

Mineral Industry Surveys

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MANGANESE IN APRIL 2004

In April, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 23,700 metric tons (t), which was a 25% decrease from the revised estimate for March of 31,500 t, according to the U.S. Geological Survey. This figure increases to 26,100 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 179,000 t, which includes an estimate for annual respondents on the basis of 2003 data. (Data for the most recent 13 months are plotted in the graph on page 2.)

Foreign trade data for April will appear in a subsequent report. The data for March 2004 tabulated in this report indicate that the total exports, on a manganese content basis, were about five times those of February 2004, owing to a significant increase in manganese ore exports. Manganese imports, on a manganese content basis, increased by 19%, compared with those of February based on increases in manganese ore and dioxide imports.

On April 27, Consolidated Minerals Ltd. announced it would increase annual production to 800,000 t from 600,000 t at its Woodie Woodie Mine, East Pilbara District of Western Australia, by November 2004. The company plans to spend \$6.5 million to install additional heavy media separation capacity and make minor modifications to the existing crushing plant. The life of the mine would still be 10 years with added production capacity (Consolidated Minerals Ltd., 2004§¹). On April 28, the Defense National Stockpile Center issued Amendment No. 006 to the Solicitation of Offers, DLA-Manganese Metallurgical and Chemical Grades-002 for the sale of about 1,240 t of synthetic battery-grade manganese dioxide (Defense National Stockpile Center, 2004).

Update

Eramet SA announced plans in June to increase production of manganese ore from its Moanda Mine in Gabon by 20% over the next 2 years to meet increasing demand from steelmakers. Production would increase to 3 million tons (Mt) in 2006 from its current annual production of 2.5 Mt (American Metal Market, 2004§).

Reference Cited

Defense National Stockpile Center, 2004, Stockpile issues manganese ore amendment, Defense National Stockpile Center, News Release DNSC-04-2462, April 28, 1 p.

Internet References Cited

American Metal Market, 2004 (June 23), Eramet plans to raise manganese production, accessed June 23, 2004, at URL http://www.amm.com.
Consolidated Minerals Ltd., 2004 (April 27), Consmin announces manganese expansion, accessed June 1, 2004, at URL http://consminerals.com.au.

¹References that include a section mark (§) are found in the Internet References Cited section.

TABLE 1 SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

	Impo	rts for consumpti	Exports				
	Ore and	Ore and Ferroalloy		Ferroalloy			
	dioxide	and metal	Total	Ore	and metal	Total	
2003:							
March	28,100	23,300 r	51,400 r	347	1,010	1,350	
January-March	51,600	76,000 ^r	128,000 ^r	674	2,540	3,210	
2004:							
January	13,100	37,500	50,600	653	796	1,450	
February	20,600	33,100	53,700	1,920	745	2,660	
March	34,800	29,300 ³	64,100	12,400	559	13,000	
Total	68,500	99,900	168,000	15,000	2,100	17,100	

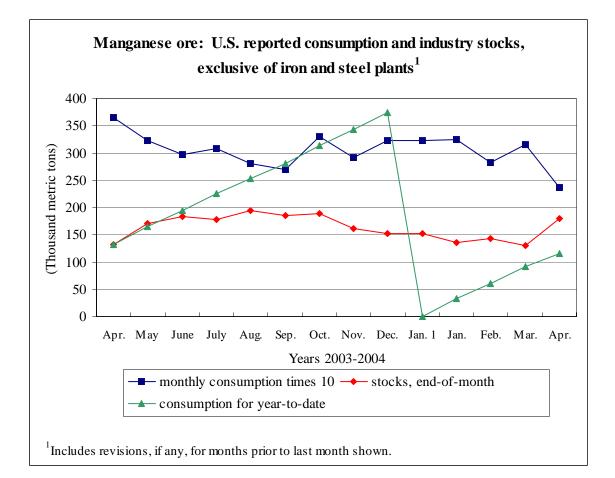
(Metric tons, manganese content)²

^rRevised.

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.



U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN MARCH 2004^1

					Year to date	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value	weight	content	value
Australia	6,120	4,060	\$3,290,000	10,100	6,730	\$5,500,000
Canada				668	552	295,000
Georgia	2,460	1,280	1,400,000	5,220	4,020	2,820,000
Korea, Republic of				4,350	2,860	1,880,000
Norway	38	23	34,700	6,070	3,800	4,720,000
Romania	4,640	3,200	4,900,000	14,800	10,700	11,400,000
South Africa	4,950	3,280	3,460,000	24,900	16,400	15,100,000
Ukraine				18	13	18,000
United Kingdom				17	13	11,700
Total	18,200	11,800	13,100,000	66,200	45,100	41,700,000
Total, general imports	18,200	11,800	13,100,000	66,200	45,100	41,700,000

(Metric tons, unless otherwise specified)

-- Zero.

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

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MARCH 2004^1

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value	weight	content	value	
Low carbon:							
China	- 94	88	\$133,000	1,150	976	\$1,000,000	
Mexico				1,220	963	1,100,000	
Norway	- 90	73	111,000	791	646	711,000	
South Africa	200	186	283,000	364	336	466,000	
Total, low carbon	384	347	527,000	3,520	2,920	3,280,000	
Total, general imports	_						
of low carbon	384	347	527,000	3,520	2,920	3,280,000	
Medium carbon, 1%-2% C:							
China				840	682	580,000	
Italy				11	76	42,000	
Korea, Republic of				2,500	2,000	1,450,000	
Mexico	260	199	257,000	427	327	415,000	
Norway				2,540	2,080	1,900,000	
South Africa	2,710	2,170	2,120,000	11,600	9,300	8,550,000	
Total, m.c., 1%-2% C	2,970	2,370	2,380,000	17,900	14,500	12,900,000	
Total, general imports	_						
of m.c., 1%-2% C	2,970	2,370	2,380,000	17,900	14,500	12,900,000	
Medium carbon, 2%-4% C, Georgia	1,200 ²	1,200 2	778,000 ²	1,200	1,200	778,000	
Total, general imports	_						
of m.c., 2%-4% C	1,200 2	1,200 2	778,000 ²	1,200	1,200	778,000	
High carbon:							
Australia	3,100	2,390	1,740,000	5,410	4,170	2,530,000	
Brazil				3,920	3,090	1,830,000	
Norway				5,890	4,590	2,670,000	
South Africa	7,760	6,060	4,440,000	21,200	16,500	11,200,000	
Spain	3,000	2,270	2,960,000	3,000	2,270	2,960,000	
Total, high carbon	13,900	10,700	9,130,000	39,400	30,600	21,200,000	
Total, general imports	-						
of high carbon	13,900	10,700	9,130,000	39,400	30,600	21,200,000	
Grand total	18,400	14,600	12,800,000	62,000	49,200	38,200,000	
Grand total, general imports	18,400	14,600	12,800,000	62,000	49,200	38,200,000	

(Metric tons, unless otherwise specified)

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown. ²All or part of these data have been referred to the U.S. Census Bureau for verification.

U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN MARCH 2004^{1, 2}

(Metric	tons)
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	20% - 4	20% - 47% Mn		nore Mn	Tot	Total		
	Gross	Mn	Gross	Mn	Gross	Mn		
Source	weight	content	weight	content	weight	content		
Gabon	1,000	440	63,300	33,300	64,300	33,700		
India			39	35	39	35		
Total	1,000	440	63,300	33,300	64,300	33,700		
Year to date:								
Australia			17,300	9,150	17,300	9,150		
Belgium			36	25	36	25		
Gabon	1,000	440	105,000	53,900	106,000	54,400		
India			39	35	39	35		
Total	1,000	440	122,000	63,100	123,000	63,600		

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

 $^2\mbox{Data}$ 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 IN MARCH 2004^1

(Metric tons, gross weight)

	Manganese dioxide						
			Year to date				
		Customs		Customs			
Source	Quantity	value	Quantity	value			
Australia	196	\$240,000	3,350	\$4,070,000			
Belgium	55	103,000	123	238,000			
Brazil	275	184,000	364	229,000			
China	1,220	1,240,000	2,840	2,870,000			
Germany	8	32,700	31	71,400			
Greece			288	340,000			
Japan			827	989,000			
South Africa			370	467,000			
Total	1,750	1,800,000	8,200	9,280,000			
Total, general imports	1,750	1,800,000	8,200	9,280,000			

-- Zero.

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

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MARCH 2004^1

			Year	to date
	Gross	Customs	Gross	Customs
Source	weight	value	weight	value
Unwrought flake:				
China	600	\$605,000	1,140	\$1,150,000
South Africa	1,110	1,530,000	1,890	2,520,000
Total	1,710	2,130,000	3,030	3,670,000
Unwrought powder:				
China	160	197,000	532	588,000
South Africa	422	605,000	988	1,540,000
Total	582	802,000	1,520	2,130,000
Unwrought, other:				
China	19	28,500	19	28,500
Spain	68	95,700	102	161,000
South Africa	320	467,000	620	845,000
Total	407	591,000	741	1,030,000
Other manganese, wrought:				
China	59	100,000	165	249,000
Japan	4	14,400	4	14,400
India			8	12,000
Spain			17	39,200
United Kingdom			(2)	5,100
Total	63	114,000	194	320,000
Grand total	2,760	3,640,000	5,490	7,150,000

(Metric tons)

-- 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 120 tons, all of which was from Canada, to give a year-to-date total of 283 tons.

U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,

SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2004^1

(Metric tons, gross weight)

			Ferrom	anganese,					
	Manga	anese ore	2% c	or less C	Silicon	Silicomanganese		Manganese metal ²	
	March	Year to date	March	Year to date	March	Year to date	March	Year to date	
Australia	16	32							
Belgium							18	95	
Brazil	15	50					(3)	2	
Canada	592	1,770	340	1,330			113	312	
China	22,800	22,800							
Estonia				54					
France					3	3		(3)	
Germany	1,080	2,130						(3)	
Hong Kong		23							
Indonesia	26	26				5			
Italy		74					9	29	
Japan							86	214	
Korea, Republic of							4	4	
Mexico				22	16	51		105	
Netherlands	126	2,510				11			
Norway	110	110							
Poland	25	213							
Russia		21							
Sweden	100	160					31	63	
Trinidad and Tobago						38			
United Kingdom		98					1	1	
Total	24,900	30,000	340	1,410	19	108	262	825	

-- 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 20 tons, all of which went to Canada, to give a year-to-date total of 115 tons.

TABLE 8 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 2004, BY CLAS¹

				Year to date			
			Principal sources and destinations:			Principal sources and destinations:	
	Gross weight	Value ²	gross weight (metric tons);	Gross weight	Value ²	gross weight (metric tons)	
Class	(metric tons)	(thousands)	value ² (thousands)	(metric tons)	(thousands)	value ² (thousands)	
imports for consumption:							
Manganese oxides other than dioxide	289	\$276	Mexico 189; \$68	709	\$630	Mexico 451; \$184	
Sulfates, basket category,							
including manganese sulfate	4,770	1,990	China 3,260; \$1,020	10,100	4,890	China 6,140; \$2,100	
Potassium permanganate	31	57	Czech Republic 31; \$57	254	484	Czech Republic 200; \$378	
Manganites, manganates, and							
other permanganates			XX	274	446	China 274; \$446	
Exports:							
Manganese dioxide	311	323	Canada 107; \$42	899	838	Canada 424; \$174	
Manganese oxides other than dioxide	455	631	Canada 218; \$79	1,250	1,230	Canada 717; \$290	
Sulfates, basket category,							
including manganese sulfate	1,810	1,050	Canada 1,610; \$549	4,510	2,490	Canada 3,820; \$1,280	
Potassium permanganate	196	286	Spain 113; \$170	760	1,110	Spain 518; \$802	
Manganites, manganates, and							
other permanganates	29	133	Hong Kong 14; \$62	148	624	Japan 87; \$380	
XX Not applicable							

XX Not applicable.

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

²For imports, Customs value; for exports, free alongside ship value.