

Mineral Industry Surveys

For information, contact:

Ji-Eun Kim, Manganese Commodity Specialist
National Minerals Information Center
Telephone: (703) 648-7717
Email: ji-eunkim@usgs.gov

Justin Y. Kang (Data)

Telephone: (703) 648-7961

Email: jkang@usgs.gov

Internet: <https://www.usgs.gov/centers/national-minerals-information-center/mineral-industry-surveys>.

MANGANESE IN AUGUST 2023

On a gross-weight basis, U.S. imports of manganese ore in August 2023 decreased to 475 metric tons (t) from 42,100 t in July 2023 (fig. 1, table 5). In August 2023, the sole source of manganese ore imports for >20% – <47% grade was South Africa and Mexico was the sole source for >47% grade manganese ore. Total imports of manganese ore for the first eight months of 2023 were 72% less than that during the same period in 2022.

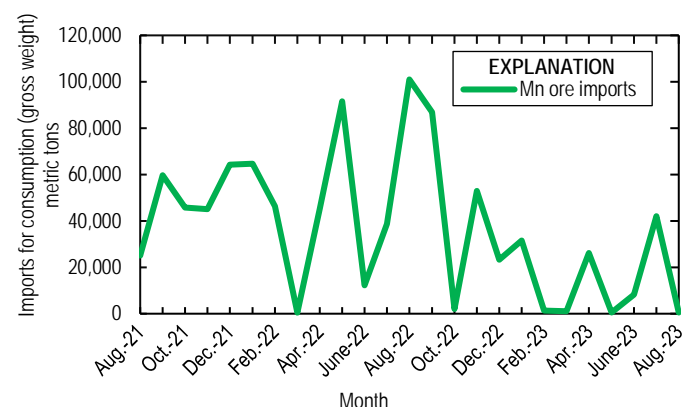


Figure 1. Monthly imports of manganese (Mn) ore from August 2021 through August 2023. Source: U.S. Census Bureau.

Prices

In August 2023, the average spot prices of manganese ore deliveries to China were \$3.61 per metric ton unit for 36%–38% grade and \$4.51 per metric ton unit for 44% grade, both were 3% less than the July 2023 prices (fig. 2, table 1). Compared with the monthly average prices in August 2022, both 36%–38% grade and 44% grade price were 23% less.

Industry News

Gabon, the second-leading manganese ore producing nation, experienced a military coup on August 30 following the results of the general election. Eramet Group (France), the leading producer of manganese ore in Gabon, announced a temporary suspension of operations on August 30 but resumed production the following day. (Schulz, 2023).

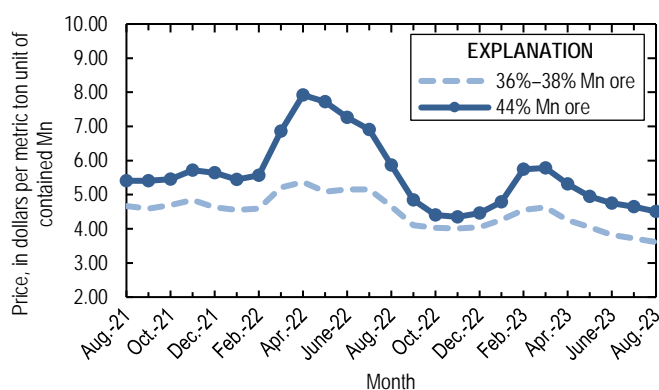


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from August 2021 through August 2023. Source: CRU Group.

Reference Cited

Schulz, Tanisha, 2023, How will Gabon's military coup impact the manganese supply chain?: Cape Town, South Africa, Project Blue, August 30. (Accessed October 12, 2023, via <https://projectblue.com/blue/news-analysis/587/how-will-gabonE28099s-military-coup-impact-the-manganese-supply-chain>.)

List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to <https://www.usgs.gov/centers/national-minerals-information-center/minerals-information-publication-list-services>.

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

		Low	Average	High
<u>Manganese ferroalloys:¹</u>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,150.00	1,225.00	1,300.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	110.00	111.00	112.00
Silicomanganese, 65% manganese	do.	59.00	59.70	60.40
<u>Manganese metal, 99.7% manganese flake²</u>	cents per pound	130.00	140.00	150.00
<u>Manganese ore:^{3, 4}</u>				
36%–38% manganese	dollars per metric ton unit contained manganese	3.55	3.61	3.65
44% manganese	do.	4.45	4.51	4.65

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:						
August	102,000	70,600	172,000	40	1,150 ^r	1,190 ^r
January–August	404,000	508,000 ^r	912,000 ^r	412	6,230 ^r	6,640 ^r
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
August	890	49,600	50,500	46	569	615
January–August	113,000	403,000	516,000	590	5,370	5,960

^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 AUGUST 2023^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–August ³		
				Gross weight	Mn content	Value
Australia	3,910	2,550	\$4,310,000	35,000	21,700	\$48,100,000
China	--	--	--	21	13	30,900
Georgia	17,500	12,200	21,700,000	18,800	13,100	23,400,000
India	100	58	142,000	2,150	1,250	3,660,000
Malaysia	3,430	2,190	3,820,000	14,400	9,510	19,700,000
Mexico	54	35	52,900	27,300	17,500	31,300,000
Norway	1,140	703	2,070,000	7,170	4,490	12,300,000
South Africa	--	--	--	61,100	39,700	67,200,000
Spain	160	104	226,000	160	104	226,000
Vietnam	--	--	--	50	33	56,000
Total	26,300	17,800	32,300,000	166,000	107,000	206,000,000

-- 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 AUGUST 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–August ²		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		--	--	--	13	11	\$50,200
Japan		80	65	\$127,000	680	556	1,280,000
Korea, Republic of		502	460	1,340,000	4,890	4,250	11,600,000
Mexico		--	--	--	3,700	2,990	6,620,000
Norway		2,500	2,010	3,850,000	19,900	16,100	35,400,000
South Africa		19	18	65,800	1,840	1,560	5,280,000
Spain		24	20	116,000	43	35	209,000
Taiwan		3	3	11,500	3	3	11,500
Turkey		--	--	--	1	1	3,620
Vietnam		--	--	--	80	75	187,000
Total		3,130	2,580	5,510,000	31,200	25,600	60,600,000
Medium carbon, 1%–2% C:	7202.19.5000						
China		--	--	--	3	2	9,310
India		--	--	--	430	344	864,000
Korea, Republic of		2,500	2,000	3,950,000	10,000	8,000	16,600,000
Malaysia		--	--	--	2,100	1,530	2,920,000
Mexico		173	136	411,000	1,350	1,040	3,010,000
Norway		5,000	4,050	6,590,000	22,200	18,000	33,700,000
South Africa		--	--	--	7,800	6,220	18,300,000
Thailand		--	--	--	130	104	469,000
Total		7,670	6,190	10,900,000	44,000	35,300	75,800,000
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		7,690	5,870	7,930,000	27,300	21,000	28,600,000
Brazil		72	53	74,500	331	244	425,000
Georgia		--	--	--	324	235	292,000
India		1,140	300	1,110,000	17,800	11,500	18,800,000
Korea, Republic of		--	--	--	1,500	1,140	1,640,000
Malaysia		1,180	865	1,260,000	63,300	48,000	81,600,000
South Africa		38	29	42,200	11,400	8,760	19,300,000
Spain		--	--	--	59	44	206,000
United Arab Emirates		--	--	--	151	114	161,000
Zambia		81	61	80,300	1,210	912	1,290,000
Other [3 countries and (or) localities]		17	11	48,200	75	54	195,000
Total		10,200	7,190	10,500,000	123,000	91,900	152,000,000
Grand total		21,000	16,000	27,000,000	199,000	153,000	289,000,000

-- 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–August 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 AUGUST 2023¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–August ²		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Belgium		--	--	--	116	46	\$53,500
Mexico		--	--	--	2,870	1,080	601,000
South Africa		375	147	127,000	2,370	1,060	736,000
Total		375	147	127,000	5,350	2,190	1,390,000
47% or more manganese:	2602.00.0060						
Brazil		--	--	--	128	62	203,000
China		--	--	--	(4)	(4)	15,100
Gabon		--	--	--	104,000	64,400	23,800,000
India		--	--	--	41	19	51,500
Mexico		100	65	84,100	700	456	573,000
South Africa		--	--	--	1,600	800	380,000
Total		100	65	84,100	106,000	65,800	25,000,000
Grand total		475	212	211,000	111,000	68,000	26,400,000

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

(Metric tons, unless otherwise specified)

Country or locality ⁴	Gross weight	Value	January–August ³	
			Gross weight	Value
Belgium	--	--	83	\$142,000
Brazil	--	--	199	267,000
Colombia	169	\$398,000	355	838,000
Germany	--	--	13	35,400
Greece	198	552,000	792	2,200,000
India	--	--	14	27,100
Indonesia	--	--	18	45,500
Japan	37	88,500	319	732,000
Mexico	10	17,800	37	62,200
Spain	--	--	58	98,400
Other [2 countries and (or) localities]	1	3,050	11	11,100
Total	415	1,060,000	1,900	4,460,000

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

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–August ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		761	\$1,720,000	8,140	\$18,700,000
Indonesia		--	--	989	2,100,000
Japan		8	267,000	48	3,430,000
Mexico		1	5,810	81	492,000
South Africa		784	2,580,000	2,690	11,200,000
Total		1,550	4,570,000	11,900	35,900,000
Unwrought powder:	8111.00.4910				
China		19	34,400	99	197,000
Mexico		--	--	1	5,440
South Africa		138	705,000	971	5,130,000
Total		157	739,000	1,070	5,330,000
Unwrought, other:	8111.00.4990				
Belgium		--	--	5	18,300
Canada		--	--	40	137,000
China		368	808,000	23,900	55,400,000
Germany		--	--	139	328,000
Indonesia		54	114,000	108	228,000
Poland		--	--	(4)	3,200
South Africa		20	106,000	482	2,280,000
Total		442	1,030,000	24,700	58,400,000
Other manganese, wrought:	8111.00.6000				
China		--	--	4	60,200
Germany		--	--	(4)	21,600
India		(4)	14,400	1	27,600
Japan		1	21,400	2	60,600
Mexico		53	220,000	151	821,000
Sweden		--	--	30	545,000
Total		54	256,000	188	1,540,000
Metallic waste and scrap:	8111.00.3000				
Canada		85	27,600	103	90,100
China		--	--	20	46,400
Total		85	27,600	123	137,000
Grand total		2,290	6,620,000	38,000	101,000,000

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

(Metric tons, unless otherwise specified)

Type and country or locality	Schedule B code	Gross weight	Value	January–August ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Canada		21	\$28,200	206	\$111,000
Guyana		--	--	4	23,500
Ireland		--	--	5	28,500
Korea, Republic of		25	149,000	189	573,000
Mexico		--	--	178	100,000
Sweden		--	--	7	3,500
Total		46	177,000	590	840,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Australia		--	--	1	2,670
Canada		39	111,000	858	1,970,000
France		--	--	7	12,400
United Kingdom		--	--	4	7,270
Total		39	111,000	870	1,990,000
More than 2% carbon:	7202.11.0000				
Australia		--	--	9	25,000
Canada		114	282,000	418	1,050,000
China		--	--	18	51,500
Guyana		--	--	11	31,600
Japan		1	8,460	1	8,460
Mexico		--	--	2	8,720
Poland		--	--	1	8,490
Slovenia		1	8,150	1	16,300
Total		116	299,000	462	1,200,000
Ferrosilicon manganese:	7202.30.0000				
Canada		230	330,000	1,700	2,540,000
Mexico		--	--	18	25,000
Total		230	330,000	1,720	2,570,000
Metal, including alloys and waste and scrap: ^{3,4}	8111.00.0000				
Brazil		--	--	38	14,200
Canada		1	5,870	145	590,000
China		44	16,200	143	1,250,000
Costa Rica		--	--	82	57,800
France		28	27,700	39	213,000
Germany		--	--	31	74,300
India		--	--	108	82,600
Japan		5	28,800	81	691,000
Malaysia		176	202,000	1,900	1,370,000
Mexico		38	54,800	164	634,000
Other [10 countries and (or) localities]		7	35,700	49	567,000
Total		300	371,000	2,780	5,540,000
Grand total		731	1,290,000	6,420	12,100,000

-- Zero.

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

²May include revisions to previously published data.

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

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

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN AUGUST 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–August 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	415	\$1,060	Greece 198; \$552.	1,900	\$4,460	Greece 792; \$2,200.
Manganese oxides other than dioxide	2820.90.0000	1,300	1,080	India 277; \$248.	14,000	9,520	South Africa 5,770; \$2,790.
Manganites, manganates, and other permanganates	2841.69.0090	5	10	China (all).	6	31	China (all).
Potassium permanganate	2841.61.0000	18	52	India (all).	2,940	9,650	India 2,870; \$9,520.
Sodium permanganate	2841.69.0010	260	760	India 148; \$452.	4,400	12,300	China 2,730; \$7,150.
Other sulfates, including manganese sulfate	2833.29.5100	2,390	3,650	Mexico 988; \$1,200.	30,500	32,700	Mexico 11,500; \$11,200.
Exports:							
Manganese dioxide	2820.10.0000	338	341	Canada 254; \$212.	5,010	5,530	Canada 2,950; \$2,350.
Manganese oxides other than dioxide	2820.90.0000	473	1,300	United Arab Emirates 152; \$217.	3,920	8,440	United Arab Emirates 1,250; \$1,790.
Manganites, manganates, and other permanganates	2841.69.0090	52	135	Canada 34; \$64.	125	380	Canada 91; \$176.
Potassium permanganate	2841.61.0000	1	33	Guyana (5); \$5.	415	1,890	Brazil 142; \$526.
Sodium permanganate	2841.69.0010	76	224	Belgium 76; \$212.	120	438	Belgium 114; \$320.
Other sulfates, including manganese sulfate	2833.29.9100	1,300	2,190	Canada 857; \$634.	13,200	21,500	Canada 9,510; \$7,930.

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.