

Mineral Industry Surveys

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
E-mail: jinestro@usgs.gov

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

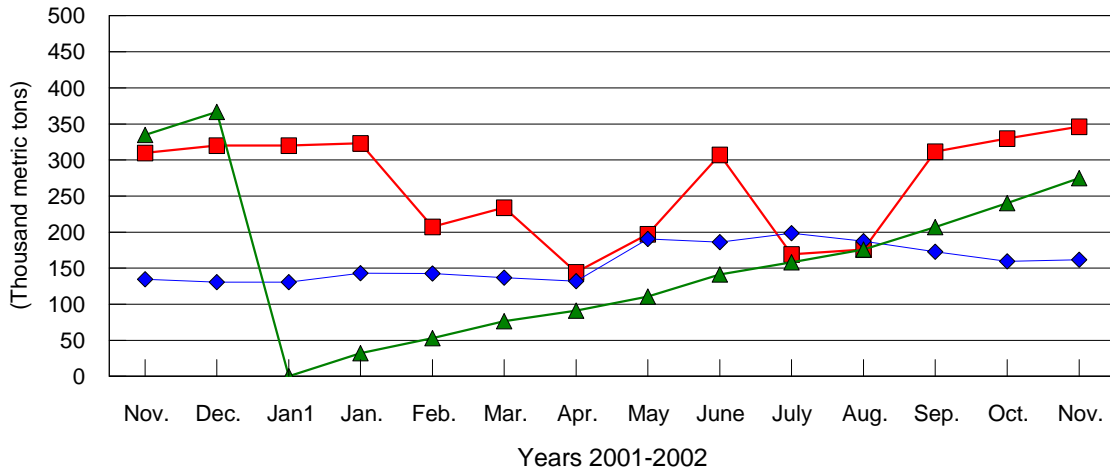
MANGANESE IN NOVEMBER 2002

In November, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 34,600 metric tons (t), which was a 3% increase from that for the previous month, according to the U.S. Geological Survey. The figure for October increases to 37,000 t when estimates for annual respondents are added on the basis of 2001 data. Corresponding industry stocks of ore at the end of the month were 162,000 t, which includes an estimate for annual respondents on the basis

of 2001 data. This was an increase of 3% 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 November will appear in a subsequent report. The data for October tabulated in this report indicate that the total imports for consumption, on a manganese content basis, decreased by 12% from those for September 2002 (table 1). Total exports, on a manganese content basis, decreased by 38% from those for the previous month.

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:						
October	3,120 3/	37,400 3/	40,500	360	1,770	2,130
January-October	181,000	355,000	536,000	3,900	8,970	12,900
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/	28,700	52,300	876	728	1,600
August	15,000	34,900 3/	49,900	1,380	818	2,200
September	14,600	36,600	51,200	121	1,230	1,360
October	2,590 3/	42,300	44,900	159	680	839
Total	206,000	307,000	512,000	6,360	8,960	15,300

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 OCTOBER 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	11,600	7,650	\$4,820,000	46,000	30,500	\$19,000,000
Brazil	--	--	--	3	2	2,960
Canada	--	--	--	419	293	174,000
France	--	--	--	4,000	2,640	1,890,000
Georgia	4,970	3,480	2,560,000	9,840	7,160	4,740,000
India	--	--	--	770	424	446,000
Korea, Republic of	--	--	--	3,000	1,980	1,250,000
Mexico	1,650	1,080	779,000	6,450	4,220	3,100,000
Norway	2,800	1,620	1,720,000	11,200	6,600	6,800,000
Romania	5,050	3,330	2,590,000	12,300	8,130	5,940,000
Russia	4,250	2,850	2,020,000	4,250	2,850	2,020,000
South Africa	500	342	256,000	96,400	64,500	40,300,000
Spain	--	--	--	1,430	885	919,000
Total	30,900	20,400	14,700,000	196,000	130,000	86,600,000
Total, general imports	30,900	20,400	14,700,000	196,000	130,000	86,800,000

-- 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 OCTOBER 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
Canada	--	--	--	25	20	\$19,700
China	20	26	\$18,400	1,850	1,720	1,840,000
Japan	--	--	--	2,240	1,220	1,610,000
Mexico	--	--	--	19	16	25,500
Norway	--	--	--	511	414	388,000
South Africa	744	659	735,000	4,700	4,320	5,600,000
Spain	--	--	--	36	29	27,500
Total, low carbon	764	685	753,000	9,380	7,740	9,510,000
Total, general imports of low carbon	764	685	753,000	9,380	7,740	9,510,000
Medium carbon, 1%-2% C:						
Austria	18	14	10,300	120	94	72,900
Brazil	--	--	--	1,340	1,080	701,000
China	--	--	--	1,500	1,200	796,000
Japan	--	--	--	22	18	22,900
Korea, Republic of	--	--	--	1,500	1,200	780,000
Mexico	20	15	18,600	3,390	2,650	2,450,000
Norway	--	--	--	2,280	1,780	1,040,000
South Africa	199	157	119,000	18,000	14,600	9,330,000
Spain	--	--	--	652	407	477,000
Total, m.c., 1%-2% C	237	186	148,000	28,800	23,100	15,700,000
Total, general imports of m.c., 1%-2% C	237	186	148,000	28,800	23,100	15,700,000
Medium carbon, 2%-4% C:						
Ukraine	2,840	2,730	1,220,000	5,890	3,030	2,320,000
High carbon:						
Australia	1,210	919	343,000	2,510	1,900	728,000
Austria	21	7	12,000	99	66	58,600
Brazil	10,500	8,190	4,500,000	18,300	14,300	7,460,000
Canada	59	56	35,500	147	124	80,800
France	--	--	--	25,600	21,000	9,250,000
India	4,000	3,040	1,900,000	23,700	18,000	9,610,000
South Africa	5,900	4,520	2,310,000	87,100	68,000	32,000,000
Total, high carbon	21,600	16,700	9,110,000	157,000	123,000	59,200,000
Total, general imports of high carbon	21,600	16,700	9,110,000	157,000	123,000	59,200,000
Grand total	25,500	20,300	11,200,000	201,000	157,000	86,700,000
Grand total, general imports	25,500	20,300	11,200,000	201,000	157,000	86,700,000

-- 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 OCTOBER 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
Belgium	--	--	18 3/	13 3/	18	13
Brazil	--	--	34 3/	34 3/	34	34
China	--	--	20 3/	20 3/	20	20
Gabon	--	--	400 3/	400 3/	400	400
Total	--	--	472	467	472	467
Year to date:						
Australia	--	--	22,700	12,000	22,700	12,000
Belgium	--	--	163	115	163	115
Brazil	29,900	12,800	68	68	30,000	12,900
China	--	--	20	20	20	20
France	--	--	10	10	10	10
Gabon	45,100	19,800	187,000	99,600	232,000	119,000
Mexico	2,910	1,100	--	--	2,910	1,100
Morocco	--	--	40	21	40	21
South Africa	--	--	86,500	41,800	86,500	41,800
Total	77,900	33,700	297,000	154,000	375,000	187,000

-- 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 OCTOBER 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	1,860	\$2,500,000	19,100	\$26,200,000	--	--	--	--
Belgium	56	100,000	526	933,000	--	--	--	(2/)
Canada	--	--	--	--	--	(2/)	--	16
China	234	262,000	649	793,000	360	4,280	5	113
France	--	--	--	--	--	--	--	43
Germany	--	--	68	277,000	305	3,280	--	24
Greece	276	357,000	845	1,080,000	--	--	--	--
Hong Kong	--	--	126	129,000	--	--	--	--
Ireland	548	770,000	5,190	6,900,000	--	--	--	--
Japan	98	125,000	1,260	2,080,000	--	--	--	11
Mexico	--	--	25	184,000	--	--	--	--
Netherlands	--	--	91	122,000	--	--	4	66
Poland	--	--	--	--	--	--	--	20
South Africa	470	662,000	2,430	3,500,000	890	10,100	--	--
Spain	--	--	--	--	10	148	--	--
United Kingdom	--	--	93	130,000	--	46	--	(2/)
Total	3,540	4,780,000	30,400	42,300,000	1,570	17,800	9	294
Total, general imports	3,540	4,780,000	30,400	42,400,000	1,570	17,800	9	294

-- 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 33 tons, all of which was from Canada, to give a year-to-date total of 2,210 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/	
	October	Year to date	October	Year to date	October	Year to date	October	Year to date
Australia	--	155	--	5	--	21	--	--
Belgium	--	--	--	--	--	--	--	484
Brazil	--	151	--	8	--	11	--	5
Canada	141	2,300	317	5,220	--	243	9	163
China	--	1,190	--	--	--	--	--	67
Colombia	--	--	--	--	--	--	--	8
Dominican Republic	--	31	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	1
France	--	--	--	--	--	27	--	--
Germany	39	1,820	--	--	--	--	--	9
Ghana	--	--	--	16	--	--	--	--
Hong Kong	--	18	--	--	--	1	--	1
Indonesia	--	30	--	--	--	4	--	--
Italy	--	1,260	--	--	--	--	--	15
Japan	--	--	--	60	--	--	104	885
Korea, Republic of	--	48	--	--	--	--	--	19
Malaysia	--	--	--	--	--	--	--	4
Mexico	102	2,090	23	933	--	67	10	89
Netherlands	35	1,620	6	6	--	8	--	2
Norway	--	457	--	--	--	--	--	3
Poland	--	634	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	20
Singapore	--	--	--	--	--	--	--	(3/)
Spain	--	--	--	--	--	8	--	--
Sri Lanka	--	--	--	--	--	5	--	--
Sweden	--	409	--	--	--	--	19	106
Switzerland	--	99	--	--	--	--	--	--
Taiwan	--	15	--	--	--	--	--	26
Trinidad and Tobago	--	--	--	10	20	20	--	--
Turkey	--	--	--	3	--	--	--	--
United Kingdom	--	265	--	--	--	--	--	(3/)
Venezuela	--	119	--	7	--	--	--	--
Total	317	12,700	346	6,270	20	415	142	1,910

-- 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 320 tons, all of which went to Canada, to give a year-to-date total of 2,320 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 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		
				Gross weight (metric tons)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	305	\$253	Mexico 148; \$53	1,980	\$1,970	Mexico 1,160; \$399
Sulfates, basket category, including manganese sulfate	2,470	1,090	China 1,800; \$561	32,900	18,400	Mexico 14,800; \$7,650
Potassium permanganate	64	127	India 36; \$72	1,310	2,280	Czech Republic 582; \$1,120
Manganites, manganates, and other permanganates	17	80	Germany 17; \$80	240	855	Germany 166; \$790
Exports:						
Manganese dioxide	364	395	Canada 145; \$47	3,100	3,330	Canada 1,670; \$575
Manganese oxides other than dioxide	631	727	Canada 313; \$117	4,580	4,790	Canada 2,820; \$1,110
Sulfates, basket category, including manganese sulfate	1,920	945	Canada 1,670; \$503	16,300	9,380	Canada 13,600; \$4,100
Potassium permanganate	273	510	Spain 208; \$380	851	1,640	Canada 315; \$568
Manganites, manganates, and other permanganates	--	--	XX	170	881	Japan 93; \$455

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.