

Mineral Industry Surveys

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MANGANESE IN FEBRUARY 2004

In February, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 31,700 metric tons (t), which was a 3% decrease from the revised estimate for January of 32,500 t, according to the U.S. Geological Survey. This figure increases to 34,100 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 136,000 t, which includes an estimate for annual respondents on the basis of 2003 data. Ending stocks for February were slightly less than those of January 2004. (Data for the most recent 13 months are plotted in the graph on page 2.)

Foreign trade data for February will appear in a subsequent report. The data for January 2004 tabulated in this report indicate that the total exports, on a manganese content basis, increased by 25%, compared with those of December 2003, owing to a significant increase in manganese ferroalloy and metal exports. Manganese imports, on a manganese content basis, increased by 8%, compared with those of December, based on a significant increase in imports of manganese ore and dioxide.

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, January	2,340	24,900	27,300	176	711	887
2004, January	13,100	37,500	50,600	653	796	1,450

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.

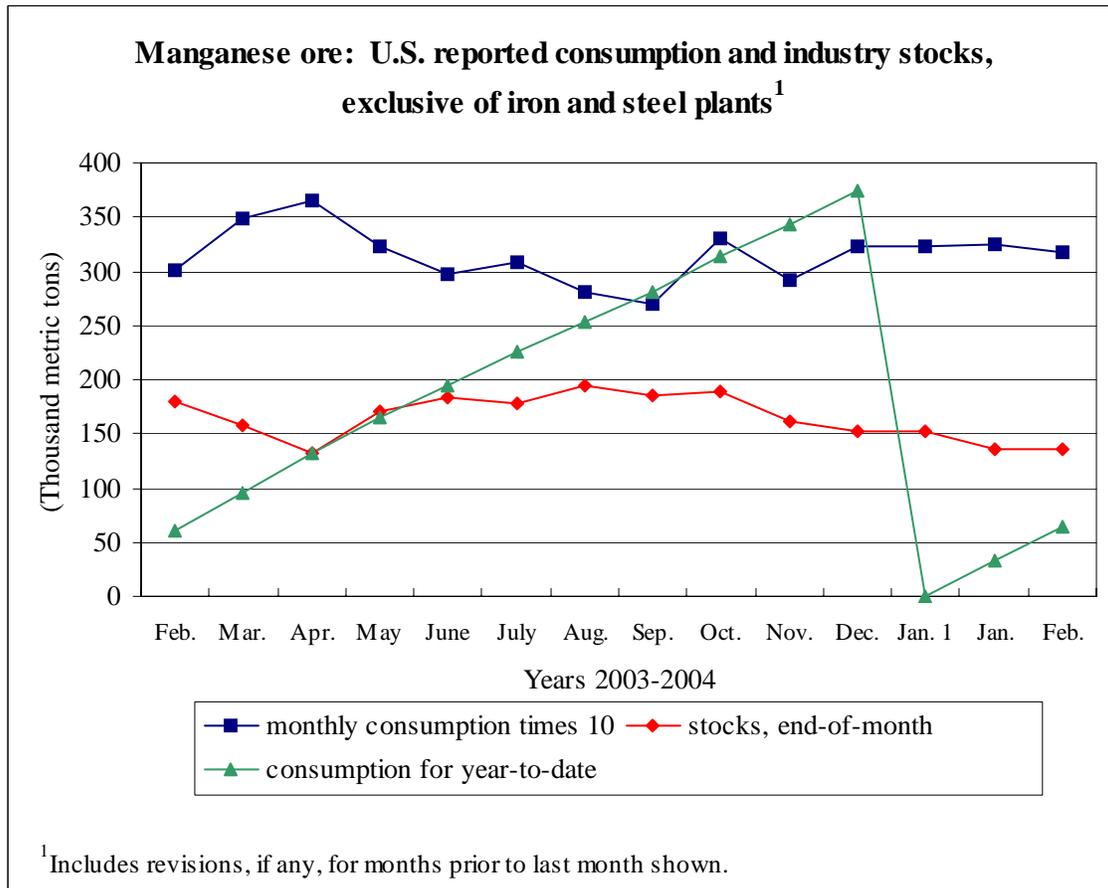


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JANUARY 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value
Australia	4,010	2,670	\$2,200,000
Canada	89	60	\$39,400
Georgia	58	44	\$40,200
Norway	1,500	1,020	703,000
Romania	8,150	5,480	5,390,000
South Africa	11,200	7,430	6,190,000
Ukraine	18	13	18,000
United Kingdom	17	13	11,700
Total	25,100	16,700	14,600,000
Total, general imports	25,100	16,700	14,600,000

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 JANUARY 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value
Low carbon:			
China	898	742	\$705,000
Mexico	390	308	356,000
Norway	701	572	599,000
South Africa	160	148	178,000
Total, low carbon	2,150	1,770	1,840,000
Total, general imports of low carbon	2,150	1,770	1,840,000
Medium carbon, 1%-2% C:			
China	840	682	580,000
Mexico	87	67	83,100
Norway	2,540	2,080	1,900,000
South Africa	5,780	4,640	3,940,000
Total, m.c., 1%-2% C	9,250	7,470	6,510,000
Total, general imports of medium carbon	9,250	7,470	6,510,000
High carbon:			
Australia	1,510	1,160	644,000
Brazil	3,920	3,090	1,830,000
Norway	3,800	2,970	1,680,000
South Africa	3,100	2,420	1,500,000
Total, high carbon	12,300	9,640	5,660,000
Total, general imports of high carbon	12,300	9,640	5,660,000
Grand total	23,700	18,900	14,000,000
Grand total, general imports	23,700	18,900	14,000,000

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 JANUARY 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
Belgium	--	--	18	13	18	13
Gabon	--	--	21,900	10,900	21,900	10,900
Total	--	--	21,900	11,000	21,900	11,000

-- 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 JANUARY 2004¹

(Metric tons, gross weight)

Source	Manganese dioxide	
	Quantity	Customs value
Australia	1,840	\$2,220,000
Belgium	55	107,000
Brazil	84	36,000
China	597	597,000
Greece	288	340,000
Japan	393	456,000
South Africa	370	467,000
Total	3,620	4,220,000
Total, general imports	3,620	4,220,000

-- 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 JANUARY 2004¹

(Metric tons)

Source	Gross weight	Customs value
Unwrought flake:		
China	540	\$545,000
South Africa	502	601,000
Total	1,040	1,150,000
Unwrought powder:		
China	240	296,000
South Africa	283	377,000
Total	523	673,000
Unwrought, other:		
South Africa	200	252,000
Other manganese, wrought:		
China	51	56,100
Spain	17	39,200
Total	68	95,300
Grand total	1,830	2,170,000

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

Note: Imports for consumption of metallic manganese waste and scrap totaled 69 tons, all of which was from Canada.

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 JANUARY 2004¹

(Metric tons, gross weight)

	Manganese ore	Ferromanganese, 2% or less C	Silicomanganese	Manganese metal ²
Belgium	--	--	--	18
Brazil	15	--	--	2
Canada	506	451	--	111
Estonia	--	54	--	--
France	--	--	--	--
Germany	593	--	--	--
Hong Kong	23	--	--	--
Indonesia	--	--	5	--
Italy	74	--	--	--
Japan	--	--	--	110
Mexico	--	10	17	87
Netherlands	--	--	4	--
Poland	49	--	--	--
Russia	21	--	--	--
Sweden	19	--	--	32
United Kingdom	4	--	--	--
Total	1,300	515	26	360

-- 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.

Note: Exports of ferromanganese with more than 2% carbon totaled 15 tons, all of which went to Canada.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JANUARY 2004, BY CLASS¹

Class	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	185	\$125	Mexico 113; \$45
Sulfates, basket category, including manganese sulfate	3,650	1,760	China 2,400; \$814
Potassium permanganate	133	256	Czech Republic 79; \$150
Manganites, manganates, and other permanganates	184	299	Canada 184; \$299
Exports:			
Manganese dioxide	245	191	Canada 166; \$72
Manganese oxides other than dioxide	315	314	Canada 194; \$84
Sulfates, basket category, including manganese sulfate	1,420	709	Canada 1,220; \$397
Potassium permanganate	422	627	Spain 307; \$486
Manganites, manganates, and other permanganates	65	262	Japan 36; \$171

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

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

Source: U.S. Census Bureau.