

Mineral Industry Surveys

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MANGANESE IN DECEMBER 2021

On a gross-weight basis, U.S. imports of manganese ore in December 2021 were 64,200 metric tons (t), 42% more than the amount in November 2021 (fig. 1, table 5). The leading source of manganese ore, >20% – <47% grade, was South Africa and the leading source for >47% grade was Gabon. Total imports of manganese ore during 2021 were 37% more than those during 2020.

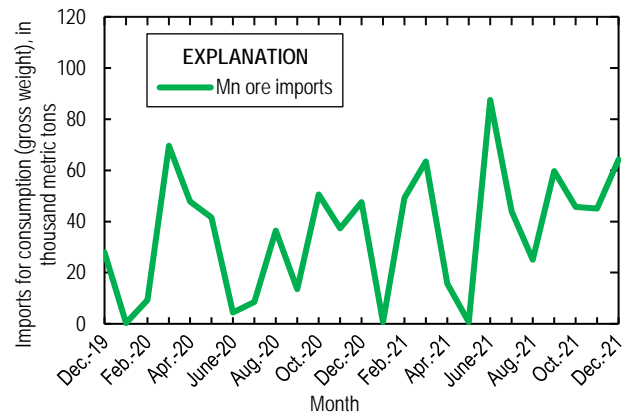


Figure 1. Monthly imports of manganese (Mn) ore from December 2019 through December 2021. Source: U.S. Census Bureau.

Prices

In December 2021, the average spot prices for manganese ore deliveries to China were \$4.63 per metric ton unit, 36%–38% grade, and \$5.64 per metric ton unit, 44% grade, 4% and slightly less, respectively, than the November 2021 prices (fig. 2, table

1). Compared with the monthly average prices in December 2020, the 36%–38% grade price was 22% more and the 44% grade price was 38% more.

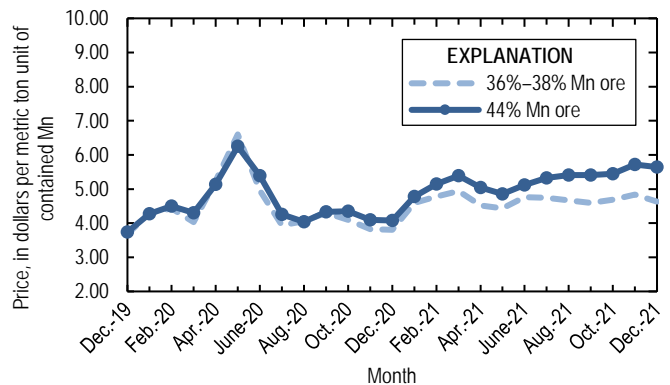


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from December 2019 through December 2021. Source: CRU Group.

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

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	2,500.00	2,550.00	2,600.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	260.00	262.50	265.00
Silicomanganese, 65% manganese	do.	125.00	127.50	130.00
Manganese metal, 99.7% manganese flake ²	cents per pound	460.00	467.50	475.00
Manganese ore:^{3,4}				
36%-38% manganese	dollars per metric ton unit contained manganese	4.55	4.63	4.90
44% manganese	do.	5.60	5.64	5.85

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
2020:						
December	48,400 ^r	62,600 ^r	111,000 ^r	123 ^r	1,820 ^r	1,940 ^r
January–December	372,000 ^r	522,000 ^r	894,000 ^r	957 ^r	13,200 ^r	14,100 ^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
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
September	60,800	58,400	119,000	41	1,120	1,160
October	46,400	67,700	114,000	--	1,100	1,100
November	45,900	56,200	102,000	48	1,430	1,480
December	65,000	86,700	152,000	21	1,120	1,140
January–December	509,000	681,000	1,190,000	1,110	19,800	21,000

^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 DECEMBER 2021^{1,2,3}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–December ⁴		
				Gross weight	Mn content	Value
Australia	6,920	4,520	\$17,000,000	52,500	34,500	\$83,700,000
Brazil	--	--	--	913	603	983,000
Georgia	13,500	9,960	27,400,000	87,800	64,700	123,000,000
India	--	--	--	500	276	720,000
Malaysia	306	200	327,000	26,700	17,900	34,800,000
Mexico	2,450	1,580	3,620,000	14,600	9,470	19,000,000
Norway	1,580	994	4,130,000	28,400	17,600	49,100,000
Russia	6,550	1,130	14,900,000	15,400	2,730	31,800,000
South Africa	18,200	11,800	20,000,000	82,000	53,200	85,000,000
Spain	--	--	--	314	187	463,000
Other [2 countries and (or) localities]	--	--	--	31	20	39,400
Total	49,500	30,200	87,400,000	309,000	201,000	429,000,000

-- 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–December 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 DECEMBER 2021¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–December 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		140	113	\$397,000	1,030	828	2,030,000
Mexico		371	300	492,000	804	649	1,060,000
Norway		1,400	1,130	5,620,000	39,700	32,300	87,100,000
South Africa		38	33	62,800	574	511	927,000
Spain		--	--	--	1	1	2,190
Switzerland		--	--	--	1	1	2,420
Total		1,950	1,580	6,570,000	42,100	34,300	91,100,000
Medium carbon, 1%–2% C:	7202.19.5000						
Australia		--	--	--	9,510	7,240	13,400,000
China		--	--	--	20	16	50,600
India		--	--	--	756	575	752,000
Japan		--	--	--	96	77	149,000
Korea, Republic of		4,000	3,200	10,300,000	19,700	15,800	37,200,000
Mexico		218	164	603,000	1,820	1,380	3,510,000
Norway		400	325	1,120,000	4,900	4,000	9,070,000
South Africa		1,940	1,510	5,260,000	26,400	21,100	48,300,000
Total		6,560	5,200	17,300,000	63,300	50,200	113,000,000
High carbon, over 4% C: ⁴	7202.11.5000						
Australia		9,310	7,150	20,600,000	46,500	35,600	74,600,000
France		5,000	3,750	8,210,000	6,460	4,870	10,300,000
India		9,520	7,210	12,900,000	50,100	37,700	61,400,000
Korea, Republic of		--	--	--	13,000	10,000	16,200,000
Malaysia		--	--	--	62,200	47,200	65,400,000
Norway		--	--	--	500	395	371,000
Russia		--	--	--	15,500	10,900	23,100,000
South Africa		808	594	1,480,000	22,900	17,400	28,000,000
Switzerland		--	--	--	2,310	1,760	2,170,000
Zambia		150	112	243,000	1,180	910	1,510,000
Other [5 countries and (or) localities]		23	17	37,100	913	681	1,570,000
Total		24,800	18,800	43,500,000	222,000	167,000	285,000,000
Grand total		33,300	25,600	67,400,000	327,000	252,000	488,000,000

-- 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–December 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 DECEMBER 2021¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–December 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		10,000	3,750	\$1,700,000	55,600	21,100	9,360,000
South Africa		10,500	3,590	1,420,000	84,900	33,300	12,300,000
Total		20,600	7,340	3,120,000	145,000	56,400	22,900,000
47% or more manganese:	2602.00.0060						
Brazil		--	--	--	193	97	135,000
Canada		--	--	--	18	17	3,500
France		--	--	--	1	1	2,020,000
Gabon		43,000	24,400	9,740,000	346,000	202,000	71,400,000
Mexico		57	39	57,200	304	208	308,000
Morocco		--	--	--	2,210	1,210	950,000
South Africa		500	243	190,000	6,800	3,360	2,050,000
Total		43,600	24,600	9,990,000	356,000	207,000	76,800,000
Grand total		64,200	32,000	13,100,000	501,000	263,000	99,800,000

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

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–December ⁴	
			Gross weight	Value
Belgium	--	--	37	\$144,000
Brazil	18	\$20,100	188	221,000
Canada	--	--	26	41,300
China	18	80,800	118	400,000
Greece	528	1,270,000	4,040	9,360,000
Japan	301	730,000	2,970	6,640,000
Mexico	6	9,590	90	152,000
Morocco	--	--	51	79,000
South Africa	--	--	323	748,000
Spain	--	--	192	396,000
Other [2 countries and (or) localities]	--	--	28	114,000
Total	870	2,110,000	8,060	18,300,000

-- 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–December 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 DECEMBER 2021¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–December ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		177	\$758,000	3,380	\$7,630,000
Gabon		--	--	4	9,700
Japan		(4)	365,000	11	3,540,000
Mexico		--	--	26	91,500
South Africa		577	2,160,000	7,060	20,700,000
United Kingdom		--	--	25	71,000
Total		754	3,280,000	10,500	32,100,000
Unwrought powder:	8111.00.4910				
China		20	30,400	213	346,000
Mexico		--	--	19	119,000
South Africa		248	738,000	1,680	4,280,000
United Kingdom		--	--	(4)	4,000
Total		268	768,000	1,920	4,740,000
Unwrought, other:	8111.00.4990				
China		2,510	9,520,000	27,400	63,800,000
Germany		175	827,000	1,500	3,980,000
Hong Kong		11	42,800	11	42,800
Poland		(4)	7,690	(4)	7,690
South Africa		61	140,000	468	1,160,000
Spain		--	--	7	10,300
Total		2,760	10,500,000	29,400	69,000,000
Other manganese, wrought:	8111.00.6000				
Canada		--	--	(4)	7,540
China		--	--	13	60,600
France		--	--	(4)	3,090
Germany		21	322,000	155	2,260,000
Japan		--	--	(4)	33,000
Mexico		20	89,800	246	1,140,000
Sweden		10	167,000	50	814,000
United Kingdom		--	--	(4)	9,720
Total		51	578,000	465	4,320,000
Metallic waste and scrap	8111.00.3000				
Canada		--	--	387	159,000
Japan		--	--	8	48,000
Total		--	--	395	207,000
Grand total		3,830	15,200,000	42,700	110,000,000

-- 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 DECEMBER 2021¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–December ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Belgium		--	--	20	\$57,100
Canada		21	\$23,500	624	424,000
Dominican Republic		--	--	29	21,500
India		--	--	97	91,200
Korea, Republic of		--	--	7	3,410
Mexico		--	--	279	137,000
Netherlands		--	--	14	52,500
Singapore		--	--	20	8,570
United Kingdom		--	--	25	15,000
Total		21	23,500	1,110	810,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Argentina		--	--	218	427,000
Canada		8	16,000	4,290	7,800,000
Chile		--	--	20	33,900
Jamaica		--	--	24	44,900
Mexico		61	116,000	205	389,000
Romania		--	--	2	4,490
Uruguay		--	--	5	8,620
Total		69	132,000	4,760	8,710,000
More than 2% carbon:	7202.11.0000				
Brazil		--	--	48	134,000
Canada		82	239,000	4,160	4,980,000
Chile		--	--	10	28,000
China		--	--	15	42,200
Finland		--	--	2	6,930
Indonesia		--	--	3	9,200
Jamaica		--	--	16	44,900
Mexico		--	--	90	233,000
Peru		--	--	38	115,000
Taiwan		--	--	4	9,900
Other [2 countries and (or) localities]		--	--	3	6,990
Total		82	239,000	4,380	5,610,000
Ferrosilicon manganese	7202.30.0000				
Canada		779	1,430,000	4,780	7,850,000
Colombia		--	--	203	299,000
Honduras		--	--	2	5,100
Japan		--	--	(4)	4,100
Mexico		--	--	62	146,000
Peru		--	--	190	279,000
Total		779	1,430,000	5,230	8,580,000
Metal, including alloys and waste and scrap:^{5,6}	8111.00.0000				
Canada		28	56,600	536	2,000,000
Dominican Republic		--	--	48	130,000
Germany		--	--	82	413,000
Japan		--	--	103	372,000
Korea, Republic of		--	--	25	9,140
Malaysia		135	80,200	4,230	2,420,000
Mexico		21	111,000	59	416,000
Netherlands		--	--	165	1,030,000
Turkey		--	--	29	10,600
Vietnam		--	--	100	80,000
Other [17 countries and (or) localities]		9	212,000	88	1,600,000
Total		194	460,000	5,460	8,490,000
Grand total		1,140	2,290,000	21,000	32,200,000

-- 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.

⁵Presentation of monthly data is based on the January–December quantities (gross weight) of the leading countries.

⁶Includes manganese-aluminum, other alloys, and waste and scrap.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 2021¹

Compound	HTS ³ code	Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)	January–December 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	1,780	\$1,180	South Africa 791; \$465.	24,100	\$15,300	South Africa 8,190; \$4,010.
Manganites, manganates, and other permanganates	2841.69.0090	--	--	XX	71	422	India 39; \$92.
Potassium permanganate	2841.61.0000	32	85	India 18; \$59.	825	1,860	India 750; \$1,700.
Sodium permanganate	2841.69.0010	119	288	India (all).	1,430	2,770	India 827; \$1,790.
Other sulfates, including manganese sulfate	2833.29.5100	8,690	6,850	China 5,450; \$3,510.	76,200	58,400	China 28,100; \$17,800.
Exports:							
Manganese dioxide	2820.10.0000	643	846	Canada 410; \$350.	9,740	11,500	Canada 6,300; \$4,630.
Manganese oxides other than dioxide	2820.90.0000	458	840	Canada 97; \$116.	5,860	11,700	United Arab Emirates 1,890; \$3,330.
Manganites, manganates, and other permanganates	2841.69.0090	49	106	Canada 37; \$75.	198	548	Canada 182; \$387.
Potassium permanganate	2841.61.0000	263	767	Belgium 181; \$458.	3,420	9,900	Belgium 1,910; \$4,820.
Sodium permanganate	2841.69.0010	96	295	Belgium 95; \$218.	659	1,920	Belgium 456; \$1,060.
Other sulfates, including manganese sulfate	2833.29.9100	1,920	2,950	Canada 1,630; \$1,370.	20,600	45,500	Canada 12,900; \$12,700.

-- Zero. XX Not applicable.

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.