



# Mineral Industry Surveys

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## MANGANESE IN MARCH 2003

In March, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 34,900 metric tons (t), which was a 16% increase from that for the previous month, according to the U.S. Geological Survey. This figure increases to 37,300 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 164,000 t, which includes an estimate for annual respondents on the basis of 2002 data. This was a decrease of 12% 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 March will appear in a subsequent report. The data for February 2003 tabulated in this report indicate that the total imports for consumption, on a manganese content basis, increased by 79% from those of January 2003 (table 1). Total exports, on a manganese content basis, increased by about 10% from those for the previous month.

### Update

On April 22, 2003, Rollack, Inc., a metals processor, opened a new ferromanganese division in Johnstown, PA (Murtha,

2003<sup>1</sup>). The company will process ferromanganese-bearing slag left over by blast furnaces in the Johnstown area as agreements with owners are negotiated. The company plans to produce medium- and high-carbon ferromanganese (Ryan's Notes, 2003a). The company is currently processing slag from a site near Johnstown previously owned by LTV (Ryan's Notes, 2003b).

### References Cited

Ryan's Notes, 2003a, New US manganese alloy plant; Highlanders gets another last chance: Ryan's Notes, v. 10, no. 16, April 21, p. 1.  
Ryan's Notes, 2003b, Nucor tenders for FeSi and FeMn: Ryan's Notes, v. 10, no. 17, April 28, p. 1.

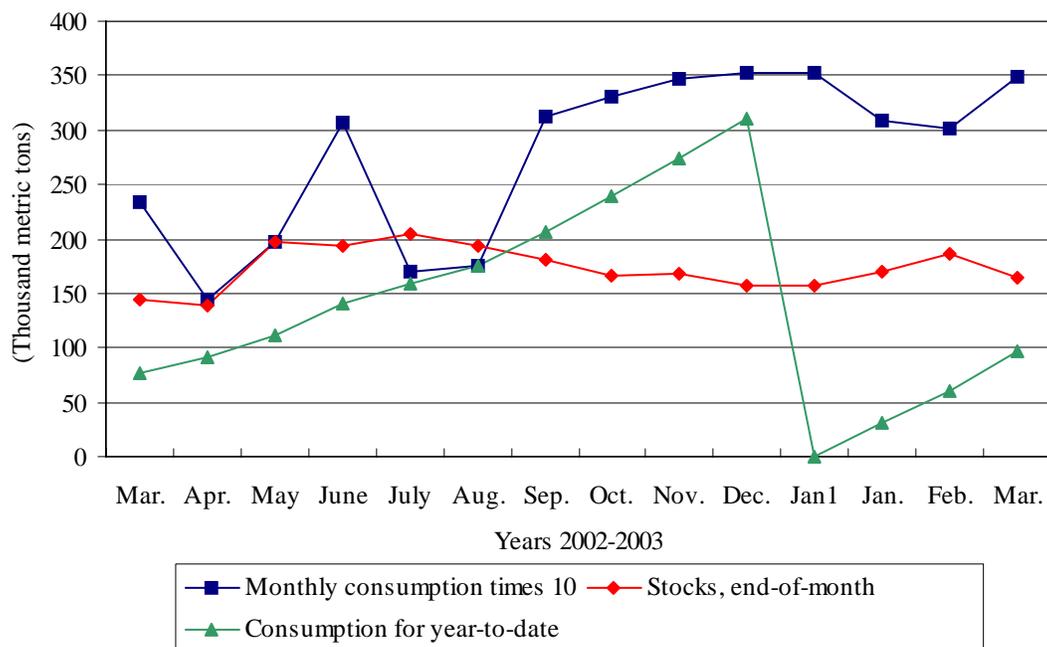
### Internet Reference Cited

Murtha, John, 2003, Murtha joins in grand opening of Rollock division, News from Congressman Jack Murtha, April 22, accessed May 22, 2003 at URL <http://www.house.gov/murtha/news/news.htm>.

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<sup>1</sup>A reference that includes a section mark (§) is found in the Internet Reference Cited section.

**Manganese ore: U.S. reported consumption and industry stocks,  
exclusive of iron and steel plants<sup>1</sup>**



<sup>1</sup>Includes revisions, if any, for months prior to last month shown.

TABLE 1  
SELECTED U.S. FOREIGN TRADE IN MANGANESE<sup>1</sup>

(Metric tons, manganese content)<sup>2</sup>

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
<b>2002:</b>						
February	34,400	29,700	64,000	453	774	1,230
January-February	58,300	71,900	130,000	1,230	1,830	3,050
<b>2003:</b>						
January	2,340	24,900	27,300	176	711	887
February	21,100	27,700	48,800	151	820	971
Total	23,500	52,600	76,100	327	1,530	1,860

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

<sup>2</sup>As 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 FEBRUARY 2003<sup>1</sup>

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	2,760	1,810	\$1,300,000	7,170	4,740	\$3,320,000
Mexico	1,340	919	636,000	1,340	919	636,000
Norway	2,820	1,690	1,610,000	4,210	2,390	2,980,000
Romania	2,200	1,430	1,040,000	7,690	5,300	3,690,000
Russia	1,220	794	586,000	1,220	794	586,000
South Africa	5,650	3,780	2,660,000	8,950	5,930	4,250,000
Total	16,000	10,400	7,830,000	30,600	20,100	15,500,000
Total, general imports	16,000	10,400	7,830,000	30,600	20,100	15,500,000

<sup>1</sup>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 FEBRUARY 2003<sup>1</sup>

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
<b>Low carbon:</b>						
Canada	--	--	--	20	16	\$18,200
China	227	212	\$213,000	511	478	467,000
Italy	--	--	--	356	276	168,000
Japan	--	--	--	1,700	1,370	1,140,000
Mexico	--	--	--	20	15	16,400
Norway	1,000	810	810,000	1,000	810	810,000
South Africa	360	333	448,000	820	758	1,030,000
Spain	36	29	28,800	36	29	28,800
Total, low carbon	1,620	1,380	1,500,000	4,460	3,750	3,680,000
Total, general imports of low carbon	1,620	1,380	1,500,000	4,460	3,750	3,680,000
<b>Medium carbon, 1%-2% C:</b>						
China	120	108	79,600	1,920	1,460	1,210,000
Mexico	1,440	1,160	1,000,000	1,500	1,210	1,050,000
Norway	--	--	--	1,780	1,460	980,000
South Africa	2,440	1,970	1,620,000	4,740	3,850	3,250,000
Total, m.c., 1%-2% C	3,990	3,240	2,700,000	9,940	7,970	6,490,000
Total, general imports of m.c., 1%-2% C	3,990	3,240	2,700,000	9,940	7,970	6,490,000
<b>Medium carbon, 2%-4% C:</b>						
Mexico	22 <sup>2</sup>	21 <sup>2</sup>	11,400 <sup>2</sup>	22	21	11,400
<b>High carbon:</b>						
Australia	250	193	113,000	755	580	344,000
Brazil	1,310	1,020	514,000	1,310	1,020	514,000
Canada	--	--	--	86	65	56,400
France	4,000	3,140	1,530,000	4,000	3,140	1,530,000
South Africa	10,500	8,150	4,440,000	18,300	14,100	7,640,000
Total, high carbon	16,100	12,500	6,600,000	24,400	18,900	10,100,000
Total, general imports of high carbon	16,100	12,500	6,600,000	24,400	18,900	10,100,000
Grand total	21,700	17,200	10,800,000	38,800	30,700	20,300,000
Grand total, general imports	21,700	17,200	10,800,000	38,800	30,700	20,300,000

-- Zero.

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

<sup>2</sup>All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN FEBRUARY 2003<sup>1, 2</sup>

(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 <sup>3</sup>	13 <sup>3</sup>	18	13
Gabon	--	--	37,100	18,500	37,100	18,500
Total	--	--	37,100	18,500	37,100	18,500
Year to date:						
Belgium	--	--	36	25	36	25
Gabon	--	--	37,100	18,500	37,100	18,500
Total	--	--	37,100	18,500	37,100	18,500

-- Zero.

<sup>1</sup>Quantities for general imports and imports for consumption are identical.

<sup>2</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN FEBRUARY 2003<sup>1</sup>

(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	3,180	\$3,950,000	5,680	\$7,370,000	--	--	--	--
Belgium	55	101,000	91	163,000	--	--	--	--
Canada	--	--	--	--	--	--	1	1
China	54	56,400	54	56,400	--	699	99	139
Germany	18	56,400	24	91,800	--	67	--	--
Ireland	413	518,000	804	1,030,000	--	--	--	--
Japan	55	68,600	456	572,000	--	--	--	5
Norway	--	--	--	--	--	25	--	--
South Africa	551	715,000	1,100	1,490,000	--	904	--	--
Spain	--	--	--	--	--	--	--	10
Total	4,330	5,460,000	8,210	10,800,000	--	1,700	101	156
Total, general imports	4,330	5,460,000	8,210	10,800,000	--	1,700	101	156

-- Zero.

<sup>1</sup>Data 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 33 tons, all of which was from Canada, to give a year-to-date total of 115 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 2003<sup>1</sup>

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal <sup>2</sup>	
	February	Year to date	February	Year to date	February	Year to date	February	Year to date
Australia	31	31	--	--	--	--	--	--
Brazil	23	23	--	--	--	--	--	20
Canada	43	208	754	1,330	54	123	78	124
China	--	--	--	--	--	--	--	1
Germany	--	125	--	--	--	--	(3)	22
Hong Kong	--	--	--	--	--	--	(3)	(3)
Japan	--	--	--	--	--	--	30	105
Korea, Republic of	--	--	--	--	--	--	--	2
Mexico	--	--	--	--	--	--	20	23
Netherlands	86	86	--	--	--	--	--	2
Poland	24	47	--	--	--	--	--	--
Sweden	--	19	--	--	--	--	32	48
Switzerland	--	20	--	--	--	--	--	--
Taiwan	7	7	--	--	--	--	--	--
United Kingdom	89	89	--	--	--	--	--	--
Total	302	654	754	1,330	54	123	160	346

-- Zero.

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

<sup>2</sup>Includes manganese-aluminum, some other alloys, and waste and scrap.

<sup>3</sup>Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 36 tons, all of which went to Canada, to give a year-to-date total of 63 tons.

Source: U.S. Census Bureau.

TABLE 7  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN FEBRUARY 2003, BY CLASS<sup>1</sup>

Class	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)	Year to date		Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)
				Gross weight (metric tons)	Value <sup>2</sup> (thousands)	
<b>Imports for consumption:</b>						
Manganese oxides other than dioxide	378	\$319	Mexico 215; \$68	490	\$454	Mexico 272; \$84
Sulfates, basket category, including manganese sulfate	2,290	1,400	Mexico 1,770; \$949	3,980	2,480	Mexico 2,250; \$1,210
Potassium permanganate	139	288	Czech Republic 83; \$161	284	574	Czech Republic 174; \$388
Manganites, manganates, and other permanganates	--	--	XX	(3)	5	Canada (3); \$5
<b>Exports:</b>						
Manganese dioxide	308	310	Canada 181; \$60	625	608	Canada 398; \$133
Manganese oxides other than dioxide	209	254	Canada 115; \$40	731	672	Canada 508; \$187
Sulfates, basket category, including manganese sulfate	2,000	823	Canada 1,680; \$464	3,710	1,580	Canada 3,190; \$888
Potassium permanganate	163	217	Spain 79; \$130	252	337	Spain 132; \$215
Manganites, manganates, and other permanganates	46	229	Spain 16; \$58	68	345	Japan 30; \$149

XX Not applicable. -- Zero.

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

<sup>2</sup>For imports, Customs value; for exports, free alongside ship value.

<sup>3</sup>Less than 1/2 unit.

Source: U.S. Census Bureau.