingots, bars, rods, profiles, wire, sheets, strip, foil, tubes, pipes, other articles)	do.	7,050	80,800	7,680	81,900
Chemicals (catalysts and salts)	do.	4,030	56,900	3,950	53,400
Ore	do.	2,970	W	--	--
Unwrought:					
Primary (cathodes, pellets, briquets, shot, ferronickel, flakes, powder, metallurgical-grade oxide)	do.	122,000	660,000	123,000	737,000
Secondary (scrap [stainless steel and waste])	do.	6,710	39,300	6,060	41,900
Wrought (bars, rods, profiles, wire, sheets, strips, foil, tubes, and pipes)	do.	991	15,400	634	8,740

See footnotes at end of table.

TABLE 9 -- Continued  
 U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
METALS -- Continued					
Platinum-group metals [platinum, palladium, rhodium, iridium, osmium, ruthenium, (ores and concentrates, waste and scrap, and refined)]	kilograms	153,000	\$1,310,000	171,000	\$1,400,000
Rare-earth metals (rare-earth oxide content):					
Cerium compounds (including chlorides, hydroxides, nitrates, oxides, oxilate, and sulfates)	do.	1,270,000	10,000	1,890,000	15,400
Compounds (including hydroxides, nitrates, oxides, and others, except chlorides)	do.	4,980,000	39,400	5,140,000	44,400
Chloride mixtures (except cerium chloride)	do.	2,360,000	8,090	2,410,000	11,400
Ferrocerium and other pyrophoric alloys	do.	118,000	1,650	77,400	1,170
Oxide mixtures (except cerium oxides)	do.	249,000	10,600	354,000	10,300
Rare-earth metals (whether intermixed or alloyed)	do.	196,000	2,640	284,000	4,450
Rhenium:					
Ammonium perrhenate	do.	3,170	1,600	2,330	1,010
Metal	do.	2,700	3,330	5,870	5,890
Selenium: (selenium content)					
Selenium dioxide	do.	14,500	143 r/	15,300	173
Unwrought, and waste and scrap	do.	367,000	6,880	396,000	7,420
Silicon:					
Ferrosilicon	metric tons	200,000 r/	111,000	204,000	125,000
Metal	do.	72,200	126,000	100,000	152,000
Silver:					
Bullion (refined)	kilograms	2,180,000	297,000	2,060,000	347,000
Doré and precipitates	do.	281,000	78,600	413,000	124,000
Ore and concentrates	do.	35,700	6,410	133,000	24,100
Waste and scrap	do.	1,270,000	46,000	1,070,000	55,100
Tantalum:					
Ores and concentrates (includes synthetic)	thousand kilograms	1,290	32,700	1,120	25,600
Unwrought (alloys, metal, powders, and waste and scrap)	do.	165	14,800	340	26,100
Wrought	do.	3	547	1	368
Tellurium (unwrought, and waste and scrap)	kilograms	45,000	3,180	27,400	1,570
Thallium (unwrought waste and scrap)	do.	273	35	(3/)	(3/)
Thorium:					
Compounds	do.	18,300	479	3,150	140
Tin:					
Compounds	metric tons	431	3,150	744	4,740
Metal (unwrought)	do.	33,700	176,000 r/	32,400	171,000
Miscellaneous tin and tin manufactures (alloys [n.s.p.f.], dross, flitters, foil, metallics, powder, residues, scrap, skimmings, and manufactures [n.s.p.f.])	do.	XX	30,300	XX	42,100
Tinplate and terneplate	do.	237,000	161,000	337,000	216,000
Tinplate scrap	do.	12,600	1,420	8,950	1,410
Titanium:					
Concentrates:					
Ilmenite	do.	301,000	18,400	336,000	26,200
Rutile (natural and synthetic)	do.	371,000	135,000	332,000	124,000
Titaniferous iron ore	do.	66,300	2,850	43,700	2,270
Titanium slag	do.	476,000	150,000	472,000	158,000
Metal:					
Ingots and billets	do.	272	3,030	1,730	15,500
Powder	do.	37	813	(3/)	(3/)
Unwrought	do.	2,160	10,500	6,470	22,500
Waste and scrap	do.	5,520	18,100	5,870	19,100
Wrought (bars, castings, foil, pipes, plates, profiles, rods, sheet, strip, tubes, wire, and other)	do.	600	17,200	801	23,700
Other (includes bars, blooms, sheet, slabs, and other unwrought)	do.	131	761	644	4,340
Pigments (dioxides and oxides)	do.	172,000	284,000	176,000	283,000
Tungsten (tungsten content):					
Ammonium paratungstate	do.	1,180	6,480	848	5,220
Ferrotungsten	do.	652	2,830	515	1,880

See footnotes at end of table.

TABLE 9 -- Continued  
 U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	1993		1994		
	Quantity	Value (thousands)	Quantity	Value (thousands)	
METALS -- Continued					
Tungsten (tungsten content): -- Continued					
Miscellaneous tungsten-bearing materials (carbide, chlorides, oxides, unwrought, tungstates [calcium and sodium], waste and scrap, wrought, and other tungsten-bearing material)	metric tons	3,960	\$42,300	6,410	\$48,400
Ore and concentrates	do.	1,720	7,840	2,960	9,110
Vanadium:					
Aluminum-vanadium master alloy (vanadium content)	kilograms	1,630,000	12,200	1,910,000	12,900
Metal (including waste and scrap)	do.	630,000	5,520	570,000	5,880
Pentoxide (anhydride, vanadium content)	do.	69,800	381	294,000	1,770
Other oxides and hydroxides	do.	18,700	292	3,470	41
Vanadium-bearing materials (ash, residues, slag, other [includes spent catalyst], pentoxide content )	do.	2,590,000	3,320	3,390,000	2,070
Miscellaneous chemicals (vanadates, hydrides, and nitrides)	do.	66,800	749	29,700	454
Zinc:					
Pigments and compounds (chloride, lithopone, oxide, sulfate, sulfide, and compounds n.s.p.f.)	metric tons	48,600	53,200	55,100	59,700
Ore and concentrates (zinc content)	do.	33,100	11,800	27,400	10,500
Rolled	do.	135	353	475	744
Slab	do.	724,000	502,000	793,000	518,000
Zirconium:					
Ore and concentrates	do.	70,000	9,320	82,000	14,900
Unwrought and waste and scrap	do.	121	1,170 r/	188	1,110
Metal totals		XX	27,000,000 r/	XX	34,200,000
INDUSTRIAL MINERALS					
Abrasive materials:					
Manufactured (Fused aluminum oxide, metallic abrasives, silicon carbide)					
	metric tons	299,000	149,000	153,000	143,000
Silica stone	do.	XX	2,390	XX	2,400
Asbestos (unmanufactured)	do.	30,800	6,960	25,800	5,390
Barite:					
Barium chemicals	do.	30,300	24,500	39,300	29,400
Crude and ground	do.	804,000	34,200	1,080,000	47,200
Boron (contained boric oxide):					
Borax	thousand metric tons	40	1,230	9	2,700
Boric acid	do.	17	11,900	20	12,900
Colemanite	do.	90	48,600	87	10,800
Ulexite	do.	149	40,700	120	24,000
Bromine:					
Compounds (contained bromine)	thousand kilograms	18,400	47,800	15,700	55,300
Elemental	do.	850	513	319	194
Cement: Hydraulic and clinker	thousand metric tons	7,060	331,000	(3/)	(3/)
Clays:					
Ball and common blue clay	do.	687	228	836	281
Bentonite	do.	1,990	664	2,050	782
Fire	do.	1,100	282	1,030	464
Fuller's earth and decolorizing earths	do.	101	29	1,440	65
Kaolin (China clay)	do.	7,620	3,460	10,800	4,030
Other (chamotte or dina's earth, artificially activated clay and activated earth)	do.	27,900	12,900	19,400	9,260
Diatomite	metric tons	1,880	338	379	363
Diamonds (industrial):					
Industrial stones [including glazer's and engraver's unset, and miner's (natural and synthetic)]	thousand carats	5,200	35,700	2,810	26,400
Powder, dust and grit (natural and synthetic)	do.	133,000	81,100	174,000	89,300
Feldspar	do.	7,050	514	7,360	513
Fluorspar:					
Aluminum fluoride	do.	39,400	31,100	23,700	22,700
Cryolite	do.	3,780	3,070	4,450	3,460
Fluorspar	do.	497,000 r/	46,900 r/	492,000	46,700
Hydrofluoric acid	do.	62,900	60,000	68,200	63,000
Garnet (abrasive)	do.	12,200	XX	6,000	XX

See footnotes at end of table.

TABLE 9 -- Continued  
 U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	Mineral	1993		1994	
		Quantity	Value (thousands)	Quantity	Value (thousands)
INDUSTRIAL MINERALS -- Continued					
Gemstones (exports and reexports)		XX	\$5,850,000	XX	\$6,440,000
Graphite:					
Natural	metric tons	52,200	29,900	53,100	26,900
Electric furnace electrodes	do.	34,000	57,800	45,700	95,000
Gypsum:					
Boards	thousand metric tons	171	16,200	370	39,700
Crude	do.	7,390	58,200	8,470	61,400
Plasters	do.	23	1,670	5	960
Other	do.	XX	34,900	XX	39,300
Iodine:					
Crude	metric tons	3,500	27,700	4,260	32,400
Potassium iodide	do.	114	997	134	1,160
Iron oxide pigments:					
Natural	do.	4,840	1,380	6,420	2,140
Synthetic	do.	38,800	55,900	45,000	59,300
Kyanite (andalucite)	do.	12,200	2,130	7,900	1,290
Lime	thousand metric tons	201	13,300	204	13,100
Lithium:					
Carbonate	metric tons	4,290	12,100	4,500	12,700
Hydroxide	do.	24	238	29	330
Magnesium compounds:					
Calcined dolomite	do.	35,800	4,430	(3/)	(3/)
Caustic-calcined magnesia	do.	141,000	15,700	125,000	16,100
Compounds (chlorides, hydroxide, peroxide, and sulfates)	do.	34,000	6,140	55,500	13,700
Dead-burned and fused magnesia	do.	279,000	48,700	342,000	51,800
Magnesite (crude)	do.	332	251	326	133
Other magnesia	do.	51,200	6,270	7,890	8,500
Mica:					
Scrap and flake:					
Powder	do.	13,100	8,070	(3/)	(3/)
Waste	do.	4,770	1,310	(3/)	(3/)
Sheet:					
Unworked	do.	2,960	2,520	(3/)	(3/)
Worked	do.	1,350	9,340	(3/)	(3/)
Nepheline syenite (crushed and ground)	do.	289,000	15,400	333,000	18,700
Nitrogen compounds:					
Anhydrous ammonia	thousand metric tons	3,230	415,000	4,200	725,000
Fertilizer materials	do.	8,270	1,090,000	9,730	1,480,000
Industrial chemicals	do.	51	48,800	54	57,300
Peat moss (poultry and fertilizer grade)	do.	648,000	118,000	669,000	126,000
Perlite (crude)	metric tons	70,000	2,000	70,000	2,100
Phosphate rock and phosphatic materials	thousand metric tons	632	56,000	874	72,300
Potash:					
Potassium chloride	metric tons	7,050,000	549,000	7,790,000	614,000
Potassium nitrate	do.	28,100	7,830	16,400	4,280
Potassium sodium nitrate mixtures	do.	38,900	5,970	45,700	6,180
Potassium sulfate	do.	87,300	15,400	70,900	17,300
Pumice:					
Crude or unmanufactured	thousand metric tons	142	6,430	142	12,000
Wholly or partially manufactured	do.	1	635	1	591
Salt	do.	5,870	100,000	9,630	151,000
Sand and gravel:					
Construction	do.	1,320	15,400	1,500	14,800
Industrial	do.	44	2,440	22	1,790
Sodium compounds:					
Soda ash	do.	89	17,100	79	12,100
Sodium sulfate	do.	163	13,600	190	15,700
Stone:					
Crushed and calcium carbonate fines	thousand metric tons	8,440	74,300	8,940	77,900
Dimension		NA	398,000	NA	(3/)

See footnotes at end of table.

TABLE 9 -- Continued  
U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS 1/

Mineral	Mineral	1993		1994	
		Quantity	Value (thousands)	Quantity	Value (thousands)
INDUSTRIAL MINERALS -- Continued					
Strontium:					
Celestite (strontium sulfate)	metric tons	26,400	\$1,930	35,500	\$2,420
Compounds (carbonate and nitrate)	do.	26,300	15,800	33,200	20,000
Sulfur:					
Elemental	thousand metric tons	2,070 r/	49,800 r/	1,650	62,000
Sulfuric acid (100% H <sub>2</sub> SO <sub>4</sub> )	metric tons	2,440,000 r/	70,700 r/	2,130,000	85,100
Talc (unmanufactured)	do.	99,800	10,800	155,000	14,900
Vermiculite	thousand metric tons	30 /e	NA	30 /e	NA
Industrial mineral totals		XX	10,300,000 r/	XX	11,100,000
Total		XX	37,400,000 r/	XX	45,300,000

r/Revised. NA Not available. XX Not applicable.

1/Data rounded by the U.S. Bureau of Mines to three significant digits.

2/Less than 1/2 unit.

3/ Data not available at time of table compilation.

TABLE 10  
COMPARISON OF WORLD AND U.S. PRODUCTION OF SELECTED NONFUEL MINERAL COMMODITIES

(Metric tons unless otherwise specified)

Mineral	1993			1994		
	World production e/ 1/	U.S. production	U.S. percent of world production	World production e/ 1/	U.S. production	U.S. percent of world production
METALS, MINE BASIS						
Antimony 2/	86,300 r/	W	NA	108,000	W	NA
Arsenic trioxide	41,400 r/	--	--	43,000	--	--
Bauxite 3/	thousand tons 108,000 r/	W	NA	107,000	W	NA
Beryl 4/	6,740 r/	4,940 5/	73	6,130	4,330 5/	71
Chromite	thousand tons 9,300 r/	--	--	9,600	--	--
Cobalt 2/ 4/	20,600 r/	--	--	18,500	--	--
Columbium-tantalum concentrate (gross weight) 6/	29,800 r/	--	--	36,500	--	--
Copper 2/	thousand tons 9,430 r/	1,800	19	9,260	1,810	20
Gold 2/	kilograms 2,310,000 r/	331,000	14	2,290,000	326,000	14
Iron ore (gross weight)	thousand tons 983,000 r/	55,700 r/	6	995,000	58,400	6
Lead 2/	do. 2,830 r/	362	13 r/	2,800	370	13
Manganese ore (gross weight)	do. 21,200 r/	--	--	20,900	--	--
Mercury	2,290 r/	W	NA	1,760	W	NA
Molybdenum 2/	93,600 r/	36,800	39	104,000	46,800	45
Nickel 2/	899,000	2,460 5/	(7/)	NA	NA	NA
Platinum-group metals	kilograms 275,000 r/	8,300 e/	3	250,000	8,400 e/	3
Silver 2/	14,300 r/	1,640 r/	12 r/	13,900	1,480	11
Tin 2/	187,000 r/	W	NA	183,000	--	--
Titanium concentrates (gross weight):						
Ilmenite (including leucoxene)	thousand tons 3,580	W	NA	NA	NA	NA
Rutile	do. 464	W	NA	NA	NA	NA
Tungsten 2/	32,000 r/	W	NA	25,500	W	NA
Vanadium 2/	33,400 r/	2,870	9 r/	33,900	2,740	8
Zinc 2/	thousand tons 6,960 r/	513	7	6,810	598	9
METALS, REFINERY BASIS						
Aluminum	do. 19,700 r/	3,700	19	19,100	3,300	17
Bismuth	4,240 r/	W	NA	4,100	W	NA
Cadmium	18,900 r/	1,090	6	18,100	1,010	6
Cobalt	16,800 r/	--	--	18,500	--	--
Copper (primary and secondary) 8/	thousand tons 11,500 r/	2,250	20	11,200	2,220	20
Lead (primary and secondary) 9/	do. 5,450 r/	1,230 r/	23	5,380	1,260	24
Magnesium (primary)	281,000 r/	132,000	47	267,000	128,000	48
Nickel 10/	807,000	4,880	1	NA	NA	NA
Selenium 6/ 11/	kilograms 1,760,000 r/	283,000	16 r/	1,880,000	360,000	19
Tellurium 4/	do. 89,100 r/	W	NA	93,600	W	NA
Tin 12/	194,000 r/	W	NA	199,000	W	NA
Zinc (primary and secondary)	thousand tons 7,400 r/	382	5	7,360	356	5

See footnotes at end of table.



TABLE 10 -- Continued  
COMPARISON OF WORLD AND U.S. PRODUCTION OF SELECTED NONFUEL MINERAL COMMODITIES

(Metric tons unless otherwise specified)

Mineral	1993			1994			
	World production e/ 1/	U.S. production	U.S. percent of world production	World production e/ 1/	U.S. production	U.S. percent of world production	
<b>METALS--Continued</b>							
<b>IRON AND STEEL</b>							
Direct-reduced iron	do.	23,800 r/	440	2	28,100	480	2
Iron, pig	do.	506,000 r/	48,200	10	512,000	49,400	10
Steel, raw	do.	728,000 r/	88,800	12	726,000	91,200	13
<b>INDUSTRIAL MINERALS</b>							
Asbestos	do.	2,650 r	14 13/	1 r/	2,410	10 13/	(7/)
Barite	do.	4,080 r/	315 13/	8 r/	4,470	758 13/	17
Boron minerals	do.	2,670 r/	1,060 13/	40 r/	2,850	1,110 13/	39
Bromine		396,000 r/	177,000 13/	45	412,000	195,000 13/	47
Cement, hydraulic 14/	thousand tons	1,300,000	72,400 e/	6	NA	NA	NA
Clays:							
Bentonite 4/	do.	7,550 r/	2,870 r/	38 r/	7,580	3,290	43
Fuller's earth 6/	do.	3,660 r/	2,450 13/	67 r/	3,820	2,640 13/	69
Kaolin 4/	do.	25,700 r/	8,830 r/ 13/	34 r/	30,400	8,320 13/	27
Diamond, natural	thousand carats	105,000 r/	--	--	111,000	--	--
Diatomite	thousand tons	1,460 r/	599 13/	41	1,440	613 13/	43
Feldspar	do.	6,390 r/	770	12 r/	6,250	765	12
Fluorspar	do.	3,930 r/	60 e/ 5/	2 r/	3,850	49 e/ 5/	1
Graphite, natural		731,000 r/	--	--	719,000	--	--
Gypsum	thousand tons	99,400 r/	15,800	16 r/	101,000	17,200	17
Iodine, crude		15,700 r/	1,940	12	14,800	1,430	10
Lime 14/	thousand tons	125,000 r/	16,800 r/ 13/	13 r/	118,000	17,400 13/	15
Magnesite, crude	do.	8,310 r/	W	NA	8,520	W	NA
Mica (including scrap and flake) 15/		196,000 r/	87,900	45 r/	214,000	109,000	51
Nitrogen: N content of ammonia	thousand tons	91,700 r/	12,600 r/ 16/	14	91,600	13,400 16/	15
Peat 17/	do.	144,000 r/	616	(7/)	139,000	547	(7/)
Perlite 4/		1,510,000 r/	569,000 13/	38 r/	1,580,000	644,000 13/	41
Phosphate rock (gross weight)	thousand tons	121,000 r/	35,500	29 r/	124,000	41,100	33
Potash (K <sub>2</sub> O equivalent)	do.	20,300 r/	1,510	7	22,500	1,400	6
Pumice 18/	do.	11,200 r/	469 13/	4	11,400	490 13/	4
Salt 14/	do.	181,000 r/	39,800 r/ e/	22 r/	180,000	39,800 e/	22
Sand and gravel, industrial (silica) 4/	do.	107,000 r/	26,200 13/	25 r/	111,000	27,900 13/	25
Sodium compounds, n.e.s. (natural and manufactured):							
Soda ash 19/	do.	30,500 r/	8,960	29	30,400	9,320	31
Sulfate	do.	4,000 r/	537 r/	13 r/	3,860	463	12
Strontium 4/		156,000 r/	--	--	150,000	--	--
Sulfur, all forms	thousand tons	48,900 r/	11,000	22 r/	51,000	11,500	23
Talc and pyrophyllite 20/	do.	8,340 r/	968	12 r/	7,880	935	12
Vermiculite		494,000 r/	190,000 13/	38 r/	486,000	177,000 13/	37

e/ Estimated. r/ Revised. NA Not available. W Withheld to avoid disclosing company proprietary data.

1/ The world production totals on commodities for which U.S. data are withheld exclude U.S. production; therefore percent of world production cannot be reported.

2/ Content of ore and concentrate.

3/ U.S. figures represent dried bauxite equivalent of crude ore; to the extent possible, individual country figures that are included in the world total are also on the dried bauxite basis, but for some countries available data are insufficient to permit this adjustment.

4/ World total does not include an estimate for output in China.

5/ Shipments.

6/ World total does not include estimates for output in the former U.S.S.R. or China.

7/ Less than 1/2 unit.

8/ Includes total production of refined copper, whether produced by pyrometallurgical or electrolytic refining methods and whether derived from primary unrefined copper or from scrap. Copper cathode derived from electrowinning processing is also included.

9/ Includes bullion.

10/ Refined nickel plus nickel content of ferronickel, nickel oxide, and other nickel salts.

11/ U.S. production includes semi-refined selenium exported for further refining.

12/ Includes tin content of alloys made directly from ore.

13/ Quantity sold or used by producers.

14/ Data for the United States include Puerto Rico.

15/ Excludes U.S. production of low-quality sericite and sheet mica, if any.

16/ Synthetic anhydrous ammonia; excludes coke oven byproduct ammonia.

17/ Data for the United States exclude proprietary amounts of fuel peat.

18/ World total does not include an estimate for output in the former U.S.S.R.

19/ U.S. production is natural only.

20/ Data for the United States exclude proprietary pyrophyllite production.