

# Mineral Industry Surveys

**For information, contact:**

Emily K. Schnebele, Acting Manganese Commodity Specialist  
 National Minerals Information Center  
 U.S. Geological Survey  
 989 National Center  
 Reston, VA 20192  
 Telephone: (703) 648-4945, Fax: (703) 648-7757  
 Email: eschnebele@usgs.gov

Benjamin N. Bryden (Data)  
 Telephone: (703) 648-7953  
 Fax: (703) 648-7975  
 Email: bbryden@usgs.gov

**Internet:** <https://www.usgs.gov/centers/nmic>

## MANGANESE IN AUGUST 2020

On a gross-weight basis, U.S. imports of manganese ore in August 2020 were 36,400 metric tons (t), an increase from 8,540 t in July 2020 (fig. 1, table 5). Total imports of manganese ore during the first 8 months of 2020 were 218,000 t, 5% less than those during the same period in 2019.

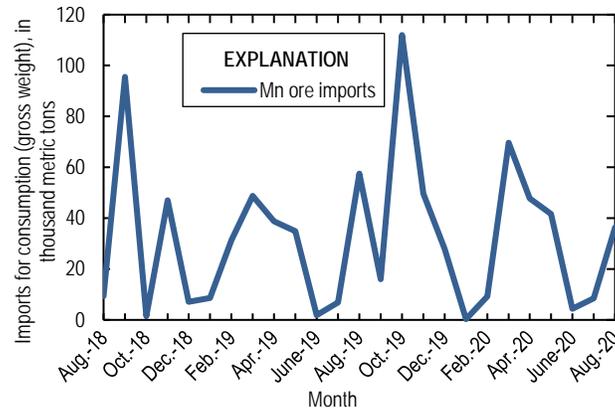


Figure 1. Monthly imports of manganese (Mn) ore from August 2018 through August 2020. Source: U.S. Census Bureau.

In August 2020, the average spot prices for manganese ore deliveries to China were \$4.06 per metric ton unit, 36%–38% grade, and \$4.04 per metric ton unit, 44% grade (fig. 2, table 1). Compared with July 2020 prices, the 36%–38%-grade price was 3% more and the 44%-grade price was 5% less. Compared with

the monthly average prices in August 2019, the 36%–38%-grade price was 23% less and the 44%-grade price was 30% less.

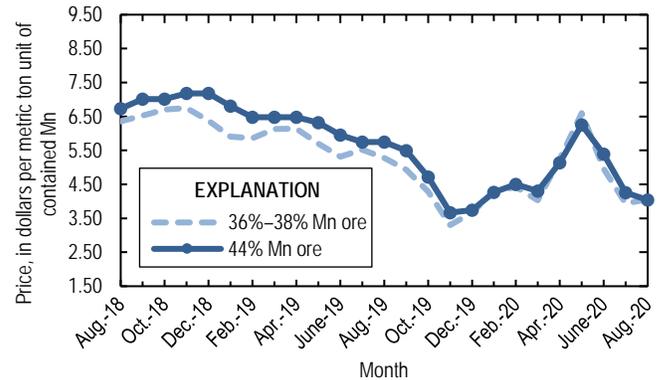


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from August 2018 through August 2020. Source: CRU Group.

*List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to <https://www.usgs.gov/centers/nmic/minerals-information-publication-list-services>.*

TABLE 1  
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN AUGUST 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.	48.50	49.25	50.00
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	85.00	89.94	94.00
<b>Manganese ore:<sup>3,4</sup></b>				
36%-38% manganese	dollars per metric ton unit contained manganese	3.80	4.06	4.25
44% manganese	do.	3.95	4.04	4.10

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:						
August	30,500	52,900	83,400	11	1,250 <sup>r</sup>	1,260 <sup>r</sup>
January–August	122,000 <sup>r</sup>	385,000 <sup>r</sup>	507,000 <sup>r</sup>	340	10,900	11,200 <sup>r</sup>
2020:						
January	460	51,800	52,300	20	670	690
February	1,530	38,000	39,500	8	980	990
March	32,300	50,500	82,700	40	940	980
April	27,800	25,600	53,400	49	860	910
May	21,000	46,400	67,400	120	310	430
June	2,310	15,000	17,300	18	720	740
July	2,060	6,110	8,170	38	1,750	1,790
August	18,500	12,300	30,800	43	1,130	1,170
January–August	106,000	246,000	352,000	340	7,370	7,700

<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 AUGUST 2020<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Value	January–August <sup>3</sup>		
				Gross weight	Mn content	Value
Australia	8,510	5,580	\$8,040,000	40,100	26,500	\$39,800,000
Brazil	--	--	--	412	269	391,000
Georgia	688	496	662,000	50,500	36,300	57,100,000
India	--	--	--	25	15	27,700
Kazakhstan	--	--	--	24	16	20,700
Korea, Republic of	--	--	--	220	153	227,000
Malaysia	--	--	--	10,600	6,900	9,130,000
Mexico	144	94	132,000	6,500	4,220	5,830,000
Norway	2,540	1,090	3,000,000	11,000	5,630	13,200,000
Oman	--	--	--	1,390	912	1,320,000
Russia	--	--	--	2,850	1,210	2,850,000
South Africa	--	--	--	37,700	23,000	35,800,000
Total	11,900	7,260	11,800,000	161,000	105,000	166,000,000

-- 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 AUGUST 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–August <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		--	--	--	479	383	723,000
Korea, Republic of		--	--	--	4,010	3,690	7,180,000
Mexico		--	--	--	318	253	461,000
Norway		2,600	2,110	\$3,470,000	18,800	15,300	27,200,000
South Africa		136	130	234,000	496	454	841,000
Total		2,740	2,240	3,700,000	24,100	20,100	36,400,000
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		300	244	341,000	739	600	950,000
South Africa		20	15	39,900	9,870	7,910	14,000,000
Total		320	259	381,000	29,100	23,200	38,600,000
High carbon, over 4% C:	7202.11.5000						
Australia		--	--	--	20,700	15,800	18,300,000
Brazil		107	70	91,500	1,260	917	1,120,000
France		--	--	--	748	571	857,000
India		--	--	--	1,750	1,320	1,580,000
Korea, Republic of		--	--	--	3,090	2,290	2,610,000
Malaysia		16	10	26,000	40,500	30,700	32,400,000
Russia		--	--	--	22,600	17,200	19,800,000
Saudi Arabia		--	--	--	100	75	118,000
South Africa		1,420	1,060	1,360,000	17,100	12,900	16,700,000
Zambia		--	--	--	238	81	185,000
Other [3 countries and (or) localities]		2	1	4,530	34	22	63,200
Total		1,540	1,150	1,480,000	108,000	81,800	93,700,000
Grand total		4,600	3,640	5,560,000	161,000	125,000	169,000,000

-- 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–August (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 AUGUST 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–August <sup>2</sup>		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		--	--	--	32,300	8,950	\$6,740,000
South Africa		858	402	\$217,000	41,100	16,800	5,980,000
Total		858	402	217,000	73,400	25,700	12,700,000
47% or more manganese:	2602.00.0060						
Belgium		--	--	--	18	9	21,300
Brazil		--	--	--	488	241	312,000
Gabon		35,200	17,800	9,110,000	143,000	77,100	34,600,000
Mexico		11	10	2,000,000	11	10	2,000,000
Morocco		192	120	85,000	744	467	330,000
South Africa		100	49	43,900	600	291	263,000
Ukraine		--	--	--	31	15	2,510,000
Total		35,500	18,000	11,200,000	144,000	78,100	40,000,000
Grand total		36,400	18,400	11,500,000	218,000	104,000	52,700,000

-- 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.

Source: U.S. Census Bureau.

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

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–August <sup>3</sup>	
			Gross weight	Value
Belgium	--	--	37	\$178,000
Brazil	--	--	49	74,200
Canada	--	--	5	20,700
China	--	--	1	6,480
Germany	--	--	14	75,100
Greece	50	\$118,000	50	118,000
India	--	--	37	69,200
Japan	54	126,000	2,990	6,870,000
Mexico	10	17,800	52	89,000
Morocco	19	32,100	199	338,000
Spain	21	35,000	107	181,000
Total	153	329,000	3,540	8,020,000

-- 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 AUGUST 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–August <sup>2</sup>	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		--	--	1,770	\$3,110,000
Japan		(4)	\$140,000	1	1,360,000
Singapore		--	--	48	73,200
South Africa		204	422,000	1,560	3,270,000
Total		204	562,000	3,380	7,820,000
Unwrought powder:	8111.00.4910				
China		21	56,700	79	162,000
Germany		--	--	(4)	6,100
Mexico		4	12,500	86	317,000
South Africa		102	264,000	600	1,510,000
Total		126	333,000	764	1,990,000
Unwrought, other:	8111.00.4990				
Belgium		--	--	56	106,000
China		832	1,300,000	8,450	13,600,000
Germany		11	25,900	620	1,230,000
Luxembourg		--	--	306	526,000
Poland		--	--	(4)	6,150
South Africa		200	314,000	799	1,610,000
Spain		--	--	33	54,600
Total		1,040	1,640,000	10,300	17,100,000
Other manganese, wrought:	8111.00.6000				
China		(4)	3,410	486	936,000
Germany		32	449,000	116	1,550,000
Japan		--	--	(4)	11,300
Luxembourg		--	--	44	175,000
Mexico		--	--	269	613,000
Sweden		3	48,900	28	378,000
United Kingdom		(4)	2,370	(4)	4,730
Total		36	503,000	944	3,670,000
Metallic waste and scrap:	8111.00.3000				
Canada		--	--	381	108,000
Japan		--	--	(4)	6,850
Mexico		--	--	2	5,060
Total		--	--	383	120,000
Grand total		1,410	3,040,000	15,700	30,700,000

-- 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 AUGUST 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>4</sup> code	Gross weight	Value	January–August <sup>2,3</sup>	
				Gross weight	Value
<b>Ore and concentrates with 20% or more manganese:</b>	<b>2602.00.0000</b>				
Belgium		20	\$57,100	305	\$450,000
Canada		65	62,900	192	183,000
Ireland		2	10,400	2	10,400
Japan		--	--	40	70,600
Mexico		--	--	23	20,400
Netherlands		--	--	64	241,000
St. Lucia		--	--	6	27,800
United Kingdom		--	--	40	25,300
<b>Total</b>		<b>86</b>	<b>130,000</b>	<b>672</b>	<b>1,030,000</b>
<b>Ferromanganese:</b>	<b>7202.19.0000</b>				
<b>2% or less carbon:</b>					
Canada		--	--	1,070	1,490,000
Dominican Republic		10	24,900	10	24,900
Israel		--	--	34	65,400
<b>Total</b>		<b>10</b>	<b>24,900</b>	<b>1,110</b>	<b>1,580,000</b>
<b>More than 2% carbon:</b>	<b>7202.11.0000</b>				
Canada		242	281,000	1,360	1,300,000
Costa Rica		--	--	3	12,300
India		--	--	59	78,000
<b>Total</b>		<b>242</b>	<b>281,000</b>	<b>1,430</b>	<b>1,390,000</b>
<b>Ferrosilicon manganese:</b>	<b>7202.30.0000</b>				
Canada		380	445,000	1,150	1,410,000
Mexico		20	36,500	78	146,000
Turkey		--	--	1	3,360
<b>Total</b>		<b>399</b>	<b>482,000</b>	<b>1,230</b>	<b>1,560,000</b>
<b>Metal, including alloys and waste and scrap:<sup>5</sup></b>	<b>8111.00.0000</b>				
Brazil		--	--	17	881,000
Canada		--	--	40	174,000
France		--	--	18	6,530
Germany		--	--	76	127,000
India		7	55,100	489	189,000
Israel		--	--	16	62,500
Japan		--	--	52	177,000
Malaysia		633	297,000	3,630	1,720,000
South Africa		--	--	39	197,000
Turkey		31	11,500	152	56,400
Other [11 countries and (or) localities]		1	22,800	32	594,000
<b>Total</b>		<b>672</b>	<b>387,000</b>	<b>4,560</b>	<b>4,180,000</b>
<b>Grand total</b>		<b>1,410</b>	<b>1,300,000</b>	<b>9,000</b>	<b>9,730,000</b>

-- 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–August 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.

Source: U.S. Census Bureau.

TABLE 9  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS  
IN AUGUST 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–August <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	1,280	\$1,060	South Africa 823; \$544.	10,300	\$7,260	South Africa 4,910; \$3,060.
Manganites, manganates, and other permanganates	2841.69.0090	32	254	China 19; \$33.	96	539	China 38; \$67.
Potassium permanganate	2841.61.0000	22	80	India 18; \$41.	432	1,070	India 420; \$986.
Sodium permanganate	2841.69.0010	165	295	China 147; \$253.	820	1,460	China 802; \$1,410.
Other sulfates, including manganese sulfate	2833.29.5100	4,190	2,850	Mexico 1,750; \$968.	51,900	38,400	Mexico 17,100; \$12,400.
<b>Exports:</b>							
Manganese dioxide	2820.10.0000	376	446	Canada 324; \$295.	4,080	5,300	Canada 2,630; \$2,190.
Manganese oxides other than dioxide	2820.90.0000	333	880	United Arab Emirates 95; \$136.	3,610	7,290	United Arab Emirates 760; \$1,110.
Manganites, manganates, and other permanganates	2841.69.0090	47	89	Canada 27; \$53.	102	223	Canada 80; \$158.
Potassium permanganate	2841.61.0000	212	599	Spain 109; \$259.	1,940	5,360	Belgium 741; \$1,760.
Sodium permanganate	2841.69.0010	27	82	Spain 19; \$40.	325	995	Belgium 210; \$444.
Other sulfates, including manganese sulfate	2833.29.9100	1,380	2,530	Canada 969; \$775.	13,900	23,500	Canada 9,020; \$6,550.

<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.