

# Mineral Industry Surveys

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**For information, contact:**

Lisa A. Corathers, Manganese Commodity Specialist  
U.S. Geological Survey  
989 National Center  
Reston, VA 20192  
Telephone: (703) 648-4973, Fax: (703) 648-7757  
E-mail: lcorathers@usgs.gov

Jesse J. Inestroza (Data)  
Telephone: (703) 648-7968  
Fax: (703) 648-7975  
jinestro@usgs.gov

**Internet:** <http://minerals.usgs.gov/minerals>

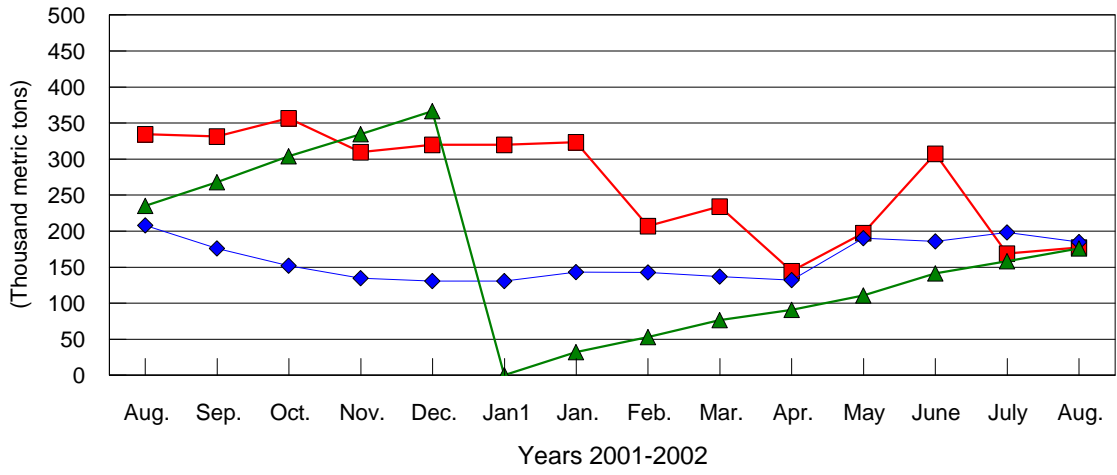
## MANGANESE IN AUGUST 2002

In August, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 17,700 metric tons (t), which was a 7% increase from that for the previous month, according to the U.S. Geological Survey. The figure for August increases to 20,141 t when estimates for annual respondents are added on the basis of 2000 data. Corresponding industry stocks of ore at the end of the month were 185,000 t, which include an

estimate for annual respondents on the basis of 2000 data. This was a decrease of 6% from that of the previous month. (Data for the most recent 13 months are plotted in the graph on page 2.)

Foreign trade data for August will appear in a subsequent report. The data for July tabulated in this report indicate that the total imports for consumption and total exports, on a manganese content basis, decreased by 11% and 8%, respectively, from those for the previous month (table 1).

Manganese ore: U.S. reported consumption and industry stocks, exclusive of iron and steel plants 1/



■ Monthly consumption times 10   
 ▲ Consumption for year to date  
◆ Stocks, end-of-month

1/ Includes revisions, if any, for months prior to last month shown.

TABLE 1  
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2001:						
July	30,600	35,600 3/	66,200	349	635	984
January-July	153,000	233,000	386,000	2,290	5,750	8,030
2002:						
January	23,900	42,200	66,100	775	1,050	1,830
February	34,400	29,700	64,000	453	774	1,230
March	19,300	19,000	38,300	401	930	1,330
April	34,600	35,500	70,100	775	919	1,700
May	1,670	16,800	18,500	643	806	1,450
June	36,100 3/	21,100	57,100	774	1,020	1,800
July	23,600 3/	28,800	52,300	876	728	1,600
Total	173,000	193,000	366,000	4,700	6,230	10,900

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

3/ All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 2  
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	--	--	--	26,000	17,200	\$10,600,000
Brazil	--	--	--	3	2	2,960
Canada	182	128	\$80,300	327	224	113,000
France	--	--	--	2	1	2,000
Georgia	--	--	--	4,860	3,680	2,180,000
India	--	--	--	770	424	446,000
Korea, Republic of	--	--	--	3,000	1,980	1,250,000
Mexico	1,200	783	588,000	2,500	1,630	1,210,000
Norway	1,460	851	838,000	4,710	2,780	2,790,000
Romania	--	--	--	7,290	4,800	3,340,000
South Africa	11,500	7,680	4,630,000	68,900	46,100	28,500,000
Spain	--	--	--	1,020	628	619,000
Total	14,300	9,440	6,130,000	119,000	79,500	51,100,000
Total, general imports	13,900	9,230	5,920,000	119,000	79,500	51,200,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JULY 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
<b>Low carbon:</b>						
Canada	--	--	--	21	17	\$16,600
China	131	118	\$131,000	1,270	1,180	1,280,000
Japan	2,090	1,080	1,450,000	2,100	1,090	1,460,000
Mexico	--	--	--	19	16	25,500
Norway	--	--	--	511	414	388,000
South Africa	720	666	892,000	3,600	3,330	4,430,000
Total, low carbon	2,940	1,870	2,470,000	7,510	6,040	7,600,000
Total, general imports of low carbon	2,940	1,870	2,470,000	7,510	6,040	7,600,000
<b>Medium carbon, 1%-2% C:</b>						
Brazil	--	--	--	40	30	36,100
China	--	--	--	1,500	1,200	796,000
Japan	--	--	--	22	18	22,900
Korea, Republic of	--	--	--	1,500	1,200	780,000
Mexico	419	323	344,000	3,100	2,440	2,210,000
Norway	--	--	--	1,100	897	556,000
South Africa	5,540	4,550	2,860,000	12,000	9,800	6,030,000
Total, m.c., 1%-2% C	5,960	4,870	3,210,000	19,300	15,600	10,400,000
Total, general imports of m.c., 1%-2% C	5,960	4,870	3,210,000	19,300	15,600	10,400,000
<b>High carbon:</b>						
Brazil	2,610	2,040	903,000	2,610	2,040	903,000
France	--	--	--	18,300	15,300	6,400,000
India	--	--	--	19,700	15,000	7,710,000
South Africa	11,500	8,970	4,280,000	60,100	47,000	21,500,000
Total, high carbon	14,100	11,000	5,180,000	101,000	79,300	36,500,000
Total, general imports of high carbon	14,100	11,000	5,180,000	101,000	79,300	36,500,000
Grand total	23,000	17,700	10,900,000	128,000	101,000	54,600,000
Grand total, general imports	23,000	17,700	10,900,000	128,000	101,000	54,600,000

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2002 1/ 2/

(Metric tons)

Source	20% - 47% Mn		47% or more Mn		Total	
	Gross weight	Mn content	Gross weight	Mn content	Gross weight	Mn content
Gabon	9,020	3,970	31,000	15,600	40,000	19,600
Mexico	2,910	1,100	--	--	2,910	1,100
Total	11,900	5,070	31,000	15,600	42,900	20,700
Year to date:						
Australia	--	--	21,400	11,300	21,400	11,300
Belgium	--	--	109	77	109	77
Brazil	29,900	12,800	34 3/	34 3/	29,900	12,800
France	--	--	10 3/	10 3/	10	10
Gabon	45,100	19,800	164,000	87,500	209,000	107,000
Mexico	2,910	1,100	--	--	2,910	1,100
Morocco	--	--	20	17	20	17
South Africa	--	--	59,600	29,000	59,600	29,000
Total	77,900	33,700	245,000	128,000	323,000	162,000

-- Zero.

1/ Quantities for general imports and imports for consumption are identical.

2/ Data are rounded to no more than three significant digits; may not add to totals shown.

3/ All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN JULY 2002 1/

(Metric tons, gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal			
	Quantity	Customs value	Year to date		Unwrought		Other	
			Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	3,650	\$5,010,000	13,200	\$18,200,000	--	--	--	--
Belgium	18	25,000	346	616,000	--	--	--	(2/)
Canada	--	--	--	--	(2/)	(2/)	1	16
China	178	291,000	375	489,000	280	2,360	--	74
France	--	--	--	--	--	--	--	43
Germany	7	11,800	47	165,000	512	2,370	3	17
Greece	81	101,000	390	502,000	--	--	--	--
Ireland	815	1,090,000	3,640	4,760,000	--	--	--	--
Japan	70	118,000	1,070	1,810,000	--	--	--	11
Mexico	--	--	25	184,000	--	--	--	--
Netherlands	--	--	91	122,000	--	--	--	62
Poland	--	--	--	--	--	--	--	20
South Africa	41	67,400	408	673,000	709	6,370	--	--
Spain	--	--	--	--	--	136	--	--
United Kingdom	--	--	93	130,000	--	40	--	(2/)
Total	4,860	6,710,000	19,700	27,700,000	1,500	11,300	4	244
Total, general imports	4,860	6,710,000	19,700	27,700,000	1,500	11,300	4	244

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 72 tons, of which 67 tons was from Canada and 5 tons was from France, to give a year-to-date total of 2,000 tons.

Source: U.S. Census Bureau.

TABLE 6  
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,  
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2002 1/

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal 2/	
	July	Year to date	July	Year to date	July	Year to date	July	Year to date
Australia	94	140	--	5	7	16	--	--
Belgium	--	--	--	--	--	--	--	461
Brazil	--	151	--	8	--	11	--	4
Canada	59	1,800	663	4,190	20	205	18	124
China	--	1,190	--	--	--	--	--	67
Colombia	--	--	--	--	--	--	8	8
Dominican Republic	--	22	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	1
France	--	--	--	--	--	22	--	--
Germany	460	1,230	--	--	--	--	--	9
Ghana	--	--	--	16	--	--	--	--
Hong Kong	--	18	--	--	--	1	(3/)	(3/)
Indonesia	--	30	--	--	4	4	--	--
Italy	--	675	--	--	--	--	--	15
Japan	--	--	--	60	--	--	36	612
Korea, Republic of	8	8	--	--	--	--	3	15
Mexico	286	1,440	42	76	10	67	2	45
Netherlands	501	1,060	--	--	--	4	--	2
Norway	--	457	--	--	--	--	--	3
Poland	144	319	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	20
Singapore	--	--	--	--	--	--	--	(3/)
Spain	--	--	--	--	4	8	--	--
Sri Lanka	--	--	--	--	--	5	--	--
Sweden	19	370	--	--	--	--	18	36
Switzerland	60	89	--	--	--	--	--	--
Taiwan	--	15	--	--	--	--	--	21
United Kingdom	--	265	--	--	--	--	--	(3/)
Venezuela	119	119	7	7	--	--	--	--
Total	1,750	9,390	712	4,360	45	343	85	1,440

-- Zero.

1/ Data are rounded to no more than three significant digits; may not add to totals shown.

2/ Includes manganese-aluminum, some other alloys, and waste and scrap.

3/ Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 63 tons, all of which went to Canada, to give a year-to-date total of 1,420 tons.

Source: U.S. Census Bureau.

TABLE 7  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2002, BY CLASS 1/

Class	Gross weight (metric tons)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)	Year to date		Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)
				Gross weight (metric tons)	Value 2/ (thousands)	
<b>Imports for consumption:</b>						
Manganese oxides other than dioxide	172	\$181	India 56; \$14	1,410	\$1,330	Mexico 909; \$318
Sulfates, basket category, including manganese sulfate	1,750	1,550	Mexico 515; \$264	21,300	13,300	Mexico 10,500; \$5,360
Potassium permanganate	61	117	Czech Republic 47; \$88	1,030	1,680	Czech Republic 428; \$819
Manganites, manganates, and other permanganates	--	--	XX	56	52	China 56; \$50
<b>Exports:</b>						
Manganese dioxide	223	342	Canada 110; \$57	2,160	2,070	Canada 1,360; \$461
Manganese oxides other than dioxide	498	382	Canada 331; \$129	2,810	2,870	Canada 1,800; \$713
Sulfates, basket category, including manganese sulfate	1,660	892	Canada 1,150; \$335	12,100	7,030	Canada 10,300; \$3,010
Potassium permanganate	70	148	Canada 35; \$70	365	782	Canada 206; \$362
Manganites, manganates, and other permanganates	17	128	Hong Kong 17; \$128	147	768	Japan 77; \$378

XX Not applicable. -- Zero.

1/ Data are rounded to no more than three significant digits.

2/ For imports, Customs value; for exports, f.a.s. value.

Source: U.S. Census Bureau.