

Mineral Industry Surveys

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MANGANESE IN NOVEMBER 2003

In October, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 39,100 metric tons (t), which was a 12% decrease from that for the previous month, according to the U.S. Geological Survey. This figure increases to 31,500 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 169,000 t, which includes an estimate for annual respondents on the basis of 2002 data. This was a 13% decrease 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 November will appear in a subsequent report. The data for October 2003 tabulated in this report indicate that the total exports, on a manganese content basis, increased by 7% compared with those of September 2003, owing to a significant increase in manganese ferroalloy and metal exports. Total imports, on a manganese content basis, decreased by 4% from those of September based on a significant decrease in manganese ore and manganese dioxide imports.

On October 27, 2003, the International Trade Administration of the U.S. Department of Commerce (ITA) issued a preliminary antidumping duty margin of 2.12% on imports of silicomanganese from Brazil's Eletrosiderurgica Brasileira SA (SIBRA), Companhia Paulista de Ferroligas (CPFL) and Urucum Mineracao S.A. for the period of December 1, 2001, through November 30, 2001. These companies are all subsidiaries of Brazilian mineral producer Companhia Vale do Rio Doce (CVRD). Prior to this preliminary ruling, the antidumping duty margin for such imports was 88.87% (International Trade Administration, 2003).

On October 28, CVRD announced it had restructured its manganese ferroalloy business. SIBRA was renamed Rio Doce Manganese S.A. (RDM). The operations of RDM subsidiaries, including CPFL, would be transferred to RDM starting in January 2004. The main RDM assets are the Azul Mine, located in Carajas, State of Para, and a manganese ferroalloy plant located in Simoes Filho, State of Bahia, as well as CPFL's four ferroalloy plants in the State of Minas Gerais. RDM will have a total annual production capacity of 2,330,000 t of manganese ore and 350,000 t of manganese ferroalloys. CVRD manganese and ferroalloy operations will be held through four wholly owned subsidiaries: RDM; Urucum Mineracao S.A., Corumba, State of Mato Grosso do Sul; Rio Doce Manganese Europe, in Dunkerque, France; and Rio Doce Manganese Norway, Mo I Rana, Norway (Companhia Vale do Rio Doce, 2003§¹).

Update

On December 8, 2003, the Defense National Stockpile Center (DNSC) announced the cash disposal of approximately 22,700 t of high-carbon manganese, in response to Solicitation for Offers DLA-Ferromanganese-003, to the following companies: Hickman Williams & Co., Wexford, PA; Ispat Inland Inc., East Chicago, IN; BSI Commodities, Pittsburgh, PA; Minerais U.S. LLC, Hillsborough, NJ; and AmBriCo, Portage, IN (Defense National Stockpile Center, 2003).

On January 6, 2004, the DNSC announced the cash disposal of about 36,300 t of chemical-grade and 227,000 t of metallurgicalgrade manganese ore, respectively under Solicitation for Offers DLA-Manganese-002. The chemical-grade manganese ore was awarded to Westbrook Resources, Sheffield, England. The metallurgical-grade manganese ore was awarded to Mid-Continental Coal and Coke, Shaker Heights, PA; MMC Resources, Houston, TX; and Westbrook Resources, Sheffield, England. The sales of both manganese ore grades exhaust the DNSC's Annual Materials Plan authorities for sale of these materials for Fiscal Year 2004 (Defense National Stockpile Center, 2004a, b).

On January 22, 2004, the ITA announced it would begin an administrative review of silicomanganese imports from Brazil covering the period of December 1, 2002, through November 30, 2003, at the request of RDM and Urucum Mineracao S.A. (International Trade Administration, 2004).

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

References Cited

- Defense National Stockpile Center, 2003, Stockpile accepts ferromanganese offers: Defense National Stockpile Center, News Release DNSC-04-2396, December 8, 1 p.
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- Defense National Stockpile Center, 2004b, Stockpile accepts metallurgical grade manganese ore offers: Defense National Stockpile Center, News Release DNSC-04-2408, January 6, 1 p.
- International Trade Administration, 2003, Silicomanganese from Brazil—Preliminary results of antidumping duty administrative review: Federal Register, v. 68, no. 207, October 27, p. 61185-61188.
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Companhia Vale do Rio Doce, 2003 (October 28), CVRD simplifies operation structure—Press release, accessed February 2, 2004, at http://www.vale.com.br.

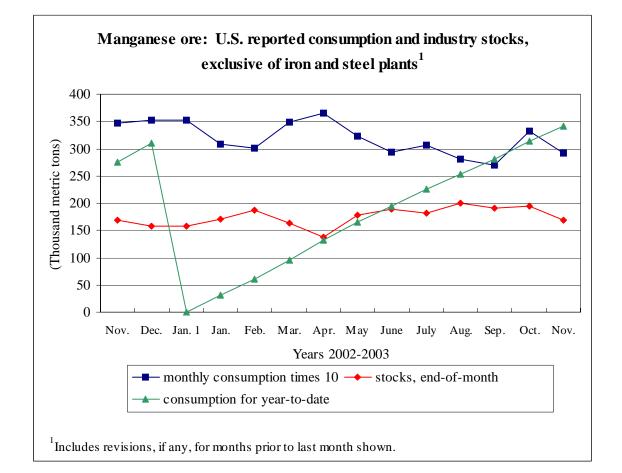
TABLE 1 SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

	Impo	rts for consumptio	Exports					
	Ore and	Ferroalloy		Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total		
2002:								
October	2,590	42,300	44,900	159	680	839		
January-October	206,000	307,000	512,000	6,360	8,960	15,300		
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		
Total	200,000	306,000	506,000	8,210	9,820	18,000		

(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.



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

				Year to date					
Source	Gross weight	Mn content	Customs value	Gross weight	Mn content	Customs value			
Australia	6,420	4,210	\$2,770,000	45,500	30,100	\$19,500,000			
Canada	21	10	5,460	21	10	5,460			
France				1,910	1,270	1,050,000			
Georgia	4,910	4,910	2,290,000	16,400	14,100	8,100,000			
Kazakhstan				5	3	2,610			
Korea, Republic of				2,500	1,660	1,080,000			
Mexico	2,400	1,570	1,280,000	11,600	7,710	5,870,000			
Norway	4,990	3,330	2,740,000	17,700	10,600	10,600,000			
Romania	767	767	349,000	19,100	13,800	9,120,000			
Russia				2,330	1,510	1,120,000			
South Africa	19,700	13,100	10,300,000	97,200	65,100	45,400,000			
Spain				5,800	3,770	3,310,000			
United Kingdom	10	6	3,340	10	6	3,340			
Total	39,200	27,900	19,700,000	220,000	150,000	105,000,000			
Total, general imports	39,200	27,900	19,700,000	220,000	150,000	105,000,000			

(Metric tons, unless otherwise specified)

-- Zero.

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

U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2003^1

(Metric tons, unless otherwise specified)

				Year to date				
	Gross	Mn	Customs	Gross	Mn	Customs		
Source	weight	content	value	weight	content	value		
Low carbon:								
Canada				20	16	\$18,200		
China	571	467	\$504,000	4,350	3,930	4,040,000		
Italy				356	276	168,000		
Japan				5,840	4,720	4,190,000		
Korea, Republic of				40	38	40,200		
Mexico				4,140	3,260	3,560,000		
Norway				2,130	1,730	1,300,000		
South Africa	180	167	201,000	3,500	3,250	4,140,000		
Spain				72	58	58,900		
Taiwan	75	66	81,000	75	66	81,000		
Total, low carbon	826	700	786,000	20,500	17,300	17,600,000		
Total, general imports								
of low carbon	826	700	786,000	20,500	17,300	17,600,000		
Medium carbon, 1%-2% C:								
China				7,410	5,970	4,850,000		
Korea, Republic of				2,500	2,030	1,530,000		
Mexico	19	15	16,800	9,640	7,510	6,900,000		
Norway				2,720	2,180	1,460,000		
South Africa	1,920	1,560	1,240,000	18,900	15,400	12,900,000		
Total, m.c., 1%-2% C	1,940	1,580	1,260,000	41,200	33,100	27,700,000		
Total, general imports								
of m.c., 1%-2% C	1,940	1,580	1,260,000	41,200	33,100	27,700,000		
Medium carbon, 2%-4% C:								
Mexico				22	21	11,400		
South Africa				19	15	8,050		
Total, m.c., 2%-4% C				41	36	19,400		
Total, general imports								
of m.c., 2%-4% C				41	36	19,400		
High carbon:								
Australia	917	697	420,000	6,850	5,300	2,750,000		
Brazil	6,510	5,090	2,310,000	18,200	14,300	6,620,000		
Canada				98	74	65,300		
France				27,800	21,800	10,700,000		
Mexico				22	22	10,300		
Saudi Arabia				39	30	16,200		
South Africa	7,990	6,170	3,060,000	80,300	62,200	30,900,000		
Total, high carbon	15,400	12,000	5,790,000	133,000	104,000	51,100,000		
Total, general imports								
of high carbon	15,400	12,000	5,790,000	133,000	104,000	51,100,000		
Grand total	18,200	14,200	7,830,000	195,000	154,000	96,400,000		
Grand total, general imports	18,200	14,200	7,830,000	195,000	154,000	96,400,000		

-- Zero.

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

U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN OCTOBER 2003 $^{\rm 1.2,\,3}$

	20% - 4	7% Mn	47% or 1	more Mn	Total		
	Gross	Mn	Gross	Mn	Gross	Mn	
Source	weight	content	weight	content	weight	content	
Belgium			18	13	18	13	
Brazil	17	7			17	7	
Gabon			37,400	18,500	37,400	18,500	
Mexico	1,400	528			1,400	528	
Total	1,420	535	37,400	18,500	38,800	19,000	
Year to date:4							
Australia			24,500	12,900	24,500	12,900	
Belgium			163	115	163	115	
Brazil	17	7			17	7	
China	181	82	75	67	256	149	
Gabon			239,000	123,000	239,000	123,000	
Mexico	3,940 .	1,500	39	29	3,980	1,530	
Morocco ⁵			20	11	20	11	
South Africa	13,200	5,410	65,700	31,500	78,900	36,900	
Total	17,400	7,000	330,000	168,000	347,000	175,000	

(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.

⁵Includes U.S. Geological Survey's conversion of part of the reported data from MnO₂ content to Mn content.

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN OCTOBER 2003¹

		Mangane	se dioxide			Manganese metal			
			Year	to date	Unw	rought	0	ther	
		Customs		Customs					
Source	Quantity	value	Quantity	value	Quantity	Year to date	Quantity	Year to date	
Australia	3,160	\$3,870,000	24,800	\$30,800,000					
Belgium	36	65,000	378	681,000				1	
Brazil	103	41,300	108	50,000				3	
Canada			(2)	3,300				1	
China			146	143,000		699	79	742	
France							5	36	
Germany	8	44,600	64	314,000		67	2	11	
Greece			857	1,020,000					
India			4	6,980					
Ireland	351	463,000	6,320	7,860,000					
Japan	206	277,000	1,750	2,220,000				17	
Korea, Republic of			27	32,100				20	
Mexico								13	
Netherlands								10	
Norway						25			
South Africa	1,120	1,440,000	7,230	9,280,000		904		20	
Spain							72	432	
United Kingdom			102	144,000					
Total	4,990	6,200,000	41,800	52,500,000		1,700	158	1,310	
Total, general imports	4,990	6,200,000	41,800	52,500,000		1,700	158	1,310	

(Metric tons, unless otherwise specified)

-- 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 34 tons, all of which was from Canada, to give a year-to-date total of 1,330 tons.

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)

			Ferrom	anganese,					
	Manganese ore		2% o	r less C	Silicom	anganese	Manganese metal ²		
	October	Year to date	October	Year to date	October	Year to date	October	Year to date	
Australia	15	170				10			
Belgium						1	36	359	
Brazil	15	131				11	6	26	
Canada	299	2,030	1,330	7,720		229	91	473	
China			3	3			1	2	
Colombia				3					
France		8,890			5	5		7	
Germany	19	1,100						41	
Guatemala		99							
Hong Kong		169						(3)	
Hungary		19							
India		40							
Indonesia		22				7			
Italy	74	1,010						29	
Jamaica		7							
Japan				19			88	705	
Korea, Republic of	8	8						5	
Mexico				19		191	22	185	
Netherlands		173				4			
Norway		555							
Peru								2	
Poland	24	819							
Portugal		77						3	
Spain					11	11			
Sweden	101	308					32	164	
Switzerland		54							
Taiwan		7							
Thailand								5	
Trinidad and Tobago						82			
Turkey		109							
United Kingdom		609						(3)	
Venezuela	17	17		1,260					
Total	572	16,400	1,330	9,020	16	551	276	2,010	

⁻⁻ 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 55 tons, all of which went to Canada, to give a year-to-date total of 407 tons.

TABLE 7 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2003, BY CLASt¹

				Year to date ²				
			Principal sources			Principal sources		
			and destinations:			and destinations:		
	Gross weight	Value ³	gross weight (metric tons);	Gross weight	Value ³	gross weight (metric tons);		
Class	(metric tons)	(thousands)	value ³ (thousands)	(metric tons)	(thousands)	value ³ (thousands)		
mports for consumption:								
Manganese oxides other than dioxide	107	\$147	Mexico 61; \$24	1,700	\$1,670	Mexico 824; \$279		
Sulfates, basket category,								
including manganese sulfate	6,770	2,310	China 4,920; \$1,210	39,200	17,400	China 20,500; \$6,040		
Potassium permanganate	163	313	Czech Republic 91; \$173	1,250	2,450	Czech Republic 739; \$1,440		
Manganites, manganates, and								
other permanganates	97	218	China 37; \$66	317	697	China 193; \$328		
Exports:								
Manganese dioxide	403	308	Canada 263; \$110	3,520	3,750	Canada 1,780; \$683		
Manganese oxides other than dioxide	540	536	Canada 355; \$148	3,860	4,160	Canada 2,370; \$944		
Sulfates, basket category,								
including manganese sulfate	2,430	755	Canada 2,250; \$516	17,100	8,530	Canada 13,900; \$3,920		
Potassium permanganate	408	564	Spain 234; \$365	2,020	3,010	Spain 1,070; \$1,780		
Manganites, manganates, and								
other permanganates	34	172	Hong Kong 19; \$94	339	1,550	Japan 181; \$857		

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.