

# Mineral Industry Surveys

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## MANGANESE IN MAY 2021

On a gross-weight basis, U.S. imports of manganese ore in May 2021 were 644 metric tons (t), a decrease from 15,700 t in April 2021 (fig. 1, table 5). Imports for the first 5 months of 2021 were 23% less than those during the same period in 2020.

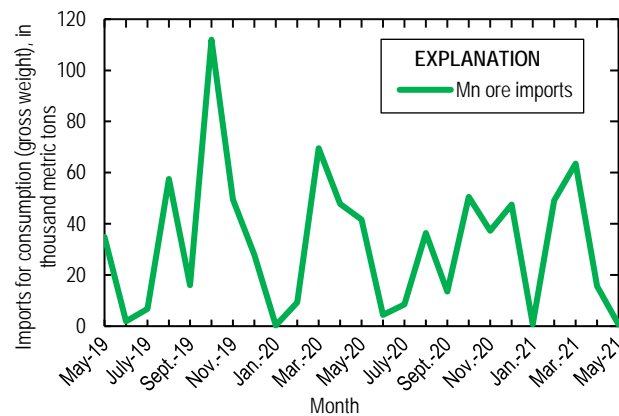


Figure 1. Monthly imports of manganese (Mn) ore from May 2019 through May 2021. Source: U.S. Census Bureau.

**Prices**

In May 2021, the average spot prices for manganese ore deliveries to China were \$4.43 per metric ton unit, 36%–38% grade, and \$4.86 per metric ton unit, 44% grade, slightly less and 4% less, respectively, than the April 2021 prices (fig. 2, table 1). Compared with the monthly average prices in May

2020, the 36%–38% grade price was 33% less and the 44% grade price was 22% less.

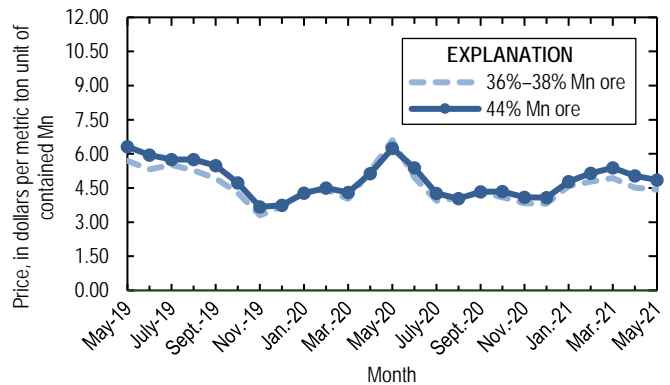


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from May 2019 through May 2021. Source: CRU Group.

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

		Low	Average	High
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,682.50	1,701.25	1,720.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	134.00	135.00	136.00
Silicomanganese, 65% manganese	do.	72.75	73.38	74.00
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	132.00	149.19	163.00
<b>Manganese ore:<sup>3,4</sup></b>				
36%–38% manganese	dollars per metric ton unit contained manganese	4.25	4.43	4.55
44% manganese	do.	4.80	4.86	4.95

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
2020:						
May	42,000 <sup>r</sup>	64,600 <sup>r</sup>	107,000 <sup>r</sup>	241 <sup>r</sup>	379 <sup>r</sup>	621 <sup>r</sup>
January–May	171,000 <sup>r</sup>	293,000 <sup>r</sup>	464,000 <sup>r</sup>	474 <sup>r</sup>	4,130 <sup>r</sup>	4,610 <sup>r</sup>
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
January–May	132,000	243,000	375,000	673	10,500	11,100

<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 MAY 2021<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Mn content	Value	January–May <sup>3</sup>		
				Gross weight	Mn content	Value
Australia	7,500	4,920	\$10,100,000	20,100	13,200	\$24,400,000
Brazil	--	--	--	913	603	983,000
Georgia	12,700	9,360	14,500,000	26,600	19,600	28,200,000
Malaysia	263	172	322,000	10,600	6,920	11,300,000
Mexico	144	92	155,000	2,270	1,470	2,600,000
Norway	1,150	698	1,850,000	10,600	6,570	13,600,000
Romania	--	--	--	20	13	25,400
Russia	--	--	--	2,690	469	3,370,000
South Africa	7,800	5,040	7,410,000	28,600	18,600	27,200,000
Total	29,500	20,300	34,400,000	102,000	67,400	112,000,000

-- 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.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MAY 2021<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Mn content	Value	January–May <sup>2</sup>		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada		2	2	\$3,260	2	2	\$3,260
India		--	--	--	1	1	2,400
Japan		25	20	45,000	412	332	611,000
Norway		2,070	1,680	3,570,000	15,200	12,400	23,400,000
South Africa		107	100	196,000	323	284	484,000
Total		2,200	1,800	3,810,000	16,000	13,000	24,500,000
Medium carbon, 1%–2% C:	7202.19.5000						
Japan		--	--	--	96	77	149,000
Korea, Republic of		2,090	1,670	3,530,000	8,600	6,890	13,500,000
Mexico		--	--	--	690	518	1,060,000
Norway		300	245	519,000	2,250	1,840	2,910,000
South Africa		1,970	1,590	2,680,000	7,330	5,880	9,960,000
Total		4,350	3,500	6,720,000	19,000	15,200	27,600,000
High carbon, over 4% C: <sup>4</sup>	7202.11.5000						
Australia		--	--	--	21,100	16,100	26,000,000
France		366	282	550,000	588	454	882,000
India		1,670	1,060	1,620,000	7,940	5,700	7,870,000
Korea, Republic of		2,000	1,520	2,600,000	9,000	6,980	10,900,000
Malaysia		5,350	4,060	4,610,000	26,900	20,400	21,600,000
Norway		--	--	--	500	395	371,000
Russia		2,480	940	3,180,000	6,250	3,890	6,860,000
South Africa		5,750	4,330	6,290,000	12,500	9,500	13,100,000
Switzerland		--	--	--	2,310	1,760	2,170,000
Zambia		191	148	221,000	490	379	553,000
Other [3 countries and (or) localities]		120	84	111,000	389	282	397,000
Total		17,900	12,400	19,200,000	88,000	65,900	90,700,000
Grand total		24,500	17,700	29,700,000	123,000	94,100	143,000,000

-- 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–May 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 MAY 2021<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Mn content	Value	January–May <sup>2</sup>		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		--	--	--	12,600	4,790	\$1,810,000
South Africa		188	87	\$45,000	14,400	5,840	2,210,000
Total		188	87	45,000	27,100	10,600	4,020,000
47% or more manganese:	2602.00.0060						
France		--	--	--	1	1	2,020,000
Gabon		--	--	--	101,000	55,900	18,500,000
Morocco		456	286	204,000	1,320	748	582,000
South Africa		--	--	--	700	340	266,000
Total		456	286	204,000	103,000	57,000	21,400,000
Grand total		644	373	249,000	130,000	67,600	25,400,000

-- 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 MAY 2021<sup>1, 2, 3</sup>

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–May <sup>4</sup>	
			Gross weight	Value
Belgium	19	\$55,100	37	\$144,000
Brazil	35	40,200	100	120,000
Canada	--	--	22	34,300
China	36	146,000	37	153,000
Greece	--	--	611	1,360,000
Japan	178	394,000	1,320	3,030,000
Mexico	21	35,600	42	71,200
Morocco	--	--	19	23,900
South Africa	38	89,800	285	659,000
Spain	14	23,300	45	75,800
Other [2 countries and (or) localities]	18	62,800	21	82,200
Total	359	847,000	2,540	5,760,000

-- 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>Presentation of monthly data is based on the January–May quantities (gross weight) of the leading countries.

<sup>4</sup>May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MAY 2021<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–May <sup>2</sup>	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		19	\$27,600	2,450	\$4,030,000
Japan		(4)	144,000	1	1,100,000
Mexico		2	6,900	2	6,900
South Africa		530	1,290,000	2,050	4,540,000
Total		551	1,470,000	4,500	9,670,000
Unwrought powder:	8111.00.4910				
China		73	62,100	153	201,000
South Africa		243	582,000	770	1,930,000
United Kingdom		--	--	(4)	4,000
Total		316	644,000	923	2,130,000
Unwrought, other:	8111.00.4990				
China		3,560	7,470,000	9,470	17,100,000
Germany		97	207,000	656	1,350,000
South Africa		20	43,100	183	423,000
Total		3,680	7,720,000	10,300	18,900,000
Other manganese, wrought:	8111.00.6000				
Canada		--	--	(4)	7,540
China		4	16,300	10	40,300
Germany		19	270,000	93	1,340,000
Japan		(4)	18,100	(4)	18,100
Mexico		--	--	45	160,000
Sweden		3	45,000	16	245,000
United Kingdom		--	--	(4)	9,720
Total		25	350,000	164	1,820,000
Metallic waste and scrap	8111.00.3000				
Canada		36	14,700	208	85,500
Japan		--	--	4	20,600
Total		36	14,700	212	106,000
Grand total		4,610	10,200,000	16,100	32,600,000

-- 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 MAY 2021<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–May <sup>2</sup>	
				Gross weight	Value
<b>Ore and concentrates with 20% or more manganese:</b>	<b>2602.00.0000</b>				
Belgium		--	--	20	\$57,100
Canada		389	\$202,000	472	287,000
India		--	--	39	70,000
Mexico		10	10,000	104	70,500
Netherlands		14	52,500	14	52,500
United Kingdom		--	--	25	15,000
Total		412	265,000	673	552,000
<b>Ferromanganese:</b>	<b>7202.19.0000</b>				
<b>2% or less carbon:</b>					
Argentina		--	--	218	427,000
Canada		516	998,000	2,080	3,400,000
Chile		--	--	20	33,900
Romania		--	--	2	4,490
Uruguay		--	--	5	8,620
Total		516	998,000	2,330	3,880,000
<b>More than 2% carbon:</b>	<b>7202.11.0000</b>				
Australia		--	--	1	3,960
Canada		184	172,000	3,410	3,740,000
Chile		--	--	10	28,000
China		--	--	15	42,200
Costa Rica		1	3,030	1	3,030
Finland		--	--	2	6,930
Indonesia		--	--	3	9,200
Total		185	175,000	3,440	3,830,000
<b>Ferrosilicon manganese</b>	<b>7202.30.0000</b>				
Canada		20	39,200	2,060	2,520,000
Colombia		--	--	203	299,000
Honduras		--	--	2	5,100
Peru		--	--	190	279,000
Total		20	39,200	2,460	3,100,000
<b>Metal, including alloys and waste and scrap:<sup>4,5</sup></b>	<b>8111.00.0000</b>				
Canada		191	748,000	379	1,450,000
Dominican Republic		--	--	48	130,000
Germany		--	--	67	385,000
India		--	--	20	12,300
Japan		40	150,000	50	185,000
Korea, Republic of		--	--	25	9,140
Malaysia		672	288,000	1,460	593,000
Netherlands		13	640,000	25	658,000
Turkey		--	--	29	10,600
Vietnam		--	--	100	80,000
Other [10 countries and (or) localities]		14	89,500	31	615,000
Total		930	1,920,000	2,230	4,130,000
<b>Grand total</b>		<b>2,060</b>	<b>3,390,000</b>	<b>11,100</b>	<b>15,500,000</b>

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

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

Source: U.S. Census Bureau.

TABLE 9  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 2021<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–May <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	1,950	\$1,390	India 1,300; \$915.	12,400	\$8,660	India 6,400; \$4,320.
Manganites, manganates, and other permanganates	2841.69.0090	3	50	Korea, Republic of 3; \$50.	18	300	Korea, Republic of 18; \$300.
Potassium permanganate	2841.61.0000	123	265	India 123; \$259.	341	761	India 318; \$710.
Sodium permanganate	2841.69.0010	113	159	China 113; \$159.	478	751	China 401; \$600.
Other sulfates, including manganese sulfate	2833.29.5100	7,360	5,820	China 2,400; \$1,280.	31,100	24,100	China 9,680; \$6,110.
<b>Exports:</b>							
Manganese dioxide	2820.10.0000	1,050	1,250	Canada 555; \$411.	3,830	4,440	Canada 2,430; \$1,770.
Manganese oxides other than dioxide	2820.90.0000	695	1,270	United Arab Emirates 342; \$489.	2,850	5,660	United Arab Emirates 1,080; \$1,550.
Manganites, manganates, and other permanganates	2841.69.0090	38	110	Canada 38; \$85.	82	227	Canada 80; \$176.
Potassium permanganate	2841.61.0000	392	1,120	Belgium 181; \$464.	1,250	3,650	Belgium 506; \$1,290.
Sodium permanganate	2841.69.0010	62	183	Belgium 58; \$131.	221	606	Belgium 172; \$390.
Other sulfates, including manganese sulfate	2833.29.9100	1,650	4,430	Canada 789; \$595.	8,130	18,900	Canada 4,390; \$3,850.

<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.

Source: U.S. Census Bureau.