

Mineral Industry Surveys

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MANGANESE IN APRIL 2023

On a gross-weight basis, U.S. imports of manganese ore in April 2023 increased substantially to 26,200 metric tons (t) from 1,060 t in March 2023 (fig. 1, table 5). In April 2023, the sole source of manganese ore, >20% – <47% grade, was South Africa and the leading source of >47% grade was Gabon. Total imports of manganese ore for the first four months of 2023 were 62% less than that during the same period in 2022.

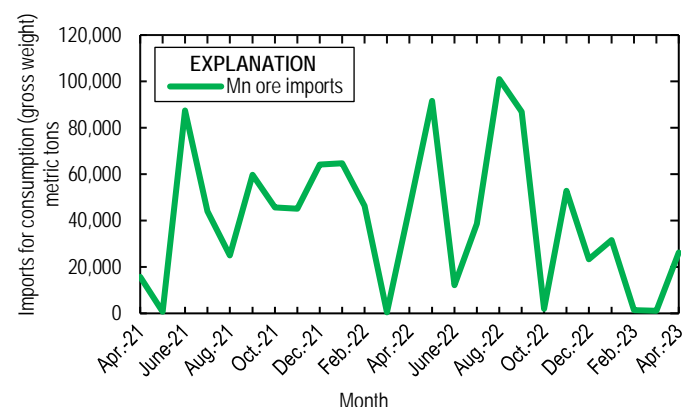


Figure 1. Monthly imports of manganese (Mn) ore from April 2021 through April 2023. Source: U.S. Census Bureau.

Prices

In April 2023, the average spot prices for manganese ore deliveries to China were \$4.25 per metric ton unit, 36%–38% grade, and \$5.31 per metric ton unit, 44% grade, both 8% less compared to the March 2023 prices (fig. 2, table 1). Compared

with the monthly average prices in April 2022, the 36%–38% grade price was 21% less and the 44% grade price was 33% less.

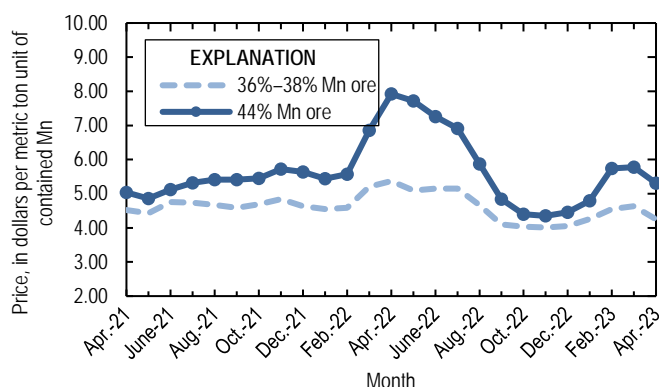


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from April 2021 through April 2023. Source: CRU Group.

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

		Low	Average	High
<u>Manganese ferroalloys:¹</u>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,400.00	1,425.00	1,450.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	121.50	123.00	124.50
Silicomanganese, 65% manganese	do.	65.00	67.50	70.00
Manganese metal, 99.7% manganese flake ²	cents per pound	130.00	165.31	190.00
<u>Manganese ore:^{3, 4}</u>				
36%–38% manganese	dollars per metric ton unit contained manganese	4.15	4.25	4.65
44% manganese	do.	5.15	5.31	5.75

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:						
April	45,300	106,000	152,000	136	722	858
January–April	159,000	290,000	449,000	281	2,410	2,690
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
April	26,300	45,400	71,700	300	424	724
January–April	60,600	219,000	279,000	436	3,040	3,470

-- 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 APRIL 2023^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–April ³		
				Gross weight	Mn content	Value
Australia	7,680	3,690	\$9,400,000	23,300	14,000	\$34,900,000
China	--	--	--	21	13	30,900
Georgia	350	253	437,000	1,020	732	1,320,000
India	100	29	149,000	650	354	1,060,000
Malaysia	654	450	864,000	7,480	5,010	11,900,000
Mexico	2,970	1,910	3,310,000	16,000	10,300	18,900,000
Norway	2,060	1,290	3,490,000	3,740	2,400	5,840,000
South Africa	--	--	--	41,600	27,000	45,700,000
Vietnam	--	--	--	50	33	56,000
Total	13,800	7,620	17,600,000	93,800	59,800	120,000,000

-- 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 APRIL 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–April ²		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		--	--	--	13	11	\$50,200
Japan		120	104	\$230,000	360	298	756,000
Korea, Republic of		252	227	675,000	1,350	1,160	3,190,000
Mexico		370	299	660,000	2,290	1,860	4,150,000
Norway		4,520	3,630	7,880,000	9,660	7,810	18,600,000
South Africa		23	18	78,700	1,550	1,310	4,110,000
Turkey		--	--	--	1	1	3,620
Vietnam		--	--	--	80	75	187,000
Total		5,280	4,280	9,520,000	15,300	12,500	31,000,000
Medium carbon, 1%–2% C:	7202.19.5000						
India		--	--	--	300	240	668,000
Korea, Republic of		--	--	--	5,000	4,000	8,570,000
Malaysia		--	--	--	2,000	1,460	2,730,000
Mexico		163	124	376,000	778	596	1,780,000
Norway		3,750	3,050	5,750,000	10,600	8,610	17,100,000
South Africa		1,300	1,040	2,960,000	5,200	4,140	13,200,000
Total		5,210	4,220	9,080,000	23,900	19,000	44,100,000
Medium carbon, 2%–4% C, China:	7202.11.1000	--	--	--	27	21	27,700
High carbon, over 4% C:	7202.11.5000						
Australia		200	153	200,000	17,100	13,100	17,900,000
Brazil		50	37	54,800	133	99	204,000
Canada		--	--	--	36	27	93,700
India		1,240	620	1,230,000	12,500	9,070	13,500,000
Malaysia		10,500	7,940	16,100,000	24,800	18,800	40,600,000
South Africa		42	32	41,300	5,150	3,910	9,720,000
Spain		20	15	95,000	20	15	95,000
Turkey		3	2	2,500	3	2	2,500
Total		12,000	8,800	17,800,000	59,700	45,000	82,100,000
Grand total		22,500	17,300	36,400,000	98,900	76,600	157,000,000

-- 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 APRIL 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–April 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		150	70	\$46,700	1,210	566	363,000
Total		150	70	46,700	3,930	1,580	885,000
47% or more manganese:	2602.00.0060						
Brazil		--	--	--	108	52	187,000
Gabon		25,900	20,400	5,490,000	54,400	39,200	11,500,000
Mexico		200	129	165,000	200	129	165,000
South Africa		--	--	--	1,600	800	380,000
Total		26,100	20,600	5,650,000	56,300	40,200	12,200,000
Grand total		26,200	20,600	5,700,000	60,200	41,800	13,100,000

-- 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 APRIL 2023^{1, 2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–April ³	
			Gross weight	Value
Belgium	69	\$118,000	83	\$142,000
Brazil	--	--	85	114,000
Colombia	--	--	18	41,100
Germany	--	--	3	19,600
India	14	24,500	14	24,500
Indonesia	--	--	18	45,500
Japan	37	91,100	129	319,000
Mexico	--	--	13	22,200
Spain	--	--	58	98,400
Total	121	233,000	422	826,000

-- 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 APRIL 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–April ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		2,310	\$5,290,000	5,580	\$13,000,000
Indonesia		--	--	300	684,000
Japan		12	1,260,000	22	3,070,000
Mexico		4	25,300	36	222,000
South Africa		285	1,220,000	863	4,020,000
Total		2,610	7,800,000	6,800	21,000,000
Unwrought powder:	8111.00.4910				
China		20	37,000	40	87,000
South Africa		60	317,000	397	2,200,000
Total		80	354,000	437	2,290,000
Unwrought, other:	8111.00.4990				
Canada		--	--	40	135,000
China		6,280	14,800,000	18,100	42,100,000
Germany		--	--	139	328,000
Indonesia		--	--	27	57,100
South Africa		41	274,000	382	1,850,000
Total		6,320	15,000,000	18,700	44,500,000
Other manganese, wrought:	8111.00.6000				
China		1	5,080	1	19,300
India		(4)	13,300	(4)	13,300
Japan		--	--	1	25,500
Mexico		32	186,000	40	364,000
Sweden		--	--	30	545,000
Total		34	204,000	73	967,000
Metallic waste and scrap, Canada	8111.00.3000				
Grand total		9,050	23,400,000	26,000	68,800,000

-- 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 APRIL 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	Schedule B code	Gross weight	Value	January–April ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Canada		142	\$49,800	142	\$49,800
Guyana		--	--	4	23,500
Ireland		--	--	2	9,900
Korea, Republic of		--	--	123	188,000
Mexico		157	88,600	157	88,600
Sweden		--	--	7	3,500
Total		300	138,000	436	364,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Canada		83	158,000	473	1,070,000
France		2	4,410	2	4,410
United Kingdom		--	--	4	7,270
Total		85	162,000	479	1,080,000
More than 2% carbon:	7202.11.0000				
Canada		4	12,000	139	390,000
Guyana		--	--	11	31,600
Mexico		--	--	2	8,720
Slovenia		(3)	2,720	(3)	2,720
Total		5	14,700	152	433,000
Ferrosilicon manganese:	7202.30.0000				
Canada		--	--	1,240	1,860,000
Mexico		--	--	18	25,000
Total		--	--	1,250	1,880,000
Metal, including alloys and waste and scrap: ^{4,5}	8111.00.0000				
Brazil		--	--	38	14,200
Canada		--	--	29	205,000
China		1	37,500	35	954,000
Costa Rica		27	10,000	55	38,900
France		1	26,700	8	149,000
Hong Kong		--	--	20	102,000
India		36	10,900	108	82,600
Japan		35	29,000	62	385,000
Malaysia		235	124,000	886	617,000
Mexico		2	24,100	54	409,000
Other [8 countries and (or) localities]		2	58,100	11	263,000
Total		339	320,000	1,310	3,220,000
Grand total		728	635,000	3,630	6,980,000

-- Zero.

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

²May include revisions to previously published data.

³Less than ½ unit.

⁴Presentation of monthly data is based on the January–April quantities (gross weight) of the leading countries.

⁵Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN APRIL 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–April 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	121	\$233	Belgium 69; \$118.	422	\$826	Japan 129; \$319.
Manganese oxides other than dioxide	2820.90.0000	1,600	1,070	South Africa 590; \$227.	5,860	3,960	South Africa 1,920; \$732.
Manganites, manganates, and other permanganates	2841.69.0090	--	--	XX.	(5)	9	China (all).
Potassium permanganate	2841.61.0000	889	2,830	India 854; \$2,760.	1,080	3,420	India 1,030; \$3,330.
Sodium permanganate	2841.69.0010	1,290	3,490	China 943; \$2,450.	1,850	5,020	China 1,230; \$3,230.
Other sulfates, including manganese sulfate	2833.29.5100	3,730	4,250	Mexico 1,740; \$1,710.	14,700	15,600	Mexico 7,090; \$6,750.
Exports:							
Manganese dioxide	2820.10.0000	886	1,020	Canada 486; \$414.	2,360	2,870	Canada 1,520; \$1,220.
Manganese oxides other than dioxide	2820.90.0000	530	1,200	Canada 190; \$229.	2,090	4,630	United Arab Emirates 627; \$897.
Manganites, manganates, and other permanganates	2841.69.0090	14	45	Mexico (all).	43	179	Canada 28; \$53.
Potassium permanganate	2841.61.0000	44	238	Mexico 24; \$129.	212	926	Belgium 55; \$174.
Sodium permanganate	2841.69.0010	(5)	9	Vietnam (all).	3	93	El Salvador 1; \$9.
Other sulfates, including manganese sulfate	2833.29.9100	1,980	3,350	Canada 1,450; \$1,230.	7,130	11,300	Canada 5,050; \$4,340.

XX Not applicable. -- Zero.

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.