

Mineral Industry Surveys

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MANGANESE IN AUGUST 2019

On a gross-weight basis, U.S. imports of manganese ore in August 2019 increased to 57,500 metric tons (t) from 6,820 t in July 2019 (fig. 1, table 5). Imports for the year through August totaled 228,000 t, 21% less compared with imports in the same period in 2018.

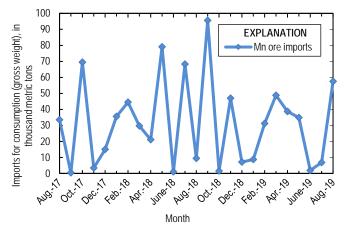


Figure 1. Monthly imports of manganese (Mn) ore from August 2017 through August 2019. Source: U.S. Census Bureau.

In August 2019, the average spot prices for manganese ore deliveries to China were \$5.28 per metric ton unit, 36%–39% grade, and \$5.75 per metric ton unit, 44% grade (fig. 2, table 1). Compared with July 2019 prices, the 36%–39%-grade price was 4% less and the 44%-grade price was unchanged. Compared with the monthly average prices in August 2018, the 36%–39%-

grade price was 17% less and the 44%-grade price was 15% less.

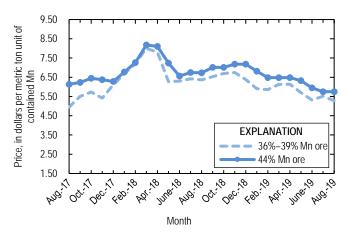


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from August 2017 through August 2019. Source: CRU Group.

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https://www.usgs.gov/centers/nmic/minerals-informationpublication-list-services.

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

		Low	Average	High
Manganese ferroalloys:1				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,330.00	1,385.00	1,440.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	112.00	113.00	114.00
Silicomanganese, 65% manganese	do.	63.00	64.38	65.75
Manganese metal, 99.7% manganese flake ²	cents per pound	100.00	112.50	120.00
Manganese ore: ^{3, 4}				
36%-39% manganese	dollars per metric ton unit contained manganese	5.00	5.28	5.45
44% manganese	do.	5.65	5.75	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 MANGANESE $^{\rm 1}$

(Metric tons, manganese content)²

	Imp	Imports for consumption				
	Ore and	Ore and Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2018:						
August	5,240	84,100	89,300	37	1,360 ^r	1,400 ^r
January–August	137,000	448,000 r	585,000 ^r	1,380	9,220 ^r	10,600 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
January–August	122,000	387,000	509,000	342	10,900	11,200

^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.

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN AUGUST 2019^1

(Metric tons)

					January-Augus	st ²
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Australia				38,500	25,500	\$48,500,000
Brazil				631	413	639,000
Georgia	8,440	6,300	\$10,600,000	66,600	49,400	82,900,000
India				267	157	388,000
Malaysia	6,440	4,190	6,590,000	22,900	14,900	23,900,000
Mexico	3,160	2,050	3,180,000	18,000	11,700	19,800,000
Norway	3,050	1,830	4,230,000	32,900	21,800	39,200,000
Russia				1	1	2,720
Saudi Arabia	4,440	2,790	4,360,000	4,550	2,870	4,470,000
South Africa	7,800	5,070	8,580,000	57,200	37,200	62,900,000
Spain	1,500	977	1,710,000	6,010	3,890	7,000,000
Thailand				25	9	38,800
Zambia				140	92	106,000
Total	34,800	23,200	39,300,000	248,000	168,000	290,000,000

-- 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.

TABLE 4 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN AUGUST 2019^1

(Metric tons)

					January–August ²			
	Gross	Mn	Customs	Gross	Mn	Customs		
Source	weight	content	value ³	weight	content	value ³		
Low carbon:								
China				927	871	\$1,810,000		
Germany				237	220	594,000		
Japan	96	75	\$164,000	769	605	1,320,000		
Korea, Republic of	2,810	2,410	5,190,000	10,000	8,720	19,800,000		
Mexico	38	31	92,400	2,220	1,750	3,900,000		
Norway	3,300	2,670	5,620,000	30,100	24,400	51,100,000		
South Africa	145	118	230,000	525	440	852,000		
Spain	1,000	802	1,600,000	6,990	5,650	11,500,000		
Vietnam				1	1	3,220		
Total	7,390	6,100	12,900,000	51,800	42,600	90,800,000		
Medium carbon, 1%–2% C:								
China				21	16	28,000		
India				228	181	376,000		
Korea, Republic of	2,500	2,000	4,130,000	12,400	9,880	20,000,000		
Malaysia				21	16	30,700		
Mexico	77	61	161,000	3,830	2,980	6,170,000		
Norway	1,800	1,460	2,760,000	9,700	7,900	14,700,000		
South Africa	5,190	4,150	9,070,000	18,000	14,400	31,300,000		
Spain				300	242	488,000		
Total	9,570	7,680	16,100,000	44,500	35,600	73,100,000		
High carbon:		,	, ,	,	,			
Australia				58,900	45,000	65,600,000		
Brazil				1,320	949	1,430,000		
France	989	757	1,060,000	1,790	1,370	1,980,000		
India	250	191	279,000	450	342	520,000		
Korea, Republic of				1,600	1,230	1,940,000		
Malaysia	5,100	3,870	4,460,000	35,100	26,600	31,700,000		
Mexico				10	7	16,300		
Norway	470	365	573,000	776	602	945,000		
Russia	4,700	3,600	4,220,000	24,300	18,500	21,700,000		
Saudi Arabia				60	44	98,200		
South Africa	7,380	5,630	8,240,000	19,600	14,900	22,300,000		
Spain	19	14	38,700	19	14	38,700		
Ukraine	203	155	181,000	5,740	4,370	5,060,000		
Total	19,100	14,600	19,000,000	150,000	114,000	153,000,000		
Grand total	36,100	28,400	48,100,000	246,000	192,000	317,000,000		

-- 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.

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN AUGUST 2019¹

(Metric tons)

				January–August ²			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ³	weight	content	value ³	
More than 20%, but less than 47% manganese:							
Brazil	9,410	4,120	\$1,900,000	9,410	4,120	\$1,900,000	
China				7	3	3,600	
Mexico	10,300	3,950	2,210,000	18,500	7,000	3,970,000	
South Africa	2,810	1,210	687,000	34,100	13,100	8,770,000	
Total	22,500	9,270	4,790,000	62,000	24,200	14,600,000	
47% or more manganese:							
Brazil	100	72	47,000	564	306	430,000	
Gabon	34,700	20,800	10,600,000	165,000	94,900	55,300,000	
Morocco				77	44	102,000	
South Africa	200	97	87,800	1,080	522	462,000	
Turkey				4	3	2,380	
Total	35,000	20,900	10,700,000	166,000	95,800	56,300,000	
Grand total	57,500	30,200	15,500,000	228,000	120,000	70,900,000	

-- 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.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN AUGUST 2019^1

(Metric tons, gross weight)

			January	-August ²
		Customs		Customs
Source	Quantity	value ³	Quantity	value ³
Belgium	19	\$86,600	37	\$173,000
Brazil	19	21,800	104	155,000
China	15	34,200	51	119,000
Germany			20	101,000
Greece	99	226,000	272	719,000
India	37	69,200	54	99,200
Japan	286	654,000	2,410	5,340,000
Morocco	84	142,000	166	282,000
Slovakia			13	22,500
Total	558	1,230,000	3,130	7,010,000

-- 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.

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

(Metric	tons)
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			January–August ²		
	Gross	Customs	Gross	Customs	
Source	weight	value ³	weight	value ³	
Unwrought flake:					
China	222	\$503,000	5,810	\$11,600,000	
Gabon			50	122,000	
Hong Kong			33	66,300	
Japan	(4)	189,000	2	1,610,000	
Mexico			6	24,500	
South Africa	338	897,000	2,980	7,850,000	
Total	560	1,590,000	8,880	21,300,000	
Unwrought powder:					
China			79	182,000	
Mexico	4	13,400	143	546,000	
South Africa	99	294,000	904	2,560,000	
Total	103	307,000	1,130	3,290,000	
Unwrought, other:					
Belgium			23	50,400	
China	308	605,000	14,200	28,700,000	
Germany	77	178,000	1,490	3,520,000	
Japan			(4)	6,260	
Poland			(4)	6,310	
South Africa	67	172,000	699	1,800,000	
Spain	11	18,200	143	245,000	
Total	463	973,000	16,600	34,300,000	
Other manganese, wrought:					
Austria			(4)	6,040	
China			(4)	27,300	
Germany	17	220,000	260	3,170,000	
Japan			(4)	47,900	
Korea, Republic of	(4)	51,000	(4)	51,000	
Mexico	119	314,000	439	1,270,000	
Sweden	3	33,000	4	56,300	
United Kingdom			(4)	2,090	
Total	139	618,000	703	4,630,000	
Metallic waste and scrap, Canada	33	10,500	294	89,700	
Grand total	1,300	3,500,000	27,600	63,700,000	

-- 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 ¹/₂ unit.

TABLE 8 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OR LOCALITY OF DESTINATION

IN AUGUST 2019^{1, 2}

			January–August ³		
Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	
Ore and concentrates with 20% or more manganese:					
Bahamas			6	\$6	
Canada	10	\$8	289	277	
India			(5)	5	
Mexico			14	13	
Netherlands			290	564	
Singapore	13	12	86	132	
Total	22	20	685	997	
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	40	52	3,550	4,560	
China			16	46	
Hong Kong			1	3	
United Kingdom			26	73	
Total	40	52	3,600	4,680	
Silicomanganese:	40	52	5,000	4,000	
Canada	499	564	639	736	
Mexico			4	9	
Total	499	564	643	746	
	477	504	045	740	
Metal, including alloys and waste and scrap: ⁶ Australia			8	0	
Brazil			8 (5)	8	
Canada	6	30	67	8 264	
Costa Rica					
Germany	(5)	6	1	34 8	
			1		
Guatemala			2	19	
Guyana			4	13	
Hungary			(5)	4	
India			139	78	
Japan	(5)	3	85	319	
Malaysia	843	500	5,390	2,790	
Mexico	1	22	42	376	
New Zealand			(5)	5	
Norway			17	67	
Pakistan	42	12	900	263	
Other [6 countries and (or) localities]	3	13	15	73	
Total	894	587	6,670	4,330	
Grand total	1,460	1,220	12,800	12,900	

⁻⁻ Zero.

¹Presentation of monthly data is based on the "January-August" quantities of the leading countries.

 $^2\mbox{Data}$ 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 $^{1\!/_2}$ unit.

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

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

					Janua	ry–August ²
			Principal sources			Principal sources
			and destinations:			and destinations:
	Gross weight	Value ²	gross weight (metric tons);	Gross weight	Value ²	gross weight (metric tons);
Class	(metric tons)	(thousands)	value ² (thousands)	(metric tons)	(thousands)	value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	1,100	\$769	Brazil 435; \$305	11,000	\$8,040	South Africa 4,720; \$2,850
Manganites, manganates, and other permanganates				38	90	China 38; \$87
Potassium permanganate	126	299	India 126; \$299	815	2,040	India 808; \$2,010
Sodium permanganate	94	183	China 94; \$183	612	1,330	China 593; \$1,280
Sulfates, basket category, including manganese sulfate	4,600	3,640	Mexico 1,682; \$1,450	35,200	30,600	Mexico 14,900; \$11,200
Exports:						
Manganese dioxide	698	827	Canada 306; \$281	3,960	6,460	Canada 1,980; \$1,880
Manganese oxides other than dioxide	325	642	Russia 80; \$117	3,260	6,230	Poland 541; \$710
Manganites, manganates, and other permanganates	13	57	Canada 11; \$22	126	397	Canada 84; \$167
Potassium permanganate	191	626	Belgium 72; \$175	2,440	6,860	Belgium 1,050; \$2,540
Sodium permanganate	69	187	Belgium 57; \$124	516	1,270	Belgium 344; \$744
Sulfates, basket category, including manganese sulfate	3,060	2,960	Canada 2,670; \$1,150	16,900	24,300	Canada 13,000; \$7,680

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

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