



Mineral Industry Surveys

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MANGANESE IN JANUARY 2003

In January, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 30,900 metric tons (t), which was an 11% decrease from that for the previous month, 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 2002 data.

Corresponding industry stocks of ore at the end of the month were 170,000 t, which includes an estimate for annual respondents on the basis of 2002 data. This was an increase of 5% 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 January will appear in a subsequent report. The data for December 2002 tabulated in this report indicate that the total imports for consumption, on a manganese content basis, were about 1.5 times those for November 2002 (table 1). Total exports, on a manganese content basis, decreased by 39% from those for the previous month.

Update

In response to Solicitation of Offers DLA-MANGANESE-001, originally issued on February 10, 1999, the Defense National Stockpile Center (DNSC) reported cash disposals of 9,979 t of metallurgical-grade ore in January to American Minerals, King of Prussia, PA, and Advanced Alloys, Pensacola, FL.

On March 6, the DNSC issued amendment no. 2 to Solicitation of Offers DLA-FERROMANGANESE-003 to make available 8,165 t of high-carbon ferromanganese for sale.

Highlanders Alloy LLC ceased silicomanganese production at its New Haven, WV, plant in January, owing to financial issues (Platts Metals Week, 2003). As of March 31, 2003, the company had not indicated when it would restart production.

Reference Cited

Platts Metals Week, 2003, Big US minimill out for SiMn—Larson Sales down:
Platts Metals Week, v. 74, no. 11, March 17, p. 4-5.

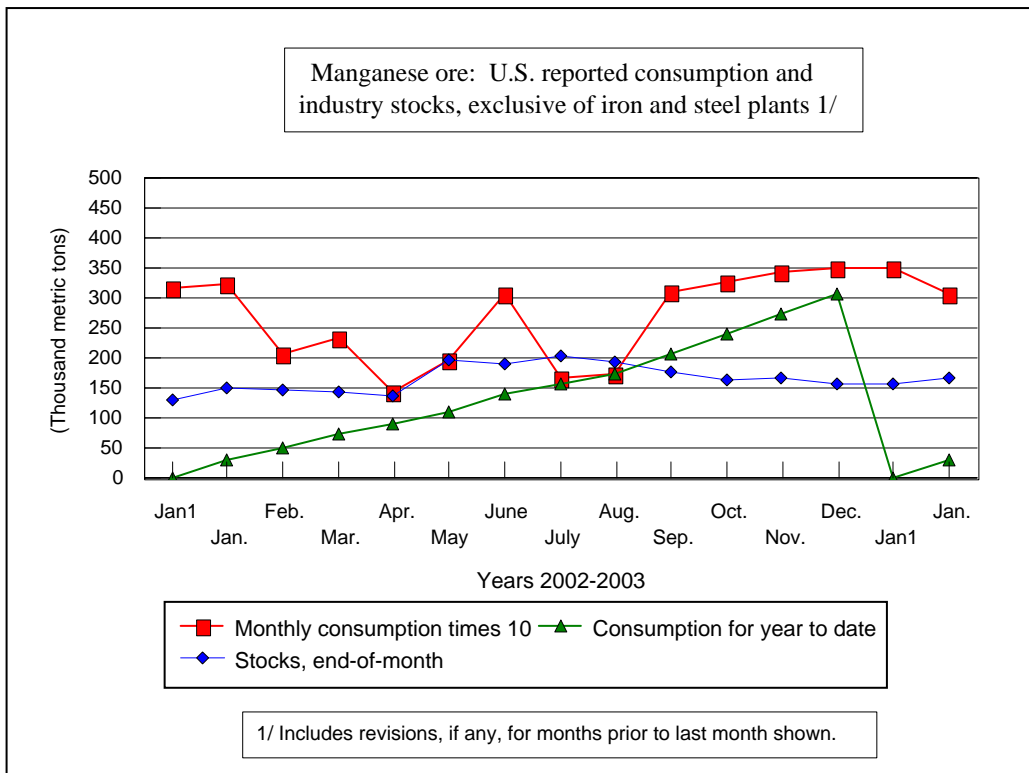


TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/
(Metric tons, manganese content) 2/

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2001:						
December	10,200	28,800	39,000	316	1,020	1,340
January-December	222,000	399,000	621,000	4,580	11,500	16,100
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
November	8,010	46,500	54,500	665	576	1,240
December	22,500	55,200	77,700	460	299	759
Total	236,000	408,000	644,000	7,480	9,840	17,300

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 DECEMBER 2002 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	907	606	\$285,000	47,900	32,000	\$19,700,000
Brazil	20	13	10,500	43	28	24,000
Canada	--	--	--	419	293	174,000
France	--	--	--	4,000	2,640	1,890,000
Georgia	--	--	--	14,600	10,600	7,080,000
India	--	--	--	770	424	446,000
Korea, Republic of	6,600	4,320	3,240,000	9,600	6,300	4,490,000
Mexico	1,400	914	682,000	7,850	5,130	3,780,000
Norway	--	--	--	13,100	7,730	7,940,000
Romania	--	--	--	22,600	15,400	10,800,000
Russia	1,210	789	573,000	5,470	3,640	2,600,000
South Africa	8,770	5,800	4,360,000	118,000	79,100	50,800,000
Spain	--	--	--	1,930	1,500	1,240,000
Total	18,900	12,400	9,150,000	247,000	165,000	111,000,000
Total, general imports	18,900	12,400	9,150,000	247,000	165,000	111,000,000

-- 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 DECEMBER 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	97	91	\$83,900	2,280	2,050	2,220,000
Japan	354	298	241,000	2,700	1,620	1,960,000
Mexico	19	16	24,100	58	48	78,600
Norway	42	34	34,000	552	448	422,000
Russia	(2/)	(2/)	2,800	(2/)	(2/)	2,800
South Africa	140	129	172,000	4,840	4,450	5,780,000
Spain	--	--	--	1,060	888	776,000
Total, low carbon	652	568	559,000	11,500	9,510	11,300,000
Total, general imports of low carbon	651	568	559,000	11,500	9,510	11,300,000
Medium carbon, 1%-2% C:						
Austria	--	--	--	120	94	72,900
Brazil	426	343	270,000	1,790	1,440	989,000
China	1,140	902	713,000	2,640	2,100	1,510,000
Japan	--	--	--	22	18	22,900
Korea, Republic of	2,900	2,410	1,660,000	4,400	3,610	2,440,000
Mexico	3,380	2,720	2,520,000	8,380	6,690	6,200,000
Norway	200	165	138,000	2,480	1,940	1,180,000
South Africa	2,830	2,280	1,650,000	25,500	20,700	13,700,000
Spain	--	--	--	652	407	477,000
Total, m.c., 1%-2% C	10,900	8,820	6,950,000	46,000	37,000	26,600,000
Total, general imports of m.c., 1%-2% C	10,900	8,820	6,950,000	46,000	37,000	26,600,000
Medium carbon, 2%-4% C:						
Ukraine	--	--	--	5,890	3,030	2,320,000
High carbon:						
Australia	--	--	--	2,510	1,900	728,000
Austria	--	--	--	99	66	58,600
Brazil	7,830	6,140	3,370,000	26,100	20,400	10,800,000
Canada	--	--	--	147	124	80,800
France	10,500	8,230	4,220,000	39,100	31,600	14,800,000
India	4,000	3,040	1,720,000	27,700	21,100	11,300,000
Korea, Republic of	2,500	1,900	1,030,000	2,500	1,900	1,030,000
South Africa	12,200	9,610	5,310,000	114,000	91,000	45,000,000
Total, high carbon	37,100	28,900	15,600,000	212,000	168,000	83,800,000
Total, general imports of high carbon	37,100	28,900	15,600,000	212,000	168,000	83,800,000
Grand total	48,600	38,300	23,100,000	275,000	218,000	124,000,000
Grand total, general imports	48,600	38,300	23,100,000	275,000	218,000	124,000,000

-- Zero.

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

2/ Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN DECEMBER 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
Gabon	--	--	40,000	20,300	40,000	20,300
Year to date:						
Australia	--	--	34,700	18,400	34,700	18,400
Belgium	--	--	181	128	181	128
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	227,000	120,000	272,000	140,000
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	349,000	180,000	427,000	214,000

-- 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.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN DECEMBER 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	1,540	\$2,120,000	22,000	\$30,200,000	--	--	--	--
Belgium	18	25,000	589	1,060,000	--	--	--	(2/)
Canada	--	--	--	--	--	(2/)	--	16
China	365	380,000	1170	1,340,000	1,020	6,100	--	113
France	--	--	--	--	--	--	--	43
Germany	--	--	72	301,000	181	3,600	--	24
Greece	293	382,000	1,480	1,910,000	--	--	--	--
Hong Kong	--	--	126	129,000	--	--	--	--
Ireland	819	1,100,000	6,550	8,680,000	--	--	--	--
Japan	310	410,000	1,570	2,490,000	--	--	--	16
Mexico	--	--	25	184,000	--	--	--	--
Netherlands	--	--	91	122,000	--	--	--	73
Poland	--	--	--	--	--	--	--	20
South Africa	225	316,000	2,900	4,170,000	807	12,200	--	--
Spain	--	--	--	--	--	148	--	--
United Kingdom	--	--	93	130,000	--	46	--	(2/)
Total	3,570	4,730,000	36,700	50,700,000	2,000	22,100	--	305
Total, general imports	3,570	4,730,000	36,700	50,700,000	2,000	22,100	--	305

-- 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 4,930 tons, of which 2,880 tons was from Canada, and 2,050 tons was from France, to give a year-to-date total of 7,180 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 2/		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal 3/	
	December	Year to date	December	Year to date	December	Year to date	December	Year to date
Australia	--	249	--	5	--	21	--	--
Belgium	--	34	--	--	--	--	--	502
Brazil	31	181	--	8	4	19	--	5
Canada	258	2,820	159	5,660	67	334	3	174
China	--	1,190	--	--	--	--	--	67
Colombia	--	--	--	--	--	--	--	8
Dominican Republic	--	31	--	--	--	--	--	--
Ecuador	--	--	--	--	--	--	--	1
France	--	--	--	--	--	27	--	--
Germany	72	2,150	--	--	--	--	--	14
Ghana	--	--	--	16	--	--	--	--
Hong Kong	--	18	--	--	--	1	--	1
Indonesia	--	30	--	--	--	4	--	--
Italy	--	1,670	--	--	--	--	--	15
Japan	--	--	--	81	--	--	94	1,120
Korea, Republic of	--	48	--	--	--	--	--	19
Malaysia	--	--	--	--	--	--	--	4
Mexico	431	2,520	--	933	--	67	--	89
Netherlands	86	1,710	--	6	--	8	--	2
Norway	--	513	--	--	--	--	--	3
Poland	24	852	--	--	--	--	--	--
Saudi Arabia	--	--	--	--	--	--	--	20
Singapore	--	--	--	--	--	--	--	(4/)
Spain	--	--	--	--	8	16	--	--
Sri Lanka	--	--	--	--	--	5	--	--
Sweden	19	448	--	--	--	--	--	141
Switzerland	--	99	--	--	--	--	--	--
Taiwan	--	15	--	--	--	--	--	26
Trinidad and Tobago	--	--	--	10	--	20	--	--
Turkey	--	--	--	3	--	--	--	--
United Kingdom	--	265	--	--	--	--	--	(4/)
Venezuela	--	119	--	7	--	--	--	--
Total	921	15,000	159	6,730	79	522	97	2,210

-- Zero.

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

2/ Includes concentrates.

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

4/ Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 31 tons, all of which went to Canada, to give a year-to-date total of 2,500 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN NOVEMBER 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		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	100	\$60	Mexico 80; \$24	2,120	\$2,090	Mexico 1,240; \$423
Sulfates, basket category, including manganese sulfate	3,810	1,910	Mexico 2,210; \$995	37,700	21,300	Mexico 17,400; \$8,880
Potassium permanganate	120	262	Czech Republic 63; \$124	1,540	2,760	Czech Republic 721; \$1,390
Manganites, manganates, and other permanganates	(3/)	3	Canada (3/); \$3	240	858	Germany 166; \$790
Exports:						
Manganese dioxide	335	276	Canada 224; \$80	3,630	3,810	Canada 1,960; \$681
Manganese oxides other than dioxide	271	291	Canada 184; \$71	5,300	5,530	Canada 3,240; \$1,270
Sulfates, basket category, including manganese sulfate	1,660	822	Canada 1,360; \$417	19,500	10,900	Canada 16,300; \$4,900
Potassium permanganate	248	309	Spain 105; \$140	1,300	2,310	Spain 543; \$962
Manganites, manganates, and other permanganates	19	99	Japan 16; \$78	196	1,010	Japan 109; \$533

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

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

3/ Less than 1/2 unit.

Source: U.S. Census Bureau.