

# Mineral Industry Surveys

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## MANGANESE IN FEBRUARY 2020

On a gross-weight basis, U.S. imports of manganese ore in February 2020 were 9,280 metric tons (t), an increase from 297 t in January 2020 (fig. 1, table 5). Imports for the year through February totaled 9,580 t, 76% less compared with imports in the same period in 2019.

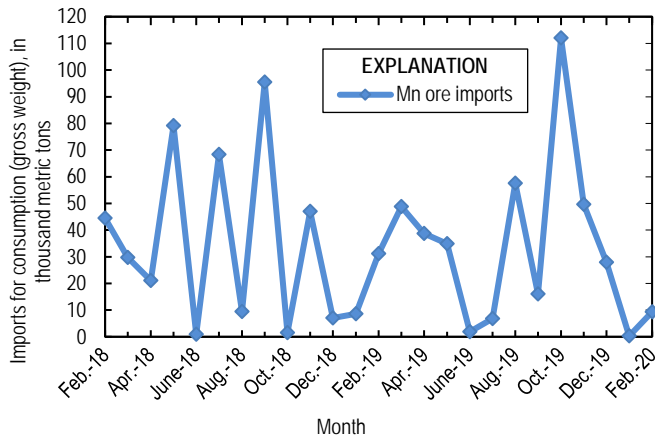


Figure 1. Monthly imports of manganese (Mn) ore from February 2018 through February 2020. Source: U.S. Census Bureau.

In February 2020, the average spot prices for manganese ore deliveries to China were \$4.43 per metric ton unit, 36%–39% grade, and \$4.50 per metric ton unit, 44% grade (fig. 2, table 1). Compared with January 2020 prices, the 36%–39%-grade price was 3% more and the 44%-grade price was 5% more. Compared with the monthly average prices in February 2019, the 36%–

39%-grade price was 25% less and the 44%-grade price was 30% less.

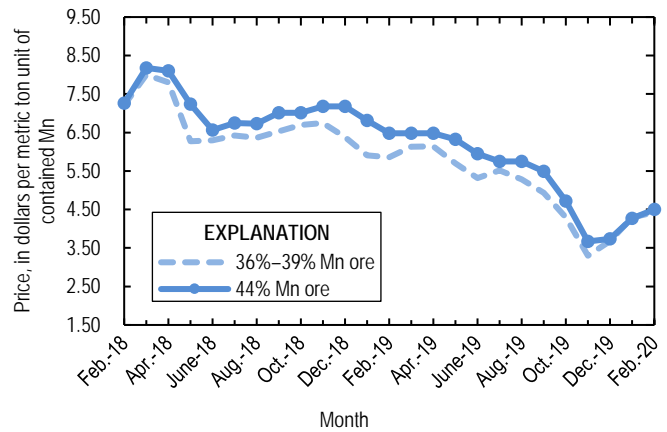


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from February 2018 through February 2020. Source: CRU Group.

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

		Low	Average	High
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,057.50	1,087.50	117.50
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	85.00	90.00	95.00
Silicomanganese, 65% manganese	do.	53.00	53.63	54.25
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	98.00	107.69	117.00
<b>Manganese ore:<sup>3, 4</sup></b>				
36%–39% manganese	dollars per metric ton unit contained manganese	4.30	4.43	4.50
44% manganese	do.	4.25	4.50	4.80

do. Ditto.

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

<sup>2</sup>CRU Ryan's Notes North American transaction prices, electrolytic manganese metal flake, 99.7% manganese, ex-works; average prices reported for the price range.

<sup>3</sup>CRU Ryan's Notes, cost and freight, China; average prices reported for the price 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:						
January	4,670	27,000	31,600	19	1,690	1,710
February	12,300	66,700	79,100	94	1,840	1,930
January–February	17,000	93,700	111,000	113	3,520	3,640
2020:						
January	461	51,800	52,300	20	672	692
February	1,530	38,000	39,500	8	978	986
January–February	1,990	89,800	91,800	28	1,650	1,680

<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 for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–February <sup>2</sup>		
				Gross weight	Mn content	Customs value <sup>3</sup>
Australia	12,800	8,520	\$13,200,000	12,800	8,520	\$13,200,000
Georgia	215	155	222,000	23,200	16,200	27,600,000
Korea, Republic of	--	--	--	20	12	39,900
Malaysia	216	142	176,000	4,220	2,740	3,590,000
Mexico	80	52	73,200	195	123	192,000
Norway	60	37	122,000	750	466	1,040,000
Russia	--	--	--	2,850	1,210	2,850,000
South Africa	16,900	9,460	16,100,000	16,900	9,460	16,100,000
Total	30,300	18,400	29,900,000	61,000	38,800	64,600,000

-- Zero.

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

<sup>2</sup>May include revised data that are not broken out by specific month(s).

<sup>3</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN FEBRUARY 2020<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–February <sup>2</sup>		
				Gross weight	Mn content	Customs value <sup>3</sup>
<b>Low carbon:</b>						
China	--	--	--	6	6	\$14,400
Japan	--	--	--	96	75	145,000
Korea, Republic of	--	--	--	599	551	1,070,000
Mexico	--	--	--	18	15	47,200
Norway	545	441	\$900,000	5,140	4,150	7,710,000
South Africa	25	21	38,600	100	82	159,000
<b>Total</b>	<b>570</b>	<b>462</b>	<b>939,000</b>	<b>5,960</b>	<b>4,880</b>	<b>9,140,000</b>
<b>Medium carbon, 1%–2% C:</b>						
Brazil	--	--	--	540	430	497,000
India	--	--	--	227	180	321,000
Korea, Republic of	20	15	41,400	6,660	5,330	8,930,000
Mexico	--	--	--	20	16	38,200
South Africa	2,020	1,610	2,890,000	3,380	2,710	5,300,000
<b>Total</b>	<b>2,040</b>	<b>1,630</b>	<b>2,930,000</b>	<b>10,800</b>	<b>8,660</b>	<b>15,100,000</b>
<b>High carbon:</b>						
Australia	12,200	9,340	10,400,000	12,200	9,340	10,400,000
Brazil	201	150	160,000	404	298	337,000
France	--	--	--	256	197	310,000
India	126	95	116,000	242	182	223,000
Korea, Republic of	--	--	--	1,500	1,140	1,310,000
Malaysia	5,200	3,950	4,310,000	15,000	11,400	12,400,000
Mexico	--	--	--	1	1	2,310
Russia	--	--	--	10,200	7,790	9,070,000
South Africa	2,950	2,190	3,200,000	4,310	3,220	4,810,000
Zambia	--	--	--	238	81	185,000
<b>Total</b>	<b>20,700</b>	<b>15,700</b>	<b>18,200,000</b>	<b>44,400</b>	<b>33,700</b>	<b>39,100,000</b>
<b>Grand total</b>	<b>23,300</b>	<b>17,800</b>	<b>22,100,000</b>	<b>61,200</b>	<b>47,200</b>	<b>63,300,000</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 revised data that are not broken out by specific month(s).

<sup>3</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–February <sup>2</sup>		
				Gross weight	Mn content	Customs value <sup>3</sup>
<b>More than 20%, but less than 47% manganese:</b>						
Mexico	8,960	1,070	\$1,240,000	8,960	1,070	\$1,240,000
South Africa	27	13	6,240	324	152	80,800
Total	8,990	1,080	1,250,000	9,290	1,220	1,320,000
<b>47% or more manganese:</b>						
Morocco	96	73	43,900	96	73	43,900
South Africa	200	97	87,800	200	97	87,800
Total	296	170	132,000	296	170	132,000
Grand total	9,280	1,250	1,380,000	9,580	1,390	1,450,000

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

<sup>2</sup>May include revised data that are not broken out by specific month(s).

<sup>3</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight)

Source	Quantity	Customs value <sup>2</sup>	January–February <sup>2</sup>	
			Quantity	Customs value <sup>3</sup>
Brazil	11	\$18,000	21	\$36,100
Germany	2	7,960	5	26,100
India	20	33,500	20	33,500
Japan	396	851,000	864	1,850,000
Mexico	--	--	10	17,800
Morocco	18	30,400	43	72,900
Spain	19	31,900	38	63,800
Total	465	973,000	1,000	2,100,000

-- Zero.

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

<sup>2</sup>May include revised data that are not broken out by specific month(s).

<sup>3</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL  
IN FEBRUARY 2020<sup>1</sup>

(Metric tons)

Source	Gross weight	Customs value <sup>2</sup>	January–February <sup>2</sup>	
			Gross weight	Customs value <sup>3</sup>
<b>Unwrought flake:</b>				
China	195	\$399,000	411	\$817,000
Japan	(4)	189,000	(4)	315,000
Singapore	--	--	48	73,200
South Africa	180	350,000	509	1,060,000
Total	375	938,000	969	2,260,000
<b>Unwrought powder:</b>				
China	38	65,100	58	99,100
Germany	--	--	(4)	6,100
Mexico	5	19,100	39	144,000
South Africa	--	--	124	371,000
Total	43	84,200	220	620,000
<b>Unwrought, other:</b>				
China	1,100	1,740,000	2,180	3,590,000
Germany	42	77,700	92	178,000
South Africa	96	255,000	159	417,000
Spain	23	39,100	23	39,100
Total	1,260	2,110,000	2,450	4,230,000
<b>Other manganese, wrought:</b>				
Germany	5	61,100	20	261,000
Mexico	49	136,000	109	269,000
United Kingdom	--	--	(4)	2,370
Total	54	197,000	130	533,000
Metallic waste and scrap, Canada	136	37,900	136	37,900
Grand total	1,870	3,370,000	3,910	7,680,000

-- Zero.

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

<sup>2</sup>May include revised data that are not broken out by specific month(s).

<sup>3</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into 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 FEBRUARY 2020<sup>1,2</sup>

Source	Gross weight (metric tons)	F.a.s. <sup>4</sup> value (thousands)	January–February <sup>3</sup>	
			Gross weight (metric tons)	F.a.s. <sup>4</sup> value (thousands)
<b>Ore and concentrates with 20% or more manganese:</b>				
Belgium	--	--	39	\$143
Netherlands	16	\$73	16	73
Total	16	73	55	215
<b>Ferromanganese:</b>				
2% or less carbon, Israel				
	--	--	34	65
More than 2% carbon:				
Canada	66	68	99	101
India	59	78	59	78
Total	125	146	158	179
<b>Silicomanganese:</b>				
Canada	--	--	147	171
Mexico	20	36	20	36
Total	20	36	167	207
<b>Metal, including alloys and waste and scrap:<sup>5</sup></b>				
Brazil	10	523	10	523
Canada	22	84	23	94
China	2	12	2	12
Costa Rica	(6)	6	(6)	19
India	--	--	20	6
Korea, Republic of	(6)	4	(6)	4
Malaysia	829	370	1,330	663
Mexico	2	32	2	56
Total	866	1,030	1,390	1,380
Grand total	1,030	1,290	1,800	2,040

-- Zero.

<sup>1</sup>Presentation of monthly data is based on the "January–February" quantities of the leading countries.

<sup>2</sup>Data rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>May include revised data that are not broken out by specific month(s).

<sup>4</sup>Free alongside ship.

<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 FEBRUARY 2020, BY CLASS<sup>1</sup>

Class	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)	January–February <sup>2</sup>		
				Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)
<b>Imports for consumption:</b>						
Manganese oxides other than dioxide	893	\$652	South Africa 603; \$409	2,410	\$1,660	South Africa 1,560; \$995
Manganites, manganates, and other permanganates	--	--	--	19	37	China 19; \$34
Potassium permanganate	44	112	India 36; \$85	98	240	India 90; \$213
Sodium permanganate	41	81	China 41; \$81	150	288	China 150; \$288
Sulfates, basket category, including manganese sulfate	6,910	5,020	Mexico 2,330; \$1,820	12,300	8,980	Mexico 4,160; \$3,250
<b>Exports:</b>						
Manganese dioxide	638	874	Canada 395; \$351	1,360	1,720	Canada 958; \$705
Manganese oxides other than dioxide	269	1,020	Poland 60; \$77	671	1,740	Poland 121; \$153
Manganites, manganates, and other permanganates	6	28	Canada 4; \$7	20	63	Canada 18; \$37
Potassium permanganate	233	592	Spain 128; \$278	361	962	Spain 183; \$384
Sodium permanganate	54	146	Belgium 38; \$81	61	265	Belgium 38; \$81
Sulfates, basket category, including manganese sulfate	2,250	3,560	Canada 1,420; \$918	3,390	6,060	Canada 2,230; \$1,600

-- Zero.

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

<sup>2</sup>For imports, customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.