

Mineral Industry Surveys

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MANGANESE IN APRIL 2019

On a gross-weight basis, U.S. imports of manganese ore in April 2019 decreased to 38,700 metric tons (t) from 48,800 t in March 2019 (fig. 1, table 5). Imports for the year through April totaled 127,000 t, slightly less compared with imports in the same period in 2018.

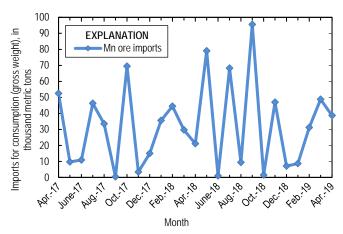


Figure 1. Monthly imports of manganese (Mn) ore from April 2017 through April 2019. Source: U.S. Census Bureau.

In April 2019, the average spot prices for manganese ore deliveries to China were \$6.14 per metric ton unit, 36%–39% grade, and \$6.48 per metric ton unit, 44% grade (fig. 2, table 1). Compared with March 2019 prices, the 36%–39%-grade price was essentially unchanged and the 44%-grade price was unchanged. Compared with the monthly average prices in April

2018, the 36%-39%-grade price was 21% less and the 44%grade price was 20% less.

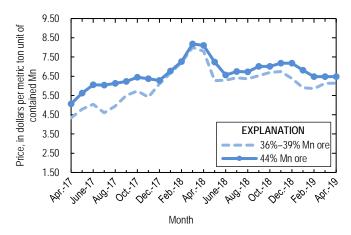


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from April 2017 through April 2019. Source: CRU Group.

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

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

	Low	Average	High
dollars per long ton of contained manganese	1,350.00	1,375.00	1,400.00
cents per pound of contained manganese	112.00	113.00	114.00
do.	65.00	66.00	67.00
cents per pound	119.00	127.33	135.00
dollars per metric ton unit contained manganese	6.05	6.14	6.25
do.	6.45	6.48	6.50
	cents per pound of contained manganese do. cents per pound dollars per metric ton unit contained manganese	dollars per long ton of contained manganese cents per pound of contained manganese do. cents per pound toncents per pound dollars per metric ton unit contained manganese 1,350.00 112.00 dollars per metric ton unit contained manganese 6.05	dollars per long ton of contained manganese

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%.

 $\label{eq:table 2} \textbf{TABLE 2}$ SELECTED U.S. FOREIGN TRADE IN MANGANESE 1

(Metric tons, manganese content)²

	Imp	Imports for consumption				
	Ore and	Ore and Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2018:						
April	10,500	41,700	52,200	16	1,250	1,270
January–April	61,600	204,000 r	265,000 r	106	3,270	3,370
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
January-April	69,600	196,000	265,000	178	5,990	6,170

Revised.

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.

 ${\bf TABLE~3}$ U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN APRIL 2019^1

(Metric tons)

				January–April ²		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Australia				19,900	13,200	\$24,900,000
Georgia	1,350	979	\$1,540,000	28,300	21,000	35,800,000
Malaysia	1,430	940	1,470,000	6,510	4,250	6,930,000
Mexico	2,560	1,670	2,930,000	6,900	4,490	7,950,000
Norway	5,100	3,360	6,070,000	19,600	13,200	22,500,000
Russia				1	1	2,720
South Africa	15,600	10,100	17,200,000	36,400	23,600	40,000,000
Spain	411	248	585,000	3,410	2,220	3,930,000
Total	26,400	17,300	29,700,000	121,000	82,000	142,000,000

⁻⁻ 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.

 ${\it TABLE~4}$ U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL 2019^1

(Metric tons)

					January–April ²	2
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Low carbon:						
China				320	304	\$591,000
Germany	23	22	\$59,300	145	132	356,000
Japan	97	76	167,000	385	305	660,000
Korea, Republic of	799	735	1,780,000	2,600	2,330	5,740,000
Mexico	236	187	468,000	1,670	1,320	3,000,000
Norway	6,250	5,070	10,600,000	19,400	15,700	32,800,000
South Africa	52	45	87,900	158	138	266,000
Spain	575	461	952,000	2,760	2,220	4,610,000
Total	8,040	6,600	14,200,000	27,400	22,400	48,100,000
Medium carbon, 1%–2% C:						
China				21	16	28,000
India				103	82	164,000
Korea, Republic of	3,650	2,920	5,850,000	7,850	6,280	12,500,000
Malaysia				21	16	30,700
Mexico	428	331	656,000	2,070	1,610	3,300,000
Norway	1,200	980	1,860,000	5,500	4,470	8,310,000
South Africa	5,110	4,080	8,850,000	8,950	7,140	15,500,000
Total	10,400	8,320	17,200,000	24,500	19,600	39,900,000
High carbon:						
Australia				26,100	19,900	28,600,000
Brazil	199	139	202,000	510	362	557,000
Korea, Republic of	400	320	662,000	1,600	1,230	1,940,000
Malaysia	117	84	203,000	15,700	11,900	15,600,000
Mexico	3	2	4,760	5	4	9,530
Russia	5,500	4,170	5,000,000	10,700	8,160	9,610,000
Saudi Arabia				60	44	98,200
South Africa	5,900	4,470	6,640,000	10,200	7,740	11,800,000
Ukraine	613	467	530,000	4,040	3,070	3,530,000
Total	12,700	9,650	13,200,000	68,900	52,400	71,800,000
Grand total	31,200	24,600	44,600,000	121,000	94,400	160,000,000

⁻⁻ 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.

 $\label{table 5} \text{U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn)} \\ \text{IN APRIL 2019}^1$

(Metric tons)

				January–April ²			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ³	weight	content	value ³	
More than 20%, but less than 47% manganese, South Africa	135	56	\$39,900	25,000	9,020	\$4,750,000	
47% or more manganese:							
Brazil	106	52	70,700	264	129	177,000	
Gabon	38,400	26,700	11,100,000	102,000	59,400	31,600,000	
Morocco				39	22	50,900	
South Africa	17	8	4,080	217	105	91,900	
Turkey				4	3	2,380	
Total	38,500	26,700	11,200,000	102,000	59,700	31,900,000	
Grand total	38,700	26,800	11,200,000	127,000	68,700	36,600,000	

⁻⁻ 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.

TABLE 6 $\mbox{U.s. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE } \\ \mbox{IN APRIL 2019}^{1}$

(Metric tons, gross weight)

			Januar	y–April ²
			Customs	
Source	Quantity	value ³	Quantity	value ³
Brazil			66	\$112,000
China	11	\$18,200	36	82,200
Germany	5	28,800	17	91,500
India			17	30,100
Japan	432	976,000	1,310	2,900,000
Slovakia			13	22,500
Total	448	1,020,000	1,460	3,240,000

⁻⁻ 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 $\mbox{U.s. IMPORTS FOR CONSUMPTION OF MANGANESE METAL } \mbox{IN APRIL $20191

(Metric tons)

			January-	–April ²
	Gross	Customs	Gross	Customs
Source	weight	value ³	weight	value ³
Unwrought flake:				
China	115	\$224,000	4,350	\$8,660,000
Gabon			50	122,000
Japan	(4)	189,000	1	856,000
Mexico			1	2,890
South Africa	561	1,380,000	1,670	4,540,000
Total	676	1,790,000	6,080	14,200,000
Unwrought powder:				
China			40	85,200
Mexico	34	131,000	58	224,000
South Africa	60	185,000	664	1,870,000
Total	94	316,000	761	2,180,000
Unwrought, other:				
China	3,030	5,990,000	10,500	21,500,000
Germany	294	719,000	1,130	2,690,000
Poland			(4)	6,310
South Africa	143	377,000	469	1,200,000
Spain	47	79,900	109	187,000
Total	3,520	7,170,000	12,200	25,600,000
Other manganese, wrought:				
China			(4)	27,300
Germany	28	343,000	141	1,690,000
Japan			(4)	11,800
Mexico	99	271,000	121	369,000
Sweden			2	23,300
United Kingdom	(4)	2,090	(4)	2,090
Total	127	616,000	264	2,120,000
Metallic waste and scrap, Canada	35	12,100	71	24,400
Grand total	4,450	9,910,000	19,300	44,100,000

⁻⁻ 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.

TABLE 8 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OR LOCALITY OF DESTINATION IN APRIL $2019^{1,2}$

			January–April ³		
		F.a.s. ⁴		F.a.s. ⁴	
	Gross weight	value	Gross weight	value	
Source	(metric tons)	(thousands)	(metric tons)	(thousands)	
Ore and concentrates with 20% or more manganese:					
Bahamas			6	\$6	
Canada	19	\$18	70	66	
Mexico	7	7	14	13	
Netherlands			192	354	
Singapore	14	13	73	120	
Total	39	38	355	559	
Ferromanganese:					
2% or less carbon:					
Canada			1,040	1,850	
Chile			9	17	
China			24	47	
United Kingdom	25	47	25	47	
Total	25	47	1,100	1,970	
More than 2% carbon:					
Canada	589	690	3,430	4,390	
United Kingdom	24	68	26	73	
Total	614	758	3,460	4,470	
Silicomanganese:			·	·	
Canada	40	47	79	99	
Mexico	4	9	4	9	
Total	44	56	83	108	
Metal, including alloys and waste and scrap: ⁵					
Canada	9	49	17	100	
China			1	12	
Costa Rica	(6)	5	(6)	15	
Germany			(6)	5	
Guatemala			2	19	
India			39	17	
Jamaica			3	13	
Japan	20	72	39	145	
Malaysia	556	179	1,970	795	
Mexico	3	14	34	277	
New Zealand			(6)	5	
Norway		67	17	67	
Pakistan			220	68	
Peru		14	2	14	
Total	607	400	2,340	1,550	
Grand total	1,330	1,300	7,330	8,650	
Zero	1,330	1,300	1,530	8,0	

⁻⁻ Zero.

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

 $^{^2\}mathrm{Data}$ 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.

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

⁶Less than ½ unit.

TABLE 9 $\mbox{U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS } \\ \mbox{IN APRIL 2019, BY CLASS}^1$

					Janua	ary–April 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	957	\$724	Peru 231; \$88	6,480	\$4,380	South Africa 2,910; \$1,560
Manganites, manganates, and other permanganates				19	44	China 19; \$44
Potassium permanganate	107	265	India 107; \$265	292	758	India 286; \$739
Sodium permanganate	80	183	China 80; \$183	282	642	China 282; \$642
Sulfates, basket category, including manganese sulfate	4,320	3,870	Mexico 1,820; \$1,350	17,700	15,700	Mexico 7,720; \$5,410
Exports:						
Manganese dioxide	394	935	Canada 166; \$194	2,050	3,590	Canada 1,090; \$1,100
Manganese oxides other than dioxide	821	1,730	Belgium 153; \$300	1,910	3,570	Belgium 311; \$605
Manganites, manganates, and other permanganates	26	56	Canada 26; \$52	56	164	Canada 36; \$72
Potassium permanganate	412	1,160	Belgium 252; \$620	1,430	3,940	Belgium 631; \$1,540
Sodium permanganate	95	207	Belgium 76; \$165	241	586	Belgium 171; \$372
Sulfates, basket category, including manganese sulfate	2,090	2,940	Canada 1,620; \$907	6,550	10,900	Canada 4,780; \$3,760

⁻⁻ Zero.

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

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