

Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist U.S. Geological Survey 989 National Center Reston, VA 20192 Telephone: (703) 648-4973, Fax: (703) 648-7757 E-mail: lcorathers@usgs.gov Jesse J. Inestroza (Data) Telephone: (703) 648-7968 Fax: (703) 648-7975 E-mail: jinestro@usgs.gov

Internet: http://minerals.usgs.gov/minerals

MANGANESE IN JUNE 2003

In June, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 30,300 metric tons (t), which was a 7% decrease from that for the previous month, according to the U.S. Geological Survey. This figure increases to 32,700 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 184,000 t, which includes an estimate for annual respondents on the basis of 2002 data. This was an increase of 3% 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 June will appear in a subsequent report. The data for May 2003 tabulated in this report indicate that the total exports and imports, on a manganese content basis, decreased by 40% and 9%, respectively, from those of April 2003. Significant decreases in manganese ferroalloy and metal trade led to these declines.

Update

On July 21, a bill was introduced in the U.S. House of Representatives entitled, the "Manganese Metal Safety Control Act of 2003." The bill, H.R. 2812, would direct the Administrator of the U.S. Environmental Protection Agency to conduct a study of "the potentially injurious effects to the environment and human health from imported electrolytic manganese metal that contains selenium" in Fiscal Year 2004 under an authorized budget of \$100,000 (H.R. 2812§¹). The United States became dependent on imports of manganese metal after domestic production ceased in mid-2001. Chinese producers reportedly use selenium in their processes to improve electrical current efficiency in electrolytic manganese metal production, whereas producers in other countries, like South Africa, do not (Ryan's Notes, 2003). The status of the bill can be monitored on the web page of the Library of Congress at http://thomas.loc.gov/.

On August 11, the U.S. International Trade Commission initiated an antidumping investigation of electrolytic manganese dioxide imports from Australia, China, Greece, Ireland, Japan, and South Africa in response to a petition filed on July 31, 2003, by Kerr-McGee Chemical, LLC. The ITC held a conference to hear oral presentations in connection with the investigation on August 21. Written testimony was to be submitted by August 26. The ITC must make a preliminary determination on whether the domestic manganese dioxide industry is materially injured or threatened with material injury by September 15 (U.S. International Trade Commission, 2003).

On August 14, the Defense National Stockpile Center announced the cash disposal of approximately 24,500 t of metallurgical-grade manganese ore in response to Solicitation for Offers DLA-MANGANESE-002 to: Advanced Alloys, Pensacola, FL; Eramet Marietta Inc., Marietta, OH; Scott G. Williams, LLC, Conyers, GA; and W.H. Britt, Gatesville, GA.

References Cited

Ryan's Notes, 2003, Mn metal under scrutiny: Ryan's Notes, v. 9, no. 35, July 28, p. 2.

U.S. International Trade Commission, 2003, Electrolytic manganese dioxide from Australia, China, Greece, Ireland, Japan, and South Africa: Federal Register, v. 68, no. 154, August 11, p. 47607-47608.

Internet Reference Cited

H.R. 2812, 2003 (July 21), Manganese Metal Safety Control Act of 2003 (Introduced in House), accessed August 25, 2003, at URL http://thomas.loc.gov.

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

TABLE 1 SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

	Impo	rts for consumption	Exports				
	Ore and	Ferroalloy			Ferroalloy		
	dioxide	and metal	Total	Ore	and metal	Total	
2002:							
May	1,670	16,800	18,500	643	806	1,450	
January-May	114,000	143,000	257,000	3,050	4,480	7,530	
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	
Total	76,700	134,000	211,000	1,380	4,600	5,980	

(Metric tons, manganese content)²

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.

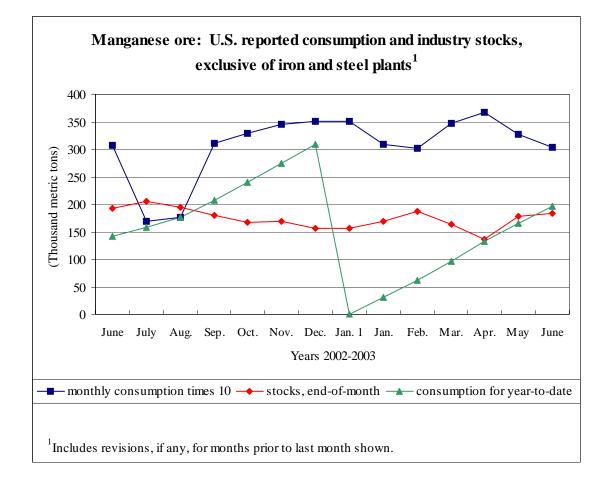


TABLE 2

U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN MAY 2003^1

					Year to date	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value	weight	content	value
Australia	6,020	3,990	\$2,520,000	20,800	13,800	\$9,060,000
Georgia	2,870	1,870	1,460,000	2,870	1,870	1,460,000
Kazakhstan				5	3	2,610
Korea, Republic of	2,500	1,660	1,080,000	2,500	1,660	1,080,000
Mexico				2,800	1,960	1,330,000
Norway				6,510	3,800	4,320,000
Romania				7,690	5,300	3,690,000
Russia				2,330	1,510	1,120,000
South Africa	4,450	2,960	2,020,000	35,300	23,400	16,000,000
Total	15,800	10,500	7,080,000	80,800	53,300	38,000,000
Total, general imports	15,800	10,500	7,080,000	80,800	53,300	38,000,000

(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 MAY 2003^1

(Metric tons, unless otherwise specified)

			Year to date				
Gross	Mn	Customs	Gross	Mn	Customs		
weight	content	value	weight	content	value		
			20	16	\$18,200		
655	637	\$645,000	2,070	1,950	1,960,000		
			356	276	168,000		
36	33	37,300	1,770	1,430	1,220,000		
			40	38	40,200		
779	612	722,000	1,340	1,050	1,230,000		
			2,130	1,730	1,300,000		
360	334	413,000	1,940	1,800	2,380,000		
			72	58	58,900		
1,830	1,620	1,820,000	9,730	8,350	8,370,000		
1,830	1,620	1,820,000	9,730	8,350	8,370,000		
1,300	1,170	861,000	6,390	5,150	4,070,000		
2,500	2,030	1,530,000	2,500	2,030	1,530,000		
1,860	1,480	1,420,000	6,960	5,600	4,920,000		
			1,800	1,470	991,000		
1,310	1,080	971,000	10,600	8,590	7,370,000		
6,970	5,760	4,780,000		22,800	18,900,000		
6,970	5,760	4,780,000	28,200	22,800	18,900,000		
			22	21	11,400		
					· · · · ·		
512	393	202,000	3,870	3,030	1,710,000		
				2,060	1,020,000		
			86	65	56,400		
			14,800	11,600	5,810,000		
			22	22	10,300		
4.020	3.040	1.280.000	40.000	31,000	15,800,000		
4,530	3,430	1,490,000	61,300	47,700	24,400,000		
		, ,	*	,			
4,530	3,430	1,490,000	61,300	47,700	24,400,000		
				-	51,600,000		
13,300	10,800	8,080,000	99,300	78,900	51,600,000		
	weight 655 36 779 360 1,830 1,830 1,830 1,830 1,830 1,830 1,830 1,830 1,830 1,830 6,970 6,970 6,970 512 4,020 4,530 13,300	weight content 655 637 36 33 779 612 360 334 360 334 1,830 1,620 1,830 1,620 1,830 1,620 1,830 1,620 1,830 1,620 1,830 1,620 1,310 1,080 6,970 5,760 6,970 5,760 6,970 5,760 512 393 512 393 4,020 3,040 <	weight content value 655 637 \$645,000 36 33 37,300 779 612 722,000 360 334 413,000 360 334 413,000 360 334 413,000 1,830 1,620 1,820,000 1,830 1,620 1,820,000 1,830 1,620 1,820,000 1,310 1,080 971,000 6,970 5,760 4,780,000 512 393 202,000	weight content value weight 20 655 637 \$645,000 2,070 356 36 33 37,300 1,770 40 779 612 722,000 1,340 2,130 360 334 413,000 1,940 72 1,830 1,620 1,820,000 9,730 1,830 1,620 1,820,000 9,730 1,300 1,170 861,000 6,390 2,500 2,030 1,530,000 2,500 1,300 1,480 1,420,000 6,960 1,800 1,310 1,080 971,000 10,600 6,970 5,760 4,780,000 28,200 22	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		

-- Zero.

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

TABLE 4

U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN MAY 2003^{1, 2, 3}

	20% - 47%	Mn	47% or mo	ore Mn	Total	
	Gross	Mn	Gross	Mn	Gross	Mn
Source	weight	content	weight	content	weight	content
Belgium			36	25	36	25
China	18	8			18	8
Gabon			29,400	14,500	29,400	14,500
Total	18	8	29,400	14,500	29,400	14,500
Year to date: ⁴						
Belgium			91	64	91	64
China	36	16			36	16
Gabon			88,900	47,000	88,900	47,000
Mexico	2,540 .	967			2,540	967
South Africa	2,500	1,150	29,700	14,300	32,200	15,400
Total	5,080	2,140	119,000	61,400	124,000	63,500

(Metric tons)

-- 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.

Source: U.S. Census Bureau.

TABLE 5

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN MAY 2003^1

(Metric tons, gross weight, unless otherwise specified)

		Mangane	ese dioxide		Manganese metal				
			Year	to date	Unw	rought	Other		
		Customs		Customs					
Source	Quantity	value	Quantity	value	Quantity	Year to date	Quantity	Year to date	
Australia	4,920	\$6,040,000	13,300	\$16,700,000					
Belgium	18	26,700	177	307,000				1	
Canada								1	
China	15	20,500	141	139,000		699	148	592	
France							3	10	
Germany			52	242,000		67			
Ireland	390	461,000	390	461,000					
Japan	654	824,000	3,330	4,210,000			6	17	
Korea, Republic of	345	409,000	1,110	1,350,000				20	
Mexico								13	
Netherlands								10	
Norway						25			
South Africa	612	777,000	3,440	4,460,000		904			
Spain							87	190	
United Kingdom	1	4,100	101	129,000					
Total	6,955	8,560,000	22,000	28,000,000		1,700	244	854	
Total, general imports	6,955	8,560,000	22,000	28,000,000		1,700	244	854	

⁻⁻ Zero.

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 173 tons, of which 155 tons was from Canada and 18 tons from France, to give a year-to-date total of 574 tons.

TABLE 6

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

SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2003^1

(Metric tons, gross weight)

	Ferromanganese,									
	Manga	anese ore	2% o	r less C	Silicomanganese		Manganese metal ²			
	May	Year to date	May	Year to date	May	Year to date	May	Year to date		
Australia		31			2	8				
Belgium							18	91		
Brazil	15	69			7	7		20		
Canada	178	803	588	4,180		175	24	245		
China							1	2		
France								4		
Germany	39	370						22		
Guatemala	99	99								
Hong Kong		169						(3)		
Hungary		19								
Indonesia	22	22			7	7				
Italy	87	181						20		
Jamaica	7	7								
Japan				19			83	328		
Korea, Republic of								2		
Mexico				19	67	87	9	63		
Netherlands		173								
Norway		139								
Poland	169	288								
Portugal								3		
Sweden		149						99		
Switzerland	17	37								
Taiwan		7								
Trinidad and Tobago						82				
Turkey	109	109								
United Kingdom		89								
Total	742	2,760	588	4,220	83	366	135	899		

-- Zero.

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

 $^{2}\mbox{Includes}$ manganese-aluminum, some other alloys, and waste and scrap.

³Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 18 tons, all of which went to Canada, to give a year-to-date total of 160 tons.

 TABLE 7

 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 2003, BY CLASS¹

					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	126	\$200	South Africa 53; \$126	822	\$831	Mexico 363; \$120			
Sulfates, basket category,									
including manganese sulfate	3,920	1,710	China 2,830; \$758	15,700	7,900	Mexico 7,240; \$3,610			
Potassium permanganate	115	221	Czech Republic 61; \$118	622	1,240	Czech Republic 368; \$719			
Manganites, manganates, and									
other permanganates	20	35	China 18; \$31	35	67	China 33; \$57			
Exports:									
Manganese dioxide	310	299	Canada 150; \$56	1,520	1,460	Canada 889; \$319			
Manganese oxides other than dioxide	499	403	Canada 404; \$170	2,030	2,060	Canada 1,290; \$499			
Sulfates, basket category,									
including manganese sulfate	1,760	1,090	Canada 1,300; \$417	9,540	4,850	Canada 7,680; \$2,260			
Potassium permanganate	303	451	Spain 129; \$219	917	1,420	Spain 502; \$882			
Manganites, manganates, and									
other permanganates	21	101	Japan 15; \$70	187	910	Japan 107; \$516			

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

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