

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2003

In October, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 33,100 metric tons (t), which was a 23% increase from that for the previous month, according to the U.S. Geological Survey. This figure increases to 35,300 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 195,000 t, which includes an estimate for annual respondents on the basis of 2002 data. This was a 2% 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 October will appear in a subsequent report. The data for September 2003 tabulated in this report indicate that the total exports, on a manganese content basis, decreased by 76% compared with those of August 2003, owing to a significant decrease in manganese ore exports. Total imports, on a manganese content basis, increased by 30% from those of August based on a significant increase in manganese ore and manganese dioxide imports.

Update

In early November, Eramet SA was reported to be in the process of converting a silicomanganese furnace at one of its Norwegian plants to produce high-carbon ferromanganese as a result of the closure of its Boulogne-sur-Mer high-carbon ferromanganese plant in France by yearend. The converted furnace will have an annual production capacity of 50,000 t, with all production to be sold in Europe (Platts Metals Week, 2003).

On November 14, the Defense National Stockpile Center (DNSC) announced the cash disposal of 454 t of electrolytic manganese metal, in response to Solicitation for Offers DLA-Electrolytic Manganese Metal-001, to Eramet Marietta Inc., Marietta, OH.

Reference Cited

Platts Metals Week, 2003, Eramet converts SiMn furnace to FeMn: Platts Metals Week, v. 74, no. 45, November 10, p. 10.

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:						
September	14,600	36,600	51,200	121	1,230	1,360
January-September	203,000	264,000	467,000	6,200	8,280	14,500
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
August	17,800	33,900	51,700	4,920	1,600	6,520
September	28,100	39,000	67,100	345	1,210	1,560
Total	178,000	264,000	442,000	7,920	8,440	16,400

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.

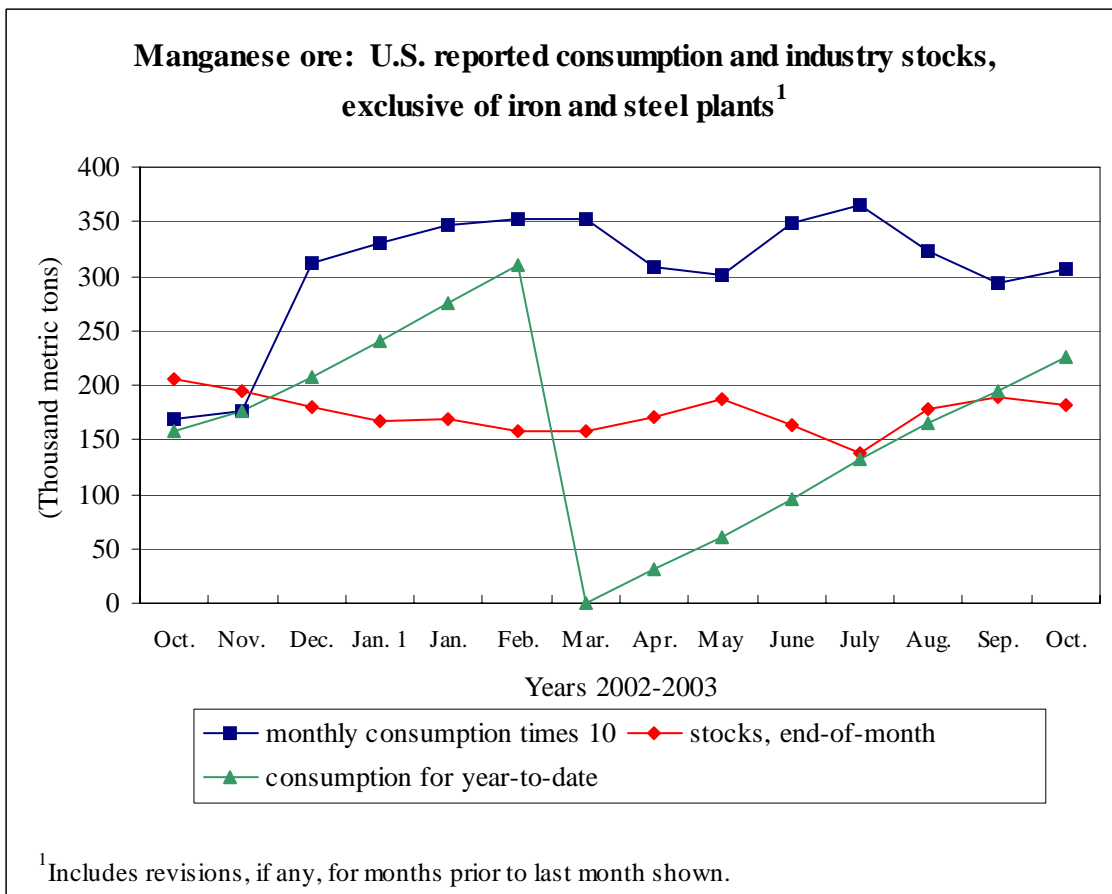


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN SEPTEMBER 2003¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	3,020	2,000	\$1,320,000	39,100	25,900	\$16,700,000
France	1,910	1,270	1,050,000	1,910	1,270	1,050,000
Georgia	5,150	3,870	2,720,000	11,500	9,230	5,810,000
Kazakhstan	--	--	--	5	3	2,610
Korea, Republic of	--	--	--	2,500	1,660	1,080,000
Mexico	5,000	3,280	2,580,000	9,200	6,150	4,590,000
Norway	1,500	905	843,000	12,700	7,260	7,860,000
Romania	8,070	5,240	3,950,000	18,300	13,100	8,780,000
Russia	--	--	--	2,330	1,510	1,120,000
South Africa	6,560	4,310	3,260,000	77,500	52,000	35,200,000
Spain	5,800	3,770	3,310,000	5,800	3,770	3,310,000
Total	37,000	24,600	19,000,000	181,000	122,000	85,400,000
Total, general imports	37,000	24,600	19,000,000	181,000	122,000	85,400,000

-- 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 SEPTEMBER 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	272	252	\$295,000	3,780	3,460	3,540,000
Italy	--	--	--	356	276	168,000
Japan	2,000	1,610	1,490,000	5,840	4,720	4,190,000
Korea, Republic of	--	--	--	40	38	40,200
Mexico	--	--	--	4,140	3,260	3,560,000
Norway	--	--	--	2,130	1,730	1,300,000
South Africa	381	353	426,000	3,320	3,080	3,940,000
Spain	--	--	--	72	58	58,900
Total, low carbon	2,650	2,220	2,210,000	19,700	16,600	16,800,000
Total, general imports of low carbon	2,650	2,220	2,210,000	19,700	16,600	16,800,000
Medium carbon, 1%-2% C:						
China	--	--	--	7,410	5,970	4,850,000
Korea, Republic of	--	--	--	2,500	2,030	1,530,000
Mexico	684	309	492,000	9,620	7,490	6,890,000
Norway	795	600	403,000	2,720	2,180	1,460,000
South Africa	1,290	1,030	830,000	17,000	13,800	11,700,000
Total, m.c., 1%-2% C	2,760	1,940	1,720,000	39,300	31,500	26,400,000
Total, general imports of m.c., 1%-2% C	2,760	1,940	1,720,000	39,300	31,500	26,400,000
Medium carbon, 2%-4% C:						
Mexico	--	--	--	22	21	11,400
South Africa	--	--	--	19	15	8,050
Total, m.c., 2%-4% C	--	--	--	41	36	19,400
Total, general imports of m.c., 2%-4% C	--	--	--	41	36	19,400
High carbon:						
Australia	50	38	14,800	5,930	4,600	2,330,000
Brazil	--	--	--	11,700	9,210	4,320,000
Canada	--	--	--	98	74	65,300
France	3,200	2,500	1,150,000	27,800	21,800	10,700,000
Mexico	--	--	--	22	22	10,300
Saudi Arabia	--	--	--	39	30	16,200
South Africa	9,700	7,470	3,580,000	72,300	56,000	27,900,000
Total, high carbon	13,000	10,000	4,750,000	118,000	91,700	45,300,000
Total, general imports of high carbon	13,000	10,000	4,750,000	118,000	91,700	45,300,000
Grand total	18,400	14,200	8,690,000	177,000	140,000	88,600,000
Grand total, general imports	18,400	14,200	8,690,000	177,000	140,000	88,600,000

-- 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 SEPTEMBER 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
Australia			9,070	4,750	9,070	4,750
Belgium	--	--	18	13	18	13
China	--	--	75	67	75	67
Gabon	--	--	43,500	21,700	43,500	21,700
Total	--	--	52,700	26,600	52,700	26,600
Year to date: ⁴						
Australia	--	--	24,500	12,900	24,500	12,900
Belgium	--	--	145	102	145	102
China	181	82	75	67	256	149
Gabon	--	--	202,000	105,000	202,000	105,000
Mexico	2,540	967	39	29	2,580	997
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	292,000	149,000	308,000	156,000

-- 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 SEPTEMBER 2003¹

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	1,230	\$1,500,000	21,700	\$26,900,000	--	--	--	--
Belgium	37	80,400	342	616,000	--	--	--	1
Brazil	5	8,700	5	8,700	--	--	--	3
Canada	--	--	(2)	3,300	--	--	--	1
China	--	--	146	143,000	--	699	23	663
France	--	--	--	--	--	--	6	31
Germany	--	--	56	269,000	--	67	--	9
Greece	--	--	857	1,020,000	--	--	--	--
India	--	--	4	6,980	--	--	--	--
Ireland	551	673,000	5,960	7,400,000	--	--	--	--
Japan	18	49,700	1,540	1,940,000	--	--	--	17
Korea, Republic of	--	--	27	32,100	--	--	--	20
Mexico	--	--	--	--	--	--	--	13
Netherlands	--	--	--	--	--	--	--	10
Norway	--	--	--	--	--	25	--	--
South Africa	694	856,000	6,110	7,840,000	--	904	20	20
Spain	--	--	--	--	--	--	17	361
United Kingdom	1	6,820	102	144,000	--	--	--	--
Total	2,530	3,170,000	36,800	46,300,000	--	1,700	66	1,150
Total, general imports	2,530	3,170,000	36,800	46,300,000	--	1,700	66	1,150

-- 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 233 tons, all of which was from Canada, to give a year-to-date total of 1,300 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	
	September	Year to date	September	Year to date	September	Year to date	September	Year to date
Australia	--	155	--	--	--	10	--	--
Belgium	--	--	--	--	1	1	122	322
Brazil	47	116	--	--	--	11	--	20
Canada	272	1,730	1,020	6,390	--	229	57	382
China	--	--	--	--	--	--	--	2
Colombia	--	--	--	3	--	--	--	--
France	--	8,890	--	--	--	--	--	7
Germany	19	1,080	--	--	--	--	--	41
Guatemala	--	99	--	--	--	--	--	--
Hong Kong	--	169	--	--	--	--	--	(3)
Hungary	--	19	--	--	--	--	--	--
India	--	40	--	--	--	--	--	--
Indonesia	--	22	--	--	--	7	--	--
Italy	--	933	--	--	--	--	9	29
Jamaica	--	7	--	--	--	--	--	--
Japan	--	--	--	19	--	--	47	617
Korea, Republic of	--	--	--	--	--	--	1	5
Mexico	--	--	--	19	7	191	47	162
Netherlands	--	173	--	--	--	4	--	--
Norway	139	555	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	2
Poland	193	795	--	--	--	--	--	--
Portugal	--	77	--	--	--	--	--	3
Sweden	19	207	--	--	--	--	32	132
Switzerland	--	54	--	--	--	--	--	--
Taiwan	--	7	--	--	--	--	--	--
Thailand	--	--	--	--	--	--	--	5
Trinidad and Tobago	--	--	--	--	--	82	--	--
Turkey	--	109	--	--	--	--	--	--
United Kingdom	--	609	--	--	--	--	--	(3)
Venezuela	--	--	--	1,260	--	--	--	--
Total	689	15,800	1,020	7,700	8	535	315	1,730

-- 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 102 tons, all of which went to Canada, to give a year-to-date total of 353 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 2003, BY CLASS¹

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)	Year to date ²		Principal sources and destinations: gross weight (metric tons); value ³ (thousands)
				Gross weight (metric tons)	Value ³ (thousands)	
Imports for consumption:						
Manganese oxides other than dioxide	171	\$144	Mexico 121; \$40	1,590	\$1,530	Mexico 763; \$254
Sulfates, basket category, including manganese sulfate	2,400	1,470	Mexico 1,950; \$983	32,400	15,100	China 15,500; \$4,830
Potassium permanganate	108	211	Czech Republic 72; \$142	1,080	2,140	Czech Republic 648; \$1,270
Manganites, manganates, and other permanganates	77	177	China 34; \$51	220	480	China 156; \$263
Exports:						
Manganese dioxide	415	338	Canada 211; \$82	3,120	3,440	Canada 1,520; \$573
Manganese oxides other than dioxide	372	462	Canada 169; \$72	3,320	3,630	Canada 2,010; \$795
Sulfates, basket category, including manganese sulfate	1,290	913	Canada 1,020; \$299	14,700	7,770	Canada 11,600; \$3,403
Potassium permanganate	108	156	Spain 66; \$83	1,610	2,450	Spain 838; \$1,412
Manganites, manganates, and other permanganates	47	178	Japan 26; \$121	304	1,380	Japan 165; \$779

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

²May include revisions to previous months' data.

³For imports, Customs value; for exports, f.a.s. value.

Source: U.S. Census Bureau.