

Table 870. Mineral Production: 1990 to 2008

[1,029.1 represents 1,029,100,000. Data represent production as measured by mine shipments, mine sales, or marketable production; see Appendix IV]

Minerals and Metals	Unit	1990	2000	2006	2007	2008, est.
FUEL MINERALS						
Coal, total ¹	Mil. sh. tons	1,029.1	1,073.6	1,162.7	1,146.6	1,171.5
Bituminous	Mil. sh. tons	693.2	574.3	561.6	542.8	559.4
Subbituminous	Mil. sh. tons	244.3	409.2	515.3	523.7	534.7
Lignite	Mil. sh. tons	88.1	85.6	84.2	78.6	75.7
Anthracite ¹	Mil. sh. tons	3.5	4.6	1.5	1.6	1.7
Natural gas (marketed production)	Tril. cu. ft.	18.59	20.20	19.41	20.02	21.46
Petroleum (crude)	Mil. bbl. ²	2,685	2,131	1,862	1,848	1,814
Uranium (recoverable content)	Mil. lb.	8.9	4.0	4.1	4.5	3.9
NONFUEL MINERALS						
Asbestos (sales)	1,000 metric tons	(D)	5	–	–	–
Barite, primary, sold/used by producers	1,000 metric tons	430	392	589	455	615
Boron minerals, sold or used by producers	1,000 metric tons	1,090	1,070	(D)	(D)	(D)
Bromine, sold or used by producers	1,000 metric tons	177	228	243	(D)	(D)
Cement:						
Portland ³	Mil. metric tons	67	84	93	90	85
Masonry ⁴	Mil. metric tons	3	4	5	4	3
Clays	1,000 metric tons	42,900	40,800	41,200	36,800	33,200
Diatomite	1,000 metric tons	631	677	799	687	653
Feldspar ⁴	1,000 metric tons	630	790	760	730	600
Fluorspar, finished shipments	1,000 metric tons	64	–	–	–	(NA)
Garnet (industrial)	1,000 metric tons	47	60	34	61	61
Gypsum, crude	Mil. metric tons	15	20	21	18	13
Helium ⁵	Mil. cu. meters	65	98	79	77	78
Lime, sold or used by producers	Mil. metric tons	16	20	21	20	20
Mica, scrap & flake, sold/used by producers	1,000 metric tons	109	101	110	97	99
Peat, sales by producers	1,000 metric tons	721	847	734	694	700
Perlite, processed, sold or used	1,000 metric tons	576	672	454	409	449
Phosphate rock (marketable)	Mil. metric tons	46	39	30	30	31
Potash (K ₂ O equivalent) sales	1,000 metric tons	1,710	1,300	1,100	1,100	1,200
Pumice & pumicite, producer sales	1,000 metric tons	443	1,050	1,540	1,270	1,140
Salt, common, sold/used by producers	Mil. metric tons	37	46	44	45	46
Sand & gravel, sold/used by producer	Mil. metric tons	855	1,148	1,349	1,260	1,070
Construction	Mil. metric tons	829	1,120	1,320	1,230	1,040
Industrial	Mil. metric tons	26	28	29	30	30
Sodium carbonate (natural) (soda ash)	1,000 metric tons	9,100	10,200	11,000	11,100	11,300
Sodium sulfate (natural)	1,000 metric tons	349	(NA)	290	312	320
Stone ⁶	Mil. metric tons	2,230	2,810	3,100	2,990	2,790
Crushed and broken	Mil. metric tons	1,110	1,560	1,770	1,600	1,340
Dimension ⁷	1,000 metric tons	1,120	1,250	1,330	1,390	1,450
Sulfur: Total shipments	1,000 metric tons	11,500	10,700	8,960	9,120	9,200
Sulfur: Frasch mines (shipments)	1,000 metric tons	3,680	900	–	–	–
Talc and pyrophyllite, crude	1,000 metric tons	1,270	851	895	769	645
Vermiculite concentrate	1,000 metric tons	209	150	100	100	100
METALS						
Antimony ore and concentrate	Metric tons	(D)	(D)	–	(D)	(D)
Aluminum	1,000 metric tons	4,048	3,668	2,284	2,554	2,640
Bauxite (dried)	1,000 metric tons	(D)	(NA)	(NA)	(NA)	(NA)
Copper (recoverable content)	1,000 metric tons	1,590	1,450	1,200	1,170	1,310
Gold (recoverable content)	Metric tons	294	353	252	238	230
Iron ore (gross weight) ⁸	Mil. metric tons	57	61	53	51	56
Lead (recoverable content)	1,000 metric tons	484	449	419	434	420
Magnesium metal	1,000 metric tons	139	(D)	(D)	(D)	(D)
Manganiferous ore (gross weight) ⁹	1,000 metric ton	(D)	–	(NA)	(NA)	(NA)
Mercury ¹⁰	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)
Molybdenum (concentrate)	1,000 metric tons	62	41	60	57	61
Nickel ore (recovered Ni content)	1,000 metric tons	330	–	–	–	–
Palladium metal	Kilograms	5,930	10,300	14,400	12,800	12,400
Platinum metal	Kilograms	1,810	3,110	4,290	3,860	3,700
Silicon (Si content)	1,000 metric tons	418	367	146	155	166
Silver (recoverable content)	Metric tons	2,120	1,860	1,140	1,260	1,120
Titanium concentrate (TiO ₂ content)	1,000 metric tons	(D)	300	300	300	200
Tungsten ore and concentrate ¹²	Metric tons	(D)	–	–	(D)	(D)
Zinc (recoverable content)	1,000 metric tons	508	796	699	769	794

– Represents or rounds to zero. D Withheld to avoid disclosing individual company data. NA Not available. ¹ Beginning 2006, includes a small amount of refuse recovery. ² 42 gal. bbl. ³ Excludes Puerto Rico. ⁴ Beginning 2000, includes apilite. ⁵ Refined. ⁶ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table; includes calcareous marl and slate. ⁷ Includes Puerto Rico in 1990. ⁸ Represents shipments; includes byproduct ores. ⁹ 5- to 35-percent manganiferous ore. ¹⁰ Mercury recovered as a byproduct of gold ores only, 1990. ¹¹ Ferrosilicon only; silicon metal withheld to avoid disclosing proprietary data. ¹² Content of ore and concentrate.

Source: Nonfuels, 1990 only, U.S. Bureau of Mines, thereafter, U.S. Geological Survey, *Minerals Yearbook and Mineral Commodities Summaries*, annual. See also <<http://minerals.er.usgs.gov/minerals/pubs/mcs/>>. Fuels, U.S. Energy Information Administration, *Annual Energy Review*, 2008. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>>.