

Mineral Industry Surveys

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MANGANESE IN JANUARY 2004

In January, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 34,500 metric tons (t), which was a 6% increase from that for the previous month, according to the U.S. Geological Survey. This figure increases to 36,900 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 143,000 t, which includes an estimate for annual respondents on the basis of 2003 data. This was a 6% decrease from the revised estimate of 152,000 t in December 2003. (Data for the most recent 13 months are plotted in the graph on figure 1.)

Foreign trade data for January will appear in a subsequent report. The data for December 2003 tabulated in this report indicate that the total exports, on a manganese content basis, increased by 9%, compared with those of November 2003, owing to a significant decrease in manganese ferroalloy and metal exports. Manganese imports, on a manganese content basis, were about double those of November, based on significant increases in all imports of manganese materials.

On January 5, the U.S. Environmental Protection Agency (EPA) issued final national emission standards for hazardous air pollutants (HAPs) for lime manufacturing plants, including those captive plants at iron and steel mills. One of the major metallic HAPs from these plants is manganese. EPA will use particulate matter (PM) as a surrogate limit for the metal HAPs. The PM limits are: 0.12 pounds PM per ton of stone feed (lb/tsf) for kilns using dry pollution control systems prior to January 5, 2004; 0.60 lb/tsf for kilns using wet scrubbers prior to January 5, 2004; 0.10 lb/tsf for new kilns and lime coolers; and 0.05 grams PM per dry standard cubic meter PM and 7% opacity for process stone handling operations that vent emissions to the atmosphere. Stack emissions from process stone handling operations that are controlled by wet scrubbers are not subject to the opacity limit (U.S. Environmental Protection Agency, 2004).

Update

On March 1, the International Trade Administration (ITA), U.S. Department of Commerce, extended the time limit for the

final results of its antidumping duty administrative review on silicomanganese imports from Brazil during the period December 1, 2001, through November 30, 2002. The new deadline is March 16 (International Trade Administration, 2004b).

On March 2, the ITA terminated its antidumping duty investigation of electrolytic manganese dioxide from Australia, Greece, Ireland, Japan, and South Africa. The antidumping duty investigation was terminated based on Kerr McGee Chemical, LLC's withdrawal of its antidumping petitions filed on July 31, 2003 (International Trade Administration, 2004a). The U.S. International Trade Commission ended its corollary antidumping duty investigation on March 9 (U.S. International Trade Commission, 2004).

On March 16, the Defense National Stockpile Center announced the cash disposal of 6,740 t of ferromanganese in response to Solicitation for Offers DLA-Ferromanganese-003, Amendment 007, to BSI Commodities, Inc., Pittsburgh, PA. This sale exhausted the FY 2004 Annual Materials Plan authorized quantity for ferromanganese (Defense National Stockpile Center, 2004).

References Cited

- Defense National Stockpile Center, 2004, Stockpile announces ferromanganese sales for March 2004: Defense National Stockpile Center News Release DNSC-04-2444, March 16, 1 p.
- International Trade Administration, 2004a, Notice of termination of antidumping duty investigations—Electrolytic manganese dioxide from Australia, Greece, Ireland, Japan, South Africa: Federal Register, v. 69, no. 41, March 2, p. 9799-9800.
- International Trade Administration, 2004b, Silicomanganese from Brazil—Extension of time limit for final results of antidumping duty administrative review: Federal Register, v. 69, no. 40, March 1, p. 9587-9588.
- U.S. Environmental Protection Agency, 2004, National emission standards for hazardous air pollutants for lime manufacturing plants—Final rule: Federal Register, v. 69, no. 2, January 5, p. 394-433.
- U.S. International Trade Commission, 2004, Electrolytic manganese dioxide from Australia, Greece, Ireland, Japan, and South Africa [termination of investigations]: Federal Register, v. 69, no. 46, March 9, p. 11040-11041.

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:						
December	22,500	55,200	77,700	460	299	759
January-December	236,000	408,000	644,000	7,480	9,840	17,300
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
October	22,000	42,300	64,300	286	1,380	1,670
November	835	22,900 ³	23,700	309	750	1,060
December	3,750	43,300	47,100	592	564	1,160
Total	204,000	393,000 ⁴	597,000 ⁴	9,110	11,100	20,200

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.

⁴The total includes an additional 21,400 of unwrought manganese flake, unwrought manganese powder, and other unwrought manganese to reflect changes in the U.S. Harmonized Tariff Schedule.

Source: U.S. Census Bureau.

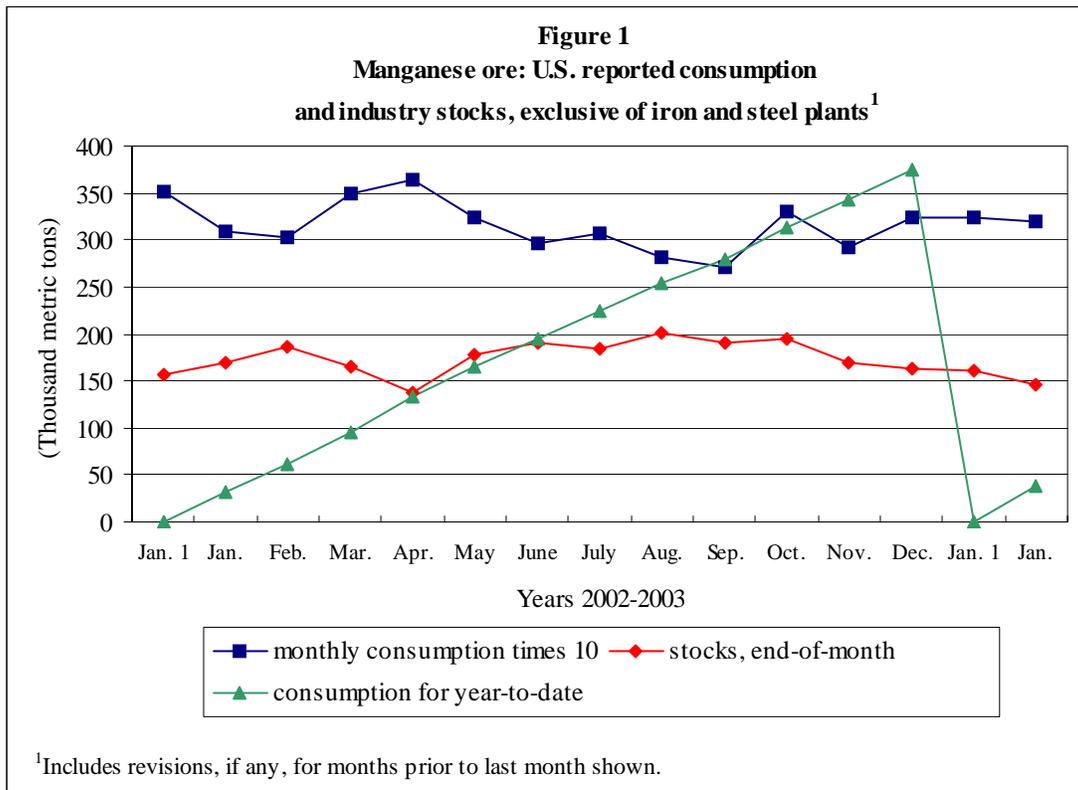


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN DECEMBER 2003¹

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	2,220	1,470	\$1,030,000	47,700	31,600	\$20,500,000
Brazil	--	--	--	42	28	30,300
Canada	--	--	--	21	10	5,460
China	--	--	--	19	11	15,400
France	--	--	--	1,910	1,270	1,050,000
Georgia	--	--	--	20,600	18,300	10,100,000
Kazakhstan	--	--	--	5	3	2,610
Korea, Republic of	--	--	--	2,500	1,660	1,080,000
Mexico	--	--	--	11,600	7,710	5,870,000
Norway	4,510	2,810	3,240,000	28,400	17,300	18,400,000
Romania	9,520	6,710	5,390,000	34,000	24,600	17,200,000
Russia	1,500	254	786,000	3,830	1,770	1,900,000
Slovakia	--	--	--	3,020	1,990	1,780,000
South Africa	5,210	3,470	2,950,000	108,000	72,200	51,400,000
Spain	--	--	--	5,800	3,770	3,310,000
Ukraine	--	--	--	20	15	15,200
United Kingdom	--	--	--	10	6	3,340
Total	23,000	14,700	13,400,000	267,000	182,000	133,000,000
Total, general imports	23,000	14,700	13,400,000	267,000	182,000	133,000,000

-- 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 DECEMBER 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	599	496	\$530,000	5,110	4,580	4,760,000
Italy	--	--	--	356	276	168,000
Japan	--	--	--	5,840	4,720	4,190,000
Korea, Republic of	--	--	--	40	38	40,200
Mexico	657	528	592,000	4,820	3,800	4,170,000
Norway	--	--	--	2,130	1,730	1,300,000
South Africa	360	334	403,000	3,980	3,690	4,680,000
Spain	--	--	--	72	58	58,900
Taiwan	--	--	--	75	66	81,000
Total, low carbon	1,620	1,360	1,530,000	22,400	19,000	19,500,000
Total, general imports of low carbon	1,620	1,360	1,530,000	22,400	19,000	19,500,000
Medium carbon, 1%-2% C:						
China	--	--	--	7,410	5,970	4,850,000
Korea, Republic of	--	--	--	2,500	2,030	1,530,000
Mexico	80	61	75,800	9,720	7,570	6,980,000
Norway	4,050	3,330	2,760,000	6,780	5,500	4,230,000
South Africa	3,220	2,630	2,140,000	22,100	18,000	15,100,000
Total, m.c., 1%-2% C	7,350	6,010	4,980,000	48,600	39,100	32,600,000
Total, general imports of m.c., 1%-2% C	7,350	6,010	4,980,000	48,600	39,100	32,600,000
Medium carbon, 2%-4% C:						
Mexico	--	--	--	22	21	11,400
South Africa	--	--	--	37	29	16,100
Total, m.c., 2%-4% C	--	--	--	59	50	27,500
Total, general imports of m.c., 2%-4% C	--	--	--	59	50	27,500
High carbon:						
Australia	502	385	202,000	7,350	5,690	2,950,000
Brazil	5,220	4,080	2,010,000	23,500	18,400	8,640,000
Canada	--	--	--	98	74	65,300
China	--	--	--	20	15	9,910
France	6,210	4,930	2,840,000	34,000	26,700	13,500,000
Mexico	--	--	--	22	22	10,300
Saudi Arabia	--	--	--	39	30	16,200
South Africa	15,200	11,800	6,560,000	102,000	78,800	39,900,000
Total, high carbon	27,100	21,200	11,600,000	167,000	130,000	65,200,000
Total, general imports of high carbon	27,100	21,200	11,600,000	167,000	130,000	65,200,000
Grand total	36,100	28,600	18,100,000	238,000	188,000	117,000,000
Grand total, general imports	36,100	28,600	18,100,000	238,000	188,000	117,000,000

-- 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 DECEMBER 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
Morocco	--	--	20	11	20	11
Total	--	--	38	24	38	24
Year to date: ⁴						
Australia	--	--	24,500	12,900	24,500	12,900
Belgium	--	--	200	140	200	140
Brazil	17	7	--	--	17	7
China	217	98	75	67	292	165
Gabon	--	--	239,000	123,000	239,000	123,000
Mexico	3,940	1,500	39	29	3,980	1,530
Morocco ⁵	--	--	40	21	40	21
South Africa	13,200	5,410	65,700	31,500	78,900	36,900
Total	17,400	7,010	330,000	168,000	347,000	175,000

-- 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 DECEMBER 2003¹

(Metric tons gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal ²			
	Quantity	Customs value	Year to date		Unwrought		Other	
			Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	4,160	\$5,110,000	29,000	\$35,900,000	--	--	--	--
Belgium	168	242,000	682	1,110,000	--	--	--	1
Brazil	100	43,700	208	93,600	--	--	--	3
Canada	--	--	(3)	3,300	--	--	--	1
China	405	413,000	551	556,000	--	699	20	762
France	--	--	--	--	--	--	--	36
Germany	8	44,600	72	358,000	--	67	--	11
Greece	--	--	1,250	1,480,000	--	--	--	--
India	--	--	4	6,980	--	--	--	--
Ireland	290	303,000	6,610	8,160,000	--	--	--	--
Japan	178	302,000	2,170	2,810,000	--	--	--	23
Korea, Republic of	--	--	27	32,100	--	--	--	20
Mexico	--	--	--	--	--	--	--	13
Netherlands	--	--	--	--	--	--	--	10
Norway	--	--	--	--	--	25	--	--
South Africa	898	1,110,000	8,700	11,100,000	--	904	--	20
Spain	--	--	--	--	--	--	31	514
United Kingdom	--	--	102	144,000	--	--	--	--
Total	6,210	7,570,000	49,400	61,800,000	--	1,700	51	1,410
Total, general imports	6,210	7,570,000	49,400	61,800,000	--	1,700	51	1,410

-- Zero.

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

²During 2003, the U.S. Harmonized Tariff Schedule was changed for manganese metal imports for consumption. Not reflected in the table are total imports for consumption of 8,950 tons of unwrought manganese flake, 4,900 tons of unwrought manganese powder, and 7,540 tons of unwrought manganese.

³Less than 1/2 unit.

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	
	December	Year to date	December	Year to date	December	Year to date	December	Year to date
Australia	--	186	--	--	--	10	--	--
Belgium	--	--	--	--	--	1	18	395
Brazil	15	160	--	--	--	11	--	26
Canada	372	2,620	446	8,840	2	251	30	523
China	--	--	--	3	--	--	(3)	2
Colombia	--	--	--	3	--	--	--	--
France	--	8,890	--	--	--	5	--	7
Germany	576	1,870	--	--	--	--	--	41
Guatemala	--	99	--	--	--	--	--	--
Hong Kong	--	182	--	--	--	--	--	(3)
Hungary	--	19	--	--	--	--	--	--
India	--	40	--	--	--	--	--	--
Indonesia	--	22	6	6	--	7	--	--
Italy	74	1,160	--	7	--	--	--	49
Jamaica	--	7	--	--	--	--	--	--
Japan	--	9	--	19	--	--	67	806
Korea, Republic of	--	8	--	--	--	--	--	5
Mexico	--	--	--	19	20	223	75	295
Netherlands	--	204	--	--	--	4	--	--
New Zealand	--	6	--	--	--	--	--	--
Norway	--	555	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	7
Philippines	--	12	--	--	--	--	--	--
Poland	47	866	--	--	--	--	--	--
Portugal	--	77	--	--	--	--	--	3
Spain	--	--	--	--	--	11	--	--
Sweden	99	427	--	--	--	--	--	180
Switzerland	--	54	--	--	--	--	--	--
Taiwan	--	7	--	--	--	--	(3)	(3)
Thailand	--	--	--	--	--	--	--	5
Trinidad and Tobago	--	--	--	--	--	82	--	--
Turkey	--	109	--	--	--	--	--	--
United Kingdom	--	609	--	--	--	--	--	(3)
Venezuela	--	17	--	1,260	--	--	--	--
Total	1,180	18,200	452	10,200	22	605	192	2,340

-- 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: No exports of ferromanganese with more than 2% carbon were reported, to keep a year-to-date total of 458 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 2003, BY CLASS^d

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal source and destination: gross weight (metric tons); value ³ (thousands)	Year to date ²		Principal source and destination: gross weight (metric tons); value ³ (thousands)
				Gross weight (metric tons)	Value ³ (thousands)	
Imports for consumption:						
Manganese oxides other than dioxide	328	\$209	Norway 200; \$73	2,270	\$2,010	Mexico 1,000; \$336
Sulfates, basket category, including manganese sulfate	3,620	1,760	China 2,160; \$663	44,500	20,300	China 23,100; \$7,030
Potassium permanganate	82	159	Czech Republic 46; \$88	1,470	2,880	Czech Republic 889; \$1,720
Manganites, manganates, and other permanganates	36	62	China 36; \$62	353	759	China 229; \$390
Exports:						
Manganese dioxide	415	371	Canada 214; \$125	4,470	4,590	Canada 2,300; \$939
Manganese oxides other than dioxide	376	301	Canada 243; \$108	4,640	4,930	Canada 2,870; \$1,150
Sulfates, basket category, including manganese sulfate	1,680	668	Canada 1,470; \$416	20,200	9,910	Canada 16,500; \$4,700
Potassium permanganate	480	684	Spain 389; \$583	2,710	3,980	Spain 1,600; \$2,560
Manganites, manganates, and other permanganates	58	284	Japan 45; \$221	450	2,010	Japan 274; \$1,220

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.