

Mineral Industry Surveys

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MANGANESE IN JUNE 2023

On a gross-weight basis, U.S. imports of manganese ore in June 2023 increased to 8,190 metric tons (t) from 519 t in May 2023 (fig. 1, table 5). In June 2023, the sole source for manganese ore imports, >20% – <47% grade, was South Africa and the leading source of >47% grade was Gabon. Total imports of manganese ore for the first six months of 2023 were 74% less than that during the same period in 2022.

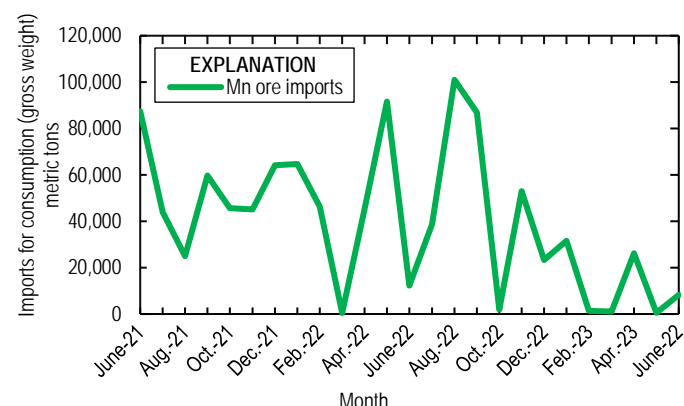


Figure 1. Monthly imports of manganese (Mn) ore from June 2021 through June 2023. Source: U.S. Census Bureau.

Prices

In June 2023, the average spot prices for manganese ore deliveries to China were \$3.82 per metric ton unit, 36%–38% grade, and \$4.75 per metric ton unit, 44% grade, 6% less and 4% less, respectively, than the May 2023 prices (fig. 2, table 1).

Compared with the monthly average prices in June 2022, the 36%–38% grade price was 26% less and the 44% grade price was 35% less.

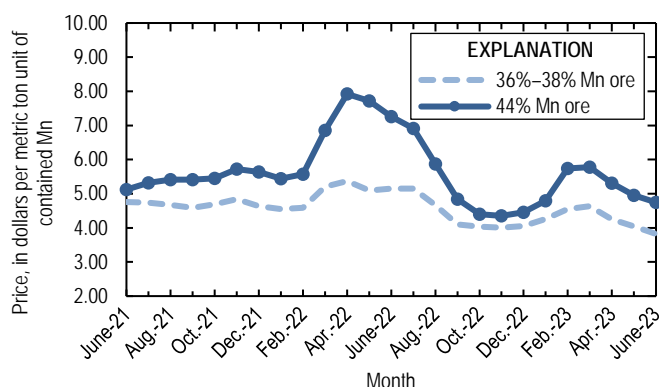


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from June 2021 through June 2023. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JUNE 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.	62.25	64.13	66.00
Manganese metal, 99.7% manganese flake ²	cents per pound	140.00	151.11	165.00
Manganese ore: ^{3,4}				
36%–38% manganese	dollars per metric ton unit contained manganese	3.75	3.82	3.85
44% manganese	do.	4.68	4.75	4.85

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:						
June	12,300	43,600	56,000	22	1,240	1,260
January–June	263,000	371,000	634,000	351	4,230	4,580
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
January–June	69,800	301,000	371,000	543	4,400	4,950

-- 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 JUNE 2023^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–June ³		
				Gross weight	Mn content	Value
Australia	7,810	5,150	\$8,930,000	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	1,350	775	2,290,000
Malaysia	1,200	790	1,290,000	9,620	6,430	14,400,000
Mexico	4,220	2,660	4,740,000	23,700	15,200	27,400,000
Norway	1,650	1,010	3,070,000	5,940	3,740	10,000,000
South Africa	--	--	--	52,000	33,700	57,200,000
Vietnam	--	--	--	50	33	56,000
Total	15,600	10,000	19,300,000	125,000	79,900	157,000,000

-- 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 JUNE 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–June ²		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		--	--	--	13	11	\$50,200
Japan		80	64	\$144,000	440	362	900,000
Korea, Republic of		2,000	1,660	4,210,000	3,990	3,420	9,140,000
Mexico		615	498	1,060,000	3,580	2,900	6,400,000
Norway		3,600	2,910	6,330,000	14,800	11,900	27,500,000
South Africa		142	115	514,000	1,760	1,480	4,940,000
Spain		18	15	93,600	18	15	93,600
Turkey		--	--	--	1	1	3,620
Vietnam		--	--	--	80	75	187,000
Total		6,460	5,260	12,400,000	24,600	20,200	49,200,000
Medium carbon, 1%–2% C:	7202.19.5000						
India		130	104	196,000	430	344	864,000
Korea, Republic of		--	--	--	5,000	4,000	8,570,000
Malaysia		--	--	--	2,000	1,460	2,730,000
Mexico		273	207	503,000	1,110	850	2,450,000
Norway		1,800	1,460	3,030,000	15,300	12,400	24,500,000
South Africa		1,950	1,560	3,810,000	7,150	5,700	17,000,000
Thailand		--	--	--	130	104	469,000
Total		4,150	3,340	7,540,000	31,100	24,900	56,600,000
Medium carbon, 2%–4% C:	7202.11.1000						
China		--	--	--	27	21	27,700
India		108	82	106,000	108	82	106,000
Total		108	82	106,000	135	103	134,000
High carbon, over 4% C: ⁴	7202.11.5000						
Australia		2,510	1,980	2,780,000	19,600	15,100	20,600,000
Brazil		99	72	119,000	232	171	323,000
Georgia		324	235	292,000	324	235	292,000
India		1,040	698	1,080,000	15,300	10,300	16,300,000
Korea, Republic of		1,500	1,140	1,640,000	1,500	1,140	1,640,000
Malaysia		8,070	6,150	8,100,000	41,100	31,200	58,300,000
South Africa		314	232	316,000	6,800	5,160	11,600,000
Spain		20	15	53,200	40	30	148,000
United Arab Emirates		--	--	--	151	114	161,000
Zambia		676	507	754,000	1,100	830	1,170,000
Other [2 countries and (or) localities]		--	--	--	39	29	96,200
Total		14,600	11,000	15,100,000	86,200	64,300	111,000,000
Grand total		25,300	19,700	35,100,000	142,000	109,000	217,000,000

-- 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–June 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 JUNE 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–June ²		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		--	--	--	2,870	1,080	\$601,000
South Africa		328	152	101,000	1,790	834	541,000
Total		328	152	101,000	4,660	1,920	1,140,000
47% or more manganese:	2602.00.0060						
Brazil		--	--	--	128	62	203,000
China		(4)	(4)	15,100	(4)	(4)	15,100
Gabon		7,720	3,770	1,400,000	62,100	43,000	12,900,000
India		41	19	51,500	41	19	51,500
Mexico		100	65	79,100	400	258	324,000
South Africa		--	--	--	1,600	800	380,000
Total		7,860	3,850	1,550,000	64,300	44,100	13,900,000
Grand total		8,190	4,010	1,650,000	68,900	46,000	15,000,000

-- 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.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Country or locality ⁴	Gross weight	Value	January–June ³	
			Gross weight	Value
Belgium	--	--	83	\$142,000
Brazil	11	\$18,000	121	175,000
Colombia	--	--	18	41,100
Greece	--	--	297	811,000
India	--	--	14	27,100
Indonesia	--	--	18	45,500
Japan	18	44,200	175	424,000
Mexico	13	22,200	26	44,400
South Africa	--	--	10	8,080
Spain	--	--	58	98,400
Other [1 country and (or) locality]	--	--	3	19,600
Total	42	84,500	823	1,840,000

-- 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–June quantities (gross weight) of the leading countries.

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–June ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		321	\$705,000	6,820	\$15,700,000
Indonesia		662	1,360,000	962	2,040,000
Japan		5	14,500	40	3,120,000
Mexico		20	120,000	80	486,000
South Africa		356	1,430,000	1,490	6,780,000
Total		1,360	3,620,000	9,390	28,200,000
Unwrought powder:	8111.00.4910				
China		--	--	80	163,000
South Africa		60	314,000	517	2,820,000
Total		60	314,000	597	2,980,000
Unwrought, other:	8111.00.4990				
Belgium		--	--	5	18,300
Canada		--	--	40	135,000
China		2,370	5,330,000	23,100	53,500,000
Germany		--	--	139	328,000
Indonesia		27	57,100	54	114,000
South Africa		58	211,000	441	2,060,000
Total		2,460	5,600,000	23,800	56,200,000
Other manganese, wrought:	8111.00.6000				
China		1	5,130	2	24,400
India		--	--	(4)	13,300
Japan		(4)	6,850	1	39,200
Mexico		10	31,400	96	592,000
Sweden		--	--	30	545,000
Total		11	43,400	130	1,210,000
Metallic waste and scrap, Canada	8111.00.3000	--	--	18	62,600
Grand total		3,890	9,580,000	33,900	88,600,000

-- 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 JUNE 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	Schedule B code	Gross weight	Value	January–June ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Canada		--	--	185	\$83,000
Guyana		--	--	4	23,500
Ireland		3	\$18,600	5	28,500
Korea, Republic of		21	121,000	164	425,000
Mexico		--	--	178	100,000
Sweden		--	--	7	3,500
Total		24	140,000	543	663,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Australia		--	--	1	2,670
Canada		116	346,000	818	1,850,000
France		--	--	7	12,400
United Kingdom		--	--	4	7,270
Total		116	346,000	829	1,880,000
More than 2% carbon:	7202.11.0000				
Australia		9	25,000	9	25,000
Canada		64	144,000	297	751,000
China		18	51,500	18	51,500
Guyana		--	--	11	31,600
Mexico		--	--	2	8,720
Poland		1	8,490	1	8,490
Slovenia		(3)	2,720	(3)	5,430
Total		92	232,000	338	881,000
Ferrosilicon manganese:	7202.30.0000				
Canada		116	180,000	1,470	2,210,000
Mexico		--	--	18	25,000
Total		116	180,000	1,490	2,240,000
Metal, including alloys and waste and scrap: ^{4, 5}	8111.00.0000				
Brazil		--	--	38	14,200
Canada		93	296,000	125	511,000
China		1	76,100	98	1,170,000
Costa Rica		(3)	8,840	82	57,800
Germany		--	--	31	74,300
Hong Kong		2	95,400	22	197,000
India		--	--	108	82,600
Japan		14	245,000	76	662,000
Malaysia		179	198,000	1,390	985,000
Mexico		36	89,100	94	567,000
Other [9 countries and (or) localities]		(3)	6,530	27	442,000
Total		326	1,010,000	2,090	4,760,000
Grand total		674	1,910,000	5,280	10,400,000

-- Zero.

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

²May include revisions to previously published data.

³Less than ½ unit.

⁴Presentation of monthly data is based on the January–June 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 JUNE 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–June 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	42	\$84	Japan 18; \$44.	823	\$1,840	Greece 297; \$811.
Manganese oxides other than dioxide	2820.90.0000	2,130	1,500	South Africa 826; \$397.	10,300	6,870	South Africa 4,230; \$1,830.
Manganites, manganates, and other permanganates	2841.69.0090	(5)	5	China (all).	(5)	15	China (all).
Potassium permanganate	2841.61.0000	511	1,710	India (all).	2,500	8,130	India 2,430; \$8,000.
Sodium permanganate	2841.69.0010	510	1,410	China 290; \$718.	3,390	9,420	China 2,230; \$5,860.
Other sulfates, including manganese sulfate	2833.29.5100	3,180	3,680	India 1,290; \$733.	23,400	24,200	Mexico 9,600; \$9,110.
Exports:							
Manganese dioxide	2820.10.0000	567	790	Canada 349; \$233.	3,570	4,490	Canada 2,290; \$1,800.
Manganese oxides other than dioxide	2820.90.0000	646	1,150	United Arab Emirates 190; \$272.	3,220	6,580	United Arab Emirates 1,100; \$1,580.
Manganites, manganates, and other permanganates	2841.69.0090	9	17	Canada (all).	70	239	Canada 54; \$106.
Potassium permanganate	2841.61.0000	17	101	Canada 9; \$51.	357	1,600	Brazil 106; \$389.
Sodium permanganate	2841.69.0010	3	8	Mexico (all).	6	106	Mexico 4; \$51.
Other sulfates, including manganese sulfate	2833.29.9100	1,310	3,250	Canada 952; \$1,100.	10,300	17,400	Canada 7,450; \$6,400.

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.