

Mineral Industry Surveys

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MANGANESE IN JULY 2004

In July, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 30,900 metric tons (t), which was a 15% increase from that of June 2004, according to the U.S. Geological Survey. This figure increases to 33,300 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 178,000 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.)

Foreign trade data for July will appear in a subsequent report. The following comparisons of trade data were made on the basis of manganese content. The data for June 2004 tabulated in this report indicate that the total exports of 3,720 t increased by 42% from those of the previous month, owing to a significant increase in manganese ore exports. Manganese imports were 69,000 t, about the same as those of May.

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:						
June	52,200	11,600	63,800	628	277	905
January-June	129,000	147,000 ^r	276,000 ^r	2,010	4,880	6,890
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
June	23,800	45,200	69,000	3,210	507	3,720
Total	140,000	227,000	368,000	20,900	4,550	25,500

^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.

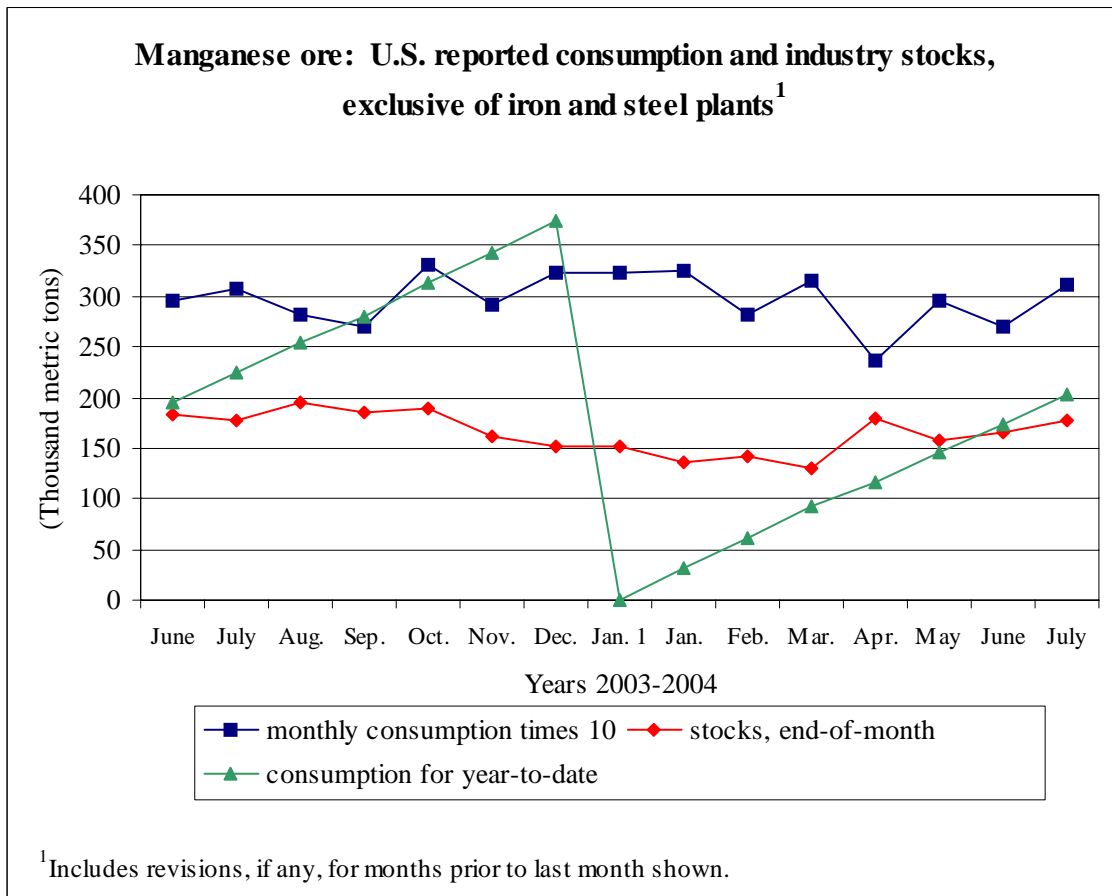


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JUNE 2004¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	2,820	1,870	\$1,660,000	17,000	11,200	\$9,530,000
Canada	--	--	--	668	552	295,000
France	--	--	--	3,010	2,030	2,980,000
Georgia	--	--	--	18,500	14,400	15,800,000
Korea, Republic of	1,500	975	1,490,000	5,850	3,830	3,370,000
Mexico	500	327	318,000	1,510	987	843,000
Norway	5,680	3,650	4,820,000	17,400	10,600	15,300,000
Romania	7,660	5,210	8,360,000	27,100	20,400	23,200,000
Russia	4,180	2,720	5,530,000	5,240	3,410	7,180,000
South Africa	7,450	4,970	9,450,000	57,000	37,600	47,600,000
Ukraine	32	10	5,150	50	23	23,200
United Kingdom	--	--	--	17	13	11,700
Total	29,800	19,700	31,600,000	153,000	105,000	126,000,000
Total, general imports	29,800	19,700	31,600,000	153,000	105,000	126,000,000

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JUNE 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	799	734	\$1,360,000	2,900	2,540	\$3,410,000
Japan	1,200	965	1,230,000	1,200	965	1,230,000
Mexico	19	16	36,700	1,300	1,030	1,260,000
Norway	--	--	--	1,190	974	1,230,000
South Africa	122	113	173,000	812	752	1,100,000
Total, low carbon	2,140	1,830	2,790,000	7,410	6,260	8,220,000
Total, general imports of low carbon	2,140	1,830	2,790,000	7,410	6,260	8,220,000
Medium carbon, 1%-2% C:						
Argentina	--	--	--	420	287	482,000
Austria	5	4	2,880	5	4	2,880
China	--	--	--	2,240	1,810	1,570,000
Italy	--	--	--	11	76	42,000
Korea, Republic of	3,000	2,650	2,590,000	5,500	4,650	4,040,000
Mexico	1,050	824	1,000,000	3,350	2,630	3,150,000
Netherlands	--	--	--	757	590	848,000
Norway	775	632	1,230,000	3,940	3,210	3,710,000
Romania	--	--	--	150	113	78,500
South Africa	1,730	1,410	1,750,000	22,600	18,200	18,000,000
Ukraine	118	104	111,000	118	104	111,000
Venezuela	400	253	372,000	400	253	372,000
Total, m.c., 1%-2% C	7,080	5,870	7,060,000	39,400	31,900	32,400,000
Total, general imports of m.c., 1%-2% C	7,080	5,870	7,060,000	39,400	31,900	32,400,000
Medium carbon, 2%-4% C, Georgia						
Total, general imports of m.c., 2%-4% C	--	--	--	3,900	3,900	2,800,000
High carbon:						
Australia	1,760	1,390	1,190,000	8,470	6,560	4,560,000
Brazil	--	--	--	3,920	3,090	1,830,000
Canada	--	--	--	36	27	19,600
China	1,090	841	1,430,000	1,090	841	1,430,000
France	--	--	--	1,310	1,020	937,000
India	759	583	372,000	759	583	372,000
Norway	2,500	1,950	3,570,000	8,390	6,550	6,240,000
South Africa	13,500	9,220	12,100,000	55,100	40,900	37,500,000
Spain	--	--	--	7,360	5,780	7,090,000
Switzerland	19	15	28,700	19	15	28,700
Ukraine	264	202	367,000	1,260	966	1,320,000
United Kingdom	--	--	--	60	47	86,600
Total, high carbon	19,900	14,200	19,000,000	87,700	66,400	61,400,000
Total, general imports of high carbon	19,900	14,200	19,000,000	87,700	66,400	61,400,000
Grand total	29,100	21,900	28,900,000	138,000	108,000	105,000,000
Grand total, general imports	29,100	21,900	28,900,000	138,000	108,000	105,000,000

-- 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 JUNE 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
China	--	--	120	60	120	60
Gabon	--	--	51,700	23,100	51,700	23,100
Total	--	--	51,800	23,200	51,800	23,200
Year to date:						
Australia	--	--	30,500	16,100	30,500	16,100
Belgium	--	--	73	51	73	51
China	18	8	3,950	2,100	3,960	2,110
Gabon	1,540	706	224,000	112,000	225,000	113,000
Georgia	--	--	21	16	21	16
India	--	--	39	35	39	35
Mexico	2,900	1,100	--	--	2,900	1,100
Total	4,450	1,810	258,000	130,000	263,000	132,000

-- 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 JUNE 2004¹

(Metric tons, gross weight)

Source	Manganese dioxide			
	Quantity	Customs value	Year to date	
Quantity			Customs value	
Australia	--	--	3,920	\$4,770,000
Belgium	90	\$203,000	287	573,000
Brazil	--	--	408	253,000
China	837	851,000	6,400	6,470,000
France	--	--	--	--
Germany	3	12,100	41	114,000
Greece	6	8,160	895	1,100,000
India	--	--	--	--
Japan	72	118,000	901	1,110,000
Poland	--	--	--	--
South Africa	20	36,900	391	504,000
Spain	20	24,500	20	24,500
United Kingdom	--	--	1	9,250
Total	1,050	1,250,000	13,300	14,900,000
Total, general imports	1,050	1,250,000	13,300	14,900,000

-- 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 JUNE 2004¹

(Metric tons)

Source	Gross weight	Customs value	Year to date	
			Gross weight	Customs value
Unwrought flake:				
China	1,250	\$1,940,000	3,350	\$4,570,000
South Africa	522	718,000	3,820	5,220,000
Total	1,770	2,660,000	7,170	9,790,000
Unwrought powder:				
China	411	639,000	1,850	2,330,000
Germany	13	37,200	13	37,200
South Africa	534	763,000	2,090	3,110,000
Total	958	1,440,000	3,960	5,480,000
Unwrought, other:				
China	--	--	19	28,500
Germany	38	80,100	38	80,100
Spain	169	299,000	392	664,000
South Africa	342	508,000	1,460	2,080,000
Total	549	887,000	1,910	2,860,000
Other manganese, wrought:				
China	47	57,900	253	399,000
France	1	12,900	1	12,900
Germany	4	37,900	4	37,900
Japan	--	--	4	14,400
India	--	--	8	12,000
Poland	--	--	20	13,200
Spain	77	191,000	111	272,000
United Kingdom	--	--	(2)	5,100
Total	129	300,000	401	766,000
Grand total	3,410	5,290,000	13,400	18,900,000

-- 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 264 tons, all of which were from Canada, to give a year-to-date total of 814 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	
	June	Year to date	June	Year to date	June	Year to date	June	Year to date
Australia	11	42	--	--	3	3	--	--
Belgium	--	--	--	--	--	--	--	114
Brazil	--	75	--	--	8	8	--	5
Canada	301	2,740	44	1,830	--	46	126	613
Chile	--	19	--	--	--	--	--	--
China	5,170	30,800	--	--	--	--	--	--
Costa Rica	--	--	--	--	--	--	--	2
Dominican Republic	--	--	--	--	--	--	--	14
Estonia	--	--	--	54	--	--	--	--
France	--	242	--	--	--	12	4	4
Germany	259	2,750	--	--	--	--	(3)	86
Hong Kong	--	23	--	--	--	--	--	(3)
India	--	41	--	--	--	--	--	--
Indonesia	--	26	5	5	5	10	--	--
Israel	--	118	--	--	--	--	--	--
Italy	--	74	--	--	--	--	--	29
Japan	--	37	--	--	--	--	86	394
Korea, Republic of	8	8	--	--	--	--	19	64
Kuwait	434	434	--	--	--	--	--	--
Malaysia	--	--	--	--	--	--	--	2
Mexico	--	--	--	22	--	116	2	124
Netherlands	59	3,100	--	--	--	11	--	--
Norway	--	329	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	4
Poland	80	475	--	--	--	--	--	--
Russia	--	21	--	--	--	--	--	--
Spain	--	--	--	--	--	8	--	--
Sweden	66	368	--	--	--	--	1	126
Switzerland	--	35	--	--	--	--	--	--
Taiwan	--	9	--	--	--	--	2	2
Trinidad and Tobago	--	--	--	--	--	38	--	--
Turkey	--	--	--	9	--	--	--	--
United Kingdom	--	98	--	--	--	--	1	2
Venezuela	34	34	--	390	--	--	--	--
Total	6,420	41,900	49	2,310	16	252	241	1,590

-- 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 276 tons, of which 216 tons went to Canada and 60 tons went to Mexico, to give a year-to-date total of 1,225 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 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		Principal sources and destinations: gross weight (metric tons); value ² (thousands)
				Gross weight (metric tons)	Value ² (thousands)	
Imports for consumption:						
Manganese oxides other than dioxide	441	\$213	Mexico 205; \$89	1,670	\$1,300	Mexico 720; \$302
Sulfates, basket category, including manganese sulfate	4,130	2,610	Mexico 2,460; \$1,340	20,600	10,900	China 10,100 \$4,170
Potassium permanganate	98	191	Czech Republic 62; \$122	561	1,080	Czech Republic 417; \$798
Manganites, manganates, and other permanganates	198	320	China 198; \$320	487	774	China 487; \$774
Exports:						
Manganese dioxide	417	392	Canada 154; \$55	1,770	1,670	Canada 816; \$331
Manganese oxides other than dioxide	551	270	Canada 432; \$175	2,570	2,100	Canada 1,520; \$613
Sulfates, basket category, including manganese sulfate	1,610	1,310	Canada 1,300; \$713	9,470	6,280	Canada 7,960; \$3,580
Potassium permanganate	401	577	Spain 228; \$353	1,790	2,700	Spain 1,220; \$1,910
Manganites, manganates, and other permanganates	14	65	Hong Kong 6; \$31	319	1,240	Japan 169; \$699

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.