

# Mineral Industry Surveys

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## MANGANESE IN APRIL 2022

On a gross-weight basis, U.S. imports of manganese ore in April 2022 were 45,200 metric tons (t), considerably more than the 449 t in March 2022 (fig. 1, table 5). The leading source of manganese ore, >20% – <47% grade, was Mexico and the leading source for >47% grade was Gabon. Total imports of manganese ore for the first four months of 2022 were 21% more than those during the same period in 2021.

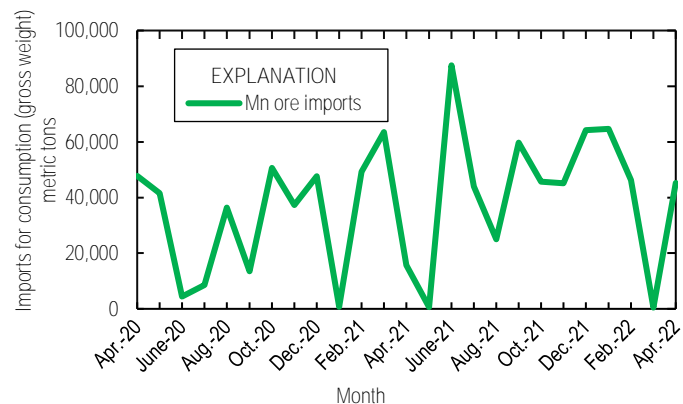


Figure 1. Monthly imports of manganese (Mn) ore from April 2020 through April 2022. Source: U.S. Census Bureau.

**Prices**

In April 2022, the average spot prices for manganese ore deliveries to China were \$5.37 per metric ton unit, 36%–38% grade, and \$7.92 per metric ton unit, 44% grade, 3% more and 15% more, respectively, than the March 2022 prices (fig. 2,

table 1). Compared with the monthly average prices in April 2021, the 36%–38%-grade price was 19% more, and the 44%-grade price was 57% more.

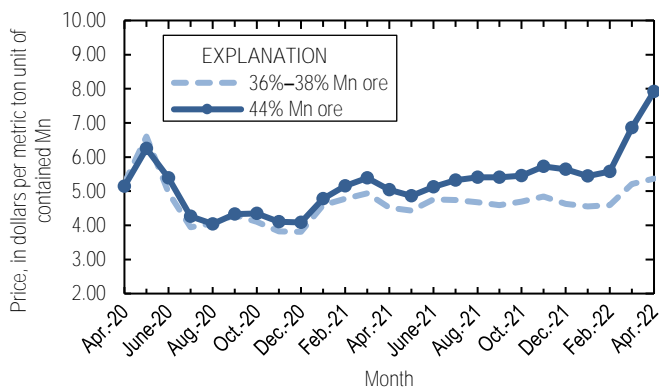


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from April 2020 through April 2022. Source: CRU Group.

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

		Low	Average	High
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	2,900.00	2,925.00	2,950.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	260.00	262.50	265.00
Silicomanganese, 65% manganese	do.	135.00	136.00	137.00
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	455.00	460.00	465.00
<b>Manganese ore:<sup>3,4</sup></b>				
36%–38% manganese	dollars per metric ton unit contained manganese	5.20	5.37	5.72
44% manganese	do.	7.77	7.92	8.00

do. Ditto.

<sup>1</sup>S&P Global Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

<sup>2</sup>CRU 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.

<sup>3</sup>CRU Group, cost, insurance, and freight, China. Average prices are the average of the month high and low range.

<sup>4</sup>To 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 MANGANESE<sup>1</sup>

(Metric tons)

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2021:						
April	16,700	22,800	39,500	52	1,230 <sup>r</sup>	1,280 <sup>r</sup>
January–April	131,000	189,000 <sup>r</sup>	320,000 <sup>r</sup>	261	5,470 <sup>r</sup>	5,730 <sup>r</sup>
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
April	45,300	106,000	152,000	136	722	858
January–April	159,000	290,000	449,000	281	2,410	2,690

<sup>r</sup>Revised.

<sup>1</sup>Data 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 APRIL 2022<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Country or locality <sup>4</sup>	Gross weight	Mn content	Value	January–April <sup>3</sup>		
				Gross weight	Mn content	Value
Australia	10,600	6,910	\$27,100,000	23,500	15,400	\$59,300,000
Georgia	17,600	12,900	37,900,000	49,800	36,500	108,000,000
India	380	228	1,030,000	10,700	6,920	16,800,000
Malaysia	2,600	1,690	5,700,000	10,300	6,700	19,500,000
Mexico	2,620	1,680	3,730,000	8,430	5,400	12,200,000
Norway	452	280	1,910,000	4,340	2,790	11,500,000
Russia	--	--	--	8,250	1,510	18,800,000
Singapore	--	--	--	239	157	480,000
Slovakia	--	--	--	30	20	56,300
South Africa	27,300	17,700	30,000,000	42,900	27,900	47,200,000
Other [1 country and (or) locality]	--	--	--	16	11	49,800
Total	61,600	41,400	107,000,000	159,000	103,000	293,000,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Includes Harmonized Tariff Schedule of the United States code 7202.30.0000.

<sup>3</sup>May include revisions to previously published data.

<sup>4</sup>Presentation of monthly data is based on the January–April quantities (gross weight) of the leading countries.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL 2022<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Mn content	Value	January–April <sup>2</sup>		
					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		110	89	\$185,000	690	559	1,620,000
Korea, Republic of		--	--	--	800	751	3,870,000
Mexico		--	--	--	58	47	77,600
Norway		1,410	1,140	2,380,000	12,800	10,400	34,100,000
South Africa		--	--	--	42	35	66,600
Spain		262	213	443,000	262	213	443,000
Total		1,780	1,450	3,010,000	14,700	12,000	40,200,000
Medium carbon, 1%–2% C:	7202.19.5000						
Korea, Republic of		--	--	--	8,800	7,040	25,700,000
Mexico		672	528	1,740,000	1,470	1,150	3,800,000
Norway		--	--	--	400	326	1,130,000
South Africa		7,830	6,150	27,500,000	11,100	8,740	36,400,000
Total		8,510	6,670	29,300,000	21,800	17,300	67,100,000
High carbon, over 4% C: <sup>4</sup>	7202.11.5000						
Australia		10,600	8,100	24,500,000	22,300	17,100	50,600,000
Brazil		--	--	--	188	138	329,000
Canada		--	--	--	30	21	89,200
India		1,310	835	1,490,000	12,900	9,680	21,100,000
Korea, Republic of		--	--	--	700	532	1,310,000
Malaysia		8,450	6,420	16,300,000	22,800	17,300	42,600,000
Mexico		--	--	--	100	70	185,000
Russia		9,190	7,040	18,000,000	16,900	12,900	33,600,000
South Africa		3,330	2,600	8,410,000	4,960	3,830	11,600,000
Zambia		--	--	--	425	327	653,000
Other [1 country and (or) locality]		--	--	--	3	2	2,730
Total		32,900	25,000	68,800,000	81,400	61,900	162,000,000
Grand total		43,200	33,100	101,000,000	118,000	91,100	269,000,000

-- Zero.

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

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Presentation of monthly data is based on the January–April 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 APRIL 2022<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Mn content	Value	January–April <sup>2</sup>		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		9,350	3,490	\$1,780,000	21,900	8,190	\$3,880,000
Netherlands		244	61	71,000	244	61	71,000
Slovakia		53	16	19,000	53	16	19,000
South Africa		422	195	118,000	46,600	18,700	7,100,000
Total		10,100	3,760	1,990,000	68,900	27,000	11,100,000
47% or more manganese:	2602.00.0060						
Gabon		34,900	22,300	7,760,000	87,000	54,800	19,400,000
Mexico		219	150	220,000	428	288	429,000
Netherlands		--	--	--	16	9	19,000
South Africa		--	--	--	319	154	125,000
Total		35,100	22,500	7,980,000	87,700	55,200	20,000,000
Grand total		45,200	26,200	9,960,000	157,000	82,200	31,100,000

-- Zero.

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

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.

TABLE 6  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE  
IN APRIL 2022<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–April <sup>3</sup>	
			Gross weight	Value
Brazil	--	--	46	\$58,200
Germany	--	--	5	28,400
Greece	--	--	297	744,000
Japan	120	\$381,000	1,820	4,730,000
Mexico	--	--	15	26,000
Spain	--	--	21	35,000
Total	120	381,000	2,200	5,620,000

-- Zero.

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

<sup>2</sup>Includes Harmonized Tariff Schedule of the United States code 2820.10.0000.

<sup>3</sup>May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL  
IN APRIL 2022<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–April <sup>2</sup>	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		65	\$402,000	1,730	\$10,700,000
India		25	148,000	25	148,000
Indonesia		--	--	48	351,000
Japan		13	486,000	15	1,930,000
Mexico		20	220,000	21	235,000
South Africa		262	802,000	1,440	8,510,000
Total		385	2,060,000	3,280	21,900,000
Unwrought powder:	8111.00.4910				
China		--	--	92	235,000
Mexico		(4)	2,860	32	185,000
South Africa		40	262,000	375	2,490,000
Total		40	265,000	500	2,910,000
Unwrought, other:	8111.00.4990				
China		686	2,320,000	8,710	48,600,000
Germany		23	186,000	332	1,730,000
South Africa		123	253,000	428	1,670,000
Spain		49	112,000	49	112,000
Total		881	2,870,000	9,520	52,100,000
Other manganese, wrought:	8111.00.6000				
China		2	4,400	8	90,200
Germany		4	64,700	23	342,000
Japan		(4)	3,840	(4)	6,300
Mexico		23	235,000	23	235,000
Sweden		28	471,000	43	732,000
Total		57	779,000	97	1,410,000
Metallic waste and scrap	8111.00.3000				
Canada		71	31,300	71	31,300
Japan		--	--	(4)	7,000
Total		71	31,300	71	38,300
Grand total		1,430	6,000,000	13,500	78,300,000

-- Zero.

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

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Less 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 APRIL 2022<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–April <sup>2</sup>	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Canada		--	--	121	\$115,000
Guyana		35	\$16,500	35	16,500
Mexico		87	30,500	106	37,800
Netherlands		14	64,800	14	64,800
United Kingdom		--	--	6	2,610
Total		136	112,000	281	236,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Canada		123	234,000	302	708,000
Mexico		--	--	26	49,200
Total		123	234,000	327	757,000
More than 2% carbon:	7202.11.0000				
Canada		20	101,000	103	359,000
Costa Rica		--	--	1	3,310
Mexico		--	--	41	186,000
Total		20	101,000	144	548,000
Ferrosilicon manganese:	7202.30.0000				
Canada		528	895,000	1,500	2,850,000
Mexico		--	--	15	40,600
Total		528	895,000	1,510	2,890,000
Metal, including alloys and waste and scrap: <sup>4, 5</sup>	8111.00.0000				
Canada		45	386,000	244	796,000
China		20	513,000	84	1,960,000
Costa Rica		1	26,300	1	53,200
France		--	--	14	53,400
Germany		--	--	5	24,200
India		--	--	59	35,600
Japan		--	--	45	300,000
Malaysia		2	91,000	84	135,000
Mexico		4	36,800	24	209,000
Norway		--	--	8	405,000
Other [4 countries and (or) localities]		(6)	5,060	(6)	18,600
Total		71	1,060,000	568	3,990,000
Grand total		878	2,400,000	2,830	8,420,000

-- Zero.

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

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Presentation of monthly data is based on the January–April quantities (gross weight) of the leading countries.

<sup>5</sup>Includes manganese-aluminum, other alloys, and waste and scrap.

<sup>6</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS  
IN APRIL 2022<sup>1</sup>

Compound	HTS <sup>3</sup> code	Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)	January–April <sup>2</sup>		
					Gross weight (metric tons)	Value (thousands)	Principal sources and destinations: gross weight (metric tons); value (thousands)
<b>Imports for consumption:</b>							
Manganese oxides other than dioxide	2820.90.0000	754	\$634	Mexico 495; \$388.	4,720	\$4,140	South Africa 1,260; \$1,140.
Manganites, manganates, and other permanganates	2841.69.0090	(4)	6	China (all).	2	43	Canada 2; \$37.
Potassium permanganate	2841.61.0000	18	53	India 18; \$51.	211	584	India 199; \$559.
Sodium permanganate	2841.69.0010	62	157	India (all).	430	1,120	India 353; \$888.
Other sulfates, including manganese sulfate	2833.29.5100	7,840	7,800	China 4,320; \$3,920.	23,800	22,600	China 11,600; \$10,100.
<b>Exports:</b>							
Manganese dioxide	2820.10.0000	932	1,000	Canada 656; \$555.	2,990	3,450	Canada 1,980; \$1,720.
Manganese oxides other than dioxide	2820.90.0000	599	933	United Arab Emirates 133; \$194.	2,230	4,150	United Arab Emirates 494; \$710.
Manganites, manganates, and other permanganates	2841.69.0090	26	59	Canada 26; \$56.	74	172	Canada 72; \$150.
Potassium permanganate	2841.61.0000	434	1,560	Belgium 289; \$868.	1,340	4,270	Belgium 897; \$2,530.
Sodium permanganate	2841.69.0010	210	636	Belgium 210; \$615.	409	1,210	Belgium 382; \$1,090.
Other sulfates, including manganese sulfate	2833.29.9100	1,890	2,200	Canada 1,520; \$1,220.	6,970	10,800	Canada 5,500; \$4,880.

<sup>1</sup>Data are rounded to no more than three significant digits.

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.