

Mineral Industry Surveys

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MANGANESE IN JANUARY 2023

On a gross-weight basis, U.S. imports of manganese ore in January 2023 increased by 36% to 31,600 metric tons (t) from 23,300 t in December 2022 (fig. 1, table 5). In January 2023, the leading source of manganese ore, >20% – <47% grade, was Mexico and the leading source for >47% grade was Gabon. Total imports of manganese ore during the first month of 2023 were 51% less than that during the same period in 2022.

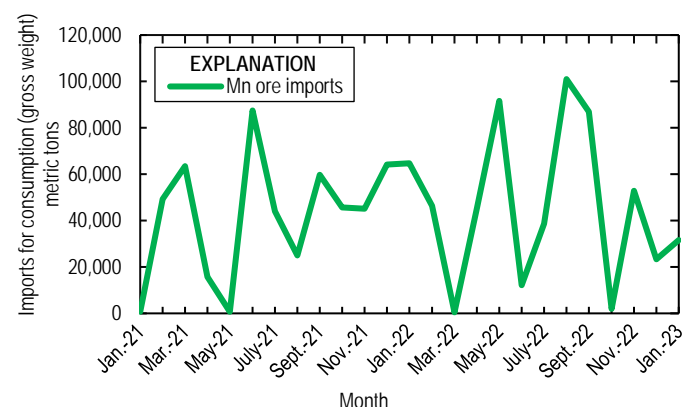


Figure 1. Monthly imports of manganese (Mn) ore from January 2021 through January 2023. Source: U.S. Census Bureau.

Prices

In January 2023, the average spot prices for manganese ore deliveries to China were \$4.26 per metric ton unit, 36%–38% grade, and \$4.79 per metric ton unit, 44% grade, 5% more and 7% more, respectively, than the December 2022 prices (fig. 2,

table 1). Compared with the monthly average prices in January 2022, the 36%–38%-grade price was 6% less and the 44%-grade price was 12% less.

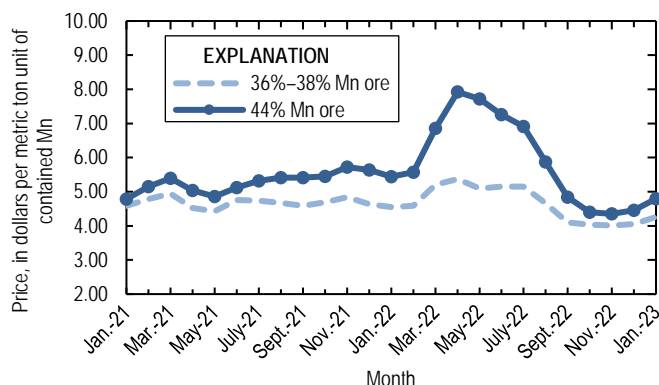


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from January 2021 through January 2023. Source: CRU Group.

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

		Low	Average	High
<u>Manganese ferroalloys:¹</u>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,375.00	1,425.00	1,475.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	142.00	144.00	146.00
Silicomanganese, 65% manganese	do.	75.00	77.50	80.00
Manganese metal, 99.7% manganese flake ²	cents per pound	200.00	214.17	240.00
<u>Manganese ore:^{3, 4}</u>				
36%–38% manganese	dollars per metric ton unit contained manganese	4.00	4.26	4.36
44% manganese	do.	4.35	4.79	4.95

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, January	66,059	48,206	114,265	41	190	231
2023, January	31,673	85,067	116,740	28	551	579

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 JANUARY 2023^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value
Australia	9,116	5,993	\$17,173,959
China	21	13	30,922
Georgia	350	253	434,227
India	550	325	911,149
Malaysia	4,760	3,143	7,875,055
Mexico	3,416	2,195	4,324,584
Norway	68	43	281,686
South Africa	18,180	11,768	19,998,440
Total	36,461	23,732	51,030,022

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.

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ² code	Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000			
Canada		13	11	\$50,187
Japan		80	65	193,228
Mexico		256	206	515,555
Norway		341	274	865,659
South Africa		365	314	890,809
Turkey		1	1	3,623
Vietnam		40	38	93,600
Total		1,096	907	2,612,661
Medium carbon, 1%–2% C:	7202.19.5000			
India		300	240	667,500
Malaysia		1,999	1,459	2,725,857
Mexico		170	130	404,297
Norway		401	326	722,974
South Africa		3,250	2,577	8,778,488
Total		6,120	4,732	13,299,116
Medium carbon, 2%–4% C, China	7202.11.1000	27	21	27,744
High carbon, over 4% C:	7202.11.5000			
Australia		5,210	3,985	5,497,667
Brazil		16	12	43,458
India		9,742	7,336	10,473,899
Malaysia		14,297	10,801	24,430,102
South Africa		3,896	2,953	7,958,698
Total		33,161	25,087	48,403,824
Grand total		40,403	30,748	64,343,345

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

²Harmonized 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 JANUARY 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ² code	Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040			
Mexico		2,719	1,012	\$522,109
South Africa		300	140	86,600
Total		3,019	1,152	608,709
47% or more manganese:	2602.00.0060			
Brazil		54	26	93,420
Gabon		28,499	18,797	6,024,776
Total		28,553	18,823	6,118,196
Grand total		31,572	19,975	6,726,905

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

²Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value
Brazil	53	\$60,273
Japan	18	45,540
Spain	29	48,614
Total	100	154,427

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.

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ² code	Gross weight	Value
Unwrought flake:	8111.00.4700		
China		2,193	\$5,323,460
Indonesia		300	684,000
Japan		1	680,975
South Africa		261	1,250,565
Total		2,755	7,939,000
Unwrought powder, South Africa	8111.00.4910	81	524,554
Unwrought, other:	8111.00.4990		
Canada		40	132,560
China		5,079	11,918,199
Germany		103	234,253
Indonesia		27	57,074
South Africa		102	680,806
Total		5,351	13,022,892
Other manganese, wrought:	8111.00.6000		
Mexico		4	21,410
Sweden		4	64,427
Total		8	85,837
Metallic waste and scrap, Canada	8111.00.3000	9	30,920
Grand total		8,204	21,603,203

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

²Harmonized Tariff Schedule of the United States.

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 JANUARY 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	Schedule B code	Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000		
Guyana		4	\$23,478
Ireland		2	9,900
Korea, Republic of		22	130,823
Total		28	164,201
Ferromanganese:	7202.19.0000		
2% or less carbon, Canada		102	336,732
More than 2% carbon, Canada	7202.11.0000	99	252,146
Ferrosilicon manganese, Canada	7202.30.0000	238	397,166
Metal, including alloys and waste and scrap: ²	8111.00.0000		
China		8	237,550
Costa Rica		(3)	9,483
France		1	44,501
Hong Kong		1	37,331
Japan		24	265,255
Korea, Republic of		(3)	14,952
Malaysia		140	95,628
Mexico		37	124,590
Total		212	829,290
Grand total		679	1,979,535

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

²Includes manganese-aluminum, other alloys, and waste and scrap.

³Less than ½ unit.

Source: U.S. Census Bureau.

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

Compound	HTS ² or Schedule B code ³	Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)
Imports for consumption:				
Manganese dioxide	2820.10.0000	100	\$154	Brazil 53; \$60.
Manganese oxides other than dioxide	2820.90.0000	1,188	645	Korea, Republic of 492; \$278.
Potassium permanganate	2841.61.0000	17	28	Malaysia (all).
Sodium permanganate	2841.69.0010	44	114	India (all).
Other sulfates, including manganese sulfate	2833.29.5100	3,224	3,547	Mexico 1,808; \$1,787.
Exports:				
Manganese dioxide	2820.10.0000	530	611	Canada 371; \$303.
Manganese oxides other than dioxide	2820.90.0000	501	1,050	United Arab Emirates 190; \$272.
Manganites, manganates, and other permanganates	2841.69.0090	2	47	Canada 2; \$3.
Potassium permanganate	2841.61.0000	115	418	Belgium 55; \$171.
Sodium permanganate	2841.69.0010	(4)	30	Korea, Republic of (4); \$3.
Other sulfates, including manganese sulfate	2833.29.9100	1,170	2,800	Canada 731; \$865.

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

²Harmonized Tariff Schedule of the United States.

³Imports for consumption are represented by HTS codes. Exports are represented by Schedule B codes.

⁴Less than ½ unit.

Source: U.S. Census Bureau.