

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2019

On a gross-weight basis, U.S. imports of manganese ore in October 2019 increased to 112,000 metric tons (t) from 16,000 t in September 2019 (fig. 1, table 5). Imports for the year through October totaled 357,000 t, 8% less compared with imports in the same period in 2018.

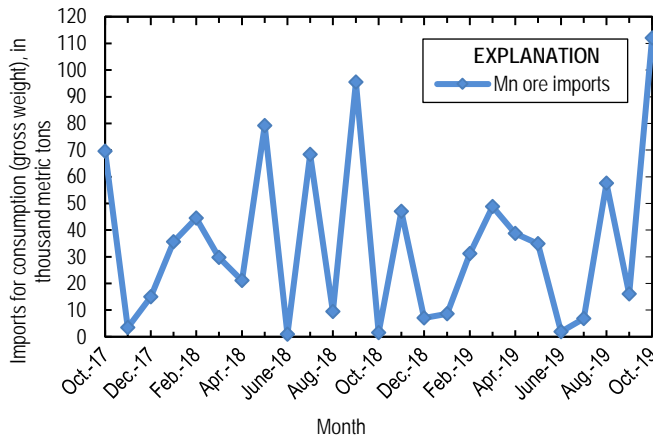


Figure 1. Monthly imports of manganese (Mn) ore from October 2017 through October 2019. Source: U.S. Census Bureau.

In October 2019, the average spot prices for manganese ore deliveries to China were \$4.29 per metric ton unit, 36%–39% grade, and \$4.72 per metric ton unit, 44% grade (fig. 2, table 1). Compared with September 2019 prices, the 36%–39%-grade price was 13% less and the 44%-grade price was 14% less. Compared with the monthly average prices in October 2018, the

36%–39%-grade price was 36% less and the 44%-grade price was 33% less.

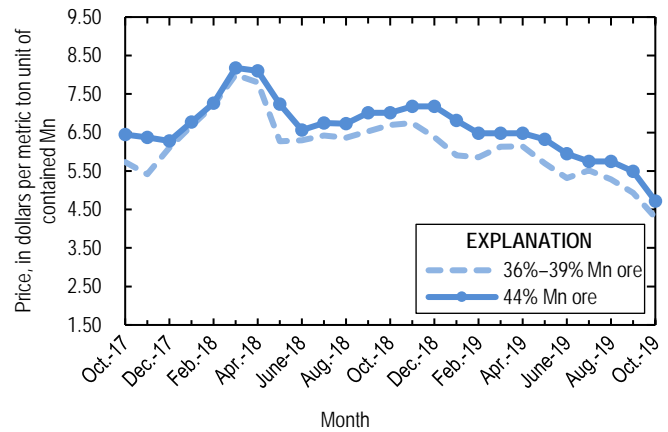


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from October 2017 through October 2019. Source: CRU Group.

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

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,234.00	1,263.00	1,292.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	110.40	111.00	111.60
Silicomanganese, 65% manganese	do.	58.20	59.90	61.60
Manganese metal, 99.7% manganese flake ²	cents per pound	98.00	100.50	103.00
Manganese ore:^{3, 4}				
36%–39% manganese	dollars per metric ton unit contained manganese	3.25	4.29	4.90
44% manganese	do.	3.60	4.72	5.20

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:						
October	1,100	37,600	38,700	16	1,420	1,440
January–October	179,000	519,000 ^r	698,000 ^r	1,430	11,700 ^r	13,100 ^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
October	71,800	23,200	95,000	69	948	1,020
January–October	204,000	456,000	659,000	488	13,200	13,700

^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 OCTOBER 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–October ²		
				Gross weight	Mn content	Customs value ³
Australia	--	--	--	54,700	36,300	\$69,300,000
Brazil	--	--	--	631	413	639,000
Georgia	699	511	\$794,000	68,200	50,500	84,700,000
Iceland	166	131	138,000	166	131	138,000
India	--	--	--	267	157	388,000
Malaysia	--	--	--	26,600	17,300	28,100,000
Mexico	2,980	1,930	2,980,000	25,200	16,400	27,000,000
Norway	1,550	953	2,150,000	40,200	26,600	48,100,000
Russia	--	--	--	1	1	2,720
Saudi Arabia	--	--	--	4,550	2,870	4,470,000
South Africa	--	--	--	62,400	40,500	68,600,000
Spain	500	302	686,000	7,010	4,500	8,400,000
Thailand	--	--	--	25	9	38,800
Zambia	--	--	--	140	92	106,000
Total	5,890	3,830	6,750,000	290,000	196,000	340,000,000

-- 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 OCTOBER 2019¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–October ²		
				Gross weight	Mn content	Customs value ³
Low carbon:						
China	--	--	--	927	871	\$1,810,000
Germany	74	71	\$190,000	370	346	928,000
Japan	96	75	163,000	961	755	1,640,000
Korea, Republic of	--	--	--	11,000	9,590	21,500,000
Mexico	18	15	47,200	2,250	1,780	3,990,000
Norway	900	729	1,520,000	31,700	25,700	53,700,000
South Africa	50	42	80,200	675	563	1,090,000
Spain	500	396	799,000	9,890	7,980	16,300,000
Vietnam	--	--	--	1	1	3,220
Total	1,640	1,330	2,800,000	57,800	47,600	101,000,000
Medium carbon, 1%–2% C:						
China	--	--	--	21	16	28,000
India	--	--	--	228	181	376,000
Korea, Republic of	--	--	--	13,400	10,700	21,600,000
Malaysia	--	--	--	21	16	30,700
Mexico	40	32	68,900	4,170	3,240	6,770,000
Norway	400	323	612,000	10,900	8,870	16,600,000
South Africa	1,300	1,050	2,310,000	19,300	15,400	33,600,000
Spain	--	--	--	300	242	488,000
Total	1,740	1,400	2,990,000	48,300	38,700	79,500,000
High carbon:						
Australia	--	--	--	72,500	55,400	80,800,000
Brazil	123	92	122,000	2,110	1,550	2,280,000
France	197	150	238,000	3,960	3,020	4,350,000
India	398	303	419,000	1,100	835	1,200,000
Korea, Republic of	--	--	--	3,600	2,750	4,070,000
Malaysia	8,470	6,430	7,620,000	43,600	33,100	39,500,000
Mexico	3	2	5,170	14	11	23,700
Norway	--	--	--	776	602	945,000
Russia	2,150	1,640	2,040,000	26,400	20,100	23,800,000
Saudi Arabia	--	--	--	60	44	98,200
South Africa	4,610	3,560	5,430,000	24,400	18,500	27,900,000
Spain	--	--	--	19	14	38,700
Ukraine	--	--	--	5,740	4,370	5,060,000
Zambia	175	140	181,000	175	140	181,000
Total	16,100	12,300	16,100,000	184,000	140,000	190,000,000
Grand total	19,500	15,100	21,800,000	291,000	227,000	371,000,000

-- 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 OCTOBER 2019¹

Source	(Metric tons)			January–October ²		
	Gross weight	Mn content	Customs value ³	Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Brazil	6,760	3,070	\$1,430,000	16,200	7,190	\$3,330,000
China	--	--	--	7	3	3,600
Mexico	--	--	--	27,300	10,400	5,770,000
South Africa	7,110	3,080	1,480,000	41,500	16,300	10,300,000
Total	13,900	6,150	2,910,000	84,900	33,800	19,400,000
47% or more manganese:						
Brazil	3,030	1,530	800,000	3,700	1,880	1,310,000
Gabon	84,800	58,700	22,500,000	250,000	154,000	77,800,000
Mexico	10,000	5,110	1,960,000	16,600	11,000	2,900,000
Morocco	100	49	45,800	177	93	148,000
South Africa	200	97	87,800	1,560	755	673,000
Turkey	--	--	--	4	3	2,380
Total	98,200	65,500	25,400,000	272,000	167,000	82,800,000
Grand total	112,000	71,600	28,300,000	357,000	201,000	102,000,000

-- 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 OCTOBER 2019¹

(Metric tons, gross weight)

Source	Quantity	Customs value ³	January–October ²	
			Quantity	Customs value ³
Belgium	--	--	37	\$173,000
Brazil	--	--	104	155,000
China	4	\$13,800	54	132,000
Germany	--	--	23	119,000
Greece	99	222,000	470	1,160,000
India	--	--	477	818,000
Japan	162	374,000	2,750	6,130,000
Morocco	--	--	246	404,000
Slovakia	--	--	13	22,500
Spain	19	31,900	19	31,900
Total	283	641,000	4,190	9,150,000

-- 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 OCTOBER 2019¹

(Metric tons)

Source	Gross weight	Customs value ³	January–October ²	
			Gross weight	Customs value ³
Unwrought flake:				
China	550	\$1,100,000	6,620	\$13,300,000
Gabon	--	--	50	122,000
Hong Kong	--	--	33	66,300
Japan	(4)	189,000	2	1,990,000
Mexico	--	--	6	24,500
South Africa	124	255,000	3,360	8,680,000
Switzerland	--	--	20	39,500
Total	673	1,550,000	10,100	24,300,000
Unwrought powder:				
China	20	34,400	99	216,000
Mexico	16	58,000	210	780,000
South Africa	--	--	944	2,700,000
Total	36	92,400	1,250	3,690,000
Unwrought, other:				
Belgium	--	--	36	86,800
China	3,260	6,380,000	18,000	36,100,000
Germany	103	239,000	1,810	4,290,000
Japan	--	--	(4)	6,260
Poland	--	--	(4)	6,310
South Africa	139	362,000	899	2,310,000
Spain	--	--	143	245,000
Total	3,500	6,980,000	20,900	43,100,000
Other manganese, wrought:				
Austria	--	--	(4)	6,040
China	--	--	(4)	27,300
Germany	26	320,000	315	3,850,000
Japan	--	--	(4)	67,700
Korea, Republic of	--	--	(4)	51,000
Mexico	40	87,800	517	1,470,000
Sweden	5	73,600	10	130,000
United Kingdom	--	--	(4)	2,090
Total	71	482,000	843	5,600,000
Metallic waste and scrap, Canada	23	7,750	364	119,000
Grand total	4,310	9,100,000	33,500	76,800,000

-- 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 OCTOBER 2019^{1, 2}

Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	January–October ³	
			Gross weight (metric tons)	F.a.s. ⁴ value (thousands)
Ore and concentrates with 20% or more manganese:				
Bahamas	--	--	6	\$6
Canada	31	\$32,200	453	425
India	19	27,800	19	33
Mexico	7	6,510	23	26
Netherlands	--	--	306	647
Singapore	--	--	86	132
United Kingdom	81	63,000	81	63
Total	137	130,000	975	1,330
Ferromanganese:				
2% or less carbon:				
Canada	--	--	1,120	2,000
China	--	--	28	54
Taiwan	--	--	6	11
United Kingdom	--	--	29	55
Other [6 countries and (or) localities]	--	--	28	55
Total	--	--	1,210	2,180
More than 2% carbon:				
Canada	5	9	3,680	4,800
China	--	--	16	46
Hong Kong	--	--	1	3
United Kingdom	--	--	26	73
Total	5	9	3,720	4,920
Silicomanganese:				
Canada	163	197	1,010	1,170
Mexico	--	--	8	18
Total	163	197	1,020	1,190
Metal, including alloys and waste and scrap:⁵				
Australia	--	--	8	8
Brazil	(6)	5	(6)	14
Canada	24	43	93	319
Costa Rica	(6)	5	1	44
Dominican Republic	--	--	21	15
France	--	--	15	5
Germany	--	--	1	14
Guatemala	--	--	2	19
Guyana	--	--	4	13
Hungary	--	--	(6)	4
India	43	15	182	93
Japan	--	--	85	319
Malaysia	758	410	7,160	3,600
Mexico	(6)	9	43	417
New Zealand	--	--	(6)	5
Norway	--	--	25	494
Pakistan	--	--	900	263
Turkey	--	--	36	22
Other [6 countries and (or) localities]	10	7	23	73
Total	834	495	8,600	5,740
Grand total	1,140	130,000	15,500	15,400

-- Zero.

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

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

⁶Less than ½ unit.

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

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)	January–October 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	1,430	\$1,110	Republic of Korea 460; \$347	14,200	\$10,400	South Africa 5,670; \$3,406
Manganites, manganates, and other permanganates	21	53	China 21; \$53	59	144	China 59; \$140
Potassium permanganate	146	353	India 145; \$347	1,080	2,680	India 1,070; \$2,650
Sodium permanganate	75	137	China 75; \$137	812	1,710	China 793; \$1,660
Sulfates, basket category, including manganese sulfate	3,640	3,450	Mexico 1,400; \$1,110	43,400	39,500	Mexico 18,300; \$14,300
Exports:						
Manganese dioxide	547	563	Canada 449; \$347	5,060	7,670	Canada 2,800; \$2,540
Manganese oxides other than dioxide	465	683	Norway 114; \$153	4,170	8,000	Poland 701; \$921
Manganites, manganates, and other permanganates	7	14	Canada 7; \$14	162	469	Canada 120; \$238
Potassium permanganate	141	448	Belgium 53; \$134	2,690	7,700	Belgium 1,140; \$2,770
Sodium permanganate	106	243	Spain 38; \$83	678	1,650	Belgium 382; \$826
Sulfates, basket category, including manganese sulfate	1,700	2,850	Canada 1,260; \$1,250	20,600	30,000	Canada 15,800; \$9,920

-- 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.