

# Mineral Industry Surveys

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## MANGANESE IN JULY 2020

On a gross-weight basis, U.S. imports of manganese ore in July 2020 were 8,540 metric tons (t), an increase from 4,400 t in June 2020 (fig. 1, table 5). Total imports of manganese ore during the first 7 months of 2020 were 182,000 t, 6% more than those during the same period in 2019.

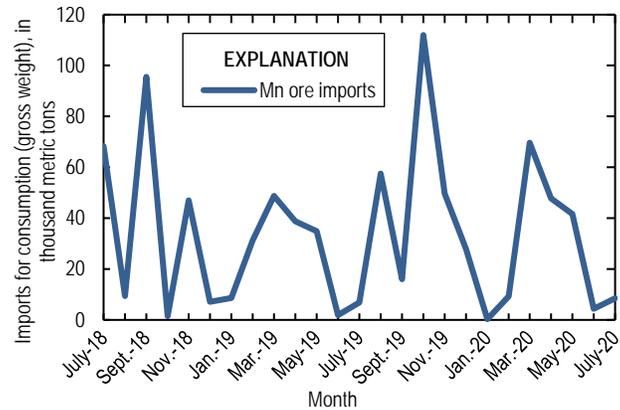


Figure 1. Monthly imports of manganese (Mn) ore from July 2018 through July 2020. Source: U.S. Census Bureau.

In July 2020, the average spot prices for manganese ore deliveries to China were \$3.94 per metric ton unit, 36%–38% grade, and \$4.26 per metric ton unit, 44% grade (fig. 2, table 1). Compared with June 2020 prices, the 36%–38%-grade and the 44%-grade price were each 21% less, respectively. Compared with the monthly average prices in July 2019, the 36%–38%-

grade price was 29% less and the 44%-grade price was 26% less.

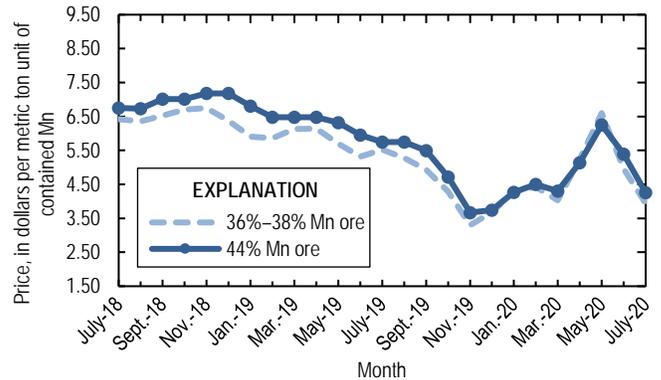


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from July 2018 through July 2020. Source: CRU Group.

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TABLE 1  
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JULY 2020

		Low	Average	High
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,000.00	1,050.00	1,100.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	87.00	91.00	95.00
Silicomanganese, 65% manganese	do.	48.00	49.50	51.00
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	85.00	89.00	93.00
<b>Manganese ore:<sup>3,4</sup></b>				
36%-38% manganese	dollars per metric ton unit contained manganese	3.80	3.94	4.50
44% manganese	do.	3.95	4.26	5.10

do. Ditto.

<sup>1</sup>S&P Global Platts; 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, manganese content)<sup>2</sup>

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2019:						
July	3,400	29,500 <sup>r</sup>	32,900 <sup>r</sup>	96	1,600 <sup>r</sup>	1,700
January–July	91,400	332,000 <sup>r</sup>	423,000 <sup>r</sup>	330 <sup>r</sup>	9,650 <sup>r</sup>	9,990 <sup>r</sup>
2020:						
January	460 <sup>r</sup>	51,800	52,300	20	670	690
February	1,530	38,000	39,500	8	980 <sup>r</sup>	990 <sup>r</sup>
March	32,300	50,500	82,700	40	940 <sup>r</sup>	980 <sup>r</sup>
April	27,800	25,600	53,400	49	860	910 <sup>r</sup>
May	21,000	46,400	67,400	120 <sup>r</sup>	310 <sup>r</sup>	430 <sup>r</sup>
June	2,310	15,000	17,300	18	720 <sup>r</sup>	740 <sup>r</sup>
July	2,060	6,110	8,170	38	1,750	1,790
January–July	87,500	233,000	321,000	293	6,240	6,530

<sup>r</sup>Revised.

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

<sup>2</sup>As reported except as estimated from gross weights for imports of manganese dioxide and manganese metals and for exports of manganese ores and concentrates and manganese waste and scrap.

Source: U.S. Census Bureau.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2020<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Value	January–July <sup>3</sup>		
				Gross weight	Mn content	Value
Australia	--	--	--	31,500	20,900	\$31,800,000
Brazil	--	--	--	412	269	391,000
Georgia	430	310	\$421,000	49,800	35,800	56,500,000
India	--	--	--	25	15	27,700
Kazakhstan	24	16	20,700	24	16	20,700
Korea, Republic of	100	70	89,100	220	153	227,000
Malaysia	871	567	706,000	10,600	6,900	9,130,000
Mexico	72	46	66,200	6,350	4,130	5,690,000
Norway	20	12	39,900	8,420	4,530	10,200,000
Oman	480	316	481,000	1,390	912	1,320,000
Russia	--	--	--	2,850	1,210	2,850,000
South Africa	--	--	--	37,700	23,000	35,800,000
Total	2,000	1,340	1,820,000	149,000	97,800	154,000,000

-- 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 JULY 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>4</sup> code	Gross weight	Mn content	Value	January–July <sup>2, 3</sup>		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
China		--	--	--	6	6	\$14,400
Germany		--	--	--	4	4	10,600
Japan		64	51	\$96,600	479	383	723,000
Korea, Republic of		--	--	--	4,010	3,690	7,180,000
Mexico		--	--	--	318	253	461,000
Norway		18	15	47,200	16,200	13,200	23,700,000
South Africa		57	54	102,000	360	324	607,000
Total		139	120	246,000	21,400	17,800	32,700,000
Medium carbon, 1%–2% C:	7202.19.5000						
Brazil		--	--	--	540	430	497,000
India		--	--	--	301	241	419,000
Korea, Republic of		--	--	--	16,700	13,300	21,200,000
Mexico		--	--	--	970	739	1,470,000
Norway		--	--	--	439	357	609,000
South Africa		--	--	--	9,850	7,890	14,000,000
Total		--	--	--	28,800	23,000	38,200,000
High carbon, over 4% C:	7202.11.5000						
Australia		--	--	--	20,700	15,800	18,300,000
Brazil		--	--	--	1,150	847	1,030,000
France		--	--	--	748	571	857,000
India		289	218	284,000	1,750	1,320	1,580,000
Korea, Republic of		92	6	96,400	3,090	2,290	2,610,000
Malaysia		217	165	208,000	40,500	30,700	32,400,000
Russia		--	--	--	22,600	17,200	19,800,000
Saudi Arabia		--	--	--	100	75	118,000
South Africa		3,270	2,410	2,990,000	15,700	11,800	15,300,000
Zambia		--	--	--	238	81	185,000
Other [2 countries and (or) localities]		--	--	--	33	21	58,700
Total		3,870	2,800	3,570,000	107,000	80,700	92,300,000
Grand total		4,010	2,920	3,820,000	157,000	121,000	163,000,000

-- Zero.

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

<sup>2</sup>Presentation of monthly data is based on the January–July (gross weight) quantities of the leading countries.

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

<sup>4</sup>Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn)  
IN JULY 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Mn content	Value	January–July <sup>2</sup>		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		8,000	1,720	\$1,430,000	32,300	8,950	\$6,740,000
South Africa		260	122	65,800	40,300	16,400	5,770,000
Total		8,260	1,840	1,500,000	72,600	25,300	12,500,000
47% or more manganese:	2602.00.0060						
Belgium		--	--	--	18	9	21,300
Brazil		--	--	--	488	241	312,000
Gabon		--	--	--	107,000	59,200	25,400,000
Morocco		48	23	23,200	552	348	245,000
South Africa		200	97	87,800	500	243	220,000
Ukraine		31	15	2,510,000	31	15	2,510,000
Total		279	135	2,620,000	109,000	60,100	28,800,000
Grand total		8,540	1,980	4,120,000	182,000	85,400	41,300,000

-- 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.

Source: U.S. Census Bureau.

TABLE 6  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE  
IN JULY 2020<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–July <sup>3</sup>	
			Gross weight	Value
Belgium	19	\$89,200	37	\$178,000
Brazil	--	--	49	74,200
Canada	--	--	5	20,700
China	--	--	1	6,480
Germany	--	--	14	75,100
India	--	--	37	69,200
Japan	70	164,000	2,940	6,740,000
Mexico	10	17,800	42	71,200
Morocco	--	--	180	306,000
Spain	41	70,000	86	146,000
Total	140	340,000	3,390	7,690,000

-- 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 JULY 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–July <sup>2</sup>	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		110	\$174,000	1,770	\$3,110,000
Japan		(4)	203,000	1	1,220,000
Singapore		--	--	48	73,200
South Africa		82	181,000	1,360	2,850,000
Total		192	557,000	3,170	7,260,000
Unwrought powder:	8111.00.4910				
China		(4)	6,000	58	105,000
Germany		--	--	(4)	6,100
Mexico		2	7,080	82	304,000
South Africa		102	199,000	498	1,240,000
Total		104	212,000	638	1,660,000
Unwrought, other:	8111.00.4990				
Belgium		--	--	56	106,000
China		1,270	2,010,000	7,620	12,300,000
Germany		167	308,000	609	1,200,000
Luxembourg		--	--	306	526,000
Poland		--	--	(4)	6,150
South Africa		77	199,000	599	1,290,000
Spain		--	--	33	54,600
Total		1,510	2,520,000	9,220	15,500,000
Other manganese, wrought:	8111.00.6000				
China		--	--	486	932,000
Germany		14	192,000	84	1,100,000
Japan		(4)	11,300	(4)	11,300
Luxembourg		--	--	44	175,000
Mexico		--	--	269	613,000
Sweden		10	130,000	25	329,000
United Kingdom		--	--	(4)	2,370
Total		24	333,000	908	3,170,000
Metallic waste and scrap:	8111.00.3000				
Canada		35	6,140	381	108,000
Japan		--	--	(4)	6,850
Mexico		--	--	2	5,060
Total		35	6,140	383	120,000
Grand total		1,870	3,630,000	14,300	27,700,000

-- 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 JULY 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>4</sup> code	Gross weight	Value	January–July <sup>2,3</sup>	
				Gross weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Belgium		--	--	285	\$393,000
Canada		21	\$24,000	127	120,000
Japan		--	--	40	70,600
Mexico		--	--	23	20,400
Netherlands		16	82,200	64	241,000
St. Lucia		--	--	6	27,800
United Kingdom		40	25,300	40	25,300
Total		77	131,000	586	898,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Canada		512	697,000	1,070	1,490,000
Israel		--	--	34	65,400
Total		512	697,000	1,100	1,550,000
More than 2% carbon:	7202.11.0000				
Canada		43	52,700	1,120	1,020,000
Costa Rica		3	12,300	3	12,300
India		--	--	59	78,000
Total		46	65,000	1,190	1,110,000
Ferrosilicon manganese:	7202.30.0000				
Canada		313	404,000	771	962,000
Mexico		20	36,500	59	109,000
Turkey		--	--	1	3,360
Total		333	440,000	830	1,070,000
Metal, including alloys and waste and scrap: <sup>5</sup>	8111.00.0000				
Brazil		--	--	17	881,000
Canada		7	30,900	40	174,000
France		--	--	18	6,530
Germany		--	--	76	127,000
India		462	128,000	482	134,000
Israel		--	--	16	62,500
Japan		<sup>(6)</sup>	2,520	52	177,000
Malaysia		572	236,000	3,000	1,420,000
South Africa		--	--	39	197,000
Turkey		48	17,800	121	44,900
Other [11 countries and (or) localities]		3	25,300	31	572,000
Total		1,090	441,000	3,890	3,800,000
Grand total		2,060	1,770,000	7,590	8,430,000

-- Zero.

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

<sup>2</sup>Presentation of monthly data is based on the January–July quantities (gross weight) of the leading countries.

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

<sup>4</sup>Harmonized Tariff Schedule of the United States.

<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 JULY 2020<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–July <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	2,210	\$1,510	South Africa 948; \$603.	8,980	\$6,200	South Africa 4,090; \$2,520.
Manganites, manganates, and other permanganates	2841.69.0090	23	86	India 21; \$49.	64	285	India 21; \$49.
Potassium permanganate	2841.61.0000	126	296	India 126; \$291.	410	992	India 402; \$944.
Sodium permanganate	2841.69.0010	38	61	China 38; \$61.	655	1,160	China 655; \$1,160.
Other sulfates, including manganese sulfate	2833.29.5100	6,920	4,610	China 3,080; \$1,880.	47,700	35,500	Mexico 15,400; \$11,400.
<b>Exports:</b>							
Manganese dioxide	2820.10.0000	514	751	Canada 244; \$240.	3,700	4,860	Canada 2,310; \$1,890.
Manganese oxides other than dioxide	2820.90.0000	370	597	United Arab Emirates 190; \$272.	3,280	6,410	United Arab Emirates 665; \$978.
Manganites, manganates, and other permanganates	2841.69.0090	3	6	Canada 3; \$6.	56	134	Canada 54; \$104.
Potassium permanganate	2841.61.0000	108	326	Brazil 54; \$125.	1,730	4,760	Belgium 705; \$1,670.
Sodium permanganate	2841.69.0010	1	21	Korea, Republic of 1; \$16.	298	913	Belgium 210; \$444.
Other sulfates, including manganese sulfate	2833.29.9100	1,410	2,500	Canada 1,040; \$637.	12,500	21,000	Canada 8,050; \$5,780.

<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.