



Mineral Industry Surveys

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MANGANESE IN AUGUST 2021

On a gross-weight basis, U.S. imports of manganese ore in August 2021 were 25,000 metric tons (t), 43% less than that in July 2021 (fig. 1, table 5). The leading source of manganese ore, >20%–<47% grade, was Mexico and for >47% grade was Gabon. Total imports of manganese ore for the first 8 months of 2021 were 31% more than those during the same period in 2020.

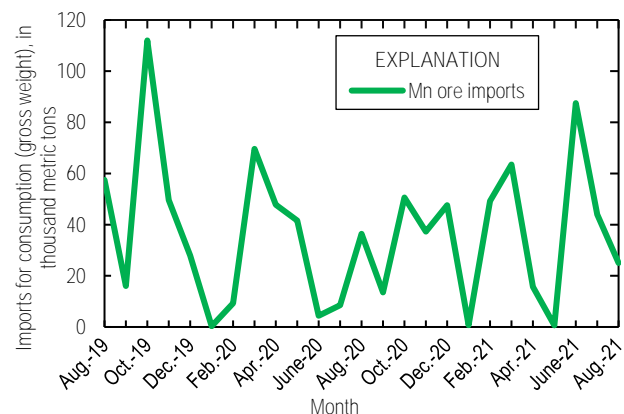


Figure 1. Monthly imports of manganese (Mn) ore from August 2019 through August 2021. Source: U.S. Census Bureau.

Prices

In August 2021, the average spot prices for manganese ore deliveries to China were \$4.67 per metric ton unit, 36%–38% grade, and \$5.41 per metric ton unit, 44% grade, slightly less and slightly more, respectively, than the July 2021 prices (fig. 2,

table 1). Compared with the monthly average prices in August 2020, the 36%–38% grade price was 15% more and the 44% grade price was 34% more.

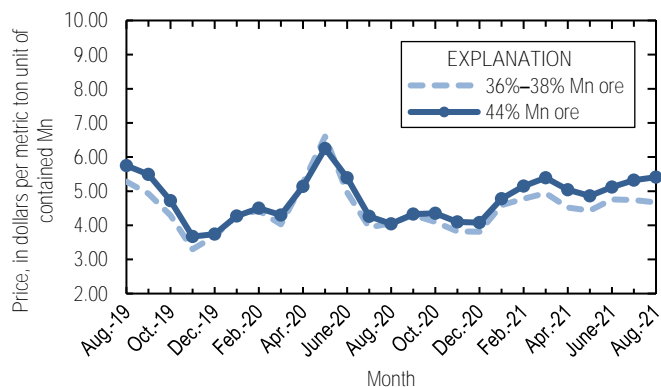


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from August 2019 through August 2021. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN AUGUST 2021

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	2,257.50	2,297.50	2,337.50
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	178.75	181.25	183.75
Silicomanganese, 65% manganese	do.	99.25	100.13	101.00
Manganese metal, 99.7% manganese flake ²	cents per pound	210.00	291.67	326.00
Manganese ore:^{3,4}				
36%–38% manganese	dollars per metric ton unit contained manganese	4.60	4.67	4.75
44% manganese	do.	5.35	5.41	5.45

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
2020:						
August	36,500 ^r	17,900 ^r	54,400 ^r	86 ^r	1,320 ^r	1,410 ^r
January–August	221,000 ^r	338,000 ^r	559,000 ^r	672 ^r	8,330 ^r	9,000 ^r
2021:						
January	989	24,600	25,500	83	2,930	3,020
February	49,400	71,300	121,000	77	2,670	2,750 ^r
March	64,200	65,800	130,000	50	1,940	1,990
April	16,700	22,800	39,500	52	1,260	1,310
May	1,000	58,600	59,600	412	1,650	2,060
June	88,800	74,800	164,000	68	1,690	1,760
July	44,300	32,200	76,500	87	1,590	1,670
August	25,400	62,400	87,800	176	1,330	1,500
January–August	291,000	412,000	703,000	1,000	15,100	16,100

^rRevised.

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 2021^{1,2,3}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–August ⁴		
				Gross weight	Mn content	Value
Australia	8,000	5,290	\$12,200,000	37,600	24,700	\$49,300,000
Brazil	--	--	--	913	603	983,000
Georgia	8,390	6,210	10,400,000	46,700	34,400	52,400,000
India	250	138	360,000	500	276	720,000
Malaysia	479	313	543,000	16,000	10,600	17,500,000
Mexico	2,660	1,720	3,210,000	5,860	3,800	6,840,000
Norway	4,440	2,740	8,800,000	19,000	11,800	28,500,000
Russia	--	--	--	2,690	469	3,370,000
South Africa	6,500	4,230	7,150,000	49,400	32,100	49,100,000
Spain	--	--	--	314	187	463,000
Other [1 country or locality]	--	--	--	20	13	25,400
Total	30,700	20,600	42,600,000	179,000	119,000	209,000,000

-- 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.

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

⁴May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN AUGUST 2021¹

(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		--	--	--	2	2	\$3,260
India		--	--	--	1	1	2,400
Japan		48	39	\$104,000	648	522	1,060,000
Mexico		200	160	259,000	200	160	259,000
Norway		4,840	3,920	11,400,000	25,100	20,400	43,300,000
South Africa		22	18	35,000	403	356	623,000
Total		5,110	4,140	11,800,000	26,300	21,400	45,300,000
Medium carbon, 1%–2% C:	7202.19.5000						
Australia		--	--	--	9,510	7,240	13,400,000
China		20	16	50,600	20	16	50,600
India		--	--	--	756	575	752,000
Japan		--	--	--	96	77	149,000
Korea, Republic of		--	--	--	11,200	9,010	18,200,000
Mexico		429	325	881,000	1,330	999	2,330,000
Norway		--	--	--	3,200	2,620	4,290,000
South Africa		4,170	3,330	7,890,000	20,000	16,000	33,000,000
Total		4,620	3,670	8,820,000	46,100	36,600	72,200,000
High carbon, over 4% C: ⁴	7202.11.5000						
Australia		8,000	6,100	11,600,000	29,100	22,200	37,600,000
France		73	55	109,000	808	622	1,210,000
India		2,670	2,040	3,230,000	21,700	16,100	23,900,000
Korea, Republic of		--	--	--	10,500	8,120	12,900,000
Malaysia		21	13	41,700	40,000	30,400	34,900,000
Norway		--	--	--	500	395	371,000
Russia		1,320	1,000	1,830,000	7,580	4,890	8,690,000
South Africa		1,300	998	1,850,000	17,200	13,100	19,200,000
Switzerland		--	--	--	2,310	1,760	2,170,000
Zambia		--	--	--	650	500	744,000
Other [4 countries and (or) localities]		429	332	1,020,000	838	627	1,460,000
Total		13,800	10,500	19,600,000	131,000	98,700	143,000,000
Grand total		23,500	18,300	40,300,000	204,000	157,000	261,000,000

-- 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 2021¹

(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						
Gabon		--	--	--	4,500	2,070	\$1,320,000
Mexico		11,800	4,480	\$2,120,000	35,000	13,400	5,860,000
South Africa		297	139	74,800	61,100	24,700	9,080,000
Total		12,100	4,620	2,200,000	101,000	40,200	16,300,000
47% or more manganese:	2602.00.0060						
Brazil		73	36	82,000	193	97	135,000
France		--	--	--	1	1	2,020,000
Gabon		12,200	5,940	3,240,000	178,000	95,300	36,200,000
Mexico		95	65	98,500	95	65	98,500
Morocco		312	172	130,000	2,040	1,130	891,000
South Africa		200	97	76,000	5,300	2,630	1,480,000
Total		12,900	6,310	3,630,000	186,000	99,200	40,800,000
Grand total		25,000	10,900	5,830,000	286,000	139,000	57,100,000

-- 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 AUGUST 2021^{1,2,3}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–August ⁴	
			Gross weight	Value
Belgium	--	--	37	\$144,000
Brazil	18	\$20,100	153	180,000
Canada	--	--	26	41,300
China	--	--	38	156,000
Greece	83	197,000	1,780	3,980,000
Japan	234	480,000	1,990	4,390,000
Mexico	10	17,800	63	107,000
Morocco	32	55,000	51	79,000
South Africa	--	--	285	659,000
Spain	19	48,100	141	309,000
Other [2 countries and (or) localities]	--	--	28	114,000
Total	396	818,000	4,600	10,200,000

-- 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.

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

⁴May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN AUGUST 2021¹

(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		22	\$54,300	2,520	\$4,220,000
Gabon		--	--	4	9,700
Japan		(4)	349,000	2	2,060,000
Mexico		3	11,000	26	91,500
South Africa		708	1,750,000	3,370	7,810,000
Total		732	2,160,000	5,920	14,200,000
Unwrought powder:	8111.00.4910				
China		--	--	193	316,000
Mexico		7	20,400	7	20,400
South Africa		101	231,000	1,150	2,840,000
United Kingdom		--	--	(4)	4,000
Total		108	252,000	1,350	3,180,000
Unwrought, other:	8111.00.4990				
China		6,680	16,900,000	18,200	37,500,000
Germany		111	241,000	908	1,920,000
South Africa		61	164,000	265	641,000
Spain		3	4,090	3	4,090
Total		6,860	17,300,000	19,400	40,100,000
Other manganese, wrought:	8111.00.6000				
Canada		--	--	(4)	7,540
China		(4)	6,000	10	46,300
France		(4)	3,090	(4)	3,090
Germany		1	18,600	119	1,720,000
Japan		--	--	(4)	18,100
Mexico		61	293,000	165	693,000
Sweden		--	--	16	245,000
United Kingdom		--	--	(4)	9,720
Total		62	320,000	311	2,740,000
Metallic waste and scrap	8111.00.3000				
Canada		71	29,900	316	130,000
Japan		4	13,700	8	48,000
Total		75	43,600	324	178,000
Grand total		7,830	20,100,000	27,300	60,400,000

-- 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 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OR LOCALITY OF DESTINATION
IN AUGUST 2021¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–August ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Belgium		--	--	20	\$57,100
Canada		59	\$41,700	540	336,000
Dominican Republic		29	21,500	29	21,500
India		--	--	97	91,200
Mexico		88	30,100	260	130,000
Netherlands		--	--	14	52,500
Singapore		--	--	20	8,570
United Kingdom		--	--	25	15,000
Total		176	93,300	1,000	712,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Argentina		--	--	218	427,000
Canada		599	1,210,000	3,960	7,090,000
Chile		--	--	20	33,900
Mexico		--	--	3	6,230
Romania		--	--	2	4,490
Uruguay		--	--	5	8,620
Total		599	1,210,000	4,200	7,570,000
More than 2% carbon:	7202.11.0000				
Australia		--	--	1	3,960
Canada		195	234,000	3,860	4,260,000
Chile		--	--	10	28,000
China		--	--	15	42,200
Costa Rica		--	--	1	3,030
Finland		--	--	2	6,930
Indonesia		--	--	3	9,200
Mexico		4	12,300	9	25,800
Peru		--	--	38	115,000
Taiwan		--	--	4	9,900
Total		200	246,000	3,940	4,500,000
Ferrosilicon manganese	7202.30.0000				
Canada		127	231,000	2,520	3,210,000
Colombia		--	--	203	299,000
Honduras		--	--	2	5,100
Mexico		20	55,100	43	108,000
Peru		--	--	190	279,000
Total		147	286,000	2,960	3,900,000
Metal, including alloys and waste and scrap: ^{4,5}	8111.00.0000				
Canada		--	--	502	1,920,000
Dominican Republic		--	--	48	130,000
Germany		--	--	82	413,000
Japan		5	20,500	63	209,000
Korea, Republic of		--	--	25	9,140
Malaysia		360	266,000	2,850	1,480,000
Mexico		3	34,800	23	151,000
Netherlands		--	--	165	1,030,000
Turkey		--	--	29	10,600
Vietnam		--	--	100	80,000
Other [14 countries and (or) localities]		12	77,000	78	1,380,000
Total		380	398,000	3,960	6,810,000
Grand total		1,500	2,230,000	16,100	23,500,000

-- 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.

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 AUGUST 2021¹

Compound	HTS ³ code	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 oxides other than dioxide	2820.90.0000	1,330	\$872	South Africa 491; \$345.	19,100	\$11,700	India 7,480; \$5,090.
Manganites, manganates, and other permanganates	2841.69.0090	21	52	India 21; \$52.	70	417	India 39; \$92.
Potassium permanganate	2841.61.0000	167	370	India 144; \$323.	670	1,460	India 609; \$1,330.
Sodium permanganate	2841.69.0010	95	199	India 95; \$199.	761	1,310	China 458; \$695.
Other sulfates, including manganese sulfate	2833.29.5100	7,490	4,930	Mexico 2,460; \$1,830.	50,300	37,100	China 16,600; \$10,300.
Exports:							
Manganese dioxide	2820.10.0000	678	1,010	Canada 436; \$337.	6,120	7,150	Canada 3,990; \$2,800.
Manganese oxides other than dioxide	2820.90.0000	493	1,150	Malaysia 114; \$119.	4,030	7,940	United Arab Emirates 1,390; \$1,980.
Manganites, manganates, and other permanganates	2841.69.0090	17	38	Canada 17; \$35.	127	373	Canada 123; \$266.
Potassium permanganate	2841.61.0000	466	1,270	Belgium 362; \$923.	2,260	6,540	Belgium 1,100; \$2,770.
Sodium permanganate	2841.69.0010	25	70	Mexico 23; \$55.	340	1,020	Belgium 211; \$477.
Other sulfates, including manganese sulfate	2833.29.9100	1,340	4,320	Canada 572; \$580.	13,100	30,300	Canada 7,690; \$6,720.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.