

Mineral Industry Surveys

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MANGANESE IN MARCH 2023

On a gross-weight basis, U.S. imports of manganese ore in March 2023 decreased by 23% to 1,060 metric tons (t) from 1,360 t in February 2023 (fig. 1, table 5). In March 2023, South Africa was the sole source of manganese ore >20% – <47% grade and >47% grade. Total imports of manganese ore for the first three months of 2023 were 69% less than that during the same period in 2022.

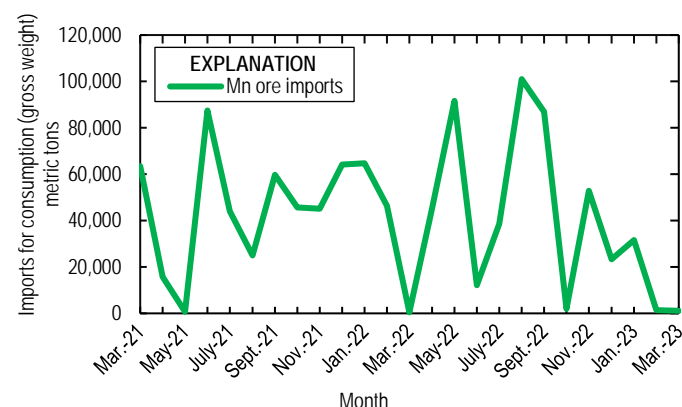


Figure 1. Monthly imports of manganese (Mn) ore from March 2021 through March 2023. Source: U.S. Census Bureau.

Prices

In March 2023, the average spot prices for manganese ore deliveries to China were \$4.63 per metric ton unit, 36%–38% grade, and \$5.78 per metric ton unit, 44% grade, slightly more and essentially unchanged, respectively, compared to the

February 2023 prices (fig. 2, table 1). Compared with the monthly average prices in March 2022, the 36%–38% grade price was 11% less and the 44% grade price was 16% less.

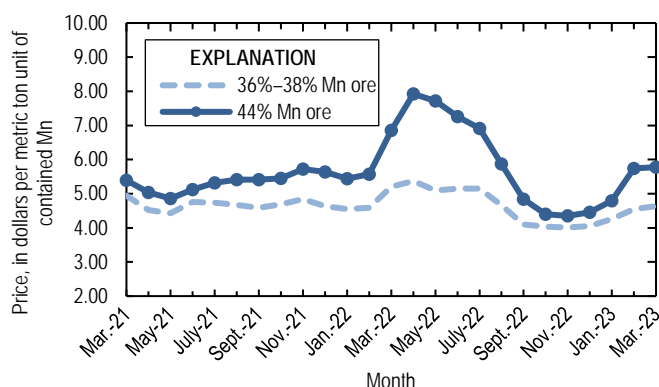


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from March 2021 through March 2023. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN MARCH 2023

		Low	Average	High
Manganese ferroalloys: ¹				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,400.00	1,450.00	1,500.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	137.80	139.80	141.80
Silicomanganese, 65% manganese	do.	71.00	74.00	77.00
Manganese metal, 99.7% manganese flake ²	cents per pound	180.00	203.61	225.00
Manganese ore: ^{3,4}				
36%–38% manganese	dollars per metric ton unit contained manganese	4.60	4.63	4.65
44% manganese	do.	5.65	5.78	6.30

do. Ditto.

¹S&P Global Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²CRU Group United States transaction prices, electrolytic manganese metal flake, 99.7% manganese, ex-works. Average prices are the average of the month high and low range.

³CRU Group, cost, insurance, and freight, China. Average prices are the average of the month high and low range.

⁴To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 44 when the manganese content is 44%.

TABLE 2
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons)

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2022:						
March	793	41,700	42,500	19	1,090	1,110
January–March	113,000	184,000	297,000	145	1,680	1,830
2023:						
January	31,700	85,100	117,000	28	551	579
February	1,500	23,800	25,300	--	824	824
March	1,120	64,500	65,700	109	1,240	1,350
January–March	34,300	173,000	208,000	137	2,610	2,750

-- Zero.

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 SILICOMANGANESE IN MARCH 2023^{1, 2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–March ³		
				Gross weight	Mn content	Value
Australia	6,510	4,290	\$8,300,000	15,600	10,300	\$25,500,000
China	--	--	--	21	13	30,900
Georgia	175	126	228,000	673	479	880,000
India	--	--	--	550	325	911,000
Malaysia	1,080	742	1,530,000	6,820	4,560	11,000,000
Mexico	6,270	4,020	7,140,000	13,000	8,370	15,600,000
Norway	1,560	1,040	1,880,000	1,680	1,110	2,350,000
South Africa	23,400	15,200	25,700,000	41,600	27,000	45,700,000
Vietnam	50	33	56,000	50	33	56,000
Total	39,100	25,500	44,900,000	80,000	52,100	102,000,000

-- Zero.

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

²Includes Harmonized Tariff Schedule of the United States code 7202.30.0000.

³May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MARCH 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–March ²		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		--	--	--	13	11	\$50,200
Japan		120	97	\$236,000	240	194	526,000
Korea, Republic of		1,090	936	2,520,000	1,090	936	2,520,000
Mexico		1,010	817	1,800,000	1,920	1,560	3,490,000
Norway		375	306	841,000	5,140	4,180	10,700,000
South Africa		90	73	383,000	1,520	1,290	4,030,000
Turkey		--	--	--	1	1	3,620
Vietnam		--	--	--	80	75	187,000
Total		2,690	2,230	5,780,000	10,000	8,240	21,500,000
Medium carbon, 1%–2% C:	7202.19.5000						
India		--	--	--	300	240	668,000
Korea, Republic of		5,000	4,000	8,570,000	5,000	4,000	8,570,000
Malaysia		--	--	--	2,000	1,460	2,730,000
Mexico		331	252	691,000	616	472	1,410,000
Norway		1,930	1,570	3,370,000	6,830	5,550	11,300,000
South Africa		650	520	1,480,000	3,900	3,100	10,300,000
Total		7,910	6,340	14,100,000	18,600	14,800	35,000,000
Medium carbon, 2%–4% C, China:	7202.11.1000	--	--	--	27	21	27,700
High carbon, over 4% C:	7202.11.5000						
Australia		11,700	8,970	12,200,000	16,900	13,000	17,700,000
Brazil		--	--	--	83	61	149,000
Canada		36	27	93,700	36	27	93,700
India		1,190	889	1,320,000	11,200	8,450	12,200,000
Malaysia		54	40	64,800	14,400	10,800	24,500,000
South Africa		558	427	584,000	5,100	3,880	9,680,000
Total		13,600	10,400	14,200,000	47,700	36,200	64,300,000
Grand total		24,200	18,900	34,100,000	76,400	59,300	121,000,000

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn)
IN MARCH 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–March ²		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		--	--	--	2,720	1,010	\$522,000
South Africa		255	119	\$75,100	1,060	496	316,000
Total		255	119	75,100	3,780	1,510	839,000
47% or more manganese:	2602.00.0060						
Brazil		--	--	--	108	52	187,000
Gabon		--	--	--	28,500	18,800	6,020,000
South Africa		800	400	179,000	1,600	800	380,000
Total		800	400	179,000	30,200	19,600	6,590,000
Grand total		1,060	519	254,000	34,000	21,200	7,430,000

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE
IN MARCH 2023^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–March ³	
			Gross weight	Value
Belgium	--	--	14	\$24,000
Brazil	11	18,000	85	114,000
Colombia	--	--	18	41,100
Germany	3	19,600	3	19,600
Indonesia	--	--	18	45,500
Japan	37	91,100	92	228,000
Mexico	13	22,200	13	22,200
Spain	--	--	58	98,400
Total	64	151,000	302	593,000

-- Zero.

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

²Includes Harmonized Tariff Schedule of the United States code 2820.10.0000.

³May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL
IN MARCH 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–March ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		64	\$158,000	3,270	\$7,660,000
Indonesia		--	--	300	684,000
Japan		(4)	479,000	10	1,810,000
Mexico		7	45,400	32	196,000
South Africa		138	691,000	578	2,800,000
Total		210	1,370,000	4,190	13,200,000
Unwrought powder:	8111.00.4910				
China		--	--	20	50,000
South Africa		81	409,000	337	1,890,000
Total		81	409,000	357	1,940,000
Unwrought, other:	8111.00.4990				
Canada		(4)	2,050	40	135,000
China		1,020	2,320,000	11,800	27,400,000
Germany		8	32,700	139	328,000
Indonesia		--	--	27	57,100
South Africa		--	--	342	1,580,000
Total		1,020	2,360,000	12,300	29,500,000
Other manganese, wrought:	8111.00.6000				
China		--	--	(4)	14,200
Japan		1	25,500	1	25,500
Mexico		(4)	79,000	8	178,000
Sweden		13	247,000	30	545,000
Total		15	352,000	39	763,000
Metallic waste and scrap, Canada	8111.00.3000	5	18,300	14	49,300
Grand total		1,340	4,510,000	16,900	45,400,000

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OR LOCALITY OF DESTINATION
IN MARCH 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	Schedule B code	Gross weight	Value	January–March ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Guyana		--	--	4	\$23,500
Ireland		--	--	2	9,900
Korea, Republic of		101	57,400	123	188,000
Sweden		7	3,500	7	3,500
Total		109	60,900	137	225,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Canada		230	420,000	390	912,000
United Kingdom		--	--	4	7,270
Total		230	420,000	394	919,000
More than 2% carbon:	7202.11.0000				
Canada		16	72,000	134	378,000
Guyana		11	31,600	11	31,600
Mexico		--	--	2	8,720
Total		28	104,000	148	418,000
Ferrosilicon manganese:	7202.30.0000				
Canada		709	1,000,000	1,240	1,860,000
Mexico		18	25,000	18	25,000
Total		727	1,030,000	1,250	1,880,000
Metal, including alloys and waste and scrap: ^{3,4}	8111.00.0000				
Brazil		38	14,200	38	14,200
Canada		--	--	29	205,000
China		16	416,000	34	916,000
Costa Rica		(5)	9,440	28	28,900
France		1	29,800	7	122,000
Hong Kong		19	64,700	20	102,000
India		20	9,170	71	71,700
Japan		2	59,100	27	356,000
Malaysia		174	162,000	650	494,000
Mexico		10	222,000	52	385,000
Other [8 countries and (or) localities]		1	44,000	9	205,000
Total		282	1,030,000	967	2,900,000
Grand total		1,380	2,640,000	2,900	6,350,000

-- Zero.

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

²May include revisions to previously published data.

³Presentation of monthly data is based on the January–March quantities (gross weight) of the leading countries.

⁴Includes manganese-aluminum, other alloys, and waste and scrap.

⁵Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN MARCH 2023¹

Compound	HTS ³ or Schedule B code ⁴	Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)	January–March ²		
					Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)
Imports for consumption:							
Manganese dioxide	2820.10.0000	64	\$151	Japan 37; \$91.	302	\$593	Japan 92; \$228.
Manganese oxides other than dioxide	2820.90.0000	1,590	1,260	South Africa 600; \$306.	4,270	2,890	South Africa 1,330; \$505.
Manganites, manganates, and other permanganates	2841.69.0090	(5)	9	China (all).	(5)	9	China (all).
Potassium permanganate	2841.61.0000	177	569	India (all).	194	597	India 177; \$569.
Sodium permanganate	2841.69.0010	389	1,060	China 283; \$779.	563	1,530	China 283; \$779.
Other sulfates, including manganese sulfate	2833.29.5100	3,720	3,220	Mexico 1,590; \$1,530.	11,000	11,400	Mexico 5,340; \$5,040.
Exports:							
Manganese dioxide	2820.10.0000	382	538	Canada 275; \$201.	1,470	1,860	Canada 1,040; \$809.
Manganese oxides other than dioxide	2820.90.0000	712	1,460	United Arab Emirates 380; \$543.	1,560	3,430	United Arab Emirates 570; \$815.
Manganites, manganates, and other permanganates	2841.69.0090	26	50	Canada (all).	29	135	Canada 28; \$53.
Potassium permanganate	2841.61.0000	24	111	Mexico 12; \$58.	169	687	Belgium 55; \$174.
Sodium permanganate	2841.69.0010	2	37	El Salvador 1; \$9.	3	84	El Salvador 1; \$9.
Other sulfates, including manganese sulfate	2833.29.9100	2,700	3,030	Canada 2,030; \$1,390.	5,150	7,980	Canada 3,600; \$3,110.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

⁴Imports for consumption are represented by HTS codes. Exports are represented by Schedule B codes.

⁵Less than ½ unit.

Source: U.S. Census Bureau.