

Mineral Industry Surveys

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MANGANESE IN AUGUST 2003

In August, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 28,400 metric tons (t), which was a 4% decrease from that for the previous month, according to the U.S. Geological Survey. This figure increases to 30,800 t when estimates for annual respondents are added on the basis of 2002 data. Corresponding industry stocks of ore at the end of the month were 202,000 t, which includes an estimate for annual respondents on the basis of 2002 data. This was a 10% increase 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 2003 tabulated in this report indicate that the total exports, on a manganese content basis, increased

by 55% from those of June 2003, owing to a significant increase in manganese ferroalloys and metal exports. Total imports, on a manganese content basis, decreased by 24% from those of June based on a significant decrease in manganese ore and manganese dioxide imports.

Update

On September 24, the Defense National Stockpile Center (DNSC) announced the cash disposal of approximately 91 t of electrolytic manganese metal in response to Solicitation for Offers DLA-Electrolytic Manganese Metal-001 to Shieldalloy Metallurgical Corp., Newfield, NJ. On September 30, the DNSC announced another cash disposal of 91 t of electrolytic manganese metal to Designed Alloy Products Inc., Aurora, IL.

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
2002:						
July	23,600	28,700	52,300	876	728	1,600
January-July	173,000	193,000	366,000	4,700	6,230	10,900
2003:						
January	2,340	24,900	27,300	176	711	887
February	21,100	27,700	48,800	151	820	971
March	28,100	21,900	50,000	347	1,010	1,350
April	6,430	37,600	44,100	335	1,400	1,730
May	18,700	21,600	40,300	372	668	1,040
June	52,200	11,600	63,800	628	277	905
July	3,100	45,400	48,500	653	748	1,400
Total	132,000	191,000	323,000	2,660	5,630	8,290

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.

Source: U.S. Census Bureau.

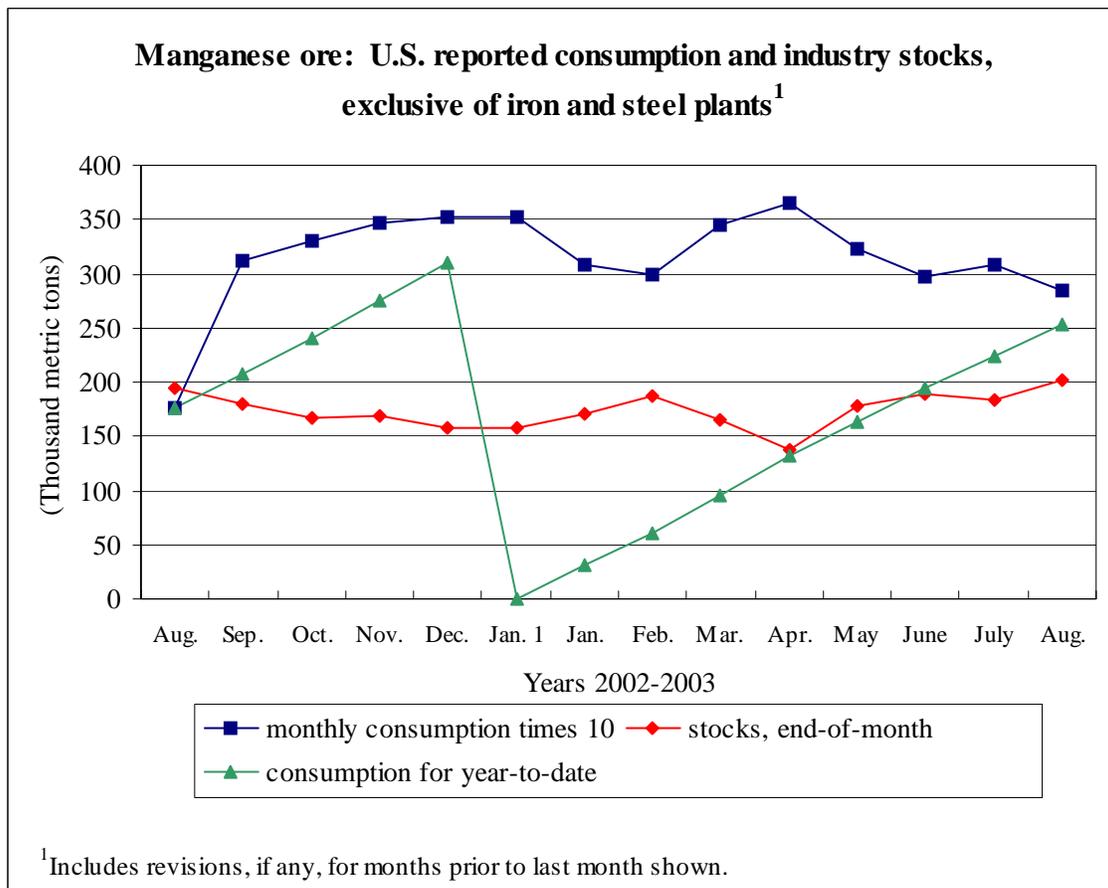


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2003¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	--	--	--	23,600	15,600	\$10,200,000
Georgia	3,500	3,500	\$1,630,000	6,370	5,360	3,080,000
Kazakhstan	--	--	--	5	3	2,610
Korea, Republic of	--	--	--	2,500	1,660	1,080,000
Mexico	1,400	917	679,000	4,200	2,870	2,010,000
Norway	3,000	1,830	1,720,000	11,200	6,360	7,010,000
Romania	--	--	--	7,690	5,300	3,690,000
Russia	--	--	--	2,330	1,510	1,120,000
South Africa	19,300	12,900	8,470,000	58,000	38,600	25,900,000
Total	27,200	19,100	12,500,000	116,000	77,300	54,200,000
Total, general imports	27,200	19,100	12,500,000	116,000	77,300	54,200,000

-- 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 JULY 2003¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
Canada	--	--	--	20	16	\$18,200
China	141	132	\$135,000	2,500	2,360	2,380,000
Italy	--	--	--	356	276	168,000
Japan	72	65	71,700	3,840	3,110	2,700,000
Korea, Republic of	--	--	--	40	38	40,200
Mexico	1,810	1,430	1,460,000	4,140	3,260	3,560,000
Norway	--	--	--	2,130	1,730	1,300,000
South Africa	521	483	598,000	2,680	2,480	3,230,000
Spain	--	--	--	72	58	58,900
Total, low carbon	2,540	2,110	2,260,000	15,800	13,300	13,400,000
Total, general imports of low carbon	2,540	2,110	2,260,000	15,800	13,300	13,400,000
Medium carbon, 1%-2% C:						
China	728	588	599,000	7,410	5,970	4,850,000
Korea, Republic of	--	--	--	2,500	2,030	1,530,000
Mexico	1,660	1,330	1,200,000	8,900	7,150	6,360,000
Norway	--	--	--	1,800	1,470	991,000
South Africa	3,230	2,610	2,190,000	14,400	11,700	9,970,000
Total, m.c., 1%-2% C	5,610	4,540	3,980,000	35,000	28,400	23,700,000
Total, general imports of m.c., 1%-2% C	5,610	4,540	3,980,000	35,000	28,400	23,700,000
Medium carbon, 2%-4% C:						
Mexico	--	--	--	22	21	11,400
South Africa	19	15	8,050	19	15	8,050
Total, m.c., 2%-4% C	19	15	8,050	41	36	19,400
Total, general imports of m.c., 2%-4% C	19	15	8,050	41	36	19,400
High carbon:						
Australia	--	--	--	4,120	3,220	1,810,000
Brazil	3,920	3,070	1,420,000	7,830	6,150	2,930,000
Canada	12	9	8,910	98	74	65,300
France	9,800	7,670	3,740,000	24,600	19,300	9,550,000
Mexico	--	--	--	22	22	10,300
Saudi Arabia	39	30	16,200	39	30	16,200
South Africa	11,200	8,740	4,310,000	53,300	41,400	20,900,000
Total, high carbon	24,900	19,500	9,490,000	90,000	70,100	35,300,000
Total, general imports of high carbon	24,900	19,500	9,490,000	90,000	70,100	35,300,000
Grand total	33,100	26,200	15,700,000	141,000	112,000	72,400,000
Grand total, general imports	33,100	26,200	15,700,000	141,000	112,000	72,400,000

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2003^{1,2,3}

(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	13	18	13
China	145	66	--	--	145	66
Total	145	66	18	13	163	79
Year to date: ⁴						
Australia	--	--	15,500	8,110	15,500	8,110
Belgium	--	--	109	76	109	76
China	181	82	--	--	181	82
Gabon	--	--	127,000	66,300	127,000	66,300
Mexico	2,540	967	--	--	2,540	967
Morocco ⁵	--	--	20	11	20	11
South Africa	13,200	5,410	65,700	31,500	78,900	36,900
Total	15,900	6,460	208,000	106,000	224,000	112,000

-- 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.

³Includes concentrates.

⁴May include revisions to previous months' data.

⁵Includes U.S. Geological Survey's conversion of part of the reported data from MnO₂ content to Mn content.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN JULY 2003¹

(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	2,860	\$3,520,000	19,700	\$24,500,000	--	--	--	--
Belgium	73	128,000	305	536,000	--	--	--	1
Canada	--	--	(2)	3,300	--	--	--	1
China	5	4,070	146	143,000	--	699	20	612
France	--	--	--	--	--	--	7	21
Germany	1	5,260	54	259,000	--	67	5	5
Greece	85	105,000	857	1,020,000	--	--	--	--
India	4	6,980	4	6,980	--	--	--	--
Ireland	781	956,000	4,670	5,820,000	--	--	--	--
Japan	333	436,000	1,490	1,850,000	--	--	--	17
Korea, Republic of	27	32,100	27	32,100	--	--	--	20
Mexico	--	--	--	--	--	--	--	13
Netherlands	--	--	--	--	--	--	--	10
Norway	--	--	--	--	--	25	--	--
South Africa	857	1,070,000	5,210	6,710,000	--	904	--	--
Spain	--	--	--	--	--	--	34	241
United Kingdom	(2)	4,100	102	137,000	--	--	--	--
Total	5,030	6,270,000	32,600	41,000,000	--	1,700	66	941
Total, general imports	5,030	6,270,000	32,600	41,000,000	--	1,700	66	941

-- 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 96 tons, all of which was from Canada, to give a year-to-date total of 953 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 2003¹

(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	--	--	--	8	--	--
Belgium	--	--	--	--	--	--	55	151
Brazil	--	69	--	--	4	11	--	20
Canada	246	1,300	618	4,900	--	193	37	323
China	--	--	--	--	--	--	--	2
Colombia	--	--	3	3	--	--	--	--
France	--	--	--	--	--	--	1	5
Germany	80	967	--	--	--	--	(3)	23
Guatemala	--	99	--	--	--	--	--	--
Hong Kong	--	169	--	--	--	--	--	(3)
Hungary	--	19	--	--	--	--	--	--
India	40	40	--	--	--	--	--	--
Indonesia	--	22	--	--	--	7	--	--
Italy	338	751	--	--	--	--	--	20
Jamaica	--	7	--	--	--	--	--	--
Japan	--	--	--	19	--	--	105	510
Korea, Republic of	--	--	--	--	--	--	1	3
Mexico	--	--	--	19	20	137	14	86
Netherlands	--	173	--	--	--	--	--	--
Norway	139	417	--	--	--	--	--	--
Poland	291	578	--	--	--	--	--	--
Portugal	--	77	--	--	--	--	--	3
Sweden	--	168	--	--	--	--	--	99
Switzerland	--	37	--	--	--	--	--	--
Taiwan	--	7	--	--	--	--	--	--
Thailand	--	--	--	--	--	--	5	5
Trinidad and Tobago	--	--	--	--	--	82	--	--
Turkey	--	109	--	--	--	--	--	--
United Kingdom	80	168	--	--	--	--	--	--
Total	1,310	5,320	621	4,950	24	438	218	1,250

-- 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 29 tons, all of which went to Canada, to give a year-to-date total of 230 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2003, 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	127	\$129	Mexico 63; \$23	1,300	\$1,260	Mexico 571; \$194
Sulfates, basket category, including manganese sulfate	2,850	1,570	Mexico 1,350; \$721	24,700	11,800	Mexico 11,400; \$5,570
Potassium permanganate	78	153	Czech Republic 60; \$117	857	1,670	Czech Republic 531; \$1,040
Manganites, manganates, and other permanganates	70	167	China 54; \$93	123	269	China 105; \$181
Exports:						
Manganese dioxide	562	781	Germany 181; \$324	2,370	2,490	Canada 1,190; \$443
Manganese oxides other than dioxide	221	331	Canada 114; \$45	2,570	2,770	Canada 1,600; \$618
Sulfates, basket category, including manganese sulfate	1,030	659	Canada 747; \$233	11,900	6,220	Canada 9,400; \$2,740
Potassium permanganate	237	348	Spain 82; \$138	1,310	2,020	Spain 648; \$1,130
Manganites, manganates, and other permanganates	16	78	Japan 10; \$48	226	1,100	Japan 128; \$611

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

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

Source: U.S. Census Bureau.