

Mineral Industry Surveys

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MANGANESE IN JULY 2018

Preliminary data for July 2018 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 30,000 metric tons (t) (gross weight). This was 3% less than the amount consumed in June 2018 (31,100 t) (fig. 1). Manganese ore consumption in the first 7 months of 2018 was 227,000 t; this was about 4% less than that during the same period in 2017 (236,000 t) (fig. 1). Industry stocks of ore at the end of July 2018 were estimated to be 149,000 t, 4% less than the amount at the end of June 2018 (156,000 t).

On a gross-weight basis, U.S. imports of manganese ore in July 2018 were 68,300 t, up from 934 t in June 2018 (fig. 1, table 5).

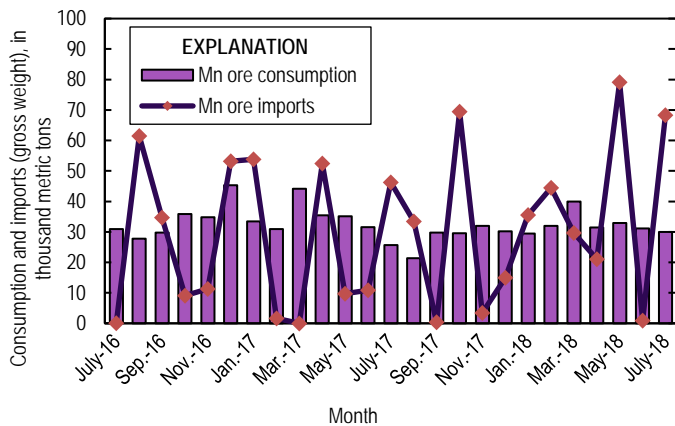


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from July 2016 through July 2018. Sources: U.S. Census Bureau and U.S. Geological Survey.

In July 2018, the average spot prices for manganese ore deliveries to China were \$6.42 per metric ton unit, 36%–39% grade and \$6.75 per metric ton unit, 44% grade (fig. 2, table 1). Compared with June 2018 prices, they were slightly more for the 36%–39% grade and 3% more for the 44% grade. Compared with the prices of December 2016, they were 20% lower for the 36%–39% grade and 24% lower for the 44% grade. However, they were both more than 2 times those of July 2016.

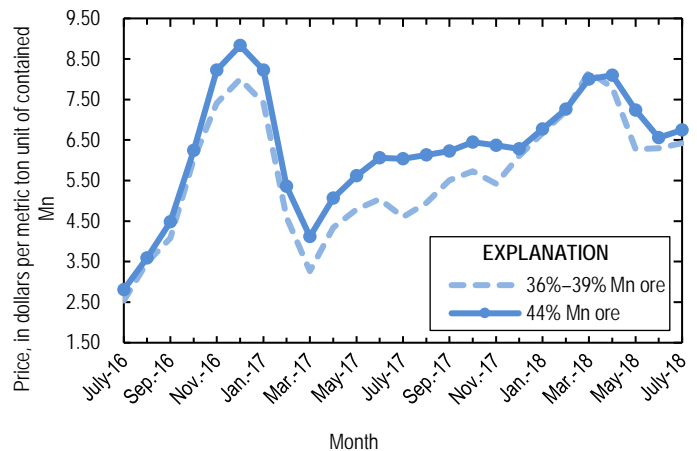


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from July 2016 through July 2018. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JULY 2018

		Low	Average	High
<u>Manganese ferroalloys:¹</u>				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,400.00	1,433.75	1,500.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	112.00	113.50	115.00
Silicomanganese, 65% manganese	do.	63.00	64.00	65.00
<u>Manganese metal, 99.9% manganese flake²</u>	cents per pound	143.00	149.28	160.00
<u>Manganese ore:^{3,4}</u>				
36%–39% manganese	dollars per metric ton unit contained manganese	6.10	6.42	6.50
44% manganese	do.	6.70	6.75	6.83

do. Ditto.

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

²CRU Group North American transaction prices, electrolytic manganese metal flake, 99.99% manganese, free-on-board producing point or Chicago/Pittsburgh warehouse; Average prices reported for the price range.

³CRU Group, 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
2017:						
July	27,800	57,300	85,100	121 ^r	411	532 ^r
January–July	115,000	290,000	405,000	366 ^r	9,620	9,990
2018:						
January	17,300	66,800	84,000	18	221	239
February	23,200	34,700	57,900	48 ^r	806 ^r	853 ^r
March	10,600	59,300	69,900	26 ^r	993	1,020
April	10,500	41,700	52,200	16	1,250	1,260
May	36,500	67,700	104,000	30	1,240	1,270
June	754 ^r	56,800	57,500	30	1,800	1,830
July	32,900	35,900	68,800	1,180	1,740	2,910
January–July	132,000	363,000	494,000	1,340	8,050	9,390

^rRevised. -- Zero.

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 JULY 2018¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July ²		
				Gross weight	Mn content	Customs value ³
Australia	8,930	5,240	\$10,400,000	54,300	34,700	\$68,000,000
Belgium	--	--	--	1,890	1,240	2,300,000
Brazil	--	--	--	2,970	1,980	3,100,000
Georgia	1,460	1,070	1,670,000	65,500	47,500	76,600,000
India	243	142	350,000	1,820	1,070	2,640,000
Malaysia	5,500	3,580	6,800,000	15,900	10,300	19,300,000
Mexico	2,180	1,420	2,470,000	16,100	10,800	18,200,000
Norway	--	--	--	13,200	8,750	18,600,000
Russia	2,960	1,990	3,630,000	8,960	5,990	11,300,000
Saudi Arabia	--	--	--	5,010	3,310	4,810,000
South Africa	2,000	1,300	2,200,000	31,000	20,200	34,200,000
Spain	5,490	3,580	6,580,000	12,700	8,410	15,900,000
Taiwan	--	--	--	200	132	237,000
Total	28,800	18,300	34,100,000	230,000	154,000	275,000,000

-- 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 JULY 2018¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July ²		
				Gross weight	Mn content	Customs value ³
Low carbon:						
China	469	441	\$964,000	2,810	2,630	\$5,980,000
France	--	--	--	19	15	58,900
Germany	39	34	103,000	264	233	657,000
Japan	--	--	--	100	80	165,000
Korea, Republic of	1,830	1,680	4,310,000	6,420	5,910	13,600,000
Mexico	--	--	--	1,500	1,220	2,240,000
Norway	2,300	1,860	3,840,000	28,200	22,800	47,400,000
South Africa	--	--	--	82	71	138,000
Vietnam	--	--	--	240	216	529,000
Total	4,630	4,010	9,210,000	39,700	33,200	70,800,000
Medium carbon, 1%–2% C:						
China	--	--	--	145	119	319,000
France	--	--	--	2,900	2,360	4,600,000
Korea, Republic of	5,800	4,640	9,250,000	22,500	18,000	35,700,000
Mexico	997	800	1,530,000	4,090	3,240	6,520,000
Norway	2,500	2,040	3,790,000	11,300	9,200	17,500,000
South Africa	1,000	805	1,690,000	18,400	14,800	31,200,000
Total	10,300	8,280	16,300,000	59,400	47,700	95,800,000
High carbon:						
Australia	--	--	--	33,800	25,800	44,700,000
Brazil	408	310	714,000	3,030	1,850	3,490,000
France	--	--	--	4	3	8,120
Georgia	--	--	--	3,100	2,410	3,930,000
India	270	204	302,000	3,690	1,470	4,340,000
Korea, Republic of	800	608	981,000	2,340	1,780	4,390,000
Malaysia	1,030	782	1,240,000	34,600	26,300	44,200,000
Mexico	--	--	--	110	88	159,000
Norway	--	--	--	3,090	2,390	3,870,000
Russia	--	--	--	13,900	10,600	14,100,000
Saudi Arabia	40	25	69,000	277	176	430,000
South Africa	1,670	1,270	2,190,000	25,900	19,700	34,400,000
Spain	--	--	--	18,700	14,200	22,800,000
Ukraine	--	--	--	6,040	4,610	6,040,000
Total	4,220	3,200	5,500,000	149,000	111,000	187,000,000
Grand total	19,100	15,500	31,000,000	248,000	192,000	353,000,000

-- 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 JULY 2018¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July ²		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Cote d'Ivoire	--	--	--	27	12	\$11,000
Gabon	--	--	--	9,610	4,130	1,910,000
Mexico	14,000	4,890	\$3,190,000	15,500	5,450	3,560,000
South Africa	--	--	--	59,400	21,100	12,400,000
Total	14,000	4,890	3,190,000	84,600	30,700	17,900,000
47% or more manganese:						
Australia	6,000	2,840	2,120,000	13,500	6,430	5,220,000
Brazil	103	61	57,300	700	431	367,000
China	--	--	--	2	2	4,400
Gabon	47,900	24,600	13,800,000	176,000	90,000	51,100,000
Mexico	--	--	--	2,050	1,090	1,100,000
Morocco	39	22	50,900	77	44	102,000
South Africa	200	97	87,800	2,110	1,020	887,000
Turkey	57	44	27,700	76	59	36,800
Total	54,200	27,700	16,100,000	195,000	99,100	58,800,000
Grand total	68,300	32,600	19,300,000	279,000	130,000	76,700,000

-- 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.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE
IN JULY 2018¹

(Metric tons, gross weight)

Source	Quantity	Customs value ³	January–July ²	
			Quantity	Customs value ³
Belgium	--	--	40	\$71,700
Brazil	--	--	21	36,100
China	6	\$23,800	43	106,000
France	14	23,800	14	23,800
Germany	6	10,100	25	42,200
India	--	--	5	8,490
Japan	414	916,000	3,020	6,690,000
Mexico	--	--	(4)	2,210
Morocco	--	--	19	86,600
Spain	16	27,300	60	102,000
Ukraine	--	--	23	38,700
Total	456	1,000,000	3,270	7,210,000

-- 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 JULY 2018¹

(Metric tons)

Source	Gross weight	Customs value ³	January-July ²	
			Gross weight	Customs value ³
Unwrought flake:				
China	579	\$1,060,000	3,170	\$5,270,000
Hong Kong	--	--	42	90,700
Japan	12	369,000	152	1,480,000
South Africa	261	563,000	2,420	5,430,000
Vietnam	--	--	100	221,000
Total	852	2,000,000	5,880	12,500,000
Unwrought powder:				
China	38	89,300	80	176,000
Mexico	36	122,000	138	467,000
South Africa	140	386,000	802	2,170,000
Total	214	598,000	1,020	2,820,000
Unwrought, other:				
China	903	1,770,000	7,800	14,600,000
Germany	93	201,000	775	1,590,000
Poland	--	--	(4)	6,310
South Africa	--	--	428	978,000
Spain	--	--	3	4,280
Total	996	1,970,000	9,010	17,200,000
Other manganese, wrought:				
China	6	14,700	18	49,900
France	--	--	(4)	2,150
Germany	20	221,000	182	2,120,000
India	(4)	5,640	(4)	5,640
Japan	--	--	(4)	142,000
Malaysia	--	--	(4)	3,040
Mexico	--	--	74	203,000
Poland	--	--	(4)	9,250
Sweden	--	--	9	85,600
Total	26	241,000	284	2,620,000
Metallic waste and scrap, Canada	--	--	246	78,500
Grand total	2,090	4,810,000	16,400	35,200,000

-- 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 LOCALITIES OF DESTINATION
IN JULY 2018^{1,2}

Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	January–July ³	
			Gross weight (metric tons)	F.a.s. ⁴ value (thousands)
Ore and concentrates with 20% or more manganese:				
Belgium	--	--	19	\$75
Canada	52	\$52	209	198
Mexico	2,280	1,880	2,320	1,920
Netherlands	16	63	134	615
Total	2,350	2,000	2,680	2,810
Ferromanganese:				
2% or less carbon:				
Canada	--	--	700	1,210
Honduras	--	--	2	11
Mexico	--	--	38	104
Morocco	--	--	4	8
Taiwan	--	--	10	18
Total	--	--	753	1,350
More than 2% carbon:				
Australia	--	--	1	4
Canada	1,410	2,080	4,270	6,170
Costa Rica	--	--	4	18
Netherlands	1	4	1	4
United Kingdom	10	28	10	28
Other [3 countries and (or) localities]	2	5	108	108
Total	1,430	2,120	4,400	6,330
Silicomanganese,				
Canada	319	459	2,290	3,280
Mexico	--	--	2	3
Total	319	459	2,300	3,280
Metal, including alloys and waste and scrap:⁵				
Canada	--	--	12	47
China	--	--	3	53
Costa Rica	(6)	5	1	40
France	--	--	9	36
Germany	--	--	1	11
India	11	45	218	241
Japan	--	--	59	196
Korea, Republic of	--	--	(6)	4
Malaysia	387	124	1,790	946
Mexico	(6)	3	145	973
South Africa	--	--	216	184
Venezuela	--	--	7	6
Other [5 countries and (or) localities]	(6)	3	2	20
Total	399	179	2,460	2,760
Grand total	4,490	4,760	12,600	16,500

-- Zero.

¹Presentation of monthly data is based on the "January–July" quantities of the leading countries and (or) localities.

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.

⁵Includes manganese-aluminum, other alloys, and waste and scrap.

⁶Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN JULY 2018, BY CLASS¹

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)	January–July ²		
				Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	2,130	\$2,010	Korea, Republic of 833; \$885	22,300	\$18,200	South Africa 10,940; \$6,540
Manganites, manganates, and other permanganates	(4)	6	Canada (4); \$6	20	48	Hong Kong 20; \$42
Potassium permanganate	109	309	India 108; \$286	841	2,220	India 820; \$2,140
Sodium permanganate	78	167	China 78; \$167	783	1,760	China 766; \$1,710
Sulfates, basket category, including manganese sulfate	6,320	4,670	China 2,590; \$1,810	37,500	32,000	China 14,400; \$11,700
Exports:						
Manganese dioxide	654	1,150	Canada \$450; \$431	4,250	6,430	Canada 2,760; \$2,460
Manganese oxides other than dioxide	480	834	Poland 80; \$102	3,730	6,750	United Kingdom 644; \$846
Manganites, manganates, and other permanganates	5	14	Canada 4; \$7	148	551	Mexico 117; \$477
Potassium permanganate	181	557	Belgium 108; \$263	1,930	5,480	Belgium 894; \$2,180
Sodium permanganate	82	557	Spain 38; \$443	499	1,790	Belgium 152; \$302
Sulfates, basket category, including manganese sulfate	1,540	2,440	Canada 1,220; \$922	12,100	18,000	Canada 8,550; \$6,230

-- Zero.

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

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

³For imports, customs value; for exports, free alongside ship value.

⁴Less than ½ unit.

Source: U.S. Census Bureau.