

Mineral Industry Surveys

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MANGANESE IN JUNE 2004

In June, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 26,800 metric tons (t), which was a 9% decrease from that of May 2004, according to the U.S. Geological Survey. This figure increases to 29,200 t when estimates for annual respondents are added on the basis of 2003 data. Corresponding industry stocks of ore at the end of the month were 166,000 t, which includes an estimate for annual respondents on the basis of 2003 data. (Data for the most recent 13 months are plotted in the graph on page 2.) Domestic consumption of manganese ore during the second quarter of 2004 was 87,400 t, which was 14% lower than the revised first

quarter 2004 (102,000 t). Domestic consumption during the first half of 2004 was 189,000 t, which was 6% higher than the revised first half 2003 (178,000 t).

Foreign trade data for June will appear in a subsequent report. The following comparisons of trade data were made on the basis of manganese content. The data for May 2004 tabulated in this report indicate that the total exports of 2,630 t increased by 30% from those of the previous month, owing to a significant increase in manganese ore exports. Manganese imports were 69,200 t, which was an increase of 13%, compared with those of April. The increase in manganese imports was based on significant increases in manganese ore and dioxide imports.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2003:						
May	18,700	21,600	40,300	372	668	1,040
January-May	76,700	135,000 ^r	212,000 ^r	1,380	4,600	5,980
2004:						
January	13,100	37,500	50,600	653	796	1,450
February	20,600	33,100	53,700	1,920	745	2,660
March	34,800	29,300 ³	64,100	12,400	559	13,000
April	3,720	57,300 ³	61,000	733	1,300	2,030
May	44,200	25,000	69,200	1,990	643	2,630
Total	116,000	182,000	299,000	17,700	4,040	21,800

^rRevised.

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

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

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

Source: U.S. Census Bureau.

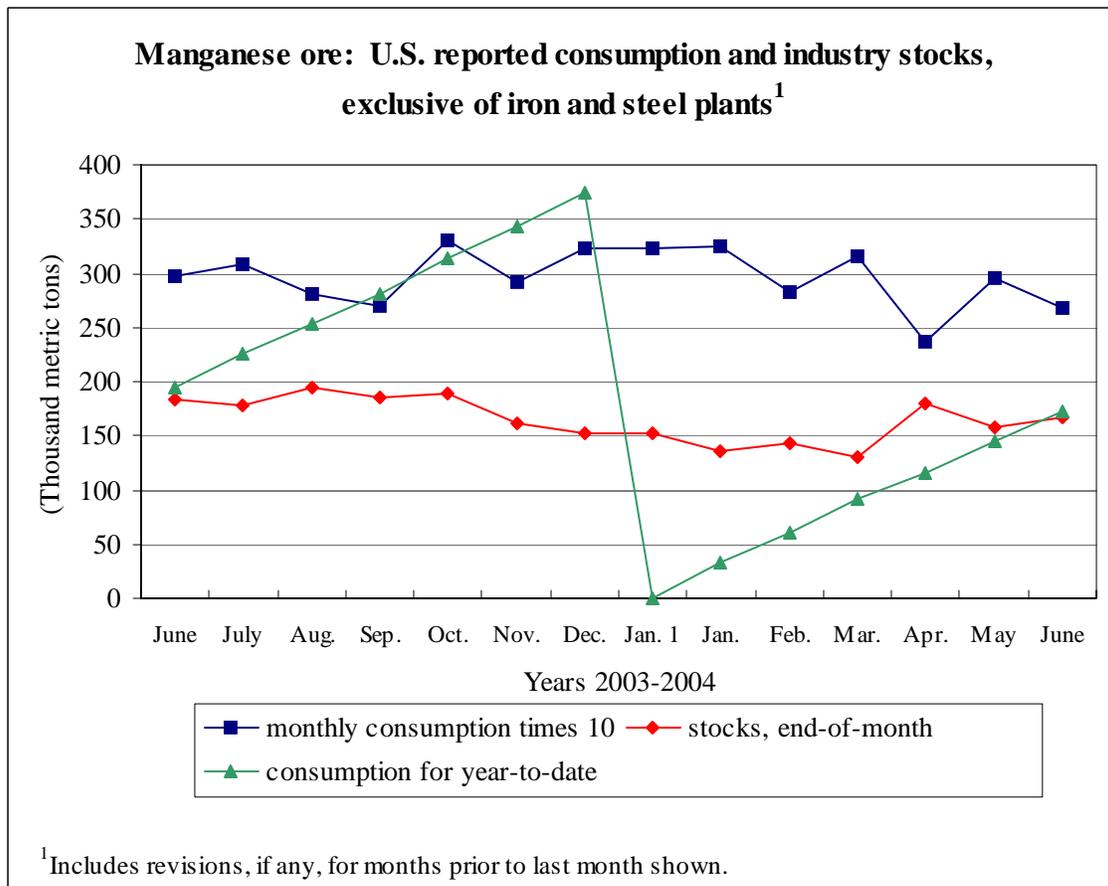


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN MAY 2004¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	4,010	2,650	\$2,370,000	14,100	9,380	\$7,870,000
Canada	--	--	--	668	552	295,000
France	--	--	--	3,010	2,030	2,980,000
Georgia	3,190	2,160	3,830,000	18,500	14,400	15,800,000
Korea, Republic of	--	--	--	4,350	2,860	1,880,000
Mexico	500	326	258,000	1,010	660	525,000
Norway	2,000	779	1,980,000	11,700	6,900	10,500,000
Romania	600	436	698,000	19,500	15,200	14,800,000
Russia	--	--	--	1,050	695	1,650,000
South Africa	7,250	4,750	7,750,000	49,500	32,700	38,100,000
Ukraine	--	--	--	18	13	18,000
United Kingdom	--	--	--	17	13	11,700
Total	17,500	11,100	16,900,000	123,000	85,300	94,400,000
Total, general imports	17,500	11,100	16,900,000	123,000	85,300	94,400,000

-- Zero.

¹Data 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 MAY 2004¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
China	481	429	\$610,000	2,100	1,810	\$2,050,000
Mexico	64	55	115,000	1,280	1,020	1,220,000
Norway	--	--	--	1,190	974	1,230,000
South Africa	225	208	317,000	690	638	927,000
Total, low carbon	770	692	1,040,000	5,270	4,430	5,430,000
Total, general imports of low carbon	770	692	1,040,000	5,270	4,430	5,430,000
Medium carbon, 1%-2% C:						
Argentina	420	287	482,000	420	287	482,000
China	400	323	288,000	2,240	1,810	1,570,000
Italy	--	--	--	11	76	42,000
Korea, Republic of	--	--	--	2,500	2,000	1,450,000
Mexico	872	691	808,000	2,300	1,810	2,150,000
Netherlands	--	--	--	757	590	848,000
Norway	125	83	135,000	3,170	2,570	2,480,000
Romania	--	--	--	150	113	78,500
South Africa	3,230	2,610	2,740,000	20,800	16,800	16,300,000
Total, m.c., 1%-2% C	5,040	3,990	4,460,000	32,400	26,000	25,400,000
Total, general imports of m.c., 1%-2% C	5,040	3,990	4,460,000	32,400	26,000	25,400,000
Medium carbon, 2%-4% C, Georgia	--	--	--	3,900	3,900	2,800,000
Total, general imports of m.c., 2%-4% C	--	--	--	3,900	3,900	2,800,000
High carbon:						
Australia	1,300	999	843,000	6,710	5,170	3,370,000
Brazil	--	--	--	3,920	3,090	1,830,000
Canada	--	--	--	36	27	19,600
France	5	4	5,250	1,310	1,020	937,000
Norway	--	--	--	5,890	4,590	2,670,000
South Africa	1,310	1,030	1,090,000	41,600	31,700	25,500,000
Spain	4,360	3,500	4,130,000	7,360	5,780	7,090,000
Ukraine	1,000	764	957,000	1,000	764	957,000
United Kingdom	60	47	86,600	60	47	86,600
Total, high carbon	8,040	6,340	7,110,000	67,900	52,200	42,400,000
Total, general imports of high carbon	8,040	6,340	7,110,000	67,900	52,200	42,400,000
Grand total	13,900	11,000	12,600,000	109,000	86,500	76,000,000
Grand total, general imports	13,900	11,000	12,600,000	109,000	86,500	76,000,000

-- Zero.

¹Data 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 MAY 2004^{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
Australia	--	--	13,200	6,990	13,200	6,990
Belgium	--	--	18	13	18	13
China	18	8	--	--	18	8
Gabon	537	266	67,100	35,100	67,600	35,400
Mexico	1,460	531	--	--	1,460	531
Total	2,010	805	80,300	42,100	82,300	42,900
Year to date:						
Australia	--	--	30,500	16,100	30,500	16,100
Belgium	--	--	73	51	73	51
China	18	8	3,830	2,040	3,840	2,050
Gabon	1,540	706	172,000	89,000	174,000	89,700
Georgia	--	--	21	16	21	16
India	--	--	39	35	39	35
Mexico	2,900	1,100	--	--	2,900	1,100
Total	4,450	1,810	207,000	107,000	211,000	109,000

-- Zero.

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

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

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN MAY 2004¹

(Metric tons, gross weight)

Source	Manganese dioxide			
	Quantity	Customs value	Year to date	
Quantity			Customs value	
Australia	568	\$695,000	3,920	\$4,770,000
Belgium	18	26,700	196	369,000
Brazil	4	6,390	408	253,000
China	1,010	1,020,000	5,570	5,620,000
Germany	8	30,500	38	102,000
Greece	601	751,000	889	1,090,000
Japan	--	--	829	992,000
South Africa	--	--	370	467,000
United Kingdom	1	9,250	1	9,250
Total	2,210	2,540,000	12,200	13,700,000
Total, general imports	2,210	2,540,000	12,200	13,700,000

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MAY 2004¹

(Metric tons)

Source	Gross weight	Customs value	Year to date	
			Gross weight	Customs value
Unwrought flake:				
China	659	\$1,000,000	2,100	\$2,630,000
South Africa	822	1,150,000	3,300	4,500,000
Total	1,480	2,150,000	5,400	7,130,000
Unwrought powder:				
China	559	594,000	1,440	1,690,000
South Africa	362	513,000	1,560	2,350,000
Total	921	1,110,000	3,000	4,050,000
Unwrought, other:				
China	--	--	19	28,500
Spain	53	91,100	223	365,000
South Africa	260	382,000	1,120	1,570,000
Total	313	473,000	1,360	1,970,000
Other manganese, wrought:				
China	21	56,600	206	341,000
Japan	--	--	4	14,400
India	--	--	8	12,000
Poland	20	13,200	20	13,200
Spain	--	--	34	80,800
United Kingdom	--	--	(2)	5,100
Total	41	69,800	272	466,000
Grand total	2,760	3,800,000	10,000	13,600,000

-- Zero.

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

²Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 150 tons, of which 133 tons were from Canada and 17 tons were from China, to give a year-to-date total of 550 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2004¹

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	May	Year to date	May	Year to date	May	Year to date	May	Year to date
Australia	--	32	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	16	114
Brazil	24	75	--	--	--	--	--	5
Canada	302	2,440	86	1,790	28	46	102	487
Chile	19	19	--	--	--	--	--	--
China	2,810	25,600	--	--	--	--	--	--
Costa Rica	--	--	--	--	--	--	2	2
Dominican Republic	--	--	--	--	--	--	--	14
Estonia	--	--	--	54	--	--	--	--
France	242	242	--	--	--	12	--	(3)
Germany	141	2,500	--	--	--	--	86	86
Hong Kong	--	23	--	--	--	--	--	(3)
India	41	41	--	--	--	--	--	--
Indonesia	--	26	--	--	--	5	--	--
Israel	--	118	--	--	--	--	--	--
Italy	--	74	--	--	--	--	--	29
Japan	37	37	--	--	--	--	36	308
Korea, Republic of	--	--	--	--	--	--	2	44
Malaysia	--	--	--	--	--	--	--	2
Mexico	--	--	--	22	20	116	1	122
Netherlands	--	3,040	--	--	--	11	--	--
Norway	110	329	--	--	--	--	--	--
Peru	--	--	--	--	--	--	4	4
Poland	111	394	--	--	--	--	--	--
Russia	--	21	--	--	--	--	--	--
Spain	--	--	--	--	8	8	--	--
Sweden	120	301	--	--	--	--	62	125
Switzerland	--	35	--	--	--	--	--	--
Taiwan	9	9	--	--	--	--	--	--
Trinidad and Tobago	--	--	--	--	--	38	--	--
Turkey	--	--	8	9	--	--	--	--
United Kingdom	--	98	--	--	--	--	(3)	1
Venezuela	--	--	--	390	--	--	--	--
Total	3,970	35,500	94	2,260	56	236	311	1,350

-- Zero.

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

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

³Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 279 tons, of which 125 tons went to Canada and 154 tons went to Mexico, to give a year-to-date total of 949 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 2004, BY CLASS¹

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	399	\$261	South Africa 283; \$100	1,230	\$1,090	Mexico 514; \$214
Sulfates, basket category, including manganese sulfate	3,120	1,450	China 2,070; \$685	16,400	8,310	China 8,910 \$3,340
Potassium permanganate	124	240	Czech Republic 70; \$136	463	886	Czech Republic 355; \$676
Manganites, manganates, and other permanganates	--	--	XX	290	454	China 290; \$454
Exports:						
Manganese dioxide	184	123	Canada 127; \$65	1,350	1,280	Canada 662; \$276
Manganese oxides other than dioxide	354	362	Canada 149; \$57	2,020	1,830	Canada 1,090; \$438
Sulfates, basket category, including manganese sulfate	1,840	1,430	Canada 1,510; \$1,060	7,860	4,970	Canada 6,660; \$2,860
Potassium permanganate	387	601	Spain 290; \$435	1,390	2,120	Spain 994; \$1,550
Manganites, manganates, and other permanganates	92	271	Japan 47; \$163	305	118	Japan 169; \$699

XX Not applicable. -- Zero.

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

²For imports, Customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.