

# 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 NOVEMBER 2020

On a gross-weight basis, U.S. imports of manganese ore in November 2020 were 37,300 metric tons (t), a decrease from 50,600 t in October 2020 (fig. 1, table 5). Total imports of manganese ore during the first 11 months of 2020 were 319,000 t, 21% less than those during the same period in 2019 (406,000 t).

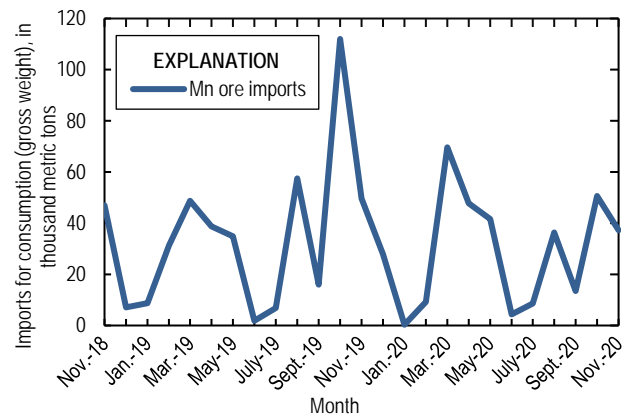


Figure 1. Monthly imports of manganese (Mn) ore from November 2018 through November 2020. Source: U.S. Census Bureau.

In November 2020, the average spot prices for manganese ore deliveries to China were \$3.82 per metric ton unit, 36%–38% grade, and \$4.10 per metric ton unit, 44% grade (fig. 2, table 1). Compared with October 2020 prices, the 36%–38%-grade price was 7% less and the 44%-grade price was 6% less. Compared

with the monthly average prices in November 2019, the 36%–38%-grade price was 16% more and the 44%-grade price was 12% more.

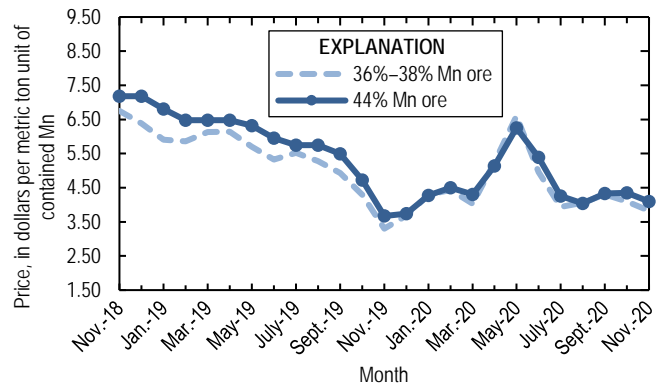


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from November 2018 through November 2020. Source: CRU Group.

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

		Low	Average	High
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,185.00	1,232.50	1,280.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	87.00	91.00	95.00
Silicomanganese, 65% manganese	do.	52.00	52.50	53.00
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	91.00	92.50	94.00
<b>Manganese ore:<sup>3,4</sup></b>				
36%–38% manganese	dollars per metric ton unit contained manganese	3.72	3.82	3.93
44% manganese	do.	4.00	4.10	4.40

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:						
November	25,800 <sup>r</sup>	46,600	72,500	8	1,490 <sup>r</sup>	1,500 <sup>r</sup>
January–November	230,000	500,000 <sup>r</sup>	729,000 <sup>r</sup>	495 <sup>r</sup>	14,700	15,200
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	121	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
September	10,500	25,500	36,000	34	760	800
October	32,100	29,700	61,800	20	900	920
November	19,900	35,300	55,100	27	1,000	1,030
January–November	168,000	336,000	505,000	417	10,000	10,400

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

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Value	January–November <sup>3</sup>		
				Gross weight	Mn content	Value
Australia	8,460	5,580	\$7,730,000	56,300	37,200	\$54,500,000
Brazil	250	161	176,000	1,150	749	978,000
Georgia	129	93	114,000	66,800	48,300	74,000,000
India	25	14	25,800	49	29	53,500
Kazakhstan	--	--	--	24	16	20,700
Korea, Republic of	--	--	--	220	153	227,000
Malaysia	--	--	--	10,600	6,920	9,140,000
Mexico	1,900	1,240	1,710,000	12,500	8,270	11,400,000
Norway	1,320	582	1,410,000	13,900	6,900	16,500,000
Oman	--	--	--	1,390	912	1,320,000
Russia	--	--	--	2,850	1,210	2,850,000
Saudi Arabia	5,600	4,390	4,700,000	5,600	4,390	4,700,000
South Africa	1,300	845	1,170,000	50,700	31,400	47,800,000
Total	19,000	12,900	17,000,000	222,000	146,000	224,000,000

-- 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 NOVEMBER 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–November <sup>2, 3</sup>		
					Gross weight	Mn content	Value
Low carbon, less than 1% C:	7202.19.1000						
China		82	66	\$138,000	422	343	\$716,000
Germany		--	--	--	4	4	10,600
Iceland		--	--	--	45	36	75,800
Japan		64	51	89,300	734	589	1,090,000
Korea, Republic of		--	--	--	5,010	4,610	9,000,000
Mexico		--	--	--	318	253	461,000
Norway		2,120	1,690	2,890,000	24,400	19,700	34,700,000
South Africa		1,310	1,070	1,760,000	2,170	1,870	3,200,000
Total		3,580	2,870	4,880,000	33,100	27,400	49,200,000
Medium carbon, 1%–2% C:	7202.19.5000						
Australia		10,400	7,940	9,550,000	10,400	7,940	9,550,000
Brazil		--	--	--	540	430	497,000
India		--	--	--	301	241	419,000
Japan		99	80	121,000	99	80	121,000
Korea, Republic of		--	--	--	17,700	14,100	22,400,000
Mexico		224	169	364,000	1,220	931	1,900,000
Norway		1,900	1,520	2,160,000	3,700	2,980	4,460,000
South Africa		5,230	4,210	7,120,000	15,200	12,200	21,300,000
Total		17,900	13,900	19,300,000	49,100	38,900	60,600,000
High carbon, over 4% C:	7202.11.5000						
Australia		--	--	--	30,800	23,500	27,700,000
Brazil		--	--	--	1,850	1,350	1,560,000
France		--	--	--	748	571	857,000
India		--	--	--	2,290	1,730	2,030,000
Korea, Republic of		--	--	--	3,090	2,290	2,610,000
Malaysia		124	92	93,400	47,100	35,800	37,400,000
Norway		425	332	312,000	425	332	312,000
Russia		1,440	1,100	1,220,000	25,600	19,400	22,300,000
South Africa		1,340	999	1,130,000	18,500	13,900	17,900,000
Zambia		192	149	154,000	430	230	339,000
Other [4 countries and (or) localities]		--	--	--	135	98	181,000
Total		3,510	2,680	2,910,000	131,000	99,200	113,000,000
Grand total		25,000	19,500	27,100,000	213,000	166,000	223,000,000

-- 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–November (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 NOVEMBER 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–November <sup>2</sup>		
					Gross weight	Mn content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico		80	31	\$26,900	35,400	10,100	\$7,450,000
South Africa		416	193	105,000	54,300	21,700	8,030,000
Spain		--	--	--	20	9	7,420
Total		496	224	132,000	89,800	31,800	15,500,000
47% or more manganese:	2602.00.0060						
Belgium		--	--	--	18	9	21,300
Brazil		65	32	15,800	553	273	328,000
France		--	--	--	17	8	21,300
Gabon		36,300	19,000	7,160,000	217,000	123,000	56,900,000
Mexico		--	--	--	10,000	9,010	3,310,000
Morocco		--	--	--	1,200	762	511,000
South Africa		400	194	160,000	1,000	485	423,000
Ukraine		--	--	--	31	15	2,510,000
Total		36,800	19,200	7,340,000	229,000	134,000	64,000,000
Grand total		37,300	19,500	7,470,000	319,000	166,000	79,500,000

-- 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 NOVEMBER 2020<sup>1,2</sup>

(Metric tons, unless otherwise specified)

Country or locality	Gross weight	Value	January–November <sup>3</sup>	
			Gross weight	Value
Belgium	--	--	48	\$226,000
Brazil	56	\$63,700	139	178,000
Canada	--	--	5	20,700
China	--	--	1	6,480
Germany	--	--	14	75,100
Greece	50	110,000	248	581,000
India	--	--	47	86,000
Japan	474	945,000	3,700	8,330,000
Mexico	--	--	63	107,000
Morocco	50	85,000	249	423,000
Spain	21	35,000	182	310,000
Total	650	1,240,000	4,700	10,300,000

-- 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 NOVEMBER 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>3</sup> code	Gross weight	Value	January–November <sup>2</sup>	
				Gross weight	Value
Unwrought flake:	8111.00.4700				
China		320	\$457,000	2,180	\$3,700,000
Japan		(4)	322,000	2	1,900,000
Singapore		--	--	48	73,200
South Africa		1,160	1,990,000	4,140	7,700,000
Total		1,490	2,770,000	6,370	13,400,000
Unwrought powder:	8111.00.4910				
China		--	--	194	328,000
Germany		--	--	(4)	6,100
Mexico		--	--	86	317,000
South Africa		141	408,000	923	2,330,000
Total		141	408,000	1,200	2,980,000
Unwrought, other:	8111.00.4990				
Belgium		--	--	56	106,000
China		1,210	1,670,000	13,500	21,000,000
Germany		12	22,300	680	1,340,000
Luxembourg		--	--	306	526,000
Poland		--	--	(4)	6,150
South Africa		--	--	799	1,610,000
Spain		--	--	33	54,600
Total		1,220	1,690,000	15,400	24,700,000
Other manganese, wrought:	8111.00.6000				
China		--	--	486	936,000
Germany		11	152,000	145	1,950,000
Japan		(4)	13,700	(4)	25,000
Luxembourg		--	--	44	175,000
Mexico		11	26,100	316	780,000
Sweden		3	45,900	40	537,000
United Kingdom		--	--	(4)	4,730
Total		25	238,000	1,030	4,410,000
Metallic waste and scrap:	8111.00.3000				
Canada		33	10,800	450	130,000
Japan		--	--	(4)	6,850
Mexico		--	--	2	5,060
Total		33	10,800	451	142,000
Grand total		2,910	5,120,000	24,400	45,600,000

-- 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 NOVEMBER 2020<sup>1</sup>

(Metric tons, unless otherwise specified)

Type and country or locality	HTS <sup>4</sup> code	Gross weight	Value	January–November <sup>2,3</sup>	
				Gross weight	Value
<b>Ore and concentrates with 20% or more manganese:</b>	<b>2602.00.0000</b>				
Belgium		--	--	305	\$450,000
Canada		21	\$24,600	276	267,000
India		--	--	40	34,300
Ireland		13	12,500	16	31,800
Japan		--	--	40	70,600
Korea, Republic of		17	15,900	17	15,900
Mexico		3	3,190	30	32,100
Netherlands		--	--	64	241,000
St. Lucia		--	--	6	27,800
United Kingdom		--	--	40	25,300
<b>Total</b>		<b>54</b>	<b>56,100</b>	<b>834</b>	<b>1,200,000</b>
<b>Ferromanganese:</b>	<b>7202.19.0000</b>				
<b>2% or less carbon:</b>					
Canada		--	--	1,070	1,500,000
Dominican Republic		--	--	10	24,900
Israel		--	--	40	75,400
Mexico		--	--	2	4,210
South Africa		--	--	8	14,400
<b>Total</b>		<b>--</b>	<b>--</b>	<b>1,130</b>	<b>1,610,000</b>
<b>More than 2% carbon:</b>	<b>7202.11.0000</b>				
Canada		331	447,000	2,650	2,890,000
Costa Rica		--	--	3	12,300
India		--	--	59	78,000
<b>Total</b>		<b>331</b>	<b>447,000</b>	<b>2,710</b>	<b>2,980,000</b>
<b>Ferrosilicon manganese:</b>	<b>7202.30.0000</b>				
Canada		100	116,000	1,450	1,760,000
Mexico		--	--	78	146,000
Turkey		--	--	1	3,360
<b>Total</b>		<b>100</b>	<b>116,000</b>	<b>1,530</b>	<b>1,910,000</b>
<b>Metal, including alloys and waste and scrap:<sup>5</sup></b>	<b>8111.00.0000</b>				
Australia		1	28,400	49	54,900
Brazil		--	--	17	881,000
Canada		--	--	51	205,000
France		--	--	18	6,530
Germany		--	--	76	127,000
India		83	28,900	594	226,000
Japan		40	128,000	92	305,000
Malaysia		500	165,000	4,810	2,170,000
South Africa		--	--	39	197,000
Turkey		38	14,200	191	70,600
Other [12 countries and (or) localities]		15	27,500	67	759,000
<b>Total</b>		<b>676</b>	<b>391,000</b>	<b>6,000</b>	<b>5,000,000</b>
<b>Grand total</b>		<b>1,160</b>	<b>1,010,000</b>	<b>12,200</b>	<b>12,700,000</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–November 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 NOVEMBER 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–November <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	1,380	\$893	Korea, Republic of 485; \$401.	17,000	\$10,300	South Africa 8,770; \$3,960.
Manganites, manganates, and other permanganates	2841.69.0090	--	--	XX.	110	565	China 38; \$67.
Potassium permanganate	2841.61.0000	54	137	India 54; \$134.	710	1,750	India 691; \$1,643.
Sodium permanganate	2841.69.0010	137	245	China 118; \$208.	1,110	1,960	China 1,050; \$1,830.
Other sulfates, including manganese sulfate	2833.29.5100	5,900	4,200	Chile 2,120; \$1,420.	72,100	50,800	Mexico 22,700; \$15,800.
<b>Exports:</b>							
Manganese dioxide	2820.10.0000	917	953	Canada 498; \$359.	6,090	7,620	Canada 3,860; \$3,110.
Manganese oxides other than dioxide	2820.90.0000	264	526	United Arab Emirates 95; \$136.	4,760	9,390	United Arab Emirates 1,060; \$1,550.
Manganites, manganates, and other permanganates	2841.69.0090	24	50	Canada 24; \$50.	169	355	Canada 129; \$256.
Potassium permanganate	2841.61.0000	333	943	Belgium 144; \$349.	2,770	7,690	Belgium 1,170; \$2,800.
Sodium permanganate	2841.69.0010	--	--	XX.	428	1,220	Belgium 305; \$646.
Other sulfates, including manganese sulfate	2833.29.9100	1,360	2,390	Canada 895; \$556.	19,500	32,000	Canada 13,400; \$9,810.

-- Zero. XX Not applicable.

<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.