

Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2019

On a gross-weight basis, U.S. imports of manganese ore in September 2019 decreased to 16,000 metric tons (t) from 57,500 t in August 2019 (fig. 1, table 5). Imports for the year through September totaled 244,000 t, 36% less compared with imports in the same period in 2018.

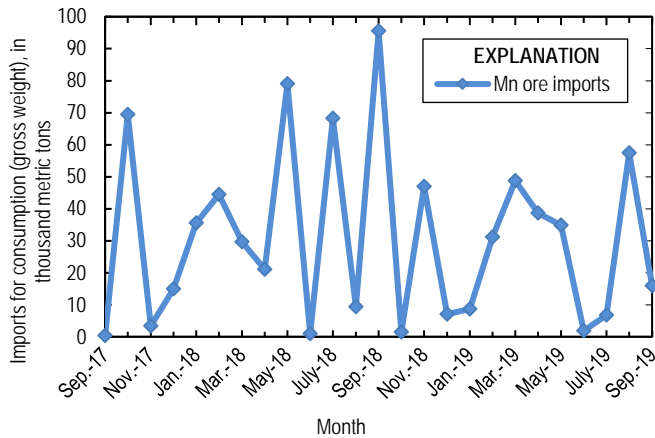


Figure 1. Monthly imports of manganese (Mn) ore from September 2017 through September 2019. Source: U.S. Census Bureau.

In September 2019, the average spot prices for manganese ore deliveries to China were \$4.93 per metric ton unit, 36%–39% grade, and \$5.49 per metric ton unit, 44% grade (fig. 2, table 1). Compared with August 2019 prices, the 36%–39%-grade price was 7% less and the 44%-grade price was 5% less. Compared with the monthly average prices in September 2018, the 36%–

39%-grade price was 25% less and the 44%-grade price was 22% less.

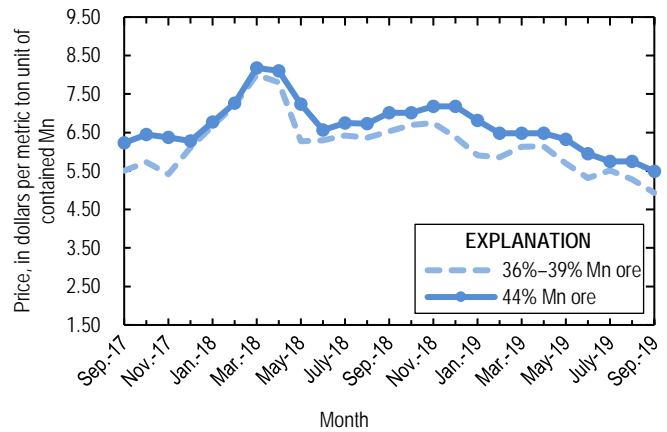


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from September 2017 through September 2019. Source: CRU Group.

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

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,330.00	1,358.75	1,387.50
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	112.00	112.50	113.00
Silicomanganese, 65% manganese	do.	63.00	63.88	64.75
Manganese metal, 99.7% manganese flake ²	cents per pound	98.00	101.75	105.00
Manganese ore:^{3, 4}				
36%–39% manganese	dollars per metric ton unit contained manganese	4.70	4.93	5.10
44% manganese	do.	4.95	5.49	5.85

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:						
September	40,600	33,600 ^r	74,300	35	1,080	1,110
January–September	178,000	482,000 ^r	659,000 ^r	1,410	10,300 ^r	11,700 ^r
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
June	924	50,800	51,700	31	946	977
July	3,400	28,800	32,200	96	1,610	1,700
August	30,500	52,900	83,400	11	1,260	1,270
September	10,100	45,100	55,100	76	1,330	1,410
January–September	132,000	433,000	565,000	419	12,200	12,600

^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 SEPTEMBER 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–September ²		
				Gross weight	Mn content	Customs value ³
Australia	16,200	10,800	\$20,700,000	54,700	36,300	\$69,300,000
Brazil	--	--	--	631	413	639,000
Georgia	887	640	1,010,000	67,500	50,000	83,900,000
India	--	--	--	267	157	388,000
Malaysia	3,640	2,370	4,140,000	26,600	17,300	28,100,000
Mexico	4,180	2,720	4,190,000	22,200	14,400	24,000,000
Norway	5,750	3,840	6,740,000	38,600	25,600	46,000,000
Russia	--	--	--	1	1	2,720
Saudi Arabia	--	--	--	4,550	2,870	4,470,000
South Africa	5,200	3,380	5,720,000	62,400	40,500	68,600,000
Spain	500	309	711,000	6,510	4,200	7,710,000
Thailand	--	--	--	25	9	38,800
Zambia	--	--	--	140	92	106,000
Total	36,400	24,000	43,200,000	284,000	192,000	333,000,000

-- 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 SEPTEMBER 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–September ²		
				Gross weight	Mn content	Customs value ³
Low carbon:						
China	--	--	--	927	871	\$1,810,000
Germany	59	56	\$145,000	296	275	738,000
Japan	96	75	163,000	865	680	1,480,000
Korea, Republic of	1,000	864	1,730,000	11,000	9,590	21,500,000
Mexico	18	15	47,200	2,230	1,760	3,950,000
Norway	700	566	1,150,000	30,800	24,900	52,200,000
South Africa	100	81	158,000	625	522	1,010,000
Spain	2,400	1,930	4,080,000	9,390	7,580	15,500,000
Vietnam	--	--	--	1	1	3,220
Total	4,380	3,590	7,480,000	56,100	46,200	98,200,000
Medium carbon, 1%–2% C:						
China	--	--	--	21	16	28,000
India	--	--	--	228	181	376,000
Korea, Republic of	1,000	800	1,660,000	13,400	10,700	21,600,000
Malaysia	--	--	--	21	16	30,700
Mexico	298	228	530,000	4,130	3,210	6,700,000
Norway	800	648	1,220,000	10,500	8,540	16,000,000
South Africa	--	--	--	18,000	14,400	31,300,000
Spain	--	--	--	300	242	488,000
Total	2,100	1,680	3,410,000	46,600	37,300	76,600,000
High carbon:						
Australia	13,600	10,300	15,200,000	72,500	55,400	80,800,000
Brazil	670	509	727,000	1,980	1,460	2,150,000
France	1,980	1,510	2,130,000	3,770	2,870	4,110,000
India	250	191	262,000	700	532	781,000
Korea, Republic of	2,000	1,520	2,130,000	3,600	2,750	4,070,000
Malaysia	108	82	112,000	35,200	26,600	31,900,000
Mexico	1	1	2,180	11	8	18,500
Norway	--	--	--	776	602	945,000
Russia	--	--	--	24,300	18,500	21,700,000
Saudi Arabia	--	--	--	60	44	98,200
South Africa	153	94	142,000	19,800	15,000	22,500,000
Spain	--	--	--	19	14	38,700
Ukraine	--	--	--	5,740	4,370	5,060,000
Total	18,700	14,200	20,700,000	168,000	128,000	174,000,000
Grand total	25,200	19,500	31,600,000	271,000	212,000	349,000,000

-- 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 SEPTEMBER 2019¹

Source	(Metric tons)			January–September ²		
	Gross weight	Mn content	Customs value ³	Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Brazil	--	--	--	9,410	4,120	\$1,900,000
China	--	--	--	7	3	3,600
Mexico	8,810	3,360	\$1,810,000	27,300	10,400	5,770,000
South Africa	216	86	52,500	34,300	13,200	8,820,000
Total	9,030	3,450	1,860,000	71,000	27,700	16,500,000
47% or more manganese:						
Brazil	103	51	78,800	667	356	509,000
Gabon	16	8	22,100	165,000	95,000	55,300,000
Mexico	6,600	5,940	944,000	6,600	5,940	944,000
Morocco	--	--	--	77	44	102,000
South Africa	280	136	123,000	1,360	658	585,000
Turkey	--	--	--	4	3	2,380
Total	7,000	6,130	1,170,000	173,000	102,000	57,400,000
Grand total	16,000	9,580	3,030,000	244,000	130,000	73,900,000

-- 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 SEPTEMBER 2019¹

(Metric tons, gross weight)

Source	Quantity	Customs value ³	January–September ²	
			Quantity	Customs value ³
Belgium	--	--	37	\$173,000
Brazil	--	--	104	155,000
China	--	--	51	119,000
Germany	3	\$18,100	23	119,000
Greece	99	223,000	371	943,000
India	423	719,000	477	818,000
Japan	180	419,000	2,590	5,760,000
Morocco	80	122,000	246	404,000
Slovakia	--	--	13	22,500
Total	785	1,500,000	3,910	8,510,000

-- 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 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL
IN SEPTEMBER 2019¹

(Metric tons)

Source	Gross weight	Customs value ³	January–September ²	
			Gross weight	Customs value ³
Unwrought flake:				
China	262	\$593,000	6,070	\$12,200,000
Gabon	--	--	50	122,000
Hong Kong	--	--	33	66,300
Japan	(4)	189,000	2	1,800,000
Mexico	--	--	6	24,500
South Africa	262	570,000	3,240	8,420,000
Switzerland	20	39,500	20	39,500
Total	544	1,390,000	9,420	22,700,000
Unwrought powder:				
China	--	--	79	182,000
Mexico	51	176,000	194	722,000
South Africa	40	132,000	944	2,700,000
Total	92	309,000	1,220	3,600,000
Unwrought, other:				
Belgium	13	36,400	36	86,800
China	540	1,030,000	14,700	29,700,000
Germany	224	537,000	1,710	4,050,000
Japan	--	--	(4)	6,260
Poland	--	--	(4)	6,310
South Africa	61	156,000	761	1,950,000
Spain	--	--	143	245,000
Total	839	1,750,000	17,400	36,100,000
Other manganese, wrought:				
Austria	--	--	(4)	6,040
China	--	--	(4)	27,300
Germany	29	361,237	289	3,530,000
Japan	(4)	20	(4)	67,700
Korea, Republic of	--	--	(4)	51,000
Mexico	39	110,860	478	1,380,000
Sweden	--	--	4	56,300
United Kingdom	--	--	(4)	2,090
Total	69	491,953	772	5,120,000
Metallic waste and scrap, Canada	47	21,100	341	111,000
Grand total	1,660	4,090,000	29,100	67,600,000

-- 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 SEPTEMBER 2019^{1,2}

Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	January–September ³	
			Gross weight (metric tons)	F.a.s. ⁴ value (thousands)
Ore and concentrates with 20% or more manganese:				
Bahamas	--	--	6	\$6
Canada	134	\$116	422	393
India	--	--	(5)	5
Mexico	3	6	16	19
Netherlands	16	83	306	647
Singapore	--	--	86	132
Total	153	205	837	1,200
Ferromanganese:				
2% or less carbon:				
Canada	--	--	1,120	2,000
China	--	--	28	54
Taiwan	--	--	6	11
United Kingdom	--	--	29	55
Other [5 countries and (or) localities]	--	--	26	49
Total	--	--	1,210	2,170
More than 2% carbon:				
Canada	123	233	3,680	4,790
China	--	--	16	46
Hong Kong	--	--	1	3
United Kingdom	--	--	26	73
Total	123	233	3,720	4,910
Silicomanganese:				
Canada	206	237	846	973
Mexico	4	8	8	18
Total	210	246	854	991
Metal, including alloys and waste and scrap:⁶				
Australia	--	--	8	8
Brazil	--	--	(5)	8
Canada	2	12	69	275
Costa Rica	(5)	5	1	39
Dominican Republic	21	15	21	15
France	15	5	15	5
Germany	(5)	6	1	14
Guatemala	--	--	2	19
Guyana	--	--	4	13
Hungary	--	--	(5)	4
India	--	--	139	78
Japan	--	--	85	319
Malaysia	1,020	401	6,410	3,190
Mexico	1	32	43	409
New Zealand	--	--	(5)	5
Norway	8	427	25	494
Pakistan	--	--	900	263
Turkey	33	12	36	22
Other [5 countries and (or) localities]	--	--	12	65
Total	1,100	916	7,770	5,250
Grand total	1,580	1,600	14,400	14,500

-- Zero.

¹Presentation of monthly data is based on the "January–September" 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.

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

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)	January–September 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	1,810	\$1,220	Republic of Korea 674; \$388	12,800	\$9,260	South Africa 5,320; \$3,300
Manganites, manganates, and other permanganates	--	--	--	38	90	China 38; \$87
Potassium permanganate	119	285	India 119; \$285	934	2,330	India 927; \$2,300
Sodium permanganate	125	237	China 125; \$237	738	1,570	China 719; \$1,520
Sulfates, basket category, including manganese sulfate	4,620	5,450	Mexico 2,036; \$1,990	39,800	36,100	Mexico 16,900; \$13,200
Exports:						
Manganese dioxide	423	454	Canada 310; \$243	4,510	7,110	Canada 2,350; \$2,200
Manganese oxides other than dioxide	453	1,090	Poland 60; \$79	3,710	7,320	Poland 601; \$789
Manganites, manganates, and other permanganates	29	58	Canada 29; \$58	155	455	Canada 113; \$225
Potassium permanganate	391	117	Belgium 89; \$36	7,250	2,550	Belgium 2,630; \$1,090
Sodium permanganate	57	141	Spain 38; \$82	573	1,410	Belgium 344; \$744
Sulfates, basket category, including manganese sulfate	2,020	2,880	Canada 1,610; \$993	18,900	27,200	Canada 14,600; \$8,670

-- 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.

Source: U.S. Census Bureau.