Statistical Summary

By Staff, Office of Technical Data Services

This chapter summarizes data on crude mineral production for the United States, its island possessions, and the Commonwealth of Puerto Rico. Included also are tables that show the principal mineral commodities exported from and imported into the United States, and that compare world and U.S. mineral production. Except for the mineral fuel commodities, the detailed data from which these tables were derived are contained in the individual commodity chapters of volume I and in the State chapters of volume II of this edition of the Minerals Yearbook.

In October 1977, responsibility for the collection of data on mineral fuels—coal, petroleum, natural gas, and natural gas liquids—was transferred to the newly created Department of Energy. Although chapters covering these commodities will no longer appear in Volume I of the Minerals Yearbook, quantity and value data have been included in most of these summary tables to maintain statistical consistency in State and national value of overall crude mineral output. This shift in responsibility has also resulted in changes to the composition of the "Nonmetals" and "Mineral Fuels" groups in table 1 and table 2. The commodities—asphalt and related bitumens (natural), carbon dioxide (natural), helium, and peat—have been removed from the "Mineral Fuels" group, and are now included under the "Nonmetals" group. There has been no change in the components of the "Metals" group.

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

Because of inadequacies in the statistics available, some series deviate from the foregoing definition. In cases of gold, silver, copper, lead, zinc, and tin, the quantities are recorded on a mine basis (as the recoverable content of ore sold or treated). However, the values assigned to these 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.

The weight or volume units shown are those customarily used in the particular industries producing the commodities. Values shown are in current dollars, with no adjustments made to compensate for changes in the purchasing power of the dollar.

Table 1.—Value of crude mineral production[1] in the United States, by mineral group[2]

(Million dollars)

Year	Metals	Nonmetals[2]	Total	Mineral fuels[2]	Grand total
1973	4,362	7,476	11,838	24,949	36,787
1974	5,501	8,687	[3]14,187	40,889	[3]55,077
1975	5,191	9,570	14,761	47,505	62,266
1976	6,086	10,616	16,702	52,484	[r]69,186
1977	5,810	11,701	17,511	59,575	77,086

[r] Revised.

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

[2] The commodities comprising the Mineral fuels and Nonmetals groups have been revised. See table 2 for the complete listing of the commodities which now comprise these two groups.

[3] Data do not add to total shown because of independent rounding.

Note: Beginning with 1977, data on mineral fuels supplied by the Department of Energy.

Table 2.—Mineral production[1] in the United States

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
METALS								
Antimony ore and concentrate—short tons, antimony content	661	$2,040	886	$2,131	283	$600	610	$1,320
Bauxite—thousand long tons, dried equivalent	1,949	25,663	1,772	25,083	1,958	26,645	1,981	28,018
Copper (recoverable content of ores, etc.)—short tons	1,597,002	2,468,964	1,413,366	1,814,763	1,605,586	2,234,975	1,503,966	2,009,297
Gold (recoverable content of ores, etc.)—troy ounces	1,126,886	180,009	1,052,252	169,928	1,048,037	131,340	1,100,347	163,192
Iron ore, usable (excluding byproduct iron sinter) thousand long tons, gross weight	84,985	1,388,447	75,695	1,620,599	76,697	1,860,102	53,880	1,417,418
Lead (recoverable content of ores, etc.)—short tons	663,870	298,742	621,464	267,230	609,546	281,610	592,491	363,789
Manganese ore (35% or more Mn)—short tons, gross weight	--	--	--	--	--	--	--	--
Manganiferous ore (5% to 35% Mn)—do	272,908	2,323	159,225	1,413	256,633	2,260	215,893	2,249
Mercury—76-pound flasks	2,189	617	7,366	1,165	23,133	2,806	28,244	3,833
Molybdenum (content of concentrate)—thousand pounds	118,163	234,658	105,170	259,328	114,527	333,494	124,974	450,421
Nickel (content of ore and concentrate)—short tons	16,618	W	16,987	W	16,469	W	14,347	W
Rare-earth metal concentrates—do	35,218	15,966	W	W	W	W	W	W
Silver (recoverable content of ores, etc.)—thousand troy ounces	33,762	159,018	34,938	154,424	34,328	149,328	38,166	176,325
Titanium concentrate:								
Ilmenite—short tons, gross weight	755,338	22,715	702,252	26,946	617,896	27,578	542,333	25,200
Rutile—do	6,446	996	W	W	W	W	W	W
Tungsten ore and concentrate—thousand pounds contained W	7,836	37,413	5,490	29,090	5,869	37,266	6,022	55,073
Uranium (recoverable content of U_3O_8)—thousand pounds	23,227	192,560	22,936	276,102	25,146	404,830	29,481	582,249
Vanadium (recoverable in ore and concentrate)—short tons	4,870	38,266	4,743	49,329	7,376	81,279	6,504	74,488
Zinc (recoverable content of ores, etc.)—do	499,872	358,908	469,355	366,097	484,513	358,541	449,620	309,338
Value of items that cannot be disclosed: Beryllium, magnesium chloride for magnesium metal, manganiferous residuum (1974-1976) platinum-group metals (crude), tin, zircon concentrate, and values indicated by W	XX	73,828	XX	127,459	XX	153,452	XX	147,567
Total metals	XX	5,501,000	XX	5,191,000	XX	6,086,000	XX	5,810,000
NONMETALS (EXCEPT FUELS)								
Abrasive stones[2]—short tons	3,134	717	2,953	1,060	2,696	1,404	2,200	3,236
Asbestos—do	109,091	13,393	98,654	14,220	114,842	23,693	101,704	25,267
Asphalt and related bitumens, native:								
Bituminous limestone, sandstone, gilsonite—do	2,021,165	16,666	1,901,715	17,838	2,011,500	17,647	1,237,000	13,874
Barite—thousand short tons	1,106	16,822	1,318	21,200	1,234	28,689	1,494	30,264
Boron minerals—do	1,185	128,306	1,172	158,772	1,246	184,852	1,469	236,163
Bromine—thousand pounds	432,094	117,715	407,163	113,126	r460,061	r112,348	433,818	99,678
Calcium chloride—short tons	739,100	24,552	594,400	29,047	648,979	32,889	710,385	45,048
Carbon dioxide, natural—thousand cubic feet	966,118	237	1,070,024	279	1,356,834	298	1,617,149	351

See footnotes at end of table.

Table 2.—Mineral production[1] in the United States —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
NONMETALS (EXCEPT FUELS) —Continued								
Cement:								
Portland thousand short tons	75,983	$1,992,695	65,215	$2,015,625	69,163	$2,330,402	75,514	$2,727,564
Masonry do	3,371	111,106	2,868	111,801	3,267	139,564	3,752	169,101
Clays do	60,796	422,542	49,047	424,556	52,389	528,745	53,196	579,171
Diatomite short tons	664,303	50,693	573,000	45,812	r631,380	54,982	648,043	63,870
Feldspar do	762,723	11,396	669,898	11,728	739,684	17,531	733,963	17,186
Fluorspar do	201,116	14,297	139,913	10,888	188,270	17,927	169,489	16,479
Garnet (abrasive) do	24,684	2,550	17,204	1,690	24,565	2,740	20,022	2,234
Gem stones[e]	NA	4,583	NA	13,900	NA	8,907	NA	8,850
Gypsum thousand short tons	11,999	52,894	9,751	44,654	11,980	59,888	13,390	74,341
Helium:								
Crude million cubic feet	184	2,208	334	4,008	r587	r7,048	537	6,443
High-purity do	699	18,105	745	19,915	r752	r18,852	957	24,280
Lime thousand short tons	21,606	473,685	19,133	523,805	20,229	609,010	19,947	666,472
Magnesium compounds from seawater and brine (except for metal) short tons, MgO equivalent	907,492	96,742	W	W	W	W	830,475	127,716
Mica:								
Scrap thousand short tons	137	5,475	135	5,219	r141	r5,765	176	6,480
Sheet pounds	20,000	10	5,000	3	5,000	3	W	W
Peat thousand short tons	706	10,989	746	12,294	r731	r12,079	726	12,520
Perlite short tons	555,000	7,024	512,000	7,282	553,000	9,397	597,000	10,753
Phosphate rock thousand metric tons	41,437	501,429	44,276	1,122,184	44,662	r949,379	47,256	821,657
Potassium salts thousand short tons, K_2O equivalent	2,552	159,148	2,501	223,098	2,500	r210,759	2,461	206,872
Pumice thousand short tons	3,937	9,121	3,892	11,203	4,134	10,466	4,009	11,965
Pyrites thousand long tons	424	4,238	625	4,776	750	8,213	435	7,003
Salt thousand short tons	46,536	360,763	41,030	368,063	44,191	430,959	43,412	451,579
Sand and gravel do	904,646	1,421,237	789,436	1,416,346	885,156	1,774,030	929,200	2,028,000
Sodium carbonate (natural) do	4,059	137,486	4,328	182,620	5,216	259,253	6,228	337,516
Sodium sulfate (natural) do	684	16,411	667	27,667	663	32,655	636	29,313
Stone[3] do	1,043,542	2,186,155	901,393	2,120,286	901,660	2,221,000	955,371	2,456,932
Sulfur, Frasch process thousand long tons	7,898	241,066	6,077	304,843	5,860	299,999	5,935	294,733
Talc, soapstone, pyrophyllite short tons	1,289,462	9,569	964,609	8,929	1,092,433	9,902	1,204,835	13,085
Tripoli do	85,121	623	80,562	565	124,281	776	125,661	777
Vermiculite thousand short tons	341	10,120	330	13,761	304	14,032	359	18,579

Value of items that cannot be disclosed: Aplite, emery, graphite, iodine, kyanite, lithium minerals, magnesite, greensand marl, olivine, staurolite, wollastonite, and values of nonmetal items indicated by W	XX	34,125	XX	157,180	XX	169,491	XX	56,043
Total nonmetals[r]	XX	8,687,000	XX	9,570,000	XX	10,616,000	XX	11,701,000
MINERAL FUELS								
Coal:								
Bituminous and lignite[4]—thousand short tons	603,406	9,502,347	648,438	12,472,486	678,685	13,189,481	691,344	13,705,219
Pennsylvania anthracite—do	6,617	144,695	6,203	198,481	6,228	209,234	5,861	205,138
Natural gas—million cubic feet	21,600,522	6,573,402	20,108,661	8,945,062	19,952,438	11,571,776	20,025,463	15,825,954
Natural gas liquids:								
Natural gasoline and cycle products—thousand 42-gallon barrels	168,152	1,107,158	151,872	878,698	149,679	985,442	590,455	4,047,473
LP gases—do	447,946	1,980,769	444,086	1,893,890	437,366	2,298,647		
Petroleum (crude)—do	3,202,585	21,580,549	3,056,779	23,116,059	2,976,180	24,229,540	3,009,265	25,790,722
Total mineral fuels[r]	XX	40,889,000	XX	47,505,000	XX	52,484,000	XX	59,575,000
Grand total	XX	55,077,000	XX	62,266,000	XX	[r]69,186,000	XX	77,086,000

[e]Estimate. [r]Revised. NA Not available. W Withheld to avoid disclosing company proprietary data; included with "Value of items that cannot be disclosed." XX Not applicable.
[1]Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
[2]Grindstones, pulpstones, grinding pebbles, sharpening stones, and tube mill liners.
[3]Excludes abrasive stone, bituminous limestone, bituminous sandstone, and soapstone, all included elsewhere in table.
[4]Includes a small quantity of anthracite mined in States other than Pennsylvania.

Note: Beginning with 1977, data on mineral fuels supplied by the Department of Energy.

Table 3.—Minerals produced in the United States and principal producing States in 1977

Mineral	Principal producing States in order of quantity	Other producing States
METALS AND NONMETALS		
Antimony ore and concentrate	Idaho and Mont.	
Aplite	Va.	
Asbestos	Calif., Vt., Ariz., N.C.	
Asphalt (native)	Tex., Utah, Ala., Mo.	
Barite	Nev., Mo., Ark., Ga	Idaho, Ill., Mont., Tenn.
Bauxite	Ark., Ala., Ga.	
Beryllium concentrate	Utah and S. Dak.	
Boron minerals	Calif.	
Bromine	Ark. and Mich.	
Calcium-chloride	Mich. and Calif.	
Carbon dioxide (natural)	N. Mex., Colo., Calif., Utah.	
Cement	Calif., Tex., Pa., Mich	Ala., Ariz., Ark., Colo., Fla., Ga., Hawaii, Idaho, Ill., Ind., Iowa, Kans., Ky., La., Maine, Md., Miss., Mo., Mont., Nebr., Nev., N. Mex., N.Y., N.C., Ohio, Okla., Oreg., S.C., S. Dak., Tenn., Utah, Va., Wash., W. Va., Wis., Wyo.
Clays	Ga., Tex., Ohio, N.C	All other States except Alaska, R.I., Vt.
Copper (mine)	Ariz., Utah, N. Mex., Mont	Alaska, Calif., Colo., Idaho, Maine, Mich., Mo., Nev., Oreg., Pa., Tenn., Wash.
Diatomite	Calif., Nev., Wash., Oreg.	
Emery	N.Y.	
Feldspar	N.C., Conn., Ga., Calif	Ariz., Colo., Maine, Okla., S. Dak., Wyo.
Fluorspar	Ill., Ky., Tex., Mont	Ariz. and Nev.
Garnet, abrasive	Idaho and N.Y.	
Gold (mine)	Nev., S. Dak., Utah, Ariz	Alaska, Calif., Colo., Idaho, Mont., N. Mex., Oreg., Tenn., Wash.
Graphite	Tex.	
Gypsum	Mich., Tex., Calif., Iowa	Ariz., Ark., Colo., Idaho, Ind., Kans., La., Mont., Nev., N. Mex., N.Y., Ohio, Okla., S. Dak., Utah, Va., Wash., Wyo.
Helium	Kans., Okla., Tex	Ariz. and N. Mex.
Iodine	Okla. and Mich.	
Iron ore	Minn., Mich., Calif., Wyo	Colo., Ga., Mo., Mont., Nev., N.J., N.Y., Pa., Tex., Utah, Wis.
Kyanite	Va. and Ga.	
Lead (mine)	Mo., Idaho, Colo., Utah	Ariz., Calif., Ill., Maine, Mont., Nev., N. Mex., N.Y., Okla., Va., Wash., Wis.
Lime	Ohio, Pa., Mo., Tex	Ala., Ariz., Ark., Calif., Colo., Conn., Fla., Hawaii, Idaho, Ill., Ind., Iowa, Kans., Ky., La., Md., Mass., Mich., Minn., Miss., Mont., Nebr., Nev., N.J., N. Mex., N.Y., N. Dak., Okla., Oreg., S. Dak., Tenn., Utah, Va., Wash., W. Va., Wis., Wyo.
Lithium minerals	N.C., Nev., Calif.	
Magnesite	Nev.	
Magnesium chloride	Tex.	
Magnesium compounds	Mich., Calif., Fla., N.J	Del., Miss., Tex., Utah.
Manganiferous ore	Minn., N. Mex., S.C.	
Marl, greensand	N.J.	
Mercury	Nev. and Calif.	
Mica, scrap	N.C., S.C., N. Mex., Ala	Ariz., Conn., Ga., Pa., S. Dak.
Molybdenum	Colo., Ariz., N. Mex., Utah	Calif. and Nev.
Nickel	Oreg.	
Olivine	N.C. and Wash.	
Peat	Mich., Fla., Ind., Ill.	Calif., Colo., Ga., Iowa, Maine, Md., Mass., Minn., Mont., N.J., N. Mex., N.Y., N. Dak., Ohio, Pa., S.C., Wash., Wis.
Perlite	N. Mex., Ariz., Calif., Idaho	Colo. and Nev.
Phosphate rock	Fla., Idaho, N.C., Tenn	Calif., Mo., Mont., Utah, Wyo.
Potassium salts	N. Mex., Calif., Utah.	
Pumice	Oreg., Nev., Calif., Ariz	Colo., Hawaii, Idaho, Mont., N Mex., Okla., Utah, Wash.
Pyrites ore and concentrate	Tenn., Colo., Ariz.	
Rare-earth metal concentrate	Calif. and Fla.	
Salt	La., Tex., N.Y., Mich	Ala., Ariz., Calif., Colo., Kans., Nev., N. Mex., N. Dak., Ohio, Okla., Utah, W. Va.
Sand and gravel	Calif., Alaska, Tex., Ohio	All other States.
Silver (mine)	Idaho, Ariz., Colo., Mont	Alaska, Calif., Ill., Mich., Mo., Nev., N. Mex., N.Y., Oreg., S. Dak., Tenn., Utah, Va., Wash.
Sodium carbonate (natural)	Wyo. and Calif.	
Sodium sulfate (natural)	Calif., Tex., Utah.	
Staurolite	Fla.	
Stone	Tex., Pa., Ill., Mo	All other States except Del. and N. Dak.

Table 3.—Minerals produced in the United States and principal producing States in 1977 —Continued

Mineral	Principal producing States in order of quantity	Other producing States
METALS AND NONMETALS — Continued		
Sulfur (Frasch)	Tex. and La.	
Talc, soapstone, pyrophyllite	Vt., Tex., Mont., N.Y	Ark., Calif., Ga., Nev., N.C., Oreg., Va., Wash.
Tin	Colo.	
Titanium concentrate	N.J., Fla., N.Y.	
Tripoli	Ill., Okla., Ark., Pa.	
Tungsten concentrate	Calif., Colo., Nev	Alaska, Ariz., Idaho, Mont., Oreg., Utah, Wash.
Uranium	N. Mex., Wyo., Utah, Colo	Tex. and Wash.
Vanadium	Ark., Colo., Utah, Idaho	N. Mex.
Vermiculite	Mont. and S.C	Tex.
Wollastonite	N.Y.	
Zinc (mine)	Tenn., Mo., N.Y., Colo	Ariz., Calif., Idaho, Ill., Maine, Mont., Nev., N.J., N. Mex., Okla., Pa., Utah, Va., Wash., Wis.
Zircon concentrate	Fla.	
MINERAL FUELS		
Coal	Ky., W. Va., Pa., Ill	Ala., Alaska, Ariz., Ark., Colo., Ga., Ind., Iowa, Kans., Md., Mo., Mont., N. Mex., N. Dak., Ohio, Okla., Tenn., Tex., Utah, Va., Wash., Wyo.
Natural gas	La., Tex., Okla., N. Mex	Ala., Alaska, Ariz., Ark., Calif., Colo., Fla., Ill., Ind., Kans., Ky., Md., Mich., Miss., Mo., Mont., Nebr., N.Y., N. Dak., Ohio, Pa., Tenn., Utah, Va., W. Va., Wyo.
Natural gas liquids	Tex., La., N. Mex., Okla	Ala., Alaska, Ark., Calif., Colo., Fla., Ill., Kans., Ky., Mich., Miss., Mont., Nebr., N. Dak., Pa., S. Dak., Utah, W. Va., Wyo.
Petroleum, crude	Tex., La., Calif., Alaska	Ala., Ariz., Ark., Colo., Fla., Ill., Ind., Kans., Ky., Mich., Miss., Mo., Mont., Nebr., Nev., N. Mex., N.Y., N. Dak., Ohio, Okla., Pa., S. Dak., Tenn., Utah, Va., W. Va., Wyo.

Table 4.—Value of mineral production in the United States and principal minerals produced in 1977

State	Value (thousands)	Rank	Percent of U.S. total	Principal minerals, in order of value
Alabama	$1,159,952	19	1.50	Coal, petroleum, cement, stone.
Alaska	1,233,519	18	1.60	Petroleum, sand and gravel, natural gas, stone.
Arizona	1,621,256	12	2.10	Copper, molybdenum, coal, cement.
Arkansas	574,469	25	.75	Petroleum, bromine, natural gas, cement.
California	4,311,824	3	5.59	Petroleum, cement, natural gas, sand and gravel.
Colorado	1,397,039	15	1.81	Petroleum, molybdenum, coal, natural gas.
Connecticut	43,708	44	.06	Stone, sand and gravel, feldspar, lime.
Delaware	[1]2,091	50	([2])	Sand and gravel, magnesium compounds, clays, gem stones.
Florida	1,618,557	13	2.09	Phosphate rock, petroleum, stone, cement.
Georgia	486,256	28	.63	Clays, stone, cement, sand and gravel.
Hawaii	39,980	47	.05	Stone, cement, sand and gravel, pumice.
Idaho	252,670	32	.33	Phosphate rock, silver, lead, zinc.
Illinois	1,663,280	10	2.15	Coal, petroleum, stone, sand and gravel.
Indiana	697,558	23	.91	Coal, cement, stone, petroleum.
Iowa	238,208	33	.31	Cement, stone, sand and gravel, gypsum.
Kansas	1,369,497	16	1.78	Petroleum, natural gas, natural gas liquids, cement.
Kentucky	3,217,860	5	4.17	Coal, stone, petroleum, natural gas.
Louisiana	10,911,885	2	14.16	Natural gas, petroleum, natural gas liquids, sulfur.
Maine	43,225	45	.06	Sand and gravel, cement, zinc, stone.
Maryland	186,699	36	.24	Coal, stone, cement, sand and gravel.
Massachusetts	77,268	43	.10	Stone, sand and gravel, lime, clays.
Michigan	1,622,547	11	2.10	Petroleum, iron ore, cement, natural gas.
Minnesota	875,603	22	1.14	Iron ore, sand and gravel, stone, lime.
Mississippi	492,234	27	.64	Petroleum, natural gas, cement, sand and gravel.
Missouri	893,372	21	1.16	Lead, cement, stone, iron ore.
Montana	691,188	24	.90	Petroleum, coal, copper, natural gas.
Nebraska	144,029	39	.18	Petroleum, cement, sand and gravel, stone.
Nevada	270,845	31	.35	Copper, gold, sand and gravel, cement.
New Hampshire	20,701	48	.03	Sand and gravel, stone, clays, gem stones.
New Jersey	117,060	40	.15	Stone, sand and gravel, zinc, titanium concentrate.
New Mexico	2,910,804	8	3.78	Natural gas, petroleum, natural gas liquids, uranium.
New York	461,807	29	.60	Cement, stone, salt, sand and gravel.
North Carolina	231,511	34	.30	Stone, phosphate rock, sand and gravel, cement.
North Dakota	272,066	30	.35	Petroleum, coal, sand and gravel,natural gas liquids.
Ohio	1,607,454	14	2.08	Coal, natural gas, petroleum, stone.
Oklahoma	3,497,447	4	4.54	Petroleum, natural gas, natural gas liquids, coal.
Oregon	109,132	42	.14	Stone, sand and gravel, cement, nickel.
Pennsylvania	3,043,964	7	3.95	Coal, cement, stone, natural gas.
Rhode Island	6,299	49	.01	Sand and gravel, stone, gem stones.
South Carolina	144,201	38	.18	Cement, stone, clays, sand and gravel.
South Dakota	110,740	41	.14	Gold, cement, stone, sand and gravel.
Tennessee	521,371	26	.68	Coal, stone, zinc, cement.
Texas	19,519,631	1	25.32	Petroleum, natural gas, natural gas liquids, cement.
Utah	1,085,339	20	1.41	Petroleum, copper, coal, uranium.
Vermont	41,454	46	.05	Stone, asbestos, sand and gravel, talc.
Virginia	1,341,686	17	1.74	Coal, stone, lime, cement.
Washington	216,124	35	.28	Cement, coal, sand and gravel, stone.
West Virginia	3,208,068	6	4.16	Coal, natural gas, petroleum, natural gas liquids.
Wisconsin	150,128	37	.19	Sand and gravel, stone, iron ore, lime.
Wyoming	2,331,349	9	3.02	Petroleum, coal, sodium compounds, natural gas.
Total	77,086,000	--	100.00	

[1]Incomplete total.
[2]Less than 1/2 unit.

Table 5.—Value of mineral production per capita and per square mile in 1977, by State

State	Area (square miles)	1977 population (thousands)	Value of mineral production				
			Total (thousands)	Per square mile		Per capita	
				Dollars	Rank	Dollars	Rank
Alabama	51,609	3,690	$1,159,952	22,476	15	314	16
Alaska	586,412	407	1,233,519	2,104	45	3,031	2
Arizona	113,909	2,296	1,621,256	14,233	20	706	11
Arkansas	53,104	2,144	574,469	10,818	25	268	18
California	158,693	21,896	4,311,824	27,171	12	197	23
Colorado	104,247	2,619	1,397,039	13,401	21	533	13
Connecticut	5,009	3,108	43,708	8,726	30	14	47
Delaware	2,057	582	[1]2,091	1,017	50	4	50
Florida	58,560	8,452	1,618,557	27,639	11	191	24
Georgia	58,876	5,048	486,256	8,259	31	96	32
Hawaii	6,450	895	39,980	6,198	32	45	39
Idaho	83,557	857	252,670	3,024	41	295	17
Illinois	56,400	11,245	1,663,280	29,491	9	148	29
Indiana	36,291	5,330	697,558	19,221	16	130	30
Iowa	56,290	2,879	238,208	4,232	38	83	35
Kansas	82,264	2,326	1,369,497	16,648	18	589	12
Kentucky	40,395	3,458	3,217,860	79,660	3	931	8
Louisiana	48,523	3,921	10,911,885	224,881	1	2,783	3
Maine	33,215	1,085	43,225	1,301	48	40	42
Maryland	10,577	4,139	186,699	17,651	17	45	40
Massachusetts	8,257	5,782	77,268	9,358	28	13	48
Michigan	58,216	9,129	1,622,547	27,871	10	178	26
Minnesota	84,068	3,975	875,603	10,415	26	220	21
Mississippi	47,716	2,389	492,234	10,316	27	206	22
Missouri	69,686	4,801	893,372	12,820	22	186	25
Montana	147,138	761	691,188	4,698	34	908	9
Nebraska	77,227	1,561	144,029	1,865	46	92	33
Nevada	110,540	633	270,845	2,450	43	428	14
New Hampshire	9,304	849	20,701	2,225	44	24	45
New Jersey	7,836	7,329	117,060	14,939	19	16	46
New Mexico	121,666	1,190	2,910,804	23,925	13	2,446	4
New York	49,576	17,924	461,807	9,315	29	26	44
North Carolina	52,586	5,525	231,511	4,403	36	42	41
North Dakota	70,665	653	272,066	3,850	39	417	15
Ohio	41,222	10,701	1,607,454	38,995	7	150	28
Oklahoma	69,919	2,811	3,497,447	50,021	6	1,244	7
Oregon	96,981	2,376	109,132	1,125	49	46	38
Pennsylvania	45,333	11,785	3,043,964	67,147	5	258	20
Rhode Island	1,214	935	6,299	5,189	33	7	49
South Carolina	31,055	2,876	144,201	4,643	35	50	37
South Dakota	77,047	689	110,740	1,437	47	161	27
Tennessee	42,244	4,299	521,371	12,342	24	121	31
Texas	267,338	12,830	19,519,631	73,015	4	1,521	6
Utah	84,916	1,268	1,085,339	12,781	23	856	10
Vermont	9,609	485	41,454	4,314	37	85	34
Virginia	40,817	5,135	1,341,686	32,871	8	261	19
Washington	68,192	3,658	216,124	3,169	40	59	36
West Virginia	24,181	1,859	3,208,068	132,669	2	1,725	5
Wisconsin	56,154	4,651	150,128	2,675	42	32	43
Wyoming	97,914	406	2,331,349	23,810	14	5,742	1
Total[2]	3,615,055	215,642	77,086,000	21,324	XX	356	XX

XX Not applicable.

[1]Incomplete total.

[2]Excludes Washington, D.C., with an area of 67 square miles and a population of 690,000 (which had no mineral production).

Table 6.—Mineral production[1] in the United States, by State

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
ALABAMA								
Cement:								
Masonry thousand short tons	314	$11,322	262	$10,253	314	$13,671	345	$14,255
Portland do	2,190	61,990	1,968	62,599	2,134	70,365	2,351	79,302
Clays[2] do	2,995	13,298	2,231	9,077	2,239	10,325	2,677	21,984
Coal (bituminous) do	19,824	432,036	22,644	600,767	21,537	611,069	21,545	622,187
Lime do	1,054	22,346	985	29,404	1,009	32,753	1,149	39,213
Natural gas million cubic feet	27,865	20,704	37,814	32,898	41,427	40,806	57,227	84,124
Petroleum (crude) thousand 42-gallon barrels	13,323	113,808	13,477	136,541	14,706	155,437	18,252	176,540
Sand and gravel thousand short tons	12,454	19,120	9,232	17,376	12,023	20,933	14,372	35,204
Stone do	[3]23,773	[3]60,231	22,252	61,515	23,832	65,429	25,262	74,364
Value of items that cannot be disclosed: Asphalt (native), bauxite, clay (bentonite), iron ore, usable (1974-75), mica (scrap), natural gas liquids, salt, stone (dimension 1974), talc (1974-75)	XX	9,891	XX	8,543	XX	8,748	XX	12,779
Total	XX	764,746	XX	968,973	XX	1,029,536	XX	1,159,952
ALASKA								
Barite thousand short tons	20	401	2	30	--	--	--	--
Coal (bituminous) do	700	W	766	W	706	W	705	W
Gem stones	NA	57	NA	57	NA	60	NA	60
Gold (recoverable content of ores, etc.) troy ounces	9,146	1,461	14,980	2,419	22,887	2,868	18,962	2,812
Lead (recoverable content of ores, etc.) short tons	--	--	--	--	14	6	--	--
Natural gas million cubic feet	128,935	21,919	160,270	48,402	166,072	64,602	187,889	75,531
Petroleum (crude) thousand 42-gallon barrels	70,603	347,408	69,834	364,630	63,398	318,789	169,201	988,877
Sand and gravel thousand short tons	43,644	22,954	48,145	25,780	74,208	204,738	66,426	134,251
Silver (recoverable content of ores, etc.) thousand troy ounces	1	3	W	W	3	14	2	8
Stone thousand short tons	5,484	12,947	8,877	26,649	6,727	20,092	4,008	17,494
Tin metric tons	W	W	11	60	--	--	--	--
Value of items that cannot be disclosed: Copper (1974, 1977), mercury (1974), natural gas liquids, platinum-group metals (1974-76), tungsten (1977), and values indicated by W	XX	11,453	XX	12,718	XX	14,019	XX	14,486
Total	XX	418,603	XX	480,745	XX	625,188	XX	1,233,519

ARIZONA

Clays	thousand short tons	199	622	129	483	[2]28	[2]361	[2]33	[2]444
Coal (bituminous)	do	6,448	W	6,986	W	10,420	W	W	W
Copper	short tons	858,783	1,327,678	813,211	1,044,162	1,024,421	1,425,994	923,778	1,234,168
Gem stones		NA	1,500	NA	5,000	NA	4,000	NA	4,500
Gold (recoverable content of ores, etc.)	troy ounces	90,586	14,470	85,790	13,854	102,062	12,790	90,167	13,373
Gypsum	thousand short tons	141	473	117	419	139	529	187	775
Lead (recoverable content of ores, etc.)	short tons	1,059	476	420	181	338	156	318	195
Lime	thousand short tons	422	9,071	512	12,444	546	16,115	474	15,528
Mica (scrap)	do	2	82	2	65	W	W	W	W
Molybdenum (content of concentrate)	thousand pounds	28,346	57,067	25,030	61,411	31,073	89,148	34,574	120,497
Natural gas	million cubic feet	224	45	208	58	262	74	240	80
Petroleum (crude)	thousand 42-gallon barrels	740	3,885	635	3,332	519	2,724	427	2,243
Pumice	thousand short tons	846	865	856	1,294	802	1,240	621	1,226
Sand and gravel	do	23,417	41,906	17,222	36,490	[4]18,131	[4]40,184	22,313	49,946
Silver (recoverable content of ores, etc.)	thousand troy ounces	6,356	29,935	6,286	27,783	7,615	33,126	6,828	31,546
Stone	thousand short tons	4,932	11,479	3,404	11,030	4,147	13,921	5,367	16,495
Zinc (recoverable content of ores, etc.)	short tons	9,699	6,964	8,655	6,751	9,501	7,030	4,380	3,013
Value of items that cannot be disclosed: Asbestos, beryl concentrate (1976), cement, clays (ball and common, 1976-77, fire clay, 1977), feldspar, fluorspar (1976-77), helium (high purity, 1974-76), iron ore (1974-76), perlite, pyrite, salt (1975-77), sand and gravel (industrial, 1976), tungsten, and values indicated by W		XX	55,716	XX	63,666	XX	79,229	XX	127,227
Total		XX	1,562,234	XX	1,288,423	XX	1,726,621	XX	1,621,256

ARKANSAS

Bauxite	thousand long tons, dried equivalent	1,731	23,597	1,543	22,956	1,667	24,481	1,676	24,851
Clays	thousand short tons	984	1,597	995	2,232	1,047	3,396	988	5,407
Coal (bituminous)	do	455	9,673	488	16,000	534	19,310	563	21,431
Gem stones		NA	60	NA	70	NA	85	NA	85
Iron ore	thousand long tons, gross weight	4	W	([5])	14	--	--	--	--
Lime	thousand short tons	187	3,189	170	3,848	182	4,900	152	4,552
Natural gas	million cubic feet	123,975	32,234	116,237	40,334	109,533	58,052	104,096	60,896
Natural gas liquids:									
Natural gasoline and cycle products	thousand 42-gallon barrels	199	1,344	196	1,360	203	1,422	555	5,152
LP gases	do	418	2,491	407	2,377	408	2,440		
Petroleum (crude)	do	16,527	122,817	16,133	143,336	18,097	174,636	20,202	200,606
Sand and gravel	thousand short tons	14,878	29,922	12,415	25,794	[4]14,736	[4]25,848	16,110	36,091
Stone	do	20,381	38,905	17,419	38,796	[3]17,701	[3]39,713	18,323	45,816

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974 Quantity	1974 Value (thousands)	1975 Quantity	1975 Value (thousands)	1976 Quantity	1976 Value (thousands)	1977 Quantity	1977 Value (thousands)
ARKANSAS—Continued								
Value of items that cannot be disclosed: Abrasive stones, barite, bromine, cement, gypsum, phosphate rock (1975-76), sand and gravel (industrial, 1976), stone (dimension, 1976), soapstone, tripoli, vanadium, and values indicated by W	XX	$140,589	XX	$139,324	XX	r$182,744	XX	$169,582
Total	XX	406,418	XX	436,441	XX	r537,027	XX	574,469
CALIFORNIA								
Asbestos—short tons	58,331	5,697	W	W	78,390	15,706	76,247	18,372
Barite—thousand short tons	4	W	1	W	—	—	—	—
Boron minerals—do.	1,185	128,306	1,172	158,772	1,246	184,852	1,469	236,163
Cement—do.	8,264	210,520	7,327	232,584	7,897	293,693	9,271	406,185
Clays—do.	2,497	7,626	2,387	7,373	2,295	13,570	2,655	12,179
Copper (recoverable content of ores, etc.)—short tons	194	300	344	441	375	522	221	295
Diatomite—do.	W	W	354	31,186	386	37,372	397	43,405
Gem stones	NA	220	NA	220	NA	231	NA	230
Gold (recoverable content of ores, etc.)—troy ounces	5,049	807	9,606	1,551	10,392	1,302	5,704	846
Gypsum—thousand short tons	1,716	6,642	1,446	6,332	1,647	7,897	1,629	8,500
Lead (recoverable content of ores, etc.)—short tons	35	16	66	28	54	25	3	2
Lime—thousand short tons	600	14,877	595	18,626	638	23,324	598	24,074
Magnesium compounds from seawater and bitterns (partly estimated) short tons, MgO content	163,847	18,356	W	W	W	W	W	W
Mercury—76-pound flasks	1,311	370	W	W	296	36	W	W
Natural gas—million cubic feet	365,354	160,756	318,308	222,816	354,334	333,074	311,462	364,099
Natural gas liquids:								
Natural gasoline and cycle products—thousand 42-gallon barrels	5,709	26,104	4,847	29,543	4,626	31,655	8,117	61,873
LP gases—do.	5,095	29,296	4,481	20,568	4,151	25,487		
Peat—thousand short tons	14	322	W	W	W	W	W	W
Petroleum (crude)—thousand 42-gallon barrels	323,003	1,710,350	322,199	1,943,048	326,021	2,005,577	349,609	2,555,965
Pumice—thousand short tons	909	3,219	348	2,762	705	3,245	636	3,838
Rare-earth metal concentrates—short tons	34,284	15,798	W	W	W	W	W	W
Sand and gravel—thousand short tons	105,191	176,213	88,445	168,248	96,592	202,272	109,135	250,951
Silver (recoverable content of ores, etc.)—thousand troy ounces	42	197	80	353	57	249	58	267
Stone—thousand short tons	45,709	91,891	33,152	72,740	32,377	75,352	34,037	81,142
Talc, soapstone, pyrophyllite—short tons	163,841	1,676	152,978	1,598	56,871	1,513	95,602	2,373

Zinc (recoverable content of ores, etc.) ---------- do----	8	6	206	161	170	126	2	1
Value of items that cannot be disclosed: Bromine (1974-75), calcium-magnesium chloride, carbon dioxide, cement (masonry, 1977), clays (ball and kaolin, 1975), feldspar, iron ore, lithium minerals, molybdenum, perlite, phosphate rock (1976-77), potassium salts, salt, sodium carbonate and sulfate, tungsten concentrate, and values indicated by W --------	XX	187,684	XX	233,987	XX	226,293	XX	241,064
Total ----------	XX	2,797,249	XX	3,152,937	XX	3,483,373	XX	4,311,824
COLORADO								
Carbon dioxide ---------- thousand cubic feet--	123,106	W	229,382	W	317,720	W	W	W
Clays ---------- thousand short tons--	663	1,588	480	1,101	[2]479	[2]1,976	[2]961	[2]4,712
Coal (bituminous) ---------- do----	6,896	64,677	8,219	135,872	9,437	144,364	11,989	201,289
Copper (recoverable content of ores, etc.) ---------- short tons--	3,012	4,657	3,560	4,571	2,431	3,384	1,896	2,533
Gem stones ----------	NA	135	NA	145	NA	142	NA	100
Gold (recoverable content of ores, etc.) ---------- troy ounces--	52,083	8,320	55,483	8,960	50,764	6,362	72,668	10,777
Gypsum ---------- thousand short tons--	191	800	185	782	215	984	211	1,121
Lead (recoverable content of ore, etc.) ---------- short tons--	24,609	11,074	27,088	11,648	26,749	12,358	22,994	14,118
Lime ---------- thousand short tons--	198	3,815	198	4,577	185	4,406	180	5,413
Natural gas ---------- million cubic feet--	144,629	28,926	171,629	44,624	183,972	88,307	188,792	152,922
Natural gas liquids:								
Natural gasoline and cycle products -- thousand 42-gallon barrels--	1,574	9,319	1,742	9,378	1,904	13,403	9,381	67,066
LP gases ---------- do----	2,580	14,190	4,821	22,803	6,505	38,249		
Peat ---------- thousand short tons--	30	201	37	280	33	238	32	195
Petroleum (crude) ---------- thousand 42-gallon barrels--	37,508	283,904	38,089	365,654	38,992	376,273	39,460	398,457
Sand and gravel ---------- thousand short tons--	23,793	39,674	20,019	34,850	[4]20,160	[4]32,900	[4]23,910	[4]50,527
Silver (recoverable content of ores, etc.) ---------- thousand troy ounces--	2,784	13,113	3,366	14,878	4,083	17,762	4,663	21,545
Stone ---------- thousand short tons--	6,572	15,109	5,315	10,940	5,294	12,555	5,602	14,350
Zinc (recoverable content of ores, etc.) ---------- short tons--	49,489	35,533	48,460	37,799	50,621	37,460	40,267	27,704
Value of items that cannot be disclosed: Cement, clay (bentonite, 1976-77), feldspar, fluorspar (1974), iron ore, molybdenum, perlite, pumice, pyrites, salt, sand and gravel (industrial, 1976-77), tin, tungsten, uranium, vanadium, and values indicated by W ----------	XX	215,264	XX	249,211	XX	319,043	XX	424,210
Total ----------	XX	750,299	XX	958,073	XX	1,110,166	XX	1,397,039
CONNECTICUT								
Clays ---------- thousand short tons--	156	363	116	307	130	427	95	250
Gem stones ----------	NA	15	NA	W	NA	W	NA	W
Lime ---------- thousand short tons--	33	1,148	23	1,013	24	1,103	29	1,412
Mica, scrap ---------- do----	2	W	W	W	W	W	W	W
Sand and gravel ---------- do----	6,345	11,272	4,900	10,040	6,414	12,978	[4]8,543	[4]18,316

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
CONNECTICUT—Continued								
Stone thousand short tons	8,457	$21,134	7,322	$20,117	6,016	$17,598	6,989	$20,559
Value of items that cannot be disclosed: Feldspar, mica (sheet, 1974), sand and gravel (industrial, 1977), and values indicated by W	XX	1,430	XX	1,533	XX	2,212	XX	3,171
Total	XX	35,362	XX	33,010	XX	34,318	XX	43,708
DELAWARE								
Clays thousand short tons	14	8	9	6	11	8	11	7
Gem stones	NA	2	NA	W	NA	W	NA	W
Sand and gravel thousand short tons	2,396	3,783	976	1,900	1,117	1,829	1,351	2,084
Value of items that cannot be disclosed: Other nonmetals and values indicated by W	XX	W	XX	W	XX	W	XX	W
Total	XX	[6]3,793	XX	[6]1,906	XX	[6]1,837	XX	[6]2,091
FLORIDA								
Cement:								
Masonry thousand short tons	235	4,737	W	W	W	W	W	W
Portland do	2,562	75,133	1,721	62,525	1,949	67,832	2,540	87,561
Clays do	[2]808	[2]14,261	712	17,063	680	20,672	581	[2]22,313
Lime do	185	5,315	199	7,708	179	7,798	165	7,350
Natural gas million cubic feet	38,137	20,441	44,383	43,185	43,165	42,388	48,171	52,458
Peat thousand short tons	67	616	82	1,037	79	1,287	125	1,396
Petroleum thousand 42-gallon barrels	36,351	351,331	41,877	490,258	44,460	499,573	46,641	544,254
Sand and gravel thousand short tons	24,372	33,400	13,237	20,199	13,204	19,164	20,218	38,989
Stone[3] do	54,560	100,378	39,071	73,372	38,606	74,412	48,558	101,435
Titanium concentrates (rutile) short tons	6,446	996	W	W	W	W	W	W
Value of items that cannot be disclosed: Clay (kaolin, 1974, 1976-77), magnesium compounds, natural gas liquids, phosphate rock, rare-earth metal concentrate, staurolite, stone (dimension), titanium concentrate (ilmenite), zircon concentrate, and values indicated by W	XX	437,287	XX	1,060,153	XX	919,106	XX	762,801
Total	XX	1,043,895	XX	1,775,500	XX	1,652,232	XX	1,618,557

GEORGIA								
Cement:								
Masonry — thousand short tons	40	1,304	W	W	W	W	W	W
Portland — do	1,150	31,535	828	25,822	930	30,085	1,192	37,711
Clays — do	[2]7,692	[2]203,936	6,156	195,300	7,471	273,145	7,554	288,223
Coal (bituminous) — do	--	--	W	W	186	6,152	W	W
Peat — do	1	6	([5])	5	W	W	W	W
Sand and gravel — do	4,989	9,639	5,105	8,818	4,835	8,387	5,141	13,207
Stone — do	40,321	105,582	30,084	91,157	31,855	98,806	38,105	119,852
Talc — short tons	33,850	102	27,400	82	W	W	23,540	63
Value of items that cannot be disclosed: Barite, bauxite, fire clay (1974), feldspar, iron ore, kyanite, mica (scrap), rare-earth metal concentrate (1974), titanium concentrate (1974), zircon concentrate (1974), and values indicated by W	XX	10,996	XX	12,203	XX	11,904	XX	27,200
Total	XX	363,100	XX	333,387	XX	428,479	XX	486,256
HAWAII								
Cement:								
Masonry — thousand short tons	14	706	13	762	11	663	10	607
Portland — do	487	16,405	456	19,942	328	17,747	320	16,315
Gem stones	NA	W	NA	W	NA	W	NA	W
Lime — thousand short tons	6	221	6	250	W	W	W	W
Pumice, pumicite, volcanic ash — do	385	792	318	912	330	636	260	574
Sand and gravel — do	990	2,379	671	2,460	573	1,634	771	2,452
Stone — do	[3]7,638	[3]21,370	7,569	25,319	[3]6,092	[3]21,193	5,758	19,880
Value of items that cannot be disclosed: Clays, stone (dimension, 1974, 1976), and values indicated by W	XX	169	XX	65	XX	379	XX	152
Total	XX	42,042	XX	49,710	XX	42,252	XX	39,980
IDAHO								
Antimony ore and concentrate — short tons, antimony content	445	W	W	W	133	282	446	W
Clays — thousand short tons	[2]9	[2]10	30	284	W	W	W	W
Copper (recoverable content of ores, etc.) — short tons	2,841	4,398	3,192	4,099	3,362	4,680	4,052	5,413
Gem stones	NA	120	NA	120	NA	126	NA	100
Gold (recoverable content of ores, etc.) — troy ounces	2,898	463	2,529	408	2,755	345	12,894	1,912
Lead (recoverable content of ores, etc.) — short tons	51,717	23,273	50,395	21,670	53,636	24,780	47,258	29,016
Pumice — thousand short tons	108	182	111	187	W	W	W	W
Sand and gravel — do	7,665	10,484	6,881	12,768	[4]6,549	[4]11,504	[4]7,750	[4]15,282

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
IDAHO—Continued								
Silver (recoverable content of ores, etc.) thousand troy ounces	12,436	$58,572	13,868	$61,297	11,561	$50,292	15,292	$70,649
Stone thousand short tons	3,528	9,868	3,316	8,952	[3]3,462	[3]9,122	[3]3,077	[3]8,005
Zinc (recoverable content of ores, etc.) short tons	39,469	28,339	40,926	31,922	46,586	34,473	30,998	21,327
Value of items that cannot be disclosed: Barite, cement, clays (selected, 1974, 1976-77), garnet (abrasive), gypsum, iron ore (1974-75), lime, perlite, phosphate rock, sand and gravel (industrial, 1976-77), stone (dimension, 1976-77), tungsten concentrate, vanadium, and values indicated by W	XX	72,854	XX	92,081	XX	74,642	XX	100,966
Total	XX	208,558	XX	233,788	XX	210,246	XX	252,670
ILLINOIS								
Cement:								
Masonry thousand short tons	69	3,228	W	W	W	W	W	W
Portland do	1,460	41,023	1,374	42,756	1,632	53,524	1,823	61,849
Clays[2] do	1,587	3,744	1,366	3,249	1,309	3,272	951	5,117
Coal (bituminous) do	58,215	582,010	59,537	871,377	58,239	925,968	53,493	924,506
Fluorspar short tons	151,898	12,247	99,898	8,957	142,666	14,563	131,218	13,941
Gem stones	NA	2	NA	2	NA	2	NA	2
Lead (recoverable content of ores, etc.) short tons	493	222	W	W	W	W	W	W
Natural gas million cubic feet	1,436	574	1,440	1,008	1,556	1,533	1,003	1,204
Peat thousand short tons	96	1,412	96	1,511	87	763	82	1,478
Petroleum (crude) thousand 42-gallon barrels	27,553	244,395	26,067	273,182	26,272	267,449	25,608	314,293
Sand and gravel thousand short tons	42,705	68,566	39,000	83,515	38,784	87,152	37,633	101,230
Stone do	63,231	121,763	60,640	130,104	61,862	141,543	57,077	136,073
Zinc (recoverable content of ores, etc.) short tons	4,104	2,947	W	W	W	W	W	W
Value of items that cannot be disclosed: Barite, clay (fuller's earth), copper (1974), lime, natural gas liquids, silver, tripoli, and values indicated by W	XX	65,517	XX	74,937	XX	85,396	XX	103,587
Total	XX	1,147,650	XX	1,490,598	XX	1,581,165	XX	1,663,280
INDIANA								
Cement:								
Masonry thousand short tons	W	W	343	12,263	396	14,270	W	W
Portland do	W	W	2,185	63,077	2,490	73,432	W	W

Clays	do	1,092	1,947	1,094	1,961	1,265	2,308	1,268	2,237
Coal (bituminous)	do	23,726	198,410	25,124	280,130	25,369	312,990	27,797	384,493
Natural gas	million cubic feet	176	25	346	135	192	100	183	126
Peat	thousand short tons	71	946	76	1,918	r66	r829	51	759
Petroleum (crude)	thousand 42-gallon barrels	4,919	42,402	4,632	48,821	4,630	50,421	5,314	66,212
Sand and gravel	thousand short tons	26,077	35,656	21,641	35,234	25,884	45,521	26,248	50,089
Stone	do	3 31,031	3 64,106	28,947	68,850	28,450	72,205	26,984	73,196
Value of items that cannot be disclosed: Abrasive stone, gypsum, lime, sandstone (1974), and values indicated by W		XX	97,198	XX	r29,211	XX	34,358	XX	120,446
Total		XX	440,690	XX	541,600	XX	r606,434	XX	697,558
IOWA									
Cement:									
Masonry	thousand short tons	65	2,660	62	2,988	76	4,143	86	5,052
Portland	do	2,424	64,156	2,258	73,786	2,488	86,107	2,645	99,383
Clays	do	960	1,869	959	1,916	1,017	2,245	883	2,461
Coal (bituminous)	do	590	4,591	622	6,891	616	8,351	513	6,518
Gem stones		NA	W	NA	W	NA	1	NA	1
Gypsum	thousand short tons	1,397	7,142	1,208	6,546	1,486	8,288	1,593	10,035
Sand and gravel	do	17,091	26,104	15,410	26,844	4 15,206	4 26,277	4 16,600	4 33,290
Stone	do	32,342	66,119	30,336	73,782	3 30,272	3 75,921	3 29,183	3 76,964
Value of items that cannot be disclosed: Lime, peat, sand and gravel (industrial, 1976-77), stone (dimension, 1976-77), and values indicated by W		XX	4,079	XX	3,092	XX	4,694	XX	4,504
Total		XX	176,720	XX	195,740	XX	216,027	XX	238,208
KANSAS									
Cement:									
Masonry	thousand short tons	64	2,208	57	2,811	72	3,281	79	3,742
Portland	do	1,940	46,940	1,832	55,033	2,005	66,478	2,020	72,815
Clays	do	1,311	1,785	1,178	1,604	2 1,064	2 1,869	2 1,117	2 1,965
Coal (bituminous)	do	718	5,463	479	9,481	590	11,473	897	16,983
Helium (high-purity)	million cubic feet	499	11,477	497	11,928	503	11,066	W	W
Lime	thousand short tons	28	585	W	W	W	W	15	409
Natural gas	million cubic feet	886,782	147,206	843,625	145,103	829,170	348,251	781,289	378,925

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974 Quantity	1974 Value (thousands)	1975 Quantity	1975 Value (thousands)	1976 Quantity	1976 Value (thousands)	1977 Quantity	1977 Value (thousands)
KANSAS—Continued								
Natural gas liquids:								
Natural gasoline ____ thousand 42-gallon barrels	6,630	$24,810	6,295	$25,062	6,434	$31,017	31,022	$190,811
LP gases ____ do	24,402	78,818	23,563	71,632	23,767	83,422	57,496	574,960
Petroleum (crude) ____ do	61,691	490,984	59,106	561,508	58,714	557,783	1,430	41,154
Salt[7] ____ thousand short tons	1,367	27,007	1,446	31,214	1,310	35,291	[4]13,973	[4]23,299
Sand and gravel ____ do	11,687	13,388	10,866	13,467	[4]12,291	[4]14,940	[3]17,229	[3]41,807
Stone ____ do	[3]17,869	34,869	15,907	35,850	[3]16,348	[3]38,228		
Value of items that cannot be disclosed: Clays (bentonite, 1976-77), diatomite (1974-76), gypsum, helium (crude), pumice (1974-75), salt (brine), sand and gravel (industrial, 1976-77), stone (dimension, 1976-77), and values indicated by W ____	XX	3,913	XX	6,418	XX	10,749	XX	22,627
Total ____	XX	889,398	XX	970,611	XX	1,213,848	XX	1,369,497
KENTUCKY								
Clays[2] ____ thousand short tons	848	1,477	778	1,483	754	2,395	716	2,500
Coal (bituminous) ____ do	137,197	2,340,961	143,613	2,499,295	143,972	2,848,690	146,262	2,928,678
Natural gas ____ million cubic feet	71,876	35,938	60,511	32,676	66,137	36,375	60,902	33,496
Petroleum (crude) ____ thousand 42-gallon barrels	7,837	68,340	7,556	84,520	7,483	85,454	6,581	85,659
Sand and gravel ____ thousand short tons	8,710	12,887	8,924	14,466	9,154	15,271	9,764	19,686
Stone ____ do	35,452	66,632	31,734	67,906	33,378	77,060	36,096	88,941
Zinc (recoverable content of ores, etc.) ____ short tons	--	--	41	32	59	44	--	--
Value of items that cannot be disclosed: Cement, clay (ball), fluorspar, lead (1975), lime, and natural gas liquids ____	XX	36,975	XX	38,481	XX	49,300	XX	58,900
Total ____	XX	2,563,210	XX	2,738,859	XX	3,114,589	XX	3,217,860
LOUISIANA								
Clays ____ thousand short tons	770	1,425	531	1,132	513	1,158	401	785
Lime ____ do	796	17,665	485	12,484	W	W	W	W
Natural gas ____ million cubic feet	7,753,631	2,380,365	7,090,645	2,999,179	7,006,596	3,223,034	7,215,006	5,068,295
Natural gas liquids:								
Natural gasoline and cycle products ____ thousand 42-gallon barrels	35,860	234,954	31,808	178,930	27,078	151,683	117,763	804,183
LP gases ____ do	108,439	423,996	103,714	392,039	91,701	375,057		

Petroleum (crude) ---------- do	737,324	4,811,772	650,840	4,611,879	606,501	4,556,761	562,905	4,689,122
Salt ---------- thousand short tons	13,543	76,960	12,166	77,116	13,491	91,952	13,201	96,878
Sand and gravel ---------- do	12,341	27,781	14,587	35,990	22,528	51,293	21,987	50,790
Stone ---------- do	[3]10,940	[3]24,046	10,489	38,260	9,685	28,127	9,710	26,920
Sulfur (Frasch process) ---------- thousand long tons	3,426	W	2,672	W	2,445	W	2,455	W
Value of items that cannot be disclosed: Cement, gypsum, stone (miscellaneous, 1974), and values indicated by W ----------	XX	147,614	XX	166,266	XX	173,042	XX	174,912
Total ----------	XX	8,146,578	XX	8,513,275	XX	8,652,107	XX	10,911,885
MAINE								
Clays ---------- thousand short tons	146	183	125	202	134	216	98	160
Copper ---------- short tons	1,522	2,353	2,024	2,599	1,766	2,459	1,337	1,787
Gem stones ----------	NA	W	NA	W	NA	1,105	NA	W
Lead (recoverable content of ores, etc.) ---------- short tons	279	126	364	157	216	100	178	109
Peat ---------- thousand short tons	4	194	4	207	5	173	5	80
Sand and gravel ---------- do	8,755	10,673	9,875	11,403	[4]10,312	[4]13,950	10,487	19,023
Stone ---------- do	1,491	4,255	[3]1,253	[3]3,741	1,443	4,609	1,312	4,110
Zinc (recoverable content of ores, etc.) ---------- short tons	10,425	7,485	8,318	6,488	7,810	5,779	7,269	5,001
Value of items that cannot be disclosed: Cement, feldspar (1976-77), sand and gravel (industrial, 1976), silver (1974-76), stone (dimension, 1975), and values indicated by W ----------	XX	11,079	XX	11,944	XX	11,973	XX	12,955
Total ----------	XX	36,348	XX	36,741	XX	40,364	XX	43,225
MARYLAND								
Clays[2] ---------- thousand short tons	884	2,066	580	1,450	702	1,817	893	2,344
Coal (bituminous) ---------- do	2,337	48,630	2,606	50,502	2,830	61,974	3,036	53,676
Gem stones ----------	NA	8	NA	W	NA	W	NA	W
Lime ---------- thousand short tons	23	527	15	434	16	494	W	W
Natural gas ---------- million cubic feet	133	32	93	25	75	24	82	32
Peat ---------- thousand short tons	3	45	2	39	2	W	3	W
Sand and gravel ---------- do	11,690	29,386	11,786	29,477	12,942	31,914	11,702	29,562
Stone ---------- do	18,072	47,630	14,796	43,110	15,709	47,669	16,766	50,680
Value of items that cannot be disclosed: Cement, clay (ball), talc and soapstone (1974), and items indicated by W ----------	XX	44,556	XX	39,882	XX	41,026	XX	50,405
Total ----------	XX	172,880	XX	164,919	XX	184,918	XX	186,699
MASSACHUSETTS								
Clays ---------- thousand short tons	218	379	124	228	126	238	149	275
Gem stones ----------	NA	5	NA	W	NA	W	NA	W

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974 Quantity	1974 Value (thousands)	1975 Quantity	1975 Value (thousands)	1976 Quantity	1976 Value (thousands)	1977 Quantity	1977 Value (thousands)
MASSACHUSETTS—Continued								
Lime thousand short tons	170	$4,972	152	$5,215	178	$6,354	W	W
Peat do	3	85	W	W	W	W	2	W
Sand and gravel do	17,334	26,565	13,281	24,556	16,084	29,666	16,639	$34,346
Stone do	8,103	30,103	7,170	28,681	7,937	33,502	8,093	35,357
Value of items that cannot be disclosed: Nonmetals and values indicated by W	XX	--	XX	166	XX	90	XX	7,290
Total	XX	62,109	XX	58,846	XX	69,850	XX	77,268
MICHIGAN								
Cement:								
Masonry thousand short tons	217	6,309	183	6,429	218	8,370	246	9,761
Portland do	5,903	140,513	4,573	131,324	4,931	145,381	5,582	166,803
Clays do	2,161	4,074	1,818	3,580	1,934	4,741	2,007	5,126
Copper (recoverable content of ores, etc.) short tons	67,012	103,601	73,690	94,618	43,707	60,840	42,375	56,613
Gem stones	NA	8	NA	8	NA	10	NA	12
Gypsum thousand short tons	1,482	7,258	1,224	5,936	1,837	9,842	1,924	8,778
Iron ore (usable) thousand long tons, gross weight	11,602	213,598	14,089	339,113	16,245	441,206	12,009	356,227
Lime thousand short tons	1,528	30,036	1,434	36,540	1,456	39,686	1,347	42,015
Magnesium compounds from seawater and brine (except for metal) short tons, MgO equivalent	503,281	53,302	W	W	W	W	W	W
Natural gas million cubic feet	69,133	34,843	102,113	64,740	119,262	106,739	129,954	131,254
Natural gas liquids:								
Natural gasoline thousand 42-gallon barrels	466	3,089	656	3,294	3,504	19,725	7,919	73,675
LP gases do	849	5,383	1,348	5,945	1,215	6,306		
Peat thousand short tons	244	3,811	245	3,206	r280	r3,397	226	3,917
Petroleum (crude) thousand 42-gallon barrels	18,021	154,746	24,420	262,352	30,421	329,637	32,965	362,722
Salt thousand short tons	4,445	62,055	4,020	68,353	4,219	79,740	3,939	78,808
Sand and gravel do	60,027	82,617	47,051	73,397	47,403	78,455	46,486	101,542
Silver (recoverable content of ores, etc.) thousand troy ounces	643	3,028	632	2,795	311	1,352	335	1,550
Stone thousand short tons	47,479	72,748	39,946	73,800	41,485	82,331	40,525	85,118
Value of items that cannot be disclosed: Bromine, calcium-chloride, iodine, and values indicated by W	XX	54,411	XX	116,223	XX	r128,557	XX	138,626
Total	XX	1,035,430	XX	1,291,653	XX	r1,546,315	XX	1,622,547

MINNESOTA

Clays	thousand short tons	W	W	W	W	W	W	[2]163	[2]276
Gem stones		NA	14	NA	14	NA	15	NA	15
Iron ore (usable)	thousand long tons, gross weight	59,422	949,678	49,167	1,015,272	47,874	1,137,733	30,245	782,627
Lime	short tons	W	W	W	W	103,389	2,794	122,860	4,315
Manganiferous ore (5% to 35% Mn)	short tons, gross weight	225,560	W	108,749	W	202,271	W	166,440	W
Peat	thousand short tons	20	471	13	230	26	1,505	28	1,280
Sand and gravel	do.	36,720	42,370	33,398	45,214	[4]33,486	[4]44,503	30,713	59,629
Stone	do.	8,301	22,041	6,854	23,302	7,567	25,767	7,865	25,124
Value of items that cannot be disclosed: Abrasive stones, cement (1974-75), clay (kaolin, 1977), sand and gravel (industrial, 1976), and values indicated by W		XX	11,792	XX	13,056	XX	5,713	XX	2,337
Total		XX	1,026,366	XX	1,097,088	XX	1,218,030	XX	875,603

MISSISSIPPI

Clays	thousand short tons	2,013	10,468	1,592	10,605	[2]1,487	[2]8,849	[2]1,483	[2]8,841
Lime	do.	70	1,393	53	1,060	57	1,248	49	1,079
Natural gas	million cubic feet	78,787	23,242	74,345	36,875	70,762	50,241	82,995	60,589
Petroleum (crude)	thousand 42-gallon barrels	50,779	309,753	46,614	310,346	46,072	328,957	43,022	352,844
Sand and gravel	thousand short tons	14,939	19,487	14,372	23,098	[4]12,033	[4]20,394	[4]13,353	[4]25,375
Stone	do.	1,719	2,572	1,629	2,730	1,762	2,968	2,176	3,933
Value of items that cannot be disclosed: Cement, clays (selected, 1976-77), magnesium compounds, natural gas liquids, and sand and gravel (industrial, 1976-77)		XX	24,240	XX	25,295	XX	37,205	XX	39,573
Total		XX	391,155	XX	410,009	XX	449,862	XX	492,234

MISSOURI

Barite	thousand short tons	177	3,386	171	3,989	124	3,860	117	4,061
Cement:									
Masonry	do.	75	2,434	65	2,110	76	2,718	82	3,286
Portland	do.	4,229	106,985	3,962	116,260	4,353	142,976	4,654	155,945
Clays[2]	do.	2,565	13,151	2,168	13,214	2,133	14,915	2,373	16,892
Coal (bituminous)	do.	4,623	29,383	5,638	48,054	6,075	56,934	6,366	66,089
Copper (recoverable content of ores, etc.)	short tons	12,665	19,580	14,258	18,308	11,050	15,382	11,737	15,681

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
MISSOURI—Continued								
Iron ore (usable)—thousand long tons, gross weight	1,866	W	2,273	W	2,133	W	W	W
Lead (recoverable content of ores, etc.)—short tons	562,097	$252,944	515,958	$221,862	500,991	$231,458	500,255	$307,156
Lime—thousand short tons	1,901	36,369	1,606	40,630	1,731	49,907	1,723	51,529
Natural gas—million cubic feet	33	10	30	10	29	10	20	8
Petroleum (crude)—thousand 42-gallon barrels	56	W	57	W	61	W	W	W
Phosphate rock—thousand short tons	35	W	35	W	W	W	W	W
Sand and gravel—do	10,933	19,462	9,752	18,216	15,375	26,550	14,002	31,473
Silver (recoverable content of ores, etc.)—thousand troy ounces	2,387	11,244	2,525	11,161	2,277	9,905	2,363	10,916
Stone—thousand short tons	50,626	90,204	46,988	95,535	47,546	98,327	49,615	105,297
Zinc (recoverable content of ores, etc.)—short tons	91,987	66,047	74,867	58,396	83,530	61,812	81,689	56,203
Value of items that cannot be disclosed: Asphalt (native), clays (selected, 1974-75, 1977), and values indicated by W	XX	39,850	XX	74,983	XX	70,406	XX	68,836
Total	XX	691,049	XX	722,728	XX	785,160	XX	893,372
MONTANA								
Antimony—short tons	W	W	273	813	150	318	164	663
Clays—thousand short tons	298	2,189	223	[2]1,878	192	W	224	3,557
Coal (bituminous and lignite)—do	14,106	54,961	22,054	111,579	26,231	128,534	27,226	161,567
Copper (recoverable content of ores, etc.)—short tons	131,131	202,728	87,959	112,940	91,111	126,827	86,203	115,167
Gem stones	NA	400	NA	400	NA	170	NA	100
Gold (recoverable content of ores, etc.)—troy ounces	28,268	4,516	17,259	2,787	24,075	3,017	22,348	3,314
Iron ore (usable)—thousand long tons, gross weight	30	W	18	W	18	W	W	W
Lead (recoverable content of ores, etc.)—short tons	154	69	205	88	92	43	106	65
Lime—thousand short tons	226	3,364	221	5,188	224	5,980	223	7,705
Natural gas—million cubic feet	54,873	13,883	40,734	17,638	42,563	18,941	46,819	33,663
Peat—thousand short tons	W	W	1	51	W	W	W	W
Petroleum (crude)—thousand 42-gallon barrels	34,554	229,802	32,844	257,169	32,814	276,419	32,680	280,470
Pumice—thousand short tons	—	—	—	—	5	8	5	7
Sand and gravel—do	4,242	6,126	4,127	6,963	4,786	7,336	4,867	10,421
Silver (recoverable content of ores, etc.)—thousand troy ounces	3,512	16,542	2,617	11,565	3,279	14,262	3,367	15,558
Stone—thousand short tons	[3]3,115	[3]6,242	[3]3,130	[3]6,753	3,468	7,994	3,683	8,037
Talc—do	W	W	W	W	225	2,960	226	2,947
Zinc (recoverable content of ores, etc.)—short tons	136	98	110	86	64	47	79	54

Value of items that cannot be disclosed: Barite (1975-77), cement, clays (selected, 1975), fluorspar, gypsum, natural gas liquids, phosphate rock, stone (dimension, 1974-75), tungsten ore and concentrate, vermiculite, and values indicated by W	XX	33,881	XX	37,252	XX	43,433	XX	47,893
Total	XX	574,801	XX	573,150	XX	636,289	XX	691,188
NEBRASKA								
Clays thousand short tons	182	414	195	416	149	345	161	368
Gem stones	NA	11	NA	11	NA	11	NA	11
Lime thousand short tons	36	591	W	W	W	W	W	W
Natural gas million cubic feet	2,538	863	2,565	1,388	2,511	1,288	2,789	1,818
Petroleum (crude) thousand 42-gallon barrels	6,611	45,167	6,120	55,133	6,182	55,551	5,968	62,425
Sand and gravel thousand short tons	13,231	17,727	11,759	16,901	[4]14,230	[4]21,483	[4]16,848	[4]30,566
Stone do	4,630	10,364	4,242	10,322	4,101	11,054	4,128	12,974
Value of items that cannot be disclosed: Cement, natural gas liquids, sand and gravel (industrial, 1976-77), and values indicated by W	XX	23,497	XX	27,734	XX	33,633	XX	35,867
Total	XX	98,634	XX	111,905	XX	123,365	XX	144,029
NEVADA								
Barite thousand short tons	761	8,115	947	11,533	900	18,379	1,158	18,329
Clays do	39	218	[2]5	[2]136	[2]7	[2]174	[2]10	[2]158
Copper (recoverable content of ores, etc.) short tons	84,101	130,021	81,210	104,274	58,160	80,958	67,061	89,593
Gem stones	NA	400	NA	2,814	NA	1,300	NA	1,000
Gold (recoverable content of ores, etc.) troy ounces	298,754	47,723	332,814	53,746	287,962	36,087	324,003	48,053
Gypsum thousand short tons	843	2,959	558	2,375	792	3,884	1,242	6,834
Iron ore (usable) thousand long tons, gross weight	139	W	109	1,017	W	W	W	W
Lead (recoverable content of ores, etc.) short tons	1,785	803	2,976	1,280	582	269	743	456
Mercury 76-pound flasks	W	W	W	W	22,837	2,770	W	W
Petroleum (crude) thousand 42-gallon barrels	129	W	115	W	143	W	W	W
Pumice thousand short tons	W	W	W	W	388	763	656	1,154
Sand and gravel do	8,736	14,515	8,056	16,848	9,671	20,106	10,185	21,172
Silver (recoverable content of ores, etc.) thousand troy ounces	872	4,108	1,609	7,111	784	3,410	738	3,411
Stone thousand short tons	2,186	4,203	[3]1,829	[3]4,524	[3]1,904	[3]5,975	1,668	5,506
Tungsten ore and concentrate thousand pounds contained W	132	537	33	152	99	561	263	1,687
Zinc (recoverable content of ores, etc.) short tons	3,405	2,445	5,496	4,287	1,438	1,064	1,672	1,150
Value of items that cannot be disclosed: Antimony (1974), cement, clays (selected, 1975-77), diatomite, fluorspar, lime, lithium minerals, magnesite, molybdenum, perlite, salt, stone (dimension, 1975-76), talc, and values indicated by W	XX	41,829	XX	48,820	XX	57,983	XX	72,342
Total	XX	257,876	XX	258,917	XX	233,683	XX	270,845

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
NEW HAMPSHIRE								
Clays thousand short tons	34	$55	W	W	W	W	W	W
Gem stones	NA	42	NA	W	NA	W	NA	W
Sand and gravel thousand short tons	6,126	8,223	5,150	$9,077	[4]6,180	[4]$10,409	6,835	$13,888
Stone do	590	5,371	1,519	7,938	742	7,032	792	6,686
Value of items that cannot be disclosed	--	--	XX	92	XX	138	XX	127
Total	XX	13,691	XX	17,107	XX	17,579	XX	20,701
NEW JERSEY								
Clays thousand short tons	104	524	67	372	61	331	68	374
Gem stones	NA	16	NA	16	NA	17	NA	17
Peat thousand short tons	31	603	29	686	22	568	30	769
Sand and gravel do	17,924	47,292	13,012	39,640	12,420	39,439	9,697	29,327
Stone[3] do	15,749	52,456	11,821	42,381	11,234	39,012	12,993	46,621
Zinc (recoverable content of ores, etc.) short tons	32,848	23,585	31,105	24,262	33,767	24,987	33,464	23,024
Value of items that cannot be disclosed: Iron ore (1977), lime (1976-77), magnesium compounds, manganiferous residuum (1974-76), greensand marl, stone (dimension), and titanium concentrate	XX	16,272	XX	16,345	XX	15,532	XX	16,928
Total	XX	140,748	XX	123,702	XX	119,886	XX	117,060
NEW MEXICO								
Carbon dioxide million cubic feet	W	W	569,352	60	856,548	80	W	W
Clays[2] thousand short tons	55	317	44	61	56	116	69	113
Coal (bituminous) do	9,392	W	8,785	W	9,760	W	11,083	87,952
Copper (recoverable content of ores, etc.) short tons	196,585	303,920	146,263	187,802	172,360	239,925	164,698	220,037
Gem stones	NA	200	NA	200	NA	210	NA	170
Gold (recoverable content of ores) troy ounces	15,427	2,464	15,049	2,430	15,198	1,905	13,560	2,011
Gypsum thousand short tons	157	532	W	W	W	W	182	1,227
Helium (high-purity) million cubic feet	--	--	W	W	W	W	W	W
Iron ore (usable) thousand long tons, gross weight	6	135	W	W	--	--	--	--
Lead (recoverable content of ores, etc.) short tons	2,364	1,064	1,931	830	W	W	W	W
Lime thousand short tons	58	1,679	W	W	W	W	W	W
Manganiferous ore (5% to 35% Mn) short tons, gross weight	47,348	W	49,976	W	45,362	W	29,120	W

Mica, scrap ---------- thousand short tons	12	60	W	W	W	W	14	W
Natural gas ---------- million cubic feet	1,244,779	390,861	1,217,430	493,059	1,230,976	695,501	1,202,973	974,408
Natural gas liquids:								
Natural gasoline and cycle products -- thousand 42-gallon barrels	9,713	53,545	9,194	45,292	9,490	51,369	44,916	286,299
LP gases ---------- do	30,271	120,781	30,214	122,065	32,654	180,577		
Peat ---------- thousand short tons	4	111	--	--	--	--	2	55
Perlite ---------- do	480	6,306	429	6,400	481	8,403	521	9,543
Petroleum (crude) ---------- thousand 42-gallon barrels	98,695	712,578	95,063	788,073	92,130	814,419	87,223	805,065
Potassium salts ---------- thousand short tons, K_2O equivalent	r2,061	r126,023	r1,749	r150,622	2,083	165,354	2,085	169,616
Pumice ---------- thousand short tons	471	1,466	397	1,280	486	1,560	457	1,835
Salt ---------- do	167	W	147	1,048	W	W	W	W
Sand and gravel ---------- do	7,413	10,605	6,220	13,798	7,702	16,671	8,604	17,685
Silver (recoverable content of ores, etc.) ---------- thousand troy ounces	1,195	5,628	792	3,501	892	3,880	918	4,242
Stone ---------- thousand short tons	3,531	3,359	2,197	4,683	1,935	4,394	1,967	4,892
Uranium (recoverable content of U_3O_8) ---------- thousand pounds	9,971	104,693	10,393	127,829	11,880	191,271	13,167	260,037
Zinc (recoverable content of ores, etc.) ---------- short tons	13,784	9,897	11,015	8,592	W	W	W	W
Value of items that cannot be disclosed: Cement, clay (fire), fluorspar (1974-75), molybdenum, stone (dimension, 1974), tin (1974-76), vanadium, and values indicated by W ----------	XX	77,755	XX	104,614	XX	134,492	XX	65,617
Total ----------	XX	r1,938,979	XX	r2,062,239	XX	2,510,127	XX	2,910,804

NEW YORK

Clays[2] ---------- thousand short tons	1,451	2,348	817	1,561	649	2,089	564	1,728
Gem stones ----------	NA	16	NA	16	NA	15	NA	15
Gypsum ---------- thousand short tons	364	2,942	W	W	W	W	W	W
Lead (recoverable content of ores, etc.) ---------- short tons	3,076	1,384	3,027	1,302	3,196	1,476	2,778	1,706
Natural gas ---------- million cubic feet	4,990	2,745	7,628	5,645	9,235	10,436	10,682	12,391
Peat ---------- thousand short tons	18	181	22	377	32	684	39	569
Petroleum (crude) ---------- thousand 42-gallon barrels	896	9,538	875	10,693	857	10,497	824	11,701
Salt ---------- thousand short tons	6,464	57,705	5,978	57,344	6,495	66,441	6,452	72,623
Sand and gravel ---------- do	30,614	46,652	22,158	44,064	27,881	56,132	29,197	57,570
Silver (recoverable content of ores, etc.) ---------- thousand troy ounces	64	304	56	248	49	214	56	260
Stone ---------- thousand short tons	38,207	87,724	31,713	80,929	28,136	75,040	29,947	90,781
Zinc (recoverable content of ores, etc.) ---------- short tons	93,077	66,829	76,612	59,757	73,671	54,517	70,839	48,737
Value of items that cannot be disclosed: Cement, clay (ball), emery, garnet (abrasive), iron ore, lime, mercury (1975), talc, titanium concentrate, wollastonite, and values indicated by W ----------	XX	162,205	XX	135,792	XX	150,423	XX	163,726
Total ----------	XX	440,573	XX	397,728	XX	427,964	XX	461,807

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
NORTH CAROLINA								
Clays[2] thousand short tons	3,422	$4,648	2,582	$4,094	2,750	$4,677	3,022	$4,990
Feldspar short tons	650,684	11,147	468,401	7,905	515,477	11,549	509,976	11,410
Gem stones	NA	50	NA	50	NA	75	NA	75
Mica (scrap) thousand short tons	76	3,679	75	3,265	70	3,793	91	4,207
Sand and gravel do	12,784	20,844	8,169	15,610	9,049	18,287	9,690	21,269
Stone do	34,762	75,142	28,308	69,327	30,877	82,462	32,850	90,295
Talc and pyrophyllite short tons	110,978	993	95,575	1,605	113,754	1,087	W	W
Value of items that cannot be disclosed: Asbestos, cement, clay (kaolin), iron ore (1974), lithium minerals, mica (sheet), olivine, phosphate rock, and values indicated by W	XX	39,366	XX	51,479	XX	81,409	XX	99,265
Total	XX	155,869	XX	153,335	XX	203,339	XX	231,511
NORTH DAKOTA								
Coal (lignite) thousand short tons	7,463	16,351	8,515	27,010	11,102	41,507	12,028	48,495
Gem stones	NA	2	NA	2	NA	2	NA	2
Natural gas million cubic feet	31,206	6,210	24,786	5,701	31,470	10,699	29,173	10,303
Peat short tons	240	W	W	W	W	W	(5)	W
Petroleum (crude) thousand 42-gallon barrels	19,697	119,022	20,452	149,705	21,725	170,411	23,273	186,184
Sand and gravel thousand short tons	4,991	6,211	5,636	8,133	5,171	8,345	5,821	12,102
Stone do	35	115	30	153	--	--	--	--
Value of items that cannot be disclosed: Clays, lime, natural gas liquids, salt, and values indicated by W	XX	11,516	XX	10,800	XX	13,141	XX	14,980
Total	XX	159,427	XX	201,504	XX	244,105	XX	272,066
OHIO								
Cement:								
Masonry thousand short tons	158	5,227	136	4,576	155	7,288	186	8,875
Portland do	2,884	73,815	2,364	70,268	2,130	65,656	1,970	65,899
Clays do	4,325	13,488	3,451	11,822	4,288	14,704	3,568	12,835
Coal (bituminous) do	45,409	559,519	46,770	766,875	46,582	773,699	47,918	848,074
Gem stones	NA	8	NA	W	NA	W	NA	W

Lime ---- thousand short tons	4,171	93,695	3,482	95,136	3,788	114,299	3,199	111,100
Natural gas ---- million cubic feet	92,055	44,371	84,960	59,982	88,891	90,491	99,327	138,760
Peat ---- thousand short tons	5	74	4	99	3	121	15	107
Petroleum (crude) ---- thousand 42-gallon barrels	9,088	89,348	9,578	113,917	9,994	117,655	10,359	136,281
Salt ---- thousand short tons	5,029	49,089	5,083	54,651	5,052	66,332	3,701	63,485
Sand and gravel ---- do	41,353	68,258	37,195	68,552	38,876	76,730	46,521	100,736
Stone ---- do	[3]51,709	[3]105,098	46,303	108,580	42,699	106,996	45,001	119,966
Value of items that cannot be disclosed: Abrasive stone, gypsum, stone (dimension, 1974), and values indicated by W ----	XX	5,680	XX	1,996	XX	1,925	XX	1,336
Total ----	XX	1,107,670	XX	1,356,454	XX	1,435,896	XX	1,607,454
OKLAHOMA								
Clays ---- thousand short tons	1,289	2,105	995	1,701	1,155	1,678	1,016	1,687
Coal (bituminous) ---- do	2,356	24,759	2,872	47,946	3,635	58,102	5,978	105,433
Gypsum ---- do	1,225	5,622	1,028	4,835	1,120	5,822	1,238	6,959
Helium:								
High-purity ---- million cubic feet	169	5,915	224	7,411	[r]241	[r]7,610	389	11,507
Crude ---- do	134	1,608	148	1,776	[r]183	[r]2,200	W	W
Lead (recoverable content of ores, etc.) ---- short tons	W	W	--	--	W	W	W	W
Natural gas ---- million cubic feet	1,638,942	458,904	1,605,410	513,731	1,726,513	866,710	1,769,519	1,397,920
Natural gas liquids:								
Natural gasoline and cycle products ---- thousand 42-gallon barrels	12,581	84,638	10,835	63,383	10,894	74,416	41,893	271,214
LP gases ---- do	31,231	166,461	29,640	140,197	31,620	179,602		
Petroleum (crude) ---- do	177,785	1,277,076	163,123	1,389,164	161,426	1,484,297	156,382	1,560,240
Pumice ---- thousand short tons	W	W	1	W	1	W	1	W
Sand and gravel ---- do	8,708	13,772	9,591	16,749	10,037	19,050	11,669	26,827
Stone ---- do	22,228	36,599	20,111	36,840	19,635	37,339	23,332	47,443
Zinc (recoverable content of ores, etc.) ---- short tons	W	W	--	--	W	W	W	W
Value of items that cannot be disclosed: Cement, copper (1974-75), feldspar (1974, 1976-77), iodine (1977) lime, salt, silver (1974-75), tripoli, and values indicated by W ----	XX	45,142	XX	43,362	XX	53,100	XX	68,217
Total ----	XX	2,122,601	XX	2,267,095	XX	[r]2,789,926	XX	3,497,447
OREGON								
Clays ---- thousand short tons	140	243	120	214	147	315	119	193
Copper ---- short tons	W	W	W	W	--	--	6	7
Gem stones ----	NA	500	NA	500	NA	525	NA	520
Gold (recoverable content of ores, etc.) ---- troy ounces	W	W	W	W	28	4	675	100
Lead (recoverable content of ores, etc.) ---- short tons	W	W	W	W	--	--	--	--
Lime ---- thousand short tons	98	2,818	96	3,281	W	W	W	W

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
OREGON—Continued								
Nickel (content of ore and concentrate)—short tons	16,618	W	16,987	W	16,469	W	14,347	W
Pumice—thousand short tons	915	$1,887	1,470	$3,937	1,125	$2,311	1,083	$2,429
Sand and gravel—do	18,558	30,948	16,527	29,596	[4]17,554	[4]33,473	15,833	33,127
Silver (recoverable content of ores, etc.)—thousand troy ounces	9	42	W	W	--	--	7	33
Stone—thousand short tons	23,353	43,406	21,275	40,321	20,349	42,686	17,600	39,400
Value of items that cannot be disclosed: Cement, diatomite, emery (1975), sand and gravel (industrial, 1976), talc and soapstone, tungsten (1976-77), and values indicated by W	XX	24,076	XX	28,155	XX	33,252	XX	33,323
Total	XX	103,920	XX	106,004	XX	112,566	XX	109,132
PENNSYLVANIA								
Cement:								
Masonry—thousand short tons	404	14,642	357	14,640	379	16,903	411	19,927
Portland—do	7,448	191,594	5,815	168,220	5,989	185,170	6,162	196,443
Clays[2]—do	2,732	16,496	1,945	13,672	2,291	16,037	2,304	13,075
Coal:								
Anthracite—do	6,617	144,695	6,203	198,481	6,228	209,234	5,861	205,138
Bituminous—do	80,462	1,637,394	84,137	2,111,009	85,777	2,173,009	84,639	2,166,685
Copper (recoverable content of ores, etc.)—short tons	--	--	--	--	W	W	W	W
Gem stones	NA	9	NA	9	NA	9	NA	10
Lime—thousand short tons	2,080	50,147	1,940	60,047	2,069	68,356	2,007	72,591
Mica, scrap—do	--	--	W	W	W	W	1	W
Natural gas—million cubic feet	82,637	36,360	84,676	57,156	89,386	61,229	91,717	73,374
Peat—thousand short tons	30	515	27	488	W	W	16	353
Petroleum (crude)—thousand 42-gallon barrels	3,478	36,220	3,264	39,647	3,019	36,700	2,715	38,810
Sand and gravel—thousand short tons	18,071	45,181	17,401	48,742	19,038	55,611	18,846	52,578
Stone—do	73,092	159,615	60,177	149,670	63,607	165,889	63,588	169,014
Zinc (recoverable content of ores, etc.)—short tons	20,288	14,567	21,090	16,450	22,280	16,487	22,825	15,703
Value of items that cannot be disclosed: Abrasives (1977), clay (kaolin), iron ore, natural gas liquids, tripoli, and values indicated by W	XX	26,993	XX	29,607	XX	32,716	XX	20,263
Total	XX	2,374,428	XX	2,907,838	XX	3,037,350	XX	3,043,964

RHODE ISLAND								
Sand and gravel thousand short tons	2,784	4,605	2,910	5,070	2,914	4,805	2,872	5,059
Stone do	W	W	293	1,125	305	1,295	274	1,238
Value of items that cannot be disclosed: Other nonmetals and values indicated by W	XX	1,377	XX	3	XX	300	XX	2
Total	XX	5,982	XX	6,198	XX	6,400	XX	6,299
SOUTH CAROLINA								
Clays thousand short tons	[2]2,297	[2]13,765	[2]1,698	[2]12,828	2,270	17,288	[2]2,172	[2]18,705
Gem stones	NA	5	NA	5	NA	4	NA	4
Mica (scrap) thousand short tons	W	252	7	318	W	W	43	589
Peat do	18	W	18	W	15	W	16	W
Sand and gravel do	7,380	13,054	7,363	14,128	7,887	17,154	7,766	19,281
Stone do	[3]12,242	[3]21,719	13,836	30,082	13,027	30,690	14,785	36,670
Value of items that cannot be disclosed: Cement, clay (fuller's earth, 1974-75, 1977), manganiferous ore (1975-77), stone (crushed, 1974), vermiculite, and values indicated by W	XX	56,376	XX	58,107	XX	60,397	XX	68,952
Total	XX	105,171	XX	115,468	XX	125,533	XX	144,201
SOUTH DAKOTA								
Clays[2] thousand short tons	190	202	187	185	124	137	197	233
Gem stones	NA	42	NA	42	NA	44	NA	40
Gold (recoverable content of ores, etc.) troy ounces	343,723	54,906	304,935	49,244	318,511	39,916	394,846	45,212
Gypsum thousand short tons	32	135	23	60	W	W	W	W
Lime do	94	2,059	W	W	W	W	W	W
Mica (scrap) do	W	W	W	W			56	5
Petroleum (crude) thousand 42-gallon barrels	494	3,283	472	5,996	447	5,519	632	7,584
Sand and gravel thousand short tons	9,028	9,720	6,481	8,668	5,763	8,057	6,043	9,815
Silver (recoverable content of ores, etc.) thousand troy ounces	62	294	68	299	58	253	69	317
Stone thousand short tons	2,968	14,231	2,647	15,350	3,241	17,240	3,412	18,881
Value of items that cannot be disclosed: Beryllium concentrate (1975-77), cement, clay (bentonite), feldspar, iron ore (1974-76), natural gas liquids, and values indicated by W	XX	17,938	XX	21,977	XX	30,364	XX	28,653
Total	XX	102,810	XX	101,821	XX	101,530	XX	110,740

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
TENNESSEE								
Barite thousand short tons	W	W	13	$260	W	W	W	W
Cement:								
Masonry do	154	$4,706	138	4,778	175	$6,476	195	$7,878
Portland do	1,525	43,339	1,136	37,866	1,256	43,495	1,522	52,894
Clays[2] do	1,638	9,776	1,310	9,008	1,530	11,578	1,578	13,968
Coal (bituminous) do	7,541	135,874	8,206	140,293	9,283	151,372	9,433	206,226
Copper (recoverable content of ores, etc.) short tons	6,304	9,745	10,041	12,893	11,131	15,494	6,187	8,266
Gold (recoverable content of ores, etc.) troy ounces	18	3	W	W	W	W	13	2
Lime thousand short tons	136	3,449	106	3,735	W	W	W	W
Natural gas million cubic feet	17	6	27	12	47	24	263	195
Petroleum (crude) thousand 42-gallon barrels	769	7,256	682	7,849	598	8,203	820	11,271
Phosphate rock thousand short tons	2,411	18,465	2,291	28,803	1,801	r14,541	1,926	14,253
Sand and gravel do	10,702	19,476	10,909	22,102	11,096	25,129	12,773	29,197
Silver (recoverable content of ores, etc.) thousand troy ounces	20	94	54	238	78	339	60	278
Stone thousand short tons	41,720	75,547	38,439	81,187	37,600	86,156	41,911	100,137
Zinc (recoverable content of ores, etc.) short tons	85,671	61,512	83,293	64,968	82,512	61,059	90,438	62,221
Value of items that cannot be disclosed: Clays (selected), pyrites, and values indicated by W	XX	6,360	XX	8,526	XX	15,862	XX	14,585
Total	XX	395,608	XX	422,518	XX	r439,728	XX	521,371
TEXAS								
Cement:								
Masonry thousand short tons	195	6,438	181	7,089	213	10,596	254	13,095
Portland do	7,739	207,706	7,195	224,804	7,388	271,066	8,482	331,758
Clays do	5,315	13,677	4,248	13,411	[2]3,706	[2]8,847	[2]3,682	[2]11,465
Coal (lignite) do	7,684	W	11,002	W	14,063	W	W	W
Gem stones	NA	160	NA	160	NA	168	NA	160
Gypsum thousand short tons	1,365	5,276	1,094	4,277	1,531	6,322	1,718	8,837
Helium (crude) million cubic feet	35	420	36	432	12	r149	W	W
Iron ore thousand long tons	W	W	601	W	566	W	W	W
Lime thousand short tons	1,835	39,644	1,735	46,179	1,455	43,983	1,612	49,965
Natural gas million cubic feet	8,170,798	2,541,118	7,485,764	3,885,112	7,191,859	5,163,755	7,051,027	6,367,077

Natural gas liquids:								
Natural gasoline and cycle products -- thousand 42-gallon barrels --	88,316	629,529	78,835	479,700	77,578	560,831	283,772	2,009,366
LP gases ---------- do ----	213,756	1,004,653	212,635	965,363	209,514	1,223,562		
Petroleum (crude) ---------- do ----	1,262,126	8,773,003	1,221,929	9,336,570	1,189,523	10,217,702	1,137,880	9,986,002
Salt ---------- thousand short tons --	11,379	51,296	8,560	42,119	9,718	48,875	10,941	53,264
Sand and gravel ---------- do ----	42,466	81,364	38,649	87,106	47,848	103,217	55,495	133,420
Stone ---------- do ----	[3]63,074	[3]109,758	57,985	106,554	54,856	101,652	65,474	126,706
Sulfur (Frasch process) ---------- thousand long tons --	4,473	W	3,406	W	3,415	W	3,480	W
Talc and soapstone ---------- short tons --	188,262	1,310	129,626	795	199,663	1,071	233,024	2,191
Value of items that cannot be disclosed: Asphalt (native), clays (selected, 1976-77), fluorspar, graphite, magnesium chloride (for metal), magnesium compounds (except for metal), sodium sulfate, stone (dimension, 1974), uranium, vermiculite (1977), and values indicated by W ------	XX	245,792	XX	325,701	XX	381,413	XX	426,325
Total ----------	XX	13,711,144	XX	15,525,372	XX	[r]18,143,209	XX	19,519,631
UTAH								
Carbon dioxide, natural ---------- thousand cubic feet --	93,571	6	108,941	8	21,875	2	W	W
Clays ---------- thousand short tons --	232	953	[2]220	[2]548	[2]206	[2]531	[2]244	[2]713
Coal (bituminous) ---------- do ----	5,858	71,699	6,961	138,134	7,967	182,712	8,581	174,342
Copper (recoverable content of ores, etc.) ---------- short tons --	230,593	356,497	177,155	227,467	185,458	258,157	194,130	259,357
Fluorspar ---------- do ----	2,967	98	9,542	389	W	W	--	--
Gem stones ----------	NA	100	NA	100	NA	105	NA	100
Gold (recoverable content of ores, etc.) ---------- troy ounces --	254,909	40,719	189,620	30,622	187,318	23,475	210,501	31,219
Gypsum ---------- thousand short tons --	248	1,076	247	1,457	270	1,657	324	2,510
Iron ore (usable) ---------- thousand long tons, gross weight --	1,808	14,016	1,334	10,399	W	W	1,932	19,780
Lead (recoverable content of ores, etc.) ---------- short tons --	10,510	4,729	12,679	5,452	16,297	7,529	10,746	6,598
Lime ---------- thousand short tons --	176	4,911	161	4,540	202	6,855	209	8,274
Natural gas ---------- million cubic feet --	50,522	20,815	55,354	26,570	57,416	28,995	60,696	37,146
Petroleum (crude) ---------- thousand 42-gallon barrels --	39,363	279,858	42,301	348,131	34,304	318,911	33,113	308,872
Pumice ---------- thousand short tons --	15	19	17	23	164	264	W	W
Salt ---------- do ----	771	7,321	631	7,717	705	10,090	843	10,831
Sand and gravel ---------- do ----	11,578	12,985	10,159	14,342	[4]10,547	[4]13,442	[4]11,895	[4]18,662
Silver (recoverable content of ores, etc.) ----- thousand troy ounces --	3,208	15,109	2,822	12,472	3,134	13,633	3,283	15,169
Stone ---------- thousand short tons --	2,869	6,410	2,486	6,167	2,751	7,009	2,771	7,310

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
UTAH—Continued								
Tungsten ore and concentrate ____thousand pounds contained W__	W	W	W	W	W	W	27	$219
Zinc (recoverable content of ores, etc.) ____short tons__	12,619	$9,060	19,640	$15,319	22,481	$16,636	17,759	12,218
Value of items that cannot be disclosed: Asphalt (gilsonite), beryl concentrate, cement, clays (kaolin, 1975-77, fuller's earth, 1977), magnesium chloride (1974-75), magnesium compounds, molybdenum, natural gas liquids, phosphate rock, potassium salts, sand and gravel (industrial, 1976-77), sodium sulfate, uranium, vanadium, and values indicated by W	XX	105,664	XX	116,550	XX	153,978	XX	172,019
Total	XX	952,045	XX	966,407	XX	1,043,981	XX	1,085,339
VERMONT								
Peat____thousand short tons__	(5)	4	(5)	W	--	--	--	--
Sand and gravel____do____	2,394	3,588	2,356	3,693	[4]2,379	[4]3,758	3,405	5,837
Stone____do____	1,932	21,630	1,224	15,718	1,978	22,443	2,244	27,196
Talc____short tons__	W	W	230,973	1,918	252,371	1,685	310,038	2,006
Value of items that cannot be disclosed: Asbestos, other nonmetals, and values indicated by W	XX	8,723	XX	7,450	XX	7,211	XX	6,415
Total	XX	33,945	XX	28,779	XX	35,097	XX	41,454
VIRGINIA								
Clays____thousand short tons__	1,957	2,614	819	1,152	862	1,210	890	1,294
Coal (bituminous)____do____	34,326	856,099	35,510	1,081,587	39,996	964,669	37,624	1,115,438
Gem stones	NA	13	NA	13	NA	12	NA	12
Lead (recoverable content of ores, etc.) ____short tons__	3,106	1,398	2,551	1,097	1,946	899	2,203	1,352
Lime____thousand short tons__	895	18,929	705	20,192	878	25,993	846	28,767
Natural gas____million cubic feet__	7,096	3,619	6,723	3,462	6,937	7,908	8,220	10,357
Petroleum (crude) ____thousand 42-gallon barrels__	3	W	3	W	3	W	W	W
Sand and gravel____thousand short tons__	14,314	29,270	9,895	24,776	[4]10,191	[4]23,089	[4]10,447	[4]24,605
Stone____do____	44,176	95,988	35,384	84,204	36,132	91,723	41,717	111,601
Zinc (recoverable content of ores, etc.) ____short tons__	17,195	12,346	15,151	11,818	11,214	8,319	13,272	9,131
Value of items that cannot be disclosed: Aplite, cement, gypsum, kyanite, sand and gravel (industrial, 1976-77), silver (1975-77), soapstone, and values indicated by W	XX	36,293	XX	33,673	XX	36,823	XX	39,129
Total	XX	1,056,569	XX	1,261,974	XX	1,160,645	XX	1,341,686

WASHINGTON								
Cement:								
Masonry thousand short tons	6	193	5	209	6	334	W	W
Portland do	1,377	36,347	1,147	40,666	1,238	48,669	1,462	65,281
Clays[2] do	269	698	290	778	381	1,141	309	1,091
Coal (bituminous) do	3,913	W	3,743	W	4,109	W	5,057	57,042
Gem stones	NA	160	NA	160	NA	168	NA	160
Gold troy ounces	W	W	W	W	W	W	24,006	3,560
Lead (recoverable content of ores, etc.) short tons	1,299	585	W	W	W	W	1,201	738
Peat thousand short tons	14	85	13	98	14	103	12	117
Pumice do	[5]	1	--	--	--	--	W	W
Sand and gravel do	22,842	35,030	19,069	32,990	19,813	36,017	18,505	39,124
Silver thousand troy ounces	W	W	W	W	W	W	121	557
Stone thousand short tons	15,095	24,483	7,920	18,754	10,223	24,091	12,244	28,596
Zinc (recoverable content of ores, etc.) short tons	6,909	4,960	W	W	W	W	5,572	3,834
Values of items that cannot be disclosed: Clay (fire), copper, diatomite, gypsum, lime, olivine, talc, tungsten, uranium, and values indicated by W	XX	41,388	XX	64,850	XX	76,699	XX	16,024
Total	XX	143,930	XX	158,505	XX	187,222	XX	216,124
WEST VIRGINIA								
Clays[2] thousand short tons	339	520	278	439	275	463	389	599
Coal (bituminous) do	102,462	2,218,418	109,283	3,206,951	108,834	3,278,180	95,433	2,961,186
Gem stones	NA	2	NA	2	NA	2	NA	2
Natural gas million cubic feet	202,306	66,356	154,484	57,005	153,322	87,394	152,767	93,188
Petroleum (crude) thousand 42-gallon barrels	2,665	27,058	2,479	29,712	2,519	30,227	2,518	35,175
Salt thousand short tons	1,201	6,296	972	4,671	1,118	W	1,048	W
Sand and gravel do	5,382	16,018	5,068	17,872	[4]4,337	[4]11,006	[4]3,891	[4]10,402
Stone do	10,954	22,308	[3]10,583	[3]24,333	[3]9,717	[3]24,133	[3]10,495	[3]28,022
Value of items that cannot be disclosed: Cement, clays (fire), lime, natural gas liquids, sand and gravel (industrial, 1976-77), stone (dimension, 1975-77), and values indicated by W	XX	46,201	XX	49,226	XX	66,596	XX	79,494
Total	XX	2,403,177	XX	3,390,211	XX	3,498,001	XX	3,208,068

See footnotes at end of table.

Table 6.—Mineral production[1] in the United States, by State —Continued

Mineral	1974		1975		1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
WISCONSIN								
Clays thousand short tons	2	$4	2	$4	W	W	W	W
Gem stones	NA	1	NA	1	NA	$1	NA	$1
Iron ore (usable) thousand long tons, gross weight	899	W	791	W	664	W	668	W
Lead (recoverable content of ores, etc.) short tons	1,285	578	W	W	W	W	W	W
Lime thousand short tons	311	6,764	296	8,604	325	10,058	378	13,521
Peat do	W	W	11	502	11	W	14	196
Sand and gravel do	28,850	34,577	30,057	40,580	30,879	42,001	29,025	50,210
Stone do	22,443	40,912	20,566	40,156	20,739	41,338	22,314	46,918
Zinc (recoverable content of ores, etc.) short tons	8,737	6,273	W	W	W	W	W	W
Value of items that cannot be disclosed: Abrasive stones, cement, copper (1974-75), silver (1974-75), and values indicated by W	XX	25,654	XX	42,413	XX	39,055	XX	39,282
Total	XX	114,763	XX	132,260	XX	132,453	XX	150,128
WYOMING								
Clays thousand short tons	2,511	29,339	2,582	36,046	2,697	40,015	2,966	48,369
Coal (bituminous) do	20,703	103,915	23,804	160,447	30,836	215,936	46,028	377,990
Gem stones	NA	140	NA	140	NA	147	NA	200
Gypsum thousand short tons	315	960	271	902	317	1,280	356	2,571
Iron ore (usable) thousand long tons, gross weight	2,105	W	2,039	26,792	2,139	29,461	W	W
Lime thousand short tons	29	464	W	W	W	W	W	W
Natural gas million cubic feet	326,657	80,031	316,123	106,533	328,768	134,795	330,180	211,315
Natural gas liquids:								
Natural gasoline thousand 42-gallon barrels	2,933	18,577	2,909	17,694	3,044	19,866	10,148	64,970
LP gases do	6,804	31,707	6,061	29,578	6,681	35,677		
Petroleum (crude) do	139,997	914,360	135,943	983,785	134,149	971,235	136,472	1,039,948
Sand and gravel thousand short tons	5,532	9,508	4,328	10,746	5,470	10,782	5,084	11,026
Stone do	2,384	[3]5,989	2,882	7,618	2,757	7,630	[3]2,434	[3]7,585
Uranium (recoverable content of U_3O_8) thousand pounds	7,449	78,213	6,862	84,406	8,064	129,823	9,857	194,682

Value of items that cannot be disclosed: Cement, feldspar, phosphate rock, sodium carbonate, stone (dimension, 1974, 1977), and values indicated by W	XX	163,997	XX	179,751	XX	254,952	XX	372,693
Total	XX	1,437,200	XX	1,644,438	XX	1,851,599	XX	2,331,349

[r]Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. XX Not applicable.
[1]Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
[2]Excludes certain clays, included with "Value of items that cannot be disclosed."
[3]Excludes certain stones, included with "Value of items that cannot be disclosed."
[4]Excludes industrial sand and gravel, included with "Value of items that cannot be disclosed."
[5]Less than 1/2 unit.
[6]Total of items listed.
[7]Excludes salt in brine, included with "Value of items that cannot be disclosed."

Note: Beginning with 1977, data on mineral fuels supplied by the Department of Energy.

Table 7.—Mineral production[1] in the islands administered by the United States

(Thousand short tons and thousand dollars)

Area and mineral	1974		1975		1976		1977	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
American Samoa:								
Pumice	27	183	15	15	47	30	1	10
Stone	50	122	34	147	30	156	6	31
Total	XX	305	XX	162	XX	186	XX	41
Guam: Stone	798	1,444	781	1,837	457	1,438	577	1,897
Virgin Islands: Stone	638	3,869	253	1,813	279	2,050	262	2,076

XX Not applicable.
[1]Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

Table 8.—Mineral production[1] in the Commonwealth of Puerto Rico

(Thousand short tons and thousand dollars)

Mineral	1974		1975		1976		1977	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Cement	1,881	70,277	1,582	60,968	1,558	66,150	1,367	67,775
Clays	291	332	341	440	W	W	272	387
Lime	39	2,923	28	2,231	28	2,513	40	3,007
Salt	29	624	27	639	27	639	27	639
Sand and gravel	NA	NA	NA	NA	NA	NA	e12,000	e21,000
Stone	14,362	41,640	13,595	47,515	13,404	47,124	12,187	44,281
Total	XX	[2]115,796	XX	[2]111,793	XX	[2]116,426	XX	137,089

[e]Estimate. NA Not available. W Withheld to avoid disclosing company proprietary data. XX Not applicable.
[1]Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
[2]Total does not include value of items withheld or not available.

Table 9.—U.S. exports of principal minerals and products

Mineral		1976		1977	
		Quantity	Value (thousands)	Quantity	Value (thousands)
METALS					
Aluminum:					
Ingots, slabs, crude	short tons	152,366	$118,644	97,771	$94,498
Scrap	do	108,958	63,245	101,663	64,060
Plates, sheets, bars, etc	do	203,843	261,759	190,118	284,199
Castings and forgings	do	5,611	21,232	6,895	27,432
Aluminum sulfate	do	50,758	1,569	12,019	900
Other aluminum compounds	do	911,460	166,084	33,623	17,575
Antimony, metals and alloys, crude	do	341	853	742	1,219
Bauxite, including bauxite concentrates	thousand long tons	15	1,297	25	2,344
Beryllium	pounds	114,143	1,756	160,505	1,911
Bismuth, metals and alloys	do	[1]68,488	[1]514	95,334	637
Cadmium	thousand pounds	504	713	236	316
Calcium:					
Carbonate	short tons	3,411	735	14,887	4,053
Chloride	do	33,533	2,578	39,552	3,383
Dicalcium phosphate	do	32,302	7,612	53,309	9,550
Chrome:					
Ore and concentrates:					
Exports	thousand short tons	124	5,609	187	10,105
Reexports	do	85	5,475	61	4,913
Ferrochrome	do	14	8,785	12	7,268
Cobalt	thousand pounds	3,892	12,427	2,585	11,149
Columbium metals, alloys, other forms	do	67	778	75	1,408
Copper:					
Ore, concentrate, composition metal, and unrefined (copper content)	short tons	22,689	19,769	35,953	24,708
Scrap	do	37,473	37,079	37,892	36,006
Refined copper and semimanufactures	do	176,877	313,377	146,004	331,265
Other copper manufactures	do	4,923	8,435	6,920	10,923
Copper sulfate or blue vitriol	do	2,071	2,935	2,616	3,370
Copper-base alloys	do	110,665	177,270	112,097	167,306
Ferroalloys:					
Ferrosilicon	do	12,416	7,449	10,548	6,035
Ferrophosphorus	do	1,636	153	2,381	297
Ferroalloys, n.s.p.f	do	6,687	13,121	7,982	8,558
Spiegeleisen	do	5,471	901	40	13
Gold:					
Ore and base bullion	troy ounces	337,517	41,624	395,760	57,477
Bullion, refined	do	3,193,248	333,424	8,275,095	1,055,234
Iron ore	thousand long tons	2,913	82,192	2,143	62,756
Iron and steel:					
Pig iron	short tons	57,480	5,408	51,357	4,266
Iron and steel products (major):					
Semimanufactures	do	1,856,573	592,126	1,444,572	525,592
Manufactures and steel mill products	do	1,814,776	1,870,281	1,653,428	1,758,832
Iron and steel scrap:					
Ferrous scrap, including rerolling materials	thousand short tons	8,168	636,758	6,211	415,345
Slag	short tons	38,718	1,264	33,376	961
Lead and zinc ores and concentrates	do	148,787	28,892	128,056	28,753
Lead:					
Pigs, bars, anodes, sheets, etc	do	5,877	5,320	9,845	8,425
Scrap	do	46,883	11,539	85,411	22,442
Magnesium, metal and alloys, scrap, semimanufactured forms, n.e.c	do	13,444	26,902	28,061	51,848
Manganese:					
Ore and concentrate	do	127,971	7,510	138,250	9,221
Ferromanganese	do	6,789	3,462	6,051	3,391
Metal	do	4,654	3,434	2,953	3,208
Mercury:					
Exports	76-pound flasks	501	306	852	287
Reexports	do	12	6	101	36
Molybdenum:					
Ore and concentrates (molybdenum content)	thousand pounds	62,474	183,536	65,666	245,777
Metals and alloys, crude and scrap	do	223	390	332	851
Wire	do	343	3,672	475	6,047
Semimanufactured forms, n.e.c	do	184	1,584	164	2,441
Powder	do	25	136	151	759
Ferromolybdenum	do	3,596	9,447	1,595	4,863
Nickel:					
Alloys and scrap (including Monel metal), ingots, bars, sheets, etc	short tons	[r]37,748	[r]141,324	29,958	132,093
Catalysts	do	4,442	16,282	4,064	15,674
Nickel-chrome electric resistance wire	do	769	5,253	764	6,006
Semifabricated forms, n.e.c	do	4,207	30,736	4,626	36,807

See footnotes at end of table.

Table 9.—U.S. exports of principal minerals and products —Continued

Mineral	1976 Quantity	1976 Value (thousands)	1977 Quantity	1977 Value (thousands)
METALS —Continued				
Platinum:				
Ore, concentrate, metal and alloys in ingots, bars, sheets, anodes, other forms, including scrap ____ troy ounces	325,805	$37,868	289,307	$33,076
Palladium, rhodium, iridium, osmiridium, ruthenium, and osmium (metal and alloys including scrap) ____ do	186,602	14,885	137,324	13,414
Rare earths:				
Ferrocerium and alloys ____ short tons	60	335	260	1,043
Compounds ____ pounds	1,465,364	2,720	1,931,245	6,038
Selenium ____ thousand pounds	118	2,131	68	1,145
Silicon:				
Ferrosilicon ____ short tons	12,416	7,449	10,548	6,035
Silicon carbide, crude and in grains ____ do	10	6,174	11	7,062
Silver:				
Ore, concentrates, waste, sweepings ____ thousand troy ounces	7,000	28,849	13,400	45,480
Bullion, refined ____ do	7,596	32,586	8,994	39,165
Tantalum:				
Ore, metal, other forms ____ thousand pounds	r426	6,711	587	12,874
Powder ____ do	r219	7,982	234	9,380
Tin:				
Ingots, pigs, bars, etc.:				
Exports ____ metric tons	540	2,998	545	5,176
Reexports ____ do	1,798	13,967	4,935	50,175
Tin scrap and other tin-bearing material except tinplate scrap ____ do	6,927	7,391	NA	9,328
Titanium:				
Ore and concentrate ____ short tons	4,802	477	22,679	743
Sponge (including iodide titanium and scrap) ____ do	6,144	8,547	3,394	5,643
Intermediate mill shapes and mill products, n.e.c. ____ do	1,065	15,039	1,050	14,254
Pigments and oxides ____ do	20,580	16,229	16,336	12,628
Tungsten:				
Ores and concentrates:				
Exports ____ thousand pounds	1,729	11,189	1,283	11,400
Reexports ____ do	887	1,903	NA	NA
Ferrotungsten ____ do	--	--	2	31
Uranium:				
Ores and concentrates (U_3O_8 content) ____ pounds	1,495,130	24,432	1,929,467	65,913
Metal ____ do	7,108	146	NA	NA
Compounds ____ do	369,036	7,232	245,570	2,848
Isotopes (stable) and their compounds ____	NA	2,103	NA	4,627
Radioactive materials ____ thousand curies	31,474,488	25,905	33,605,884	32,862
Special nuclear materials ____	NA	426,423	NA	501,590
Vanadium:				
Ore and concentrate, pentoxide, etc. (vanadium content) ____ pounds	197,035	742	384,000	1,959
Ferrovanadium ____ do	2,421,776	9,180	1,316,000	4,954
Zinc:				
Slabs, pigs, or blocks ____ short tons	3,513	2,306	237	210
Sheets, plates, strips, other forms n.e.c ____ do	2,271	2,817	2,681	3,144
Waste, scrap, and dust (zinc content) ____ do	8,945	3,535	9,230	3,698
Semifabricated forms, n.e.c ____ do	9,320	6,076	6,147	4,618
Zirconium:				
Ore and concentrate ____ thousand pounds	18,856	2,784	28,727	2,242
Oxide ____ do	5,325	6,104	3,704	3,846
Metals, alloys, other forms ____ do	2,304	43,809	1,965	36,828
NONMETALS				
Abrasives:				
Dust and powder of precious or semiprecious stones, including diamond dust and powder ____ thousand carats	14,155	35,450	17,272	42,714
Crushing bort ____ do	77	182	6	42
Industrial diamonds ____ do	639	3,677	376	1,854
Diamond grinding wheels ____ do	730	4,911	797	5,900
Other natural and artificial metallic abrasives and products ____	NA	68,979	NA	71,069
Asbestos:				
Exports:				
Unmanufactured ____ short tons	46,317	12,640	37,390	11,701
Products ____ do	NA	60,276	NA	78,350
Reexports:				
Unmanufactured ____ do	606	151	247	30
Products ____ do	NA	296	NA	472

See footnotes at end of table.

Table 9.—U.S. exports of principal minerals and products —Continued

Mineral	1976		1977	
	Quantity	Value (thousands)	Quantity	Value (thousands)
NONMETALS —Continued				
Barite:				
Natural barium sulfate and carbonate _ short tons_ _	41,063	$2,871	49,551	$3,426
Lithopone _____ do____	779	937	435	698
Boron:				
Boric acid _____ do____	36,492	12,363	35,992	12,931
Sodium borates, refined _____ do____	211,362	49,156	265,470	64,634
Cement _____ do____	466,055	26,601	238,906	23,740
Clays:				
Kaolin or china clay _____ thousand short tons_ _	839	57,649	952	71,907
Fire clay _____ do____	296	12,895	307	11,632
Other clays _____ do____	1,351	81,409	1,302	77,251
Diatomite _____ do____	149	16,932	152	18,876
Feldspar, leucite, nepheline syenite _ thousand pounds_ _	12,289	352	12,404	394
Fluorspar _____ short tons_ _	4,923	764	6,642	975
Gem stones:				
Diamonds _____ thousand carats_ _	313	306,098	316	335,991
Pearls _____	NA	581	NA	545
Other _____	NA	30,896	NA	24,050
Graphite _____ short tons_ _	r12,236	r2,388	13,783	2,662
Gypsum:				
Crude, crushed or calcined _ _ thousand short tons_ _	284	6,739	143	6,090
Manufactures, n.e.c _____	NA	25,855	NA	9,613
Helium _____ million cubic feet_ _	174	8,790	168	10,561
Lithium hydroxide _____ thousand pounds_ _	534	674	665	730
Kyanite and allied minerals _____ short tons_ _	63,329	4,942	38,832	3,417
Lime _____ do____	55,852	2,981	32,954	2,185
Magnesium compounds:				
Magnesite, dead-burned _____ do____	71,373	13,466	76,489	16,477
Magnesite, crude, caustic calcined, lump or ground do____	10,121	5,422	12,040	6,336
Mica sheet, waste and scrap, and ground____ pounds_ _	14,449,150	3,477	18,202,383	3,557
Mica, manufactured _____ do____	2,481,151	3,776	1,012,977	3,267
Mineral-earth pigments, iron oxide, natural and manufactured _____ short tons_ _	11,867	11,387	15,529	16,815
Nitrogen compounds (major) ___ thousand short tons_ _	4,714	449,147	5,103	537,739
Phosphate rock _____ thousand metric tons_ _	9,994	327,410	14,014	362,223
Phosphatic fertilizers:				
Superphosphates _____ do____	1,210	110,835	1,181	110,534
Ammonium phosphates _____ do____	2,182	269,855	2,581	335,883
Elemental phosphorus_____ short tons_ _	29,038	30,387	17,954	20,722
Mixed chemical fertilizers _ thousand metric tons_ _	r219	30,284	177	26,908
Pigments and compounds (lead and zinc):				
Lead oxides:				
Pigment grade _____ short tons_ _	2,620	1,661	NA	NA
Other grade _____ do____	345	438	NA	NA
Zinc oxides:				
Pigment grade _____ do____	4,261	2,587	6,771	3,634
Other grade _____ do____	577	524		
Zinc compounds _____ do____	779	937	435	698
Potash:				
Fertilizer _____ do____	1,669,691	91,887	1,650,200	90,186
Chemical _____ do____	60,025	19,422	40,013	18,805
Pumice and pumicite _____ do____	1,011	271	1,797	516
Salt:				
Crude and refined _____ thousand short tons_ _	1,007	10,326	1,008	10,881
Shipments to noncontiguous territories ___ do____	18	2,230	17	2,205
Sand and gravel:				
Sand:				
Construction _____ do____	559	1,337	632	1,610
Industrial _____ do____	2,553	17,080	2,457	18,707
Gravel _____ do____	579	1,099	600	1,198
Sodium and sodium compounds:				
Sodium sulfate _____ do____	57	3,636	43	2,801
Sodium carbonate _____ do____	645	r47,004	759	52,943
Stone:				
Dolomite, block _____ do____	63	1,486	12	484
Limestone, crushed, ground, broken _____ do____	3,191	10,537	3,235	10,365
Marble and other building and monumental do____	NA	2,596	NA	3,476
Stone, crushed, ground, broken _____ do____	866	7,073	694	6,048
Manufactures of stone _____ do____	NA	2,273	NA	2,242
Sulfur:				
Crude _____ thousand long tons_ _	1,183	60,226	1,059	47,599
Crushed, ground, flowers of _____ do____	15	3,358	12	4,512
Talc, crude and ground _____ short tons_ _	212,344	9,034	322,000	9,166
Total _____	XX	8,484,889	XX	9,171,199

rRevised. NA Not available. XX Not applicable.
[1]Adjusted by the Bureau of Mines.

Table 10.—U.S. imports for consumption of principal minerals and products

Mineral	1976 Quantity	1976 Value (thousands)	1977 Quantity	1977 Value (thousands)
METALS				
Aluminum:				
Metal, short tons	575,350	$439,570	670,200	$631,601
Scrap, do	85,714	46,166	89,895	63,168
Plates, sheets, bars, etc, do	87,560	96,312	75,459	103,736
Aluminum oxide (alumina), do	3,624,367	404,478	4,145,000	512,413
Antimony:				
Ore (antimony content), do	10,023	16,911	3,438	6,832
Needle or liquated, do	41	129	259	580
Metal, do	2,083	4,986	1,722	4,536
Oxide, do	11,611	17,029	9,641	15,150
Arsenic:				
White (As_2O_3 content), do	4,262	1,528	5,981	1,962
Metallic, do	288	1,735	357	1,381
Bauxite, crude, thousand long tons	12,548	NA	12,784	NA
Beryllium ore, short tons	1,058	380	746	298
Bismuth, metal and alloys, gross weight, pounds	2,328,051	14,154	2,013,333	10,238
Cadmium:				
Metal, short tons	3,411	14,511	2,570	11,680
Flue dust (cadmium content), do	246	536	14	4
Calcium:				
Metal, pounds	461,965	475	458,319	706
Chloride, short tons	16,046	480	19,708	1,002
Cesium compounds, pounds	3,621	147	7,865	329
Chromite:				
Ore and concentrates (Cr_2O_3 content), thousand short tons	533	70,075	538	68,697
Ferrochrome (Cr_2O_3 content), do	150	124,819	134	100,528
Metal, do	2	9,142	2	10,893
Cobalt:				
Metal, thousand pounds	15,129	66,299	16,833	91,381
Oxide (gross weight), do	138	573	506	2,346
Salts and compounds (gross weight), do	235	365	246	381
Columbium ore, do	3,968	r5,567	3,364	6,771
Copper (copper content):				
Ore and concentrates, short tons	35,197	49,861	18,007	21,423
Regulus, black, coarse, do	14,097	54,878	3,257	12,153
Unrefined, black, blister, do	19,388	22,144	9,063	11,843
Refined in ingots, etc, do	381,343	453,279	386,865	471,666
Old and scrap, do	19,735	19,231	19,856	20,741
Ferroalloys, n.s.p.f, do	r98,524	r40,550	107,387	46,541
Gallium, kilograms	4,920	2,326	2,884	1,242
Germanium, pounds	7,646	1,022	5,904	1,059
Gold (general imports):				
Ore and base bullion, troy ounces	166,312	20,007	239,444	35,319
Bullion, do	2,489,679	311,011	4,214,656	638,707
Hafnium, pounds	3,270	31	3,322	41
Indium, thousand troy ounces	290	1,808	291	2,254
Iron ore, thousand long tons	44,390	980,348	37,905	956,584
Iron and steel:				
Pig iron, short tons	r414,663	51,142	372,767	44,916
Iron and steel products (major):				
Iron products, do	44,877	32,002	55,758	35,895
Steel products, do	r14,563,278	r4,372,464	19,619,662	5,695,171
Scrap, thousand short tons	496	34,524	601	39,723
Tinplate, do	12	596	13	778
Lead:				
Ore, flue dust, matte (lead content), short tons	88,988	29,492	97,862	39,812
Base bullion (lead content), do	2,334	955	8,068	4,244
Pigs and bars (lead content), do	141,980	60,245	253,608	149,419
Reclaimed scrap, etc. (lead content), do	2,644	1,022	3,884	1,935
Sheet, pipe, shot, do	294	495	980	1,516
Magnesium:				
Metallic and scrap, do	13,066	19,020	5,599	6,684
Alloys (magnesium content), do	1,820	3,604	299	1,073
Sheets, tubing, ribbons, wire, other forms (magnesium content), do	21	38	66	219
Manganese:				
Ore (35% or more contained manganese), do	649,245	73,627	454,228	56,357
Ferromanganese (manganese content), do	417,433	164,698	416,081	155,662
Metal, do	7,082	5,258	6,841	5,244
Mercury:				
Compounds, pounds	35,536	90	21,961	100
Metal, 76-pound flasks	44,415	4,325	28,750	3,263
Molybdenum:				
Ore (content), pounds	2,092,623	4,850	2,106,501	5,361
Waste and scrap, do	297,554	1,183	2,107,988	1,468
Metal, do	r136,108	r844	143,458	1,536
Compounds, do	679,289	690	491,484	573

See footnotes at end of table.

Table 10.—U.S. imports for consumption of principal minerals and products —Continued

Mineral		1976		1977	
		Quantity	Value (thousands)	Quantity	Value (thousands)
METALS —Continued					
Nickel:					
Ore	short tons	6,706	$272	111	$2
Pigs, ingots, shot, cathodes	do	111,255	456,398	103,269	451,582
Plates, bars, etc	do	3,223	20,348	9,341	33,280
Slurry	do	33,280	98,178	24,762	78,039
Scrap	do	2,359	4,827	3,175	6,546
Powder and flakes	do	10,181	45,267	13,760	67,708
Ferronickel	do	55,721	72,161	80,436	95,275
Oxide	do	5,932	21,948	4,914	17,477
Platinum-group metals:					
Unwrought:					
Grains and nuggets (platinum)	troy ounces	596	88	6,632	1,118
Sponge (platinum)	do	904,048	139,378	771,843	125,328
Sweepings, waste, scrap	do	146,773	20,080	247,865	18,463
Iridium	do	18,179	5,045	8,288	2,225
Palladium	do	994,360	48,535	1,102,607	59,683
Rhodium	do	62,260	18,342	79,290	31,560
Ruthenium	do	75,673	3,580	53,741	4,639
Other platinum-group metals	do	224,560	32,195	126,921	16,076
Semimanufactured:					
Platinum	do	95,653	15,623	44,405	7,495
Palladium	do	128,951	6,325	49,070	2,719
Rhodium	do	1,864	382	650	276
Other platinum-group metals	do	14,142	1,963	19,062	2,391
Radium: Radioactive substitutes		NA	12,200	NA	15,869
Rare-earth metals:					
Ferrocerium, other cerium alloys	short tons	20	167	23	262
Monazite	do	2,103	431	5,480	900
Metals, including scandium and yttrium	pounds	74	9	91	12
Rhenium:					
Metal, including scrap	do	82	38	148	56
Ammonium perrhenate	do	4,047	1,407	6,411	1,620
Selenium and selenium compounds	do	811,257	12,118	585,673	9,322
Silicon:					
Metal (over 96% silicon content)	short tons	r9,630	r11,703	26,806	26,158
Ferrosilicon (silicon content)	do	r63,681	r39,648	75,254	44,371
Silver:					
Ore and base bullion	thousand troy ounces	16,716	70,206	7,071	30,460
Bullion	do	67,187	289,032	69,450	315,343
Sweepings, waste, dore	do	4,454	18,823	2,626	10,150
Tantalum ore	thousand pounds	2,557	r15,025	1,524	8,941
Tellurium	pounds	203,534	1,745	171,291	3,158
Thallium	do	66	1	25	2
Tin:					
Ore (tin content)	metric tons	5,733	38,529	6,724	60,840
Blocks, pigs, grains, etc	do	45,055	325,453	47,774	459,544
Dross, skimmings, scrap, residue, and tin alloys, n.s.p.f	do	2,666	3,550	813	1,816
Tinfoil, powder, flitters, etc		NA	8,148	NA	3,733
Tin scrap, and other tin bearing material exluding tinplate scrap	do	NA	7,391	NA	9,328
Tin compounds	do	176	1,195	170	1,448
Titanium:					
Ilmenite[1]	short tons	431,718	18,715	568,307	21,717
Rutile	do	281,712	54,849	123,800	24,481
Metal	do	r3,638	r9,752	6,881	15,551
Ferrotitanium and ferrosilicon titanium	do	899	1,438	1,136	1,991
Compounds and mixtures	do	r70,398	53,806	117,078	87,728
Tungsten (tungsten content):					
Ore and concentrate	thousand pounds	5,301	28,320	6,919	55,927
Waste and scrap	do	170	694	315	2,510
Other alloys	do	1,898	11,104	2,473	14,255
Ferrotungsten and ferrosilicon tungsten	do	844	5,451	505	4,565
Uranium and other uranium-bearing and nuclear materials:					
Oxide U_3O_8	do	11,074,298	203,926	7,717,679	88,150
Compounds, n.e.c	do	33,876,908	441,603	23,531,191	413,028
Metal	thousand pounds	NA	NA	70	284
Isotopes (stable) and their compounds		NA	1,067	NA	1,121
Radio isotopes, elements, etc	thousand curies	60,302,966	12,200	71,695,692	12,492
Vanadium (content):					
Ferrovanadium	thousand pounds	518	2,448	673	3,438
Vanadium-bearing materials (vanadium pentoxide content)	do	10,702	7,721	10,057	8,269

See footnotes at end of table.

Table 10.—U.S. imports for consumption of principal minerals and products —Continued

Mineral		1976		1977	
		Quantity	Value (thousands)	Quantity	Value (thousands)
METALS —Continued					
Zinc:					
Ore (zinc content)	short tons	155,803	$50,553	120,457	$37,897
Blocks, pigs, slabs	do	695,131	482,265	555,147	359,134
Sheets, etc	do	209	329	205	211
Fume (zinc content)	do	6,927	2,558	257	516
Waste and scrap		1,803	516	10,128	2,175
Old, dross, skimmings	do	12,445	4,884	12,940	5,204
Dust, powder, flakes	do	6,009	5,134	7,388	6,277
Manufactures		NA	96	NA	262
Zirconium:					
Ore, including zirconium sand	short tons	64,643	13,733	65,204	11,401
Metal, scrap, and compounds	do	914	1,153	1,380	10,269
NONMETALS					
Abrasives:					
Diamonds (industrial)	thousand carats	r17,047	r61,102	22,640	79,122
Other abrasives		NA	96,130	NA	113,168
Asbestos	short tons	657,851	142,145	607,022	145,146
Barite:					
Crude and ground	thousand short tons	918	17,829	974	18,176
Witherite	short tons	r284	r61	518	103
Chemicals	do	16,913	5,095	24,871	7,362
Boron:					
Carbide	do	15	240	111	695
Boric acid	do	56	14	14,132	5,596
Calcium borate, crude	do	30,247	1,953	51,087	3,695
Cement	thousand short tons	3,107	67,085	4,038	94,005
Clays:					
Raw	short tons	34,359	1,207	31,212	1,335
Manufactured	do	4,309	607	4,787	582
Cryolite	do	11,325	4,329	11,776	4,279
Feldspar:					
Crude	do	93	17,614		
Ground and crushed	do			242	8,115
Fluorspar	do	895,254	56,580	971,355	60,298
Gem stones:					
Diamond	thousand carats	r5,551	1,011,839	6,411	1,444,537
Emeralds	do	1,165	55,286	1,563	64,375
Other		NA	112,241	NA	129,192
Graphite	short tons	79,098	6,753	87,556	8,058
Gypsum:					
Crude, ground, calcined	thousand short tons	6,253	18,285	7,078	22,139
Manufactures		NA	r3,471	NA	9,259
Iodine, crude	thousand pounds	6,482	13,824	6,940	13,831
Kyanite	short tons	110	12	53	7
Lime:					
Hydrated	do	48,461	1,814	52,875	1,878
Other	do	316,442	8,816	370,012	11,192
Lithium:					
Ore	do	68	1		
Compounds	do	48	621	23	419
Magnesium compounds:					
Crude magnesite	do	r20	2	249	11
Lump, ground, caustic-calcined magnesia	do	8,194	808	5,788	566
Refractory magnesia, dead-burned, fused magnesite, dead-burned dolomite	do	88,035	14,518	75,624	12,995
Compounds	do	27,039	2,267	41,878	3,086
Mica:					
Uncut sheet and punch	thousand pounds	1,654	941	2,179	988
Scrap	do	r4,213	r205	2,348	112
Manufactures	do	3,328	3,193	3,267	3,373
Mineral-earth pigments, iron oxide pigments:					
Ocher, crude and refined	short tons	r53	11	44	13
Siennas, crude and refined	do	624	122	620	171
Umber, crude and refined	do	6,908	561	6,957	591
Vandyke brown	do	739	147	1,052	194
Other natural and refined	do	1,231	190	1,102	226
Synthetic	do	40,547	15,523	48,918	19,402
Nepheline syenite:					
Crude	do	2,112	38	860	17
Ground, crushed, etc	do	499,135	8,785	501,696	9,118
Nitrogen compounds (major), including urea	thousand short tons	3,467	296,814	4,738	447,050

See footnotes at end of table.

Table 10.—U.S. imports for consumption of principal minerals and products —Continued

Mineral		1976		1977	
		Quantity	Value (thousands)	Quantity	Value (thousands)
NONMETALS —Continued					
Peat:					
Fertilizer grade	short tons	332,433	$28,939	324,058	$30,310
Poultry and stable grade	do	5,618	553	6,252	612
Phosphate, crude	metric tons	r42	r2,209	158	6,079
Phosphatic materials:					
Fertilizer and fertilizer materials	thousand metric tons	43	6,631	54	5,095
Ammonium phosphates used as fertilizers	do	317	44,250	338	39,331
Elemental phosphorous	do	1	1,604	(2)	1,461
Other phosphatic materials	do	4	1,032	6	1,133
Pigments and salts:					
Lead pigments and compounds	short tons	17,836	9,462	22,316	14,724
Zinc pigments and compounds	do	27,969	15,557	30,154	17,332
Potash	do	7,595,246	360,756	8,405,338	392,235
Pumice:					
Crude or unmanufactured	do	3,344	148	6,291	205
Wholly or partly manufactured	do	78,057	350	247,172	993
Manufactures, n.s.p.f		NA	70	NA	133
Quartz crystal (Brazilian pebble)	pounds	1,148,801	368	1,333,863	780
Salt	thousand short tons	4,352	23,476	4,529	26,694
Sand and gravel:					
Glass sand	do	61	489	35	333
Other sand and gravel	do	292	431	351	392
Sodium compounds:					
Sodium carbonate and bicarbonate	do	2	155	5	594
Sodium sulfate	do	316	16,111	223	11,230
Stone and whiting		NA	46,211	NA	48,581
Strontium:					
Mineral	short tons	35,711	1,486	42,986	1,915
Compounds	do	5,375	r2,335	1,759	1,021
Sulfur and compounds, sulfur ore and other forms, n.e.s.	thousand long tons	1,727	59,494	1,977	65,154
Talc, unmanufactured	short tons	20,071	1,861	22,090	2,094
Total		XX	r14,109,153	XX	16,744,111

rRevised. NA Not available. XX Not applicable.
[1]Includes titanium slag averaging about 70% TiO_2, for detail see Titanium chapter.
[2]Less than 1/2 unit.

Table 11.—Comparison of world and U. S. production of selected nonfuel mineral commodities

(Thousand short tons unless otherwise specified)

Minerals		1976			1977[p]		
		World production[1]	U.S. production	U.S. percent of world production	World production[1]	U.S. production	U.S. percent of world production
METALS, MINE BASIS							
Antimony (content of ore and concentrate)	short tons	76,576	283	(2)	78,977	610	1
Arsenic, white	do	38,505	W	NA	37,798	W	NA
Bauxite	thousand long tons	76,602	[3]1,958	3	81,102	[3]1,981	2
Beryl	short tons	2,675	W	NA	2,656	W	NA
Bismuth	thousand pounds	8,532	W	NA	8,844	W	NA
Chromite		9,454	--	--	10,804	--	--
Cobalt (contained)	short tons	31,197	--	--	32,611	--	--
Columbium-tantalum concentrate[4]	thousand pounds	51,940	--	--	58,759	W	NA
Copper (content of ore and concentrate)		8,272	[5]1,606	19	8,503	1,504	18
Gold	thousand troy ounces	39,089	1,048	3	38,966	1,100	3
Iron ore	thousand long tons	881,157	[6]79,993	9	844,000	55,751	7
Lead (content of ore and concentrate)		3,677	610	17	3,759	592	16
Manganese ore (35% or more Mn)		27,153	--	--	24,267	--	--
Mercury	thousand 76-pound flasks	240	23	10	199	28	14
Molybdenum (content of ore and concentrate)	thousand pounds	191,736	113,233	59	205,921	122,408	59
Nickel (content of ore and concentrate)		905	16	2	852	14	2
Platinum-group metals	thousand troy ounces	5,979	6	(2)	6,386	6	(2)
Silver	do	312,150	34,328	11	325,475	38,166	12
Tin (content of ore and concentrate)	metric tons	228,005	W	NA	231,438	W	NA
Titanium concentrates:							
Ilmenite		3,526	652	18	3,723	639	17
Rutile[4]		471	W	NA	396	W	NA
Tungsten concentrate (contained tungsten)	thousand pounds	91,767	5,830	6	93,630	6,008	6
Uranium oxide (U_3O_8)[4]	short tons	28,234	11,521	41	34,616	13,426	39
Vanadium (content of ore and concentrate)	do	31,271	7,376	24	33,317	6,504	20
Zinc (content of ore and concentrate)		6,358	485	8	6,683	450	7
METALS, SMELTER BASIS							
Aluminum		13,771	4,251	31	15,049	4,539	30
Cadmium	short tons	18,180	[7]2,256	12	18,898	2,204	12
Copper		8,039	[8]1,535	19	18,278	1,435	17
Iron, pig		551,193	86,848	16	542,696	81,494	15
Lead		3,811	[9]653	17	3,847	[9]605	16
Magnesium		149	W	NA	151	W	NA
Selenium[4]	thousand pounds	2,501	401	16	3,019	499	17
Steel ingots and castings		747,103	[10]128,000	17	741,648	[10]125,333	17

Tellurium[4]	thousand pounds	NA	W	NA	NA	W	NA
Tin	metric tons	229,861	[11]5,700	2	230,243	[11]6,700	3
Zinc		5,908	499	8	6,041	450	7
NONMETALS							
Asbestos		5,623	115	2	5,879	102	2
Barite		5,666	1,234	22	5,892	1,494	25
Cement		810,656	[12]74,495	9	856,939	[12]80,060	9
Clay, china		18,247	[13]6,115	34	18,795	[13]6,469	34
Corundum		9	--	--	10	--	--
Diamond	thousand carats	38,073	--	--	39,470	--	--
Diatomite		1,919	631	33	1,976	648	33
Feldspar		2,936	740	25	3,045	734	24
Fluorspar		4,932	188	4	5,148	169	3
Graphite		498	W	NA	504	W	NA
Gypsum		69,175	11,980	17	72,164	13,390	19
Lime (sold or used)		119,117	[12]20,257	17	121,649	[12]19,987	16
Magnesite		9,847	W	NA	9,753	W	NA
Mica (including scrap)	thousand pounds	494,596	281,429	57	587,437	352,759	60
Nitrogen, agricultural[14]		48,291	[12]10,572	22	50,565	[12]10,792	21
Peat		222,745	774	([2])	223,577	781	([2])
Phosphate rock	thousand metric tons	107,616	44,662	42	115,948	47,256	41
Potash (K_2O equivalent)		26,741	2,400	9	28,356	2,457	9
Pumice[4]		17,375	4,181	24	17,060	4,011	24
Pyrites (sulfur content)	thousand long tons	9,311	286	3	9,127	166	2
Salt		185,324	[12]44,218	24	187,292	[12]43,439	23
Strontium[4]		67	--	--	74	--	--
Sulfur, elemental	thousand long tons	49,697	10,707	22	50,649	10,558	21
Talc, pyrophyllite, soapstone		5,976	1,092	18	6,331	1,205	19
Vermiculite[4]		577	304	53	570	359	63

[P]Preliminary. NA Not available. W Withheld to avoid to disclosing company proprietary data.

[1]May not represent total world production because confidential U.S. data are excluded for some commodities. World totals include reported figures and reasonable estimates; however, for some commodities where data were not available, no reasonable estimates could be made and none have been included.

[2]Less than 1/2 unit.

[3]Dry bauxite, equivalent of crude ore.

[4]World total exclusive of the U.S.S.R.

[5]Recoverable.

[6]Includes byproduct ore.

[7]Includes secondary.

[8]Smelter output from domestic and foreign ores, exclusive of scrap.

[9]Lead refined from domestic and foreign ores; excludes lead refined from imported base bullion.

[10]Data from American Iron and Steel Institute. Excludes production of castings by companies that do not produce steel ingot.

[11]Includes tin content of alloys made directly from ore.

[12]Includes Puerto Rico.

[13]Kaolin sold or used by producers.

[14]Year ended June 30 of year stated (United Nations).