

Mineral Industry Surveys

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MANGANESE IN JULY 2023

On a gross-weight basis, U.S. imports of manganese ore in July 2023 increased to 42,100 metric tons (t) from 8,190 t in June 2023 (fig. 1, table 5). In July 2023, the leading source of manganese ore imports for >20% – <47% grade was South Africa and the leading source for >47% grade was Gabon. Total imports of manganese ore for the first seven months of 2023 were 63% less than that during the same period in 2022.

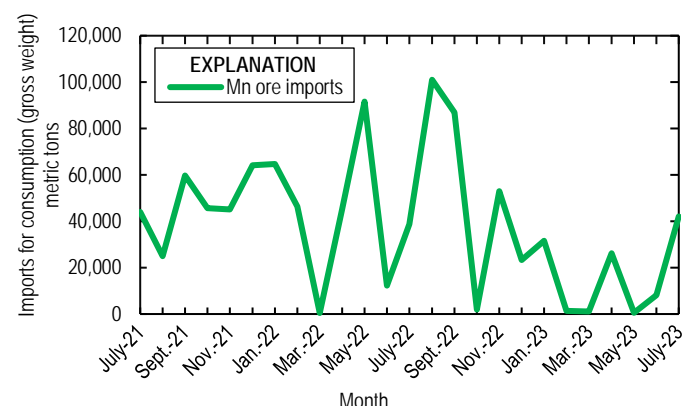


Figure 1. Monthly imports of manganese (Mn) ore from July 2021 through July 2023. Source: U.S. Census Bureau.

Prices

In July 2023, the average spot prices of manganese ore deliveries to China were \$3.72 per metric ton unit for 36%–38% grade and \$4.65 per metric ton unit for 44% grade, 3% less and slightly less, respectively, than the June 2023 prices (fig. 2, table

1). Compared with the monthly average prices in July 2022, the 36%–38% grade price was 28% less and the 44% grade price was 33% less.

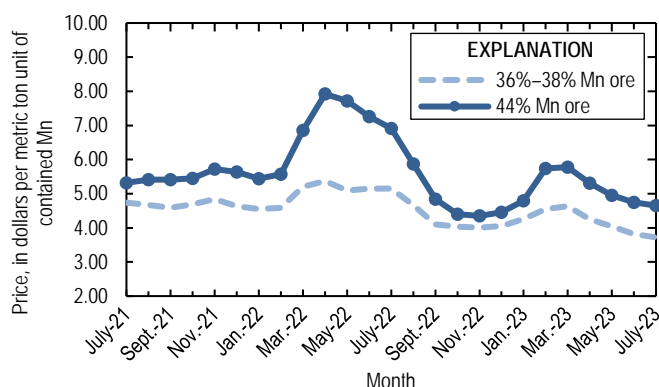


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from July 2021 through July 2023. Source: CRU Group.

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

		Low	Average	High
Manganese ferroalloys: ¹				
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	110.00	111.00	112.00
Silicomanganese, 65% manganese	do.	59.50	61.13	62.75
Manganese metal, 99.7% manganese flake ²	cents per pound	130.00	142.50	160.00
Manganese ore: ^{3,4}				
36%–38% manganese	dollars per metric ton unit contained manganese	3.60	3.72	3.80
44% manganese	do.	4.55	4.65	4.78

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:						
July	38,900 ^r	66,400 ^r	105,000 ^r	20	844	864
January–July	302,000	437,000 ^r	739,000 ^r	371	5,080	5,450
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
May	878	37,500	38,400	83	807	891
June	8,230	44,700	53,000	24	558	582
July	42,800	52,300	95,100	--	394	394
January–July	113,000	353,000	466,000	543	4,800	5,340

^rRevised. -- 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 JULY 2023^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–July ³		
				Gross weight	Mn content	Value
Australia	--	--	--	31,100	19,100	\$43,800,000
China	--	--	--	21	13	30,900
Georgia	--	--	--	1,300	923	1,670,000
India	702	421	\$1,230,000	2,050	1,200	3,520,000
Malaysia	1,320	882	1,490,000	10,900	7,320	15,900,000
Mexico	3,550	2,290	3,830,000	27,300	17,500	31,200,000
Norway	84	54	251,000	6,020	3,790	10,300,000
South Africa	9,100	5,920	10,000,000	61,100	39,700	67,200,000
Vietnam	--	--	--	50	33	56,000
Total	14,800	9,560	16,800,000	140,000	89,500	174,000,000

-- 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 JULY 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–July ²		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		--	--	--	13	11	\$50,200
Japan		160	129	\$253,000	600	491	1,150,000
Korea, Republic of		400	368	1,110,000	4,390	3,790	10,200,000
Mexico		123	98	221,000	3,700	2,990	6,620,000
Norway		2,660	2,130	4,030,000	17,400	14,100	31,500,000
South Africa		64	55	273,000	1,820	1,540	5,220,000
Spain		--	--	--	18	15	93,600
Turkey		--	--	--	1	1	3,620
Vietnam		--	--	--	80	75	187,000
Total		3,410	2,780	5,890,000	28,000	23,000	55,100,000
Medium carbon, 1%–2% C:	7202.19.5000						
China		3	2	9,310	3	2	9,310
India		--	--	--	430	344	864,000
Korea, Republic of		2,500	2,000	4,050,000	7,500	6,000	12,600,000
Malaysia		96	72	196,000	2,100	1,530	2,920,000
Mexico		69	54	148,000	1,180	904	2,600,000
Norway		1,900	1,540	2,650,000	17,200	14,000	27,100,000
South Africa		650	521	1,270,000	7,800	6,220	18,300,000
Thailand		--	--	--	130	104	469,000
Total		5,220	4,190	8,320,000	36,300	29,100	64,900,000
Medium carbon, 2%–4% C:	7202.11.1000						
China		--	--	--	27	21	27,700
India		--	--	--	108	82	106,000
Total		--	--	--	135	103	134,000
High carbon, over 4% C: ⁴	7202.11.5000						
Australia		--	--	--	19,600	15,100	20,600,000
Brazil		27	20	28,000	259	191	351,000
Georgia		--	--	--	324	235	292,000
India		1,350	852	1,360,000	16,600	11,200	17,700,000
Korea, Republic of		--	--	--	1,500	1,140	1,640,000
Malaysia		21,100	15,900	22,100,000	62,100	47,100	80,400,000
South Africa		4,580	3,570	7,590,000	11,400	8,740	19,200,000
Spain		20	15	57,500	59	44	206,000
United Arab Emirates		--	--	--	151	114	161,000
Zambia		27	21	39,400	1,130	851	1,210,000
Other [3 countries and (or) localities]		20	14	51,000	59	43	147,000
Total		27,100	20,400	31,200,000	113,000	84,700	142,000,000
Grand total		35,700	27,400	45,400,000	178,000	137,000	262,000,000

-- 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.

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

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–July ²		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Belgium		116	46	\$53,500	116	46	\$53,500
Mexico		--	--	--	2,870	1,080	601,000
South Africa		200	77	68,000	1,990	911	609,000
Total		316	123	121,000	4,980	2,040	1,260,000
47% or more manganese:	2602.00.0060						
Brazil		--	--	--	128	62	203,000
China		--	--	--	(4)	(4)	15,100
Gabon		41,600	21,500	10,900,000	104,000	64,400	23,800,000
India		--	--	--	41	19	51,500
Mexico		200	134	165,000	600	392	489,000
South Africa		--	--	--	1,600	800	380,000
Total		41,800	21,600	11,000,000	106,000	65,700	24,900,000
Grand total		42,100	21,700	11,200,000	111,000	67,800	26,200,000

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

(Metric tons, unless otherwise specified)

Country or locality ⁴	Gross weight	Value	January–July ³	
			Gross weight	Value
Belgium	--	--	83	\$142,000
Brazil	78	\$92,500	199	267,000
Colombia	169	398,000	186	439,000
Germany	9	15,800	13	35,400
Greece	297	835,000	594	1,650,000
India	--	--	14	27,100
Indonesia	--	--	18	45,500
Japan	106	219,000	282	643,000
Mexico	--	--	26	44,400
Spain	--	--	58	98,400
Other [1 country and (or) locality]	--	--	10	8,080
Total	660	1,560,000	1,480	3,400,000

-- 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.

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

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–July ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		555	\$1,240,000	7,380	\$17,000,000
Indonesia		27	59,400	989	2,100,000
Japan		(4)	43,500	40	3,160,000
Mexico		--	--	80	486,000
South Africa		418	1,810,000	1,900	8,590,000
Total		1,000	3,150,000	10,400	31,300,000
Unwrought powder:	8111.00.4910				
China		--	--	80	163,000
Mexico		1	5,440	1	5,440
South Africa		315	1,600,000	833	4,420,000
Total		316	1,610,000	914	4,590,000
Unwrought, other:	8111.00.4990				
Belgium		--	--	5	18,300
Canada		(4)	2,110	40	137,000
China		461	1,080,000	23,600	54,600,000
Germany		--	--	139	328,000
Indonesia		--	--	54	114,000
Poland		(4)	3,200	(4)	3,200
South Africa		20	107,000	461	2,170,000
Total		481	1,200,000	24,300	57,300,000
Other manganese, wrought:	8111.00.6000				
China		2	35,800	4	60,200
Germany		(4)	21,600	(4)	21,600
India		--	--	(4)	13,300
Japan		--	--	1	39,200
Mexico		2	9,980	98	602,000
Sweden		--	--	30	545,000
Total		4	67,400	134	1,280,000
Metallic waste and scrap:	8111.00.3000				
Canada		--	--	18	62,600
China		20	46,400	20	46,400
Total		20	46,400	38	109,000
Grand total		1,820	6,070,000	35,700	94,600,000

-- 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 JULY 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	Schedule B code	Gross weight	Value	January–July ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Canada		--	--	185	\$83,000
Guyana		--	--	4	23,500
Ireland		--	--	5	28,500
Korea, Republic of		--	--	164	425,000
Mexico		--	--	178	100,000
Sweden		--	--	7	3,500
Total		--	--	543	663,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Australia		--	--	1	2,670
Canada		1	\$6,560	819	1,860,000
France		--	--	7	12,400
United Kingdom		--	--	4	7,270
Total		1	6,560	831	1,880,000
More than 2% carbon:	7202.11.0000				
Australia		--	--	9	25,000
Canada		7	15,300	304	766,000
China		--	--	18	51,500
Guyana		--	--	11	31,600
Mexico		--	--	2	8,720
Poland		--	--	1	8,490
Slovenia		(3)	2,720	1	8,150
Total		8	18,000	346	899,000
Ferrosilicon manganese:	7202.30.0000				
Canada		--	--	1,470	2,210,000
Mexico		--	--	18	25,000
Total		--	--	1,490	2,240,000
Metal, including alloys and waste and scrap: ^{4, 5}	8111.00.0000				
Brazil		--	--	38	14,200
Canada		19	73,100	144	584,000
China		2	58,500	99	1,230,000
Costa Rica		--	--	82	57,800
Germany		--	--	31	74,300
Hong Kong		1	33,800	23	231,000
India		--	--	108	82,600
Japan		--	--	76	662,000
Malaysia		336	180,000	1,720	1,160,000
Mexico		33	12,100	127	579,000
Other [10 countries and (or) localities]		2	43,200	29	486,000
Total		392	400,000	2,480	5,160,000
Grand total		401	425,000	5,690	10,900,000

-- 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–July 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 JULY 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–July 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	660	\$1,560	Greece 297; \$835.	1,480	\$3,400	Greece 594; \$1,650.
Manganese oxides other than dioxide	2820.90.0000	2,350	1,570	South Africa 1,340; \$790.	12,700	8,440	South Africa 5,570; \$2,620.
Manganites, manganates, and other permanganates	2841.69.0090	(5)	6	China (all).	(5)	20	China (all).
Potassium permanganate	2841.61.0000	427	1,470	India (all).	2,920	9,600	India 2,850; \$9,470.
Sodium permanganate	2841.69.0010	753	2,100	China 396; \$990.	4,140	11,500	China 2,620; \$6,850.
Other sulfates, including manganese sulfate	2833.29.5100	4,660	4,860	China 1,910; \$1,080.	28,100	29,000	Mexico 10,500; \$10,000.
Exports:							
Manganese dioxide	2820.10.0000	1,100	696	India 602; \$250.	4,670	5,190	Canada 2,690; \$2,140.
Manganese oxides other than dioxide	2820.90.0000	233	556	Canada 40; \$39.	3,450	7,140	United Arab Emirates 1,100; \$1,580.
Manganites, manganates, and other permanganates	2841.69.0090	3	6	Canada (all).	73	245	Canada 57; \$111.
Potassium permanganate	2841.61.0000	57	258	Brazil 36; \$136.	414	1,860	Brazil 142; \$526.
Sodium permanganate	2841.69.0010	38	108	Belgium (all).	44	214	Belgium 38; \$108.
Other sulfates, including manganese sulfate	2833.29.9100	1,560	1,900	Canada 1,200; \$898.	11,900	19,300	Canada 8,660; \$7,290.

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.