

MAGNESIUM COMPOUNDS STATISTICS¹

U.S. GEOLOGICAL SURVEY

[All values in metric tons (t) of magnesium oxide content unless otherwise noted]

Last modification: September 30, 2008

Year	Production	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production (gross weight)
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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Year	Production	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production (gross weight)
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	1,210,000	74,600	48,100	1,230,000	79.8	451	2,330,000
1959	1,480,000	141,000	77,900	1,540,000	75.9	424	3,740,000
1960	1,450,000	108,000	82,900	1,470,000	77.2	424	6,820,000
1961	1,590,000	51,400	111,000	1,530,000	74.7	408	7,250,000
1962	1,500,000	96,200	64,700	1,530,000	85.0	459	7,440,000
1963	1,660,000	87,900	69,700	1,680,000	81.1	431	8,980,000
1964	1,770,000	63,000	71,300	1,770,000	91.5	482	9,540,000
1965	1,840,000	126,000	69,700	1,890,000	93.2	483	10,000,000
1966	1,860,000	169,000	73,000	1,960,000	89.3	449	10,100,000
1967	1,580,000	116,000	64,700	1,640,000	99.3	484	10,200,000
1968	1,560,000	119,000	58,000	1,630,000	103	484	10,700,000
1969	1,670,000	103,000	58,000	1,710,000	105	466	9,630,000
1970	1,550,000	126,000	89,600	1,580,000	121	508	8,720,000
1971	1,320,000	128,000	54,700	1,390,000	130	523	8,970,000
1972	1,430,000	131,000	54,700	1,500,000	107	417	8,830,000
1973	1,440,000	154,000	54,700	1,540,000	115	422	9,070,000
1974	1,430,000	149,000	56,400	1,520,000	129	426	9,870,000
1975	1,310,000	148,000	82,900	1,380,000	168	509	9,640,000
1976	1,390,000	86,200	74,600	1,400,000	177	507	9,070,000
1977	1,390,000	74,600	79,600	1,380,000	183	492	9,960,000
1978	1,440,000	86,200	97,800	1,430,000	185	463	10,200,000
1979	1,510,000	89,600	91,200	1,510,000	188	422	10,900,000
1980	1,210,000	76,300	97,800	1,180,000	247	489	11,500,000
1981	1,140,000	82,900	53,100	1,170,000	270	484	11,300,000
1982	849,000	64,700	33,200	881,000	285	481	11,400,000
1983	940,000	101,000	24,900	1,020,000	276	452	11,300,000
1984	952,000	191,000	44,800	1,100,000	264	414	11,800,000
1985	697,000	222,000	41,500	877,000	366	554	12,200,000
1986	683,000	265,000	41,500	907,000	366	544	12,300,000
1987	769,000	272,000	33,200	1,010,000	314	451	12,000,000
1988	950,000	328,000	56,400	1,220,000	302	416	12,000,000
1989	851,000	284,000	43,100	1,090,000	310	408	12,000,000
1990	828,000	244,000	97,800	973,000	299	373	10,500,000
1991	733,000	259,000	94,500	897,000	343	411	9,790,000
1992	693,000	297,000	81,300	909,000	320	372	10,200,000
1993	640,000	425,000	86,200	978,000	331	373	8,280,000
1994	572,000	476,000	76,300	972,000	340	374	9,020,000
1995	597,000	544,000	89,600	1,050,000	407	435	10,600,000
1996	645,000	398,000	109,000	934,000	412	428	11,000,000
1997	667,000	430,000	92,900	1,000,000	432	439	10,100,000
1998	609,000	570,000	81,300	1,100,000	391	391	11,400,000
1999	655,000	532,000	86,200	1,100,000	380	372	9,830,000
2000	614,000	655,000	92,900	1,180,000	406	384	12,700,000
2001	643,000	509,000	103,000	1,050,000	425	391	11,100,000

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Year	Production	Imports	Exports	Apparent consumption	Unit value (\$/t)	Unit value (98\$/t)	World production (gross weight)
2002	517,000	559,000	109,000	967,000	439	398	14,100,000
2003	546,000	551,000	87,900	1,010,000	512	453	14,100,000
2004	484,000	590,000	57,000	1,020,000	595	513	16,500,000
2005	499,000	648,000	52,000	1,100,000	594	496	15,100,000
2006	468,000	615,000	47,000	1,035,000	602	487	15,000,000
2007	567,000	592,000	43,000	1,116,000	531	417	15,200,000

¹Compiled by C.A. DiFrancesco (retired) and D.A. Kramer.

Data are calculated, estimated, or reported. See notes for more information.

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); Mineral Commodity Summaries (MCS); and Statistical Compendium (SC). 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. For 1900–57, production data for magnesium compounds include refractory (dead-burned) magnesia, caustic-calcined magnesia, magnesium carbonate, magnesium chloride, magnesium hydroxide, and magnesium sulfate. For 1900–57, data were from the MR and the MYB. For 1958–2003, production data were contained magnesium oxide for magnesium compounds produced from brucite, dolomite, magnesite, olivine, and seawater and brines. For 1958–98, data were from the SC, and for 1999 to the most recent year, data were from the MCS. MCS data were converted to magnesium oxide content from magnesium content using a factor of 0.603.

Imports

Import data reported the amount of contained magnesium oxide for magnesium compounds imported into the United States. 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. For 1903–57, data were from the MR and the MYB, for 1958–98, data were from the SC and for 1999 to the most recent, data were from the MCS. MCS data were converted to magnesium oxide content from magnesium content using a factor of 0.603. 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. 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. For 1957, data were from the MR and the MYB, for 1958–98, data were from the SC and for 1999 to the most recent year, data were from the MCS. MCS data were converted to magnesium oxide content from magnesium content using a factor of 0.603. 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 to the most recent 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. Data used in the above equation are from the MR, MYB, SC, and MCS.

Unit Value (\$/t)

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

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 are in terms of metric tons gross weight of magnesite (magnesium carbonate) produced. Data were from the MR and the MYB. Blank cells for the years 1900–12 in the worksheet indicate that data were not available.

References

- U.S. Bureau of Mines, 1927–34, Mineral Resources of the United States, 1924–31.
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Recommended Citation Format:

U.S. Geological Survey, [year of last update, e.g., 2005], [Mineral commodity, e.g., Gold] statistics, in Kelly, T.D., and Matos, G.R., comps., Historical statistics for mineral and material commodities in the United States: U.S. Geological Survey Data Series 140, available online at <http://pubs.usgs.gov/ds/2005/140/>. (Accessed [date].)

For more information, please contact:

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