

MAGNESIUM COMPOUNDS STATISTICS
By Carl A. DiFrancesco and Deborah A. Kramer
[All values in metric tons (t) unless otherwise noted]
Last modification: February 9, 2004

Year	Production	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production
1900	977			977	19.5	380	
1901	1,520			1,520	7.30	140	
1902	1,230			1,230	6.50	120	
1903	1,620	41,400		43,000	6.80	120	
1904	1,240	28,300		1,240	7.30	130	
1905	1,710	63,900		1,710	8.80	160	
1906	3,390	73,100		3,390	6.80	120	
1907	3,280	79,100		82,400	7.00	120	
1908	2,860	67,700		70,600	7.00	130	
1909	4,110	99,600		104,000	9.30	170	
1910	5,390	147,000		152,000	13.9	240	
1911	4,070	117,000		121,000	18.4	320	
1912	4,560	122,000		127,000	18.4	310	
1913	4,180	158,000		162,000	18.4	303	556,000
1914	4,900	117,000		122,000	25.3	413	434,000
1915	13,200	46,000		59,200	20.7	334	307,000
1916	67,200	41,200		108,000	20.7	309	599,000
1917	137,000	16,800		154,000	21.1	269	753,000
1918	100,000	19,600		120,000	18.0	194	364,000
1919	67,800	11,400		79,100	18.4	174	284,000
1920	132,000	28,100		160,000	20.9	170	576,000
1921	20,800	30,300		51,100	24.6	224	384,000
1922	21,900	100,000		122,000	39.4	383	536,000
1923	67,200	71,900		139,000	28.8	274	514,000
1924	52,500	61,000		113,000	37.4	356	491,000
1925	49,800	64,400		114,000	41.2	385	716,000
1926	61,300	84,700		146,000	44.0	404	716,000
1927	49,100	55,900		105,000	29.4	275	833,000
1928	53,100	58,600		112,000	28.8	274	827,000
1929	81,700	53,400		135,000	23.8	227	1,060,000
1930	52,700	42,500		95,200	22.1	217	834,000
1931	31,000	13,400		44,300	23.4	251	691,000
1932	16,500	9,650		26,200	24.9	296	697,000
1933	47,000	17,000		63,900	21.8	273	883,000
1934	47,800	23,400		71,300	45.1	549	1,160,000
1935	77,400	24,700		102,000	30.5	363	1,440,000
1936	88,900	42,100		131,000	21.8	256	1,590,000
1937	84,600	55,200		140,000	22.6	256	2,000,000
1938	41,900	25,300		67,200	22.9	265	1,700,000
1939	87,300	43,700		131,000	23.0	270	2,000,000
1940	142,000	29,300		172,000	23.3	271	2,000,000
1941	210,000	34,700		245,000	29.0	322	2,000,000
1942	357,000	7,860		365,000	67.1	671	2,300,000
1943	593,000	8,690		602,000	83.1	784	2,400,000
1944	502,000	6,660		509,000	81.8	757	2,000,000
1945	298,000	5,430		303,000	54.1	492	1,200,000
1946	284,000	2,210		286,000	52.2	435	1,200,000
1947	335,000	2,120		337,000	56.7	414	1,600,000
1948	356,000	3,760		359,000	69.0	466	2,400,000
1949	281,000	3,730		285,000	73.7	505	2,700,000
1950	366,000	15,100		381,000	75.0	507	1,330,000

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1951	464,000	30,400		494,000	68.3	427	1,650,000
1952	404,000	24,800		429,000	69.3	425	1,520,000
1953	422,000	39,300		461,000	69.8	426	1,780,000
1954	340,000	65,700		405,000	89.9	545	1,650,000
1955	494,000	98,400		592,000	78.9	481	1,930,000
1956	532,000	95,200		627,000	80.9	484	2,360,000
1957	671,000	75,300	24,600	722,000	101	587	2,470,000
1958	594,000	76,200	48,200	622,000	79.8	451	2,330,000
1959	749,000	144,000	78,200	814,000	75.9	424	3,740,000
1960	771,000	110,000	83,600	797,000	77.2	424	6,820,000
1961	914,000	53,400	111,000	856,000	74.7	408	7,250,000
1962	895,000	98,400	65,200	929,000	85.0	459	7,440,000
1963	1,100,000	89,300	70,400	1,120,000	81.1	431	8,980,000
1964	924,000	65,200	72,000	918,000	91.5	482	9,540,000
1965	996,000	128,000	70,200	1,050,000	93.2	483	10,000,000
1966	969,000	186,000	72,900	1,080,000	89.3	449	10,100,000
1967	841,000	126,000	65,500	902,000	99.3	484	10,200,000
1968	846,000	134,000	58,400	922,000	103	484	10,700,000
1969	941,000	116,000	58,800	999,000	105	466	9,630,000
1970	988,000	138,000	89,800	1,040,000	121	508	8,720,000
1971	834,000	142,000	54,900	921,000	130	523	8,970,000
1972	804,000	138,000	55,500	887,000	107	417	8,830,000
1973	942,000	170,000	54,500	1,060,000	115	422	9,070,000
1974	925,000	158,000	56,200	1,030,000	129	426	9,870,000
1975	802,000	157,000	83,200	877,000	168	509	9,640,000
1976	870,000	93,800	73,900	890,000	177	507	9,070,000
1977	814,000	85,400	80,300	819,000	183	492	9,960,000
1978	1,200,000	95,500	97,400	1,190,000	185	463	10,200,000
1979	1,250,000	101,000	92,000	1,260,000	188	422	10,900,000
1980	1,130,000	87,900	97,700	1,120,000	247	489	11,500,000
1981	972,000	91,400	52,300	1,010,000	270	484	11,300,000
1982	780,000	82,700	32,700	830,000	285	481	11,400,000
1983	779,000	120,000	24,900	874,000	276	452	11,300,000
1984	704,000	208,000	44,800	867,000	264	414	11,800,000
1985	531,000	236,000	42,100	724,000	366	554	12,200,000
1986	491,000	279,000	42,200	728,000	366	544	12,300,000
1987	577,000	283,000	33,100	827,000	314	451	12,000,000
1988	782,000	344,000	57,800	1,070,000	302	416	12,000,000
1989	734,000	299,000	73,000	961,000	310	408	12,000,000
1990	737,000	258,000	147,000	847,000	299	373	10,500,000
1991	668,000	273,000	128,000	813,000	343	411	9,790,000
1992	615,000	310,000	107,000	818,000	320	372	10,200,000
1993	585,000	437,000	116,000	906,000	331	373	8,280,000
1994	555,000	497,000	105,000	946,000	340	374	9,020,000
1995	592,000	576,000	132,000	1,040,000	407	435	10,600,000
1996	672,000	426,000	154,000	945,000	412	428	11,000,000
1997	666,000	456,000	128,000	994,000	432	439	10,100,000
1998	572,000	599,000	123,000	1,050,000	391	391	11,400,000
1999	567,000	569,000	116,000	1,020,000	380	372	9,830,000
2000	525,000	704,000	124,000	1,100,000	406	384	12,700,000
2001	544,000	566,000	130,000	980,000	425	391	11,200,000

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2002	409,000	591,000	134,000	866,000	439	398	11,200,000

Magnesium Compounds Worksheet Notes

Data Sources

The sources of data for the magnesium compounds worksheet were the mineral statistics publications of the U.S. Bureau of Mines and the U.S. Geological Survey—Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR). The years of publication and corresponding years of data coverage are listed in the References section below. Blank cells in the worksheet indicate that data were not available.

Production

Production data were for contained magnesium oxide for magnesium compounds in the United States. Data were from the MR and the MYB. Production data for magnesium compounds include refractory (dead-burned) magnesia, caustic-calcined magnesia, magnesium carbonate, magnesium chloride, magnesium hydroxide, and magnesium sulfate.

Imports

Import data reported the amount of contained magnesium oxide for magnesium compounds imported into the United States. Data were from the MR and the MYB. Imports of magnesium compounds included refractory (dead-burned) magnesia, caustic-calcined magnesia, magnesium oxide, magnesium carbonate, magnesium chloride, magnesium hydroxide, magnesium sulfate (including epsom salts and kieserite), and crude magnesite. Blank cells in the worksheet indicate that data were not available for the years 1900–02.

Exports

Export data reported the amounts of contained magnesium oxide for magnesium compounds exported from the United States. Data were from the MR and MYB. Exports of magnesium compounds included refractory (dead-burned) magnesia, caustic-calcined magnesia, magnesium oxide, magnesium carbonate, magnesium chloride, magnesium hydroxide, magnesium sulfate (including epsom salts and kieserite), and crude magnesite. Blank cells in the worksheet indicate that data were not available for the years 1900–56.

Apparent Consumption

Apparent consumption was calculated for the years 1900–2002 by using the formula:

$$\text{APPARENT CONSUMPTION} = \text{PRODUCTION} + \text{IMPORTS} - \text{EXPORTS}.$$

Stock data for magnesium compounds were not available and were not included in the apparent consumption calculations.

Unit Value (\$/t)

Unit value is the value in dollars of 1 metric ton (t) of magnesium compounds apparent consumption. Unit value was estimated for the United States in actual dollars by using weighted average price data from the MR and the MYB for contained magnesium oxide in magnesium compounds.

Unit Value (98\$/t)

The Consumer Price Index conversion factor, with 1998 as the base year, is used to adjust unit value in current U.S. dollars to the unit value in constant 1998 U.S. dollars.

World Production

World production data were for magnesite (magnesium carbonate) produced. Data were from the MR and the MYB. Blank cells in the worksheet indicate that data were not available for the years 1900–12.

References

- U.S. Bureau of Mines, 1927–34, Mineral Resources of the United States, 1924–31.
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- U.S. Geological Survey, 1997–2004, Minerals Yearbook, v. I, 1995–2002.

For more information, please contact:

Deborah A. Kramer
USGS Magnesium Compounds Commodity Specialist
(703) 648-7719
dkramer@usgs.gov

Carl A. DiFrancesco
Minerals and Materials Analysis Section, USGS
(303) 236-8747 x 324
difrance@usgs.gov