

Mineral Industry Surveys

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MANGANESE IN MAY 2019

On a gross-weight basis, U.S. imports of manganese ore in May 2019 decreased to 34,900 metric tons (t) from 38,700 t in April 2019 (fig. 1, table 5). Imports for the year through May totaled 162,000 t, 23% less compared with imports in the same period in 2018.

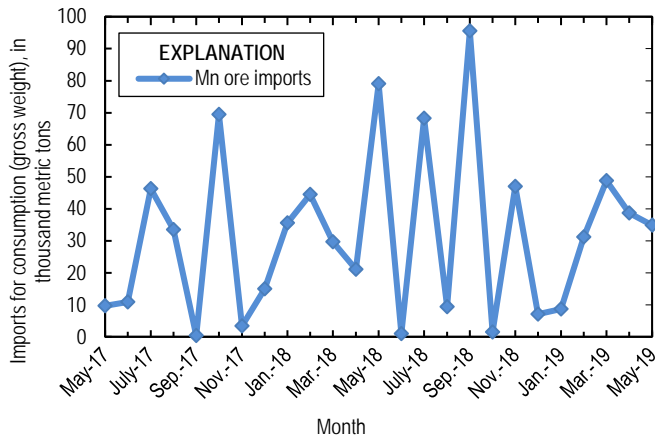


Figure 1. Monthly imports of manganese (Mn) ore from May 2017 through May 2019. Source: U.S. Census Bureau.

In May 2019, the average spot prices for manganese ore deliveries to China were \$5.70 per metric ton unit, 36%–39% grade, and \$6.32 per metric ton unit, 44% grade (fig. 2, table 1). Compared with April 2019 prices, the 36%–39%-grade price was 7% less and the 44%-grade price was slightly less. Compared with the monthly average prices in May 2018, the

36%–39%-grade price was 9% less and the 44%-grade price was 13% less.

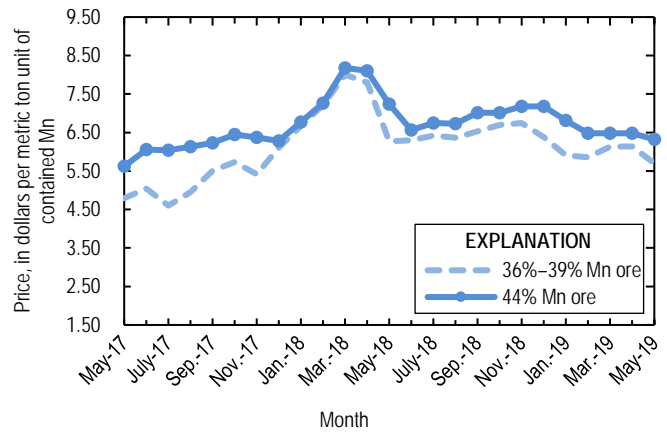


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from May 2017 through May 2019. Source: CRU Group.

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

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,350.00	1,375.00	1,400.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	112.00	113.00	114.00
Silicomanganese, 65% manganese	do.	65.00	66.00	67.00
Manganese metal, 99.7% manganese flake ²	cents per pound	119.00	122.00	125.00
Manganese ore:^{3,4}				
36%-39% manganese	dollars per metric ton unit contained manganese	5.40	5.70	6.00
44% manganese	do.	6.10	6.32	6.50

do. Ditto.

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

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

³CRU Ryan's Notes, cost and freight, China; average prices reported for the price range.

⁴To 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 MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2018:						
May	36,500	67,700	104,000	30	1,240	1,270
January–May	98,100	271,000 ^r	369,000 ^r	136	4,510	4,650
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
March	25,600	55,700	81,300	45	1,330	1,370
April	27,000	46,300	73,400	20	1,140	1,160
May	17,500	59,300	76,800	27	1,090	1,120
January–May	87,100	255,000	342,000	204	7,090	7,290

^rRevised.

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

²As 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 MAY 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–May ²		
				Gross weight	Mn content	Customs value ³
Australia	8,410	5,590	\$10,700,000	28,400	18,800	\$35,600,000
Brazil	260	172	290,000	260	172	290,000
Georgia	17,500	12,900	22,000,000	45,800	33,900	57,800,000
Malaysia	4,000	2,600	4,220,000	10,500	6,850	11,200,000
Mexico	1,690	1,100	1,970,000	8,590	5,590	9,920,000
Norway	5,340	3,640	6,110,000	24,900	16,800	28,700,000
Russia	--	--	--	1	1	2,720
South Africa	--	--	--	36,400	23,600	40,000,000
Spain	600	391	666,000	4,010	2,610	4,590,000
Thailand	25	9	38,800	25	9	38,800
Total	37,800	26,400	46,000,000	159,000	108,000	188,000,000

-- Zero.

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

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

³Customs 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 MAY 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–May ²		
				Gross weight	Mn content	Customs value ³
Low carbon:						
China	402	377	\$812,000	723	681	\$1,400,000
Germany	83	79	214,000	228	211	570,000
Japan	96	75	164,000	481	380	824,000
Korea, Republic of	2,440	2,130	4,770,000	5,040	4,460	10,500,000
Mexico	18	15	49,900	1,690	1,330	3,050,000
Norway	2,220	1,800	3,750,000	21,600	17,500	36,600,000
South Africa	74	63	117,000	232	201	383,000
Spain	300	244	482,000	3,060	2,460	5,090,000
Total	5,640	4,780	10,400,000	33,000	27,200	58,400,000
Medium carbon, 1%–2% C:						
China	--	--	--	21	16	28,000
India	--	--	--	103	82	164,000
Korea, Republic of	1,000	800	1,650,000	8,850	7,080	14,200,000
Malaysia	--	--	--	21	16	30,700
Mexico	1,200	937	1,910,000	3,270	2,540	5,200,000
Norway	300	244	469,000	5,800	4,710	8,780,000
South Africa	--	--	--	8,950	7,140	15,500,000
Spain	300	242	488,000	300	242	488,000
Total	2,800	2,220	4,520,000	27,300	21,800	44,400,000
High carbon:						
Australia	16,300	12,500	18,300,000	42,400	32,400	47,000,000
Brazil	388	279	425,000	898	641	982,000
India	200	151	241,000	200	151	241,000
Korea, Republic of	--	--	--	1,600	1,230	1,940,000
Malaysia	10,300	7,790	8,260,000	26,000	19,700	23,900,000
Mexico	--	--	--	5	4	9,530
Russia	1,100	836	988,000	11,800	8,990	10,600,000
Saudi Arabia	--	--	--	60	44	98,200
South Africa	26	20	33,000	10,300	7,760	11,800,000
Ukraine	1,090	831	981,000	5,130	3,900	4,510,000
Total	29,400	22,400	29,300,000	98,300	74,800	101,000,000
Grand total	37,800	29,400	44,200,000	159,000	124,000	204,000,000

-- Zero.

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

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

³Customs 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 MAY 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–May ²		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Mexico	6,630	2,470	\$1,380,000	6,630	2,470	\$1,380,000
South Africa	27	11	6,560	25,000	9,030	4,750,000
Total	6,650	2,480	1,380,000	31,700	11,500	6,130,000
47% or more manganese:						
Brazil	--	--	--	264	129	177,000
Gabon	28,000	14,600	12,900,000	130,000	74,100	44,500,000
Morocco	--	--	--	39	22	50,900
South Africa	260	126	107,000	477	231	199,000
Turkey	--	--	--	4	3	2,380
Total	28,200	14,800	13,000,000	131,000	74,500	44,900,000
Grand total	34,900	17,200	14,400,000	162,000	86,000	51,000,000

-- Zero.

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

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

³Customs 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 MAY 2019¹

(Metric tons, gross weight)

Source	Quantity	Customs value ³	January–May ²	
			Quantity	Customs value ³
Belgium	19	\$86,600	19	\$86,600
Brazil	--	--	66	112,000
China	(4)	2,180	36	84,300
Germany	3	9,610	20	101,000
India	--	--	17	30,100
Japan	360	805,000	1,670	3,700,000
Slovakia	--	--	13	22,500
Total	382	904,000	1,840	4,140,000

-- Zero.

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

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

³Customs 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.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL
IN MAY 2019¹

(Metric tons)

Source	Gross weight	Customs value ³	January–May ²	
			Gross weight	Customs value ³
Unwrought flake:				
China	694	\$1,410,000	5,050	\$10,100,000
Gabon	--	--	50	122,000
Hong Kong	33	66,300	33	66,300
Japan	(4)	189,000	1	1,040,000
Mexico	--	--	1	2,890
South Africa	321	836,000	1,990	5,370,000
Total	1,050	2,500,000	7,130	16,700,000
Unwrought powder:				
China	20	61,200	60	146,000
Mexico	27	102,000	84	326,000
South Africa	--	--	664	1,870,000
Total	47	163,000	808	2,350,000
Unwrought, other:				
China	1,950	3,790,000	12,400	25,300,000
Germany	137	311,000	1,270	3,000,000
Poland	--	--	(4)	6,310
South Africa	61	163,000	531	1,360,000
Spain	23	39,600	132	226,000
Total	2,170	4,300,000	14,300	29,900,000
Other manganese, wrought:				
Austria	(4)	6,040	(4)	6,040
China	--	--	(4)	27,300
Germany	32	390,000	173	2,080,000
Japan	--	--	(4)	11,800
Mexico	79	223,000	200	592,000
Sweden	--	--	2	23,300
United Kingdom	--	--	(4)	2,090
Total	111	620,000	375	2,740,000
Metallic waste and scrap, Canada	70	23,500	141	47,900
Grand total	3,450	7,610,000	22,800	51,700,000

-- Zero.

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

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

³Customs 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.

⁴Less 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 MAY 2019^{1,2}

Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	January–May ³	
			Gross weight (metric tons)	F.a.s. ⁴ value (thousands)
Ore and concentrates with 20% or more manganese:				
Bahamas	--	--	6	\$6
Canada	42	\$44	112	110
India	(5)	5	(5)	5
Mexico	--	--	14	13
Netherlands	11	58	203	412
Singapore	--	--	73	120
Total	53	107	409	666
Ferromanganese:				
2% or less carbon:				
Canada	23	40	1,060	1,890
Chile	--	--	9	17
China	--	--	24	47
Guatemala	8	16	8	16
United Kingdom	3	5	27	52
Other [2 countries and (or) localities]	4	8	4	8
Total	38	69	1,140	2,030
More than 2% carbon:				
Canada	14	27	3,440	4,420
China	16	46	16	46
United Kingdom	--	--	26	73
Total	30	73	3,490	4,540
Silicomanganese:				
Canada	--	--	79	99
Mexico	--	--	4	9
Total	--	--	83	108
Metal, including alloys and waste and scrap:⁶				
Canada	40	101	57	201
China	--	--	1	12
Costa Rica	(5)	4	(5)	19
Germany	--	--	(5)	5
Guatemala	--	--	2	19
Hungary	(5)	4	(5)	4
India	92	32	131	48
Jamaica	--	--	3	13
Japan	--	--	39	145
Malaysia	722	455	2,690	1,250
Mexico	2	34	36	311
New Zealand	--	--	(5)	5
Norway	--	--	17	67
Pakistan	183	51	403	119
Peru	--	--	2	14
Total	1,040	681	3,380	2,230
Grand total	1,160	930	8,490	9,580

-- Zero.

¹Presentation of monthly data is based on the "January–May" quantities of the leading countries.

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

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

⁴Free alongside ship.

⁵Less than ½ unit.

⁶Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN MAY 2019, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–May ²		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	1,790	\$1,530	South Africa 830; \$594	8,270	\$5,910	South Africa 3,740; \$2,150
Manganites, manganates, and other permanganates	--	--	--	19	44	China 19; \$44
Potassium permanganate	231	579	India 231; \$579	524	1,340	India 518; \$1,320
Sodium permanganate	101	233	China 82; \$183	382	875	China 363; \$824
Sulfates, basket category, including manganese sulfate	5,370	4,410	Mexico 2,470; \$1,960	23,100	20,100	Mexico 10,200; \$7,370
Exports:						
Manganese dioxide	342	759	Canada 144; \$149	2,390	4,350	Canada 1,230; \$1,250
Manganese oxides other than dioxide	472	931	Poland 80; \$106	2,380	4,500	Poland 361; \$472
Manganites, manganates, and other permanganates	21	68	Mexico 19; \$65	77	232	Mexico 39; \$154
Potassium permanganate	307	766	Belgium 147; \$348	1,740	4,710	Belgium 778; \$1,880
Sodium permanganate	39	83	Belgium 39; \$83	280	669	Belgium 210; \$454
Sulfates, basket category, including manganese sulfate	2,960	3,410	Canada 2,400; \$1,070	9,520	14,300	Canada 7,180; \$4,830

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.