

# Mineral Industry Surveys

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## MANGANESE IN MARCH 2019

On a gross-weight basis, U.S. imports of manganese ore in March 2019 increased to 48,800 metric tons (t) from 31,200 t in February 2019 (fig. 1, table 5). Imports for the year through March totaled 88,700 t, 19% less compared with imports in the same period in 2018.

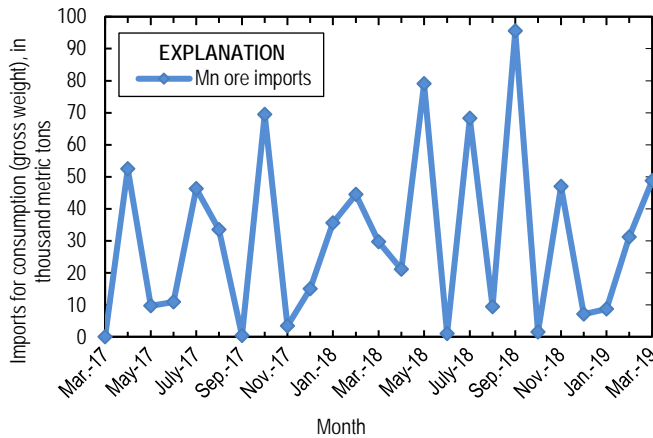


Figure 1. Monthly imports of manganese (Mn) ore from March 2017 through March 2019. Source: U.S. Census Bureau.

In March 2019, the average spot prices for manganese ore deliveries to China were \$6.13 per metric ton unit, 36%–39% grade, and \$6.48 per metric ton unit, 44% grade (fig. 2, table 1). Compared with February 2019 prices, the 36%–39%-grade price was 5% more and the 44%-grade price was unchanged. Compared with the monthly average prices in March 2018, the

36%–39%-grade price was 23% less and the 44%-grade price was 21% less.

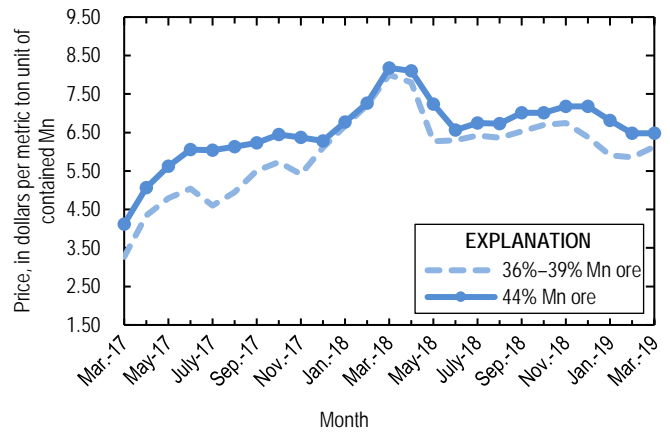


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from March 2017 through March 2019. Source: CRU Group.

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TABLE 1  
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN MARCH 2019

		Low	Average	High
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,348.75	1,363.13	1,377.50
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	112.00	113.00	114.00
Silicomanganese, 65% manganese	do.	64.00	65.00	66.00
Manganese metal, 99.7% manganese flake <sup>2</sup>	cents per pound	125.00	130.00	135.00
<b>Manganese ore:<sup>3, 4</sup></b>				
36%–39% manganese	dollars per metric ton unit contained manganese	6.00	6.13	6.25
44% manganese	do.	6.45	6.48	6.50

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
2018:						
March	10,600	59,300	69,900	25	993	1,020
January–March	51,100	161,000	212,000	91 <sup>r</sup>	2,020	2,110
2019:						
January	4,670	27,000	31,600 <sup>r</sup>	19	1,690	1,710
February	12,300	66,700	79,100	94	1,840	1,930
March	25,600	55,700	81,300	45	1,330	1,370
January–March	42,600	149,000	192,000	158	4,850	5,010

<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 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 MARCH 2019<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–March <sup>2</sup>		
				Gross weight	Mn content	Customs value <sup>3</sup>
Australia	3,920	2,600	\$4,850,000	19,900	13,200	\$24,900,000
Georgia	12,400	9,180	15,700,000	27,000	20,000	34,300,000
Malaysia	581	381	594,000	5,080	3,310	5,460,000
Mexico	2,040	1,330	2,330,000	4,340	2,830	5,020,000
Norway	12,000	8,190	13,500,000	14,500	9,800	16,500,000
Russia	1	1	2,720	1	1	2,720
South Africa	10,400	6,760	11,400,000	20,800	13,500	22,900,000
Spain	--	--	--	3,000	1,970	3,340,000
Total	41,300	28,400	48,400,000	94,600	64,700	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>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 MARCH 2019<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–March <sup>2</sup>		
				Gross weight	Mn content	Customs value <sup>2</sup>
<b>Low carbon:</b>						
China	--	--	--	320	304	\$591,000
Germany	46	44	\$119,000	122	110	296,000
Japan	288	229	493,000	288	229	493,000
Korea, Republic of	700	644	1,660,000	1,800	1,600	3,960,000
Mexico	918	721	1,510,000	1,440	1,130	2,530,000
Norway	4,890	3,970	8,420,000	13,100	10,600	22,200,000
South Africa	25	21	40,600	106	93	178,000
Spain	900	723	1,530,000	2,190	1,750	3,660,000
<b>Total</b>	<b>7,770</b>	<b>6,350</b>	<b>13,800,000</b>	<b>19,400</b>	<b>15,800</b>	<b>33,900,000</b>
<b>Medium carbon, 1%–2% C:</b>						
China	21	16	28,000	21	16	28,000
India	103	82	164,000	103	82	164,000
Korea, Republic of	--	--	--	4,200	3,360	6,700,000
Malaysia	--	--	--	21	16	30,700
Mexico	468	357	807,000	1,640	1,280	2,640,000
Norway	1,500	1,220	2,210,000	4,300	3,490	6,460,000
South Africa	--	--	--	3,840	3,060	6,670,000
<b>Total</b>	<b>2,090</b>	<b>1,670</b>	<b>3,210,000</b>	<b>14,100</b>	<b>11,300</b>	<b>22,700,000</b>
<b>High carbon:</b>						
Australia	13,000	9,920	14,100,000	26,100	19,900	28,600,000
Brazil	96	69	113,000	311	224	354,000
Korea, Republic of	1,200	912	1,280,000	1,200	912	1,280,000
Malaysia	37	26	55,600	15,600	11,800	15,400,000
Mexico	1	1	2,720	3	2	4,760
Russia	1,870	1,430	1,650,000	5,230	3,990	4,610,000
Saudi Arabia	40	31	65,400	60	44	98,200
South Africa	27	21	34,900	4,330	3,270	5,170,000
Ukraine	1,710	1,300	1,500,000	3,420	2,600	3,000,000
<b>Total</b>	<b>18,000</b>	<b>13,700</b>	<b>18,800,000</b>	<b>56,200</b>	<b>42,700</b>	<b>58,600,000</b>
<b>Grand total</b>	<b>27,900</b>	<b>21,700</b>	<b>35,700,000</b>	<b>89,700</b>	<b>69,900</b>	<b>115,000,000</b>

-- Zero.

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

<sup>2</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 MARCH 2019<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–March <sup>2</sup>		
				Gross weight	Mn content	Customs value <sup>3</sup>
More than 20%, but less than 47% manganese, South Africa	27	11	\$6,430	24,900	8,970	\$4,710,000
47% or more manganese:						
Brazil	106	52	70,200	158	77	106,000
Gabon	48,500	25,200	16,100,000	63,400	32,800	20,500,000
Morocco	--	--	--	39	22	50,900
South Africa	200	97	87,800	200	97	87,800
Turkey	--	--	--	4	3	2,380
Total	48,800	25,400	16,200,000	63,800	33,000	20,700,000
Grand total	48,800	25,400	16,200,000	88,700	42,000	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>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 MARCH 2019<sup>1</sup>

(Metric tons, gross weight)

Source	Quantity	Customs value <sup>2</sup>	January–March <sup>2</sup>	
			Quantity	Customs value <sup>3</sup>
Brazil	--	--	66	\$112,000
China	8	\$14,200	25	63,900
Germany	8	44,400	12	62,700
India	(3)	3,050	17	30,100
Japan	286	627,000	880	1,920,000
Slovakia	--	--	13	22,500
Total	302	688,000	1,010	2,210,000

-- Zero.

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

<sup>2</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>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL  
IN MARCH 2019<sup>1</sup>

(Metric tons)

Source	Gross weight	Customs value <sup>2</sup>	January–March <sup>2</sup>	
			Gross weight	Customs value <sup>3</sup>
<b>Unwrought flake:</b>				
China	1,880	\$3,500,000	4,240	\$8,440,000
Gabon	50	122,000	50	122,000
Japan	(3)	252,000	(3)	667,000
Mexico	--	--	1	2,890
South Africa	425	1,100,000	1,110	3,160,000
Total	2,350	4,980,000	5,400	12,400,000
<b>Unwrought powder:</b>				
China	40	85,200	40	85,200
Mexico	5	21,200	24	93,400
South Africa	325	882,000	604	1,690,000
Total	370	989,000	668	1,870,000
<b>Unwrought, other:</b>				
China	2,370	5,030,000	7,430	15,500,000
Germany	247	574,000	835	1,970,000
Poland	--	--	(3)	6,310
South Africa	82	214,000	326	819,000
Spain	46	79,100	63	107,000
Total	2,740	5,890,000	8,660	18,400,000
<b>Other manganese, wrought:</b>				
China	(3)	27,300	(3)	27,300
Germany	14	165,000	113	1,350,000
Japan	--	--	(3)	11,800
Mexico	22	97,700	22	97,700
Sweden	2	23,300	2	23,300
Total	38	314,000	137	1,510,000
Metallic waste and scrap, Canada	36	12,300	36	12,300
Grand total	5,540	12,200,000	14,900	34,200,000

-- Zero.

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

<sup>2</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>3</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 MARCH 2019<sup>1,2</sup>

Source	Gross weight (metric tons)	F.a.s. <sup>4</sup> value (thousands)	January–March <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>				
Bahamas	--	--	6	\$6
Canada	31	\$27	52	48
Mexico	--	--	7	7
Netherlands	--	--	192	354
Singapore	59	107	59	107
Total	90	134	316	521
<b>Ferromanganese:</b>				
2% or less carbon:				
Canada	34	62	1,040	1,850
Chile	--	--	9	17
China	--	--	24	47
Total	34	62	1,070	1,920
More than 2% carbon:				
Canada	689	852	2,840	3,700
United Kingdom	--	--	2	5
Total	689	852	2,840	3,710
Silicomanganese, Canada	9	13	40	52
<b>Metal, including alloys and waste and scrap:<sup>5</sup></b>				
Canada	(6)	3	8	51
China	1	12	1	12
Costa Rica	(6)	5	(6)	10
Germany	--	--	(6)	5
Guatemala	--	--	2	19
India	--	--	39	17
Jamaica	--	--	3	13
Japan	--	--	20	72
Malaysia	693	360	1,410	616
Mexico	16	89	30	263
New Zealand	--	--	(6)	5
Pakistan	40	12	220	68
Total	750	481	1,730	1,150
Grand total	1,570	1,540	6,000	7,350

-- Zero.

<sup>1</sup>Presentation of monthly data is based on the March 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 MARCH 2019, 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–March <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	720	\$525	Brazil 345; \$232	5,520	\$3,660	South Africa 2,850; \$1,420
Manganites, manganates, and other permanganates	--	--	--	19	44	China 19; \$44
Potassium permanganate	36	104	India 36; \$98	185	493	India 179; \$474
Sodium permanganate	35	81	China 35; \$81	202	459	China 202; \$459
Sulfates, basket category, including manganese sulfate	6,370	5,450	Mexico 2,260; \$1,630	13,400	11,800	Mexico 5,900; \$4,070
<b>Exports:</b>						
Manganese dioxide	577	1,080	Canada 253; \$261	1,650	2,660	Canada 924; \$908
Manganese oxides other than dioxide	427	652	Belgium 119; \$158	1,090	1,850	Poland 201; \$261
Manganites, manganates, and other permanganates	2	22	Canada 2; \$4	30	107	Mexico 20; \$84
Potassium permanganate	374	1,100	Belgium 108; \$262	1,020	2,790	Belgium 379; \$916
Sodium permanganate	19	67	Belgium 19; \$41	146	380	Belgium 95; \$207
Sulfates, basket category, including manganese sulfate	1,450	2,810	Canada 964; \$797	4,470	7,950	Canada 3,160; \$2,850

-- 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.