

Mineral Industry Surveys

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MANGANESE IN MARCH 2022

On a gross-weight basis, U.S. imports of manganese ore in March 2022 were 449 metric tons (t), considerably less than the 46,300 t in February 2022 (fig. 1, table 5). However, total imports of manganese ore for the first three months of 2022 were only slightly less than those during the same period in 2021. In March 2022, the sole source of manganese ore, >20% – <47% grade, was South Africa and the sole source for >47% grade was Mexico.

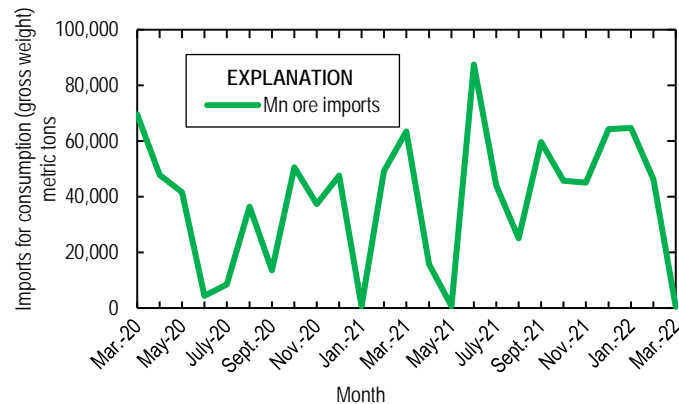


Figure 1. Monthly imports of manganese (Mn) ore from March 2020 through March 2022. Source: U.S. Census Bureau.

Prices

In March 2022, the average spot prices for manganese ore deliveries to China were \$5.21 per metric ton unit, 36%–38% grade, and \$6.86 per metric ton unit, 44% grade, 14% more and 23% more, respectively, than the February 2022 prices (fig. 2,

table 1). Compared with the monthly average prices in March 2021, the 36%–38% grade price was 5% more, and the 44% grade price was 27% more.

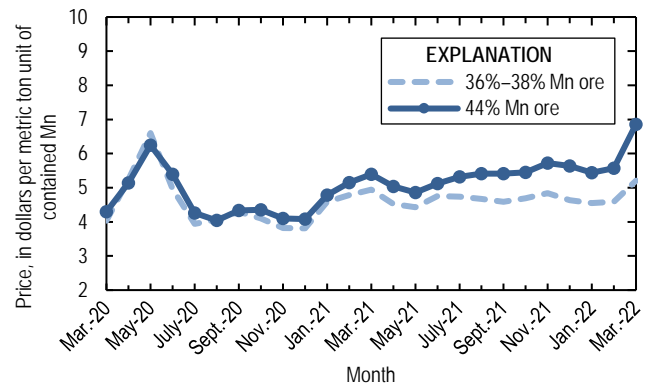


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from March 2020 through March 2022. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN MARCH 2022

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	2,800.00	2,825.00	2,850.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	260.00	262.50	265.00
Silicomanganese, 65% manganese	do.	131.40	133.10	134.80
Manganese metal, 99.7% manganese flake²	cents per pound	455.00	460.00	465.00
Manganese ore:^{3,4}				
36%–38% manganese	dollars per metric ton unit contained manganese	4.68	5.21	5.72
44% manganese	do.	5.85	6.86	7.87

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
2021:						
March	64,200	65,800	130,000	50	1,690 ^r	1,740 ^r
January–March	115,000	162,000	276,000	209	4,290 ^r	4,500 ^r
2022:						
January	66,100	48,200	114,000	41	190	231
February	46,600	93,900	140,000	86	407	493
March	793	41,700	42,500	19	1,090	1,110
January–March	113,000	184,000	297,000	145	1,680	1,830

^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 MARCH 2022^{1,2}

(Metric tons, unless otherwise specified)

Country or locality ⁴	Gross weight	Mn content	Value	January–March ³		
				Gross weight	Mn content	Value
Australia	--	--	--	12,900	8,500	\$32,100,000
Georgia	15,300	11,300	\$32,900,000	32,200	23,600	69,700,000
India	5	3	15,700	10,300	6,690	15,700,000
Malaysia	478	314	960,000	7,680	5,010	13,800,000
Mexico	1,100	707	1,590,000	5,800	3,720	8,420,000
Norway	890	543	2,120,000	3,890	2,510	9,540,000
Russia	--	--	--	8,250	1,510	18,800,000
Singapore	239	157	480,000	239	157	480,000
Slovakia	--	--	--	30	20	56,300
South Africa	--	--	--	15,600	10,100	17,200,000
Other [1 country and (or) locality]	16	11	49,800	16	11	49,800
Total	18,100	13,000	38,100,000	96,900	61,900	186,000,000

-- 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.

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

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MARCH 2022¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–March ²		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		--	--	--	3	3	\$5,790
China		--	--	--	20	16	47,300
Japan		329	267	\$555,000	580	470	1,430,000
Korea, Republic of		800	751	3,870,000	800	751	3,870,000
Mexico		--	--	--	58	47	77,600
Norway		6,870	5,570	18,100,000	11,400	9,240	31,700,000
South Africa		22	18	35,000	42	35	66,600
Total		8,020	6,610	22,500,000	12,900	10,600	37,200,000
Medium carbon, 1%–2% C:	7202.19.5000						
Korea, Republic of		6,000	4,800	18,900,000	8,800	7,040	25,700,000
Mexico		193	154	312,000	796	619	2,060,000
Norway		400	326	1,130,000	400	326	1,130,000
South Africa		--	--	--	3,250	2,590	8,880,000
Total		6,590	5,280	20,400,000	13,200	10,600	37,800,000
High carbon, over 4% C:⁴	7202.11.5000						
Australia		--	--	--	11,700	8,950	26,000,000
Brazil		72	53	109,000	188	138	329,000
Canada		30	21	89,200	30	21	89,200
India		702	533	1,000,000	11,600	8,850	19,600,000
Korea, Republic of		--	--	--	700	532	1,310,000
Malaysia		--	--	--	14,300	10,800	26,300,000
Mexico		100	70	185,000	100	70	185,000
Russia		--	--	--	7,750	5,890	15,600,000
South Africa		213	145	292,000	1,630	1,230	3,190,000
Zambia		--	--	--	425	327	653,000
Other [1 country and (or) locality]		3	2	2,730	3	2	2,730
Total		1,120	825	1,680,000	48,500	36,900	93,300,000
Grand total		15,700	12,700	44,600,000	74,600	58,000	168,000,000

-- 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–March 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 MARCH 2022¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Mn content	Value	January–March ²		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		--	--	--	12,600	4,700	\$2,100,000
South Africa		297	138	\$82,100	46,200	18,500	6,980,000
Total		297	138	82,100	58,800	23,200	9,080,000
47% or more manganese:	2602.00.0060						
Gabon		--	--	--	52,000	32,400	11,700,000
Mexico		152	100	152,000	209	139	209,000
Netherlands		--	--	--	16	9	19,000
South Africa		--	--	--	319	154	125,000
Total		152	100	152,000	52,600	32,700	12,000,000
Grand total		449	238	234,000	111,000	56,000	21,100,000

-- 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 MARCH 2022^{1,2}

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–March ³	
			Gross weight	Value
Brazil	--	--	46	\$58,200
Germany	--	--	5	28,400
Greece	--	--	297	744,000
Japan	344	\$831,000	1,700	4,340,000
Mexico	--	--	15	26,000
Spain	--	--	21	35,000
Total	344	831,000	2,080	5,240,000

-- 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.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL
IN MARCH 2022¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–March ²	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		484	\$2,780,000	1,670	\$10,300,000
Indonesia		48	351,000	48	351,000
Japan		(4)	491,000	1	1,450,000
Mexico		--	--	1	15,700
South Africa		566	3,950,000	1,180	7,710,000
Total		1,100	7,570,000	2,890	19,800,000
Unwrought powder:	8111.00.4910				
China		63	162,000	92	235,000
Mexico		12	112,000	32	182,000
South Africa		61	456,000	335	2,220,000
Total		136	731,000	459	2,640,000
Unwrought, other:	8111.00.4990				
China		6,480	41,500,000	8,030	46,300,000
Germany		79	542,000	309	1,540,000
South Africa		122	451,000	305	1,410,000
Total		6,680	42,500,000	8,640	49,200,000
Other manganese, wrought:	8111.00.6000				
China		3	49,400	6	85,800
Germany		16	233,000	19	277,000
Japan		--	--	(4)	2,470
Sweden		--	--	15	261,000
Total		19	282,000	40	626,000
Metallic waste and scrap, Japan	8111.00.3000				
		--	--	(4)	7,000
Grand total		7,940	51,100,000	12,000	72,300,000

-- 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 MARCH 2022¹

(Metric tons, unless otherwise specified)

Type and country or locality	HTS ³ code	Gross weight	Value	January–March ²	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Canada		19	\$21,900	121	\$115,000
Mexico		--	--	19	7,330
United Kingdom		--	--	6	2,610
Total		19	21,900	145	124,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Canada		80	218,000	178	474,000
Mexico		5	10,000	26	49,200
Total		85	228,000	204	523,000
More than 2% carbon:	7202.11.0000				
Canada		62	203,000	83	258,000
Costa Rica		--	--	1	3,310
Mexico		--	--	41	186,000
Total		62	203,000	124	448,000
Ferrosilicon manganese:	7202.30.0000				
Canada		723	1,430,000	968	1,960,000
Mexico		15	40,600	15	40,600
Total		737	1,470,000	982	2,000,000
Metal, including alloys and waste and scrap:^{4,5}	8111.00.0000				
Canada		165	338,000	200	409,000
China		14	390,000	63	1,440,000
Costa Rica		(6)	9,180	1	26,900
France		--	--	14	53,400
Germany		--	--	5	24,200
India		59	35,600	59	35,600
Japan		20	140,000	45	300,000
Malaysia		--	--	82	44,300
Mexico		5	19,800	20	172,000
Norway		--	--	8	405,000
Other [4 countries and (or) localities]		(6)	7,240	(6)	13,600
Total		264	939,000	498	2,930,000
Grand total		1,170	2,860,000	1,950	6,020,000

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

⁵Includes manganese-aluminum, other alloys, and waste and scrap.

⁶Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN MARCH 2022¹

Compound	HTS ³ code	Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)	January–March 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	1,540	\$1,180	Slovakia 501; \$137.	3,970	\$3,510	South Africa 1,260; \$1,140.
Manganites, manganates, and other permanganates	2841.69.0090	2	37	Canada (all).	2	37	Canada (all).
Potassium permanganate	2841.61.0000	66	195	India 54, \$172.	193	531	India 181, \$508.
Sodium permanganate	2841.69.0010	100	286	India 81; \$221.	367	962	India 290; \$731.
Other sulfates, including manganese sulfate	2833.29.5100	7,620	7,190	China 4,100; \$3,500.	15,900	14,800	China 7,280; \$6,170.
Exports:							
Manganese dioxide	2820.10.0000	981	1,270	Canada 549; \$533.	2,050	2,440	Canada 1,320; \$1,160.
Manganese oxides other than dioxide	2820.90.0000	927	1,570	United Arab Emirates 361; \$516.	1,640	3,220	United Arab Emirates 361; \$516.
Manganites, manganates, and other permanganates	2841.69.0090	16	42	Canada 15, \$31.	48	113	Canada 46; \$95.
Potassium permanganate	2841.61.0000	286	884	Belgium 165, \$486.	904	2,710	Belgium 608, \$1,670.
Sodium permanganate	2841.69.0010	26	103	Belgium 19, \$56.	199	571	Belgium 172, \$479.
Other sulfates, including manganese sulfate	2833.29.9100	2,070	3,110	Canada 1,720; \$1,260.	5,070	8,560	Canada 3,980; \$3,650.

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.