

Table 898. Mineral Production: 1990 to 2009

[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	2007	2008	2009, est.
		FUEL MINERALS				
Coal, total ¹	Mil. sh. tons	1,029.1	1,073.6	1,146.6	1,171.8	1,072.8
Bituminous ¹	Mil. sh. tons	693.2	574.3	542.8	555.3	493.7
Subbituminous	Mil. sh. tons	244.3	409.2	523.7	539.1	504.7
Lignite	Mil. sh. tons	88.1	85.6	78.6	75.7	72.5
Anthracite ¹	Mil. sh. tons	3.5	4.6	1.6	1.7	1.9
Natural gas (marketed production)	Tril. cu. ft.	18.59	20.20	20.20	21.24	21.89
Petroleum (crude)	Mil. bbl. ²	2,685	2,131	1,848	1,812	1,938
Uranium (recoverable content)	Mil. lb.	8.9	4.0	4.5	3.9	(NA)
NONFUEL MINERALS						
Asbestos (sales)	1,000 metric tons	(D)	5	—	—	—
Barite, primary, sold/used by producers	1,000 metric tons	430	392	455	648	380
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	(D)	(D)	(D)
Cement:						
Portland ³	Mil. metric tons	67	84	91	83	70
Masonry ³	Mil. metric tons	3	4	4	3	2
Clays	1,000 metric tons	42,900	40,800	36,800	33,200	25,300
Diatomite	1,000 metric tons	631	677	687	764	790
Feldspar ⁴	1,000 metric tons	630	790	730	650	530
Fluorspar, finished shipments	1,000 metric tons	64	—	—	(NA)	(NA)
Garnet (industrial)	1,000 metric tons	47	60	61	63	57
Gypsum, crude	Mil. metric tons	15	20	18	14	9
Helium ⁵	Mil. cu. meters	65	98	77	80	80
Lime, sold or used by producers	Mil. metric tons	16	20	20	20	15
Mica, scrap & flake, sold/used by producers	1,000 metric tons	109	101	97	84	90
Peat, sales by producers	1,000 metric tons	721	847	694	648	641
Perlite, processed, sold or used	1,000 metric tons	576	672	409	434	380
Phosphate rock (marketable)	Mil. metric tons	46	39	30	30	27
Potash (K ₂ O equivalent) sales	1,000 metric tons	1,710	1,300	1,100	1,100	840
Pumice & pumicite, producer sales	1,000 metric tons	443	1,050	1,270	791	800
Salt, common, sold/used by producers	Mil. metric tons	37	46	45	47	46
Sand & gravel, sold/used by producer:						
Construction	Mil. metric tons	829	1,120	1,230	1,040	800
Industrial	Mil. metric tons	26	28	30	30	27
Sodium carbonate (natural) (soda ash)	1,000 metric tons	9,100	10,200	11,100	11,300	9,300
Sodium sulfate (natural)	1,000 metric tons	349	(NA)	312	319	300
Stone ⁶ :						
Crushed and broken	Mil. metric tons	2,230	2,810	3,570	3,240	2,940
Dimension ⁷	Mil. metric tons	1,110	1,560	1,650	1,440	1,110
Dimension ⁷	1,000 metric tons	1,120	1,250	1,920	1,800	1,830
Sulfur: Total shipments	1,000 metric tons	11,500	10,700	9,130	9,430	9,700
Sulfur: Frasch mines (shipments)	1,000 metric tons	3,680	900	—	—	—
Talc and pyrophyllite, crude ⁸	1,000 metric tons	1,270	851	769	706	527
Vermiculite concentrate	1,000 metric tons	209	150	100	100	110
METALS						
Antimony ore and concentrate	Metric tons	(D)	(D)	(D)	—	—
Aluminum	1,000 metric tons	4,048	3,668	2,554	2,658	1,730
Bauxite (dried)	1,000 metric tons	(D)	(NA)	(NA)	(NA)	(NA)
Copper (recoverable content)	1,000 metric tons	1,590	1,450	1,170	1,310	1,190
Gold (recoverable content)	Metric tons	294	353	238	233	210
Iron ore (gross weight) ⁹	Mil. metric tons	57	61	51	54	28
Lead (recoverable content)	1,000 metric tons	484	449	434	399	400
Magnesium metal	1,000 metric tons	139	(D)	(D)	(D)	(D)
Manganiferous ore (gross weight) ¹⁰	1,000 metric ton.	(D)	—	(NA)	(NA)	(NA)
Mercury ¹¹	Metric tons	(NA)	(NA)	(NA)	(NA)	(NA)
Molybdenum (concentrate)	1,000 metric tons	62	41	57	56	50
Nickel ore (recovered Ni content)	1,000 metric tons	330	—	—	—	—
Palladium metal	Kilograms	5,930	10,300	12,800	11,900	12,500
Platinum metal	Kilograms	1,810	3,110	3,860	3,580	3,800
Silicon (Si content)	1,000 metric tons	418	367	¹² 155	¹² 164	¹² 140
Silver (recoverable content)	Metric tons	2,120	1,860	1,280	1,230	1,230
Titanium concentrate (TiO ₂ content)	1,000 metric tons	(D)	300	300	200	200
Tungsten ore and concentrate ¹³	Metric tons	(D)	—	(D)	(D)	(D)
Zinc (recoverable content)	1,000 metric tons	508	796	769	748	670

— Represents or rounds to zero. D Withheld to avoid disclosing individual company data. NA Not available. ¹ Beginning 2007, includes a small amount of refuse recovery. ² 42 gal. bbl. ³ Excludes Puerto Rico. ⁴ Beginning 2000, includes aplite. 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 Includes talc only after 1990. ⁹ Represents shipments; includes byproduct ores. ¹⁰ 5- to 35-percent manganiferous ore. ¹¹ Mercury recovered as a byproduct of gold ores only, 1990.

¹² Ferrosilicon only; silicon metal withheld to avoid disclosing proprietary data. ¹³ 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, 2009*, August 2010. See also <<http://www.eia.doe.gov/emeu/aer/contents.html>>.