

Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist National Minerals Information Center U.S. Geological Survey 989 National Center Reston, VA 20192

Telephone: (703) 648-4973, Fax: (703) 648-7757

Email: lcorathers@usgs.gov

Hodan A. Fatah (Data) Telephone: (703) 648-4971 Fax: (703) 648-7975 Email: hfatah@usgs.gov

Internet: http://minerals.usgs.gov/minerals/

MANGANESE IN JUNE 2018

Preliminary data for June 2018 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was (gross weight). This was the amount consumed in May 2018 (fig. 1). Manganese ore consumption in the first 6 months of 2018 was this was that during the same period in 2017 (211,000 t) (fig. 1). Industry stocks of ore at the end of June 2018 were estimated to be, 4% less than the amount at the end of May 2018 (166,000 t).

On a gross-weight basis, U.S. imports of manganese ore in June 2018 were 934 t, down from 79,100 t in May 2018 (fig. 1, table 5).

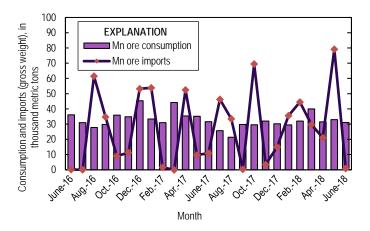


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from June 2016 through June 2018. Sources: U.S. Census Bureau and U.S. Geological Survey.

In June 2018, the average spot prices for manganese ore deliveries to China were \$6.30 per metric ton unit, 36%–39% grade and \$6.56 per metric ton unit, 44% grade (fig. 2, table 1). Compared with May 2018 prices, they were essentially unchanged for the 36%–39% grade and 9% less for the 44% grade. Compared with the prices of December 2016, they were 21% lower for the 36%–39% grade and 26% lower for the 44% grade. However, they were both more than double those of June 2016.

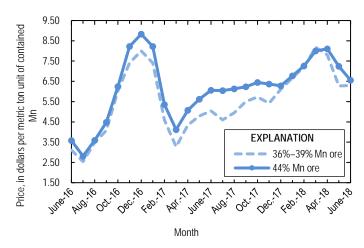


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from June 2016 through June 2018. Source: CRU Group.

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

		Low	Average	High
Manganese ferroalloys: ¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,550.00	1,595.00	1,640.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	112.00	113.80	116.00
Silicomanganese, 65% manganese	do.	63.00	67.20	69.00
Manganese metal, 99.9% manganese flake ²	cents per pound	128.00	131.13	138.00
Manganese ore: ^{3,4}				
36%-39% manganese	dollars per metric ton unit contained manganese	6.05	6.30	6.50
44% manganese	do.	6.40	6.56	6.80

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

	Imp	Imports for consumption				
	Ore and	Ore and Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2017:						
June	10,300	44,800	55,100	139	905	1,040
January–June	86,900	233,000	320,000	245	9,210	9,460
2018:						
January	17,300	66,800	84,000	18	221	239
February	23,200	34,700	57,900	47	805	852
March	10,600	59,300	69,900	25	993	1,020
April	10,500	41,700	52,200	16	1,250	1,270
May	36,500	67,700	104,000	30	1,240	1,270
June	753	56,800	57,500	30	1,800	1,830
January-June	98,900	327,000	426,000	166	6,310	6,480

Data are rounded to no more than three significant digits; may not add to totals shown.

As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

 ${\bf TABLE~3} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~SILICOMANGANESE~IN~JUNE~2018}^1$

(Metric tons)

					January–Jun	e^2
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Australia				45,400	29,500	\$57,600,000
Belgium				1,890	1,240	2,300,000
Brazil				2,970	1,980	3,100,000
Georgia	20,800	15,000	\$26,900,000	64,000	46,400	75,000,000
India	216	128	333,000	1,570	931	2,290,000
Malaysia	4,400	2,860	5,430,000	10,400	6,760	12,400,000
Mexico	1,640	1,280	1,860,000	13,900	9,340	15,700,000
Norway	3,150	1,970	4,610,000	13,200	8,750	18,600,000
Russia	3,000	2,000	3,920,000	6,000	4,010	7,660,000
Saudi Arabia				5,010	3,310	4,810,000
South Africa				29,000	18,900	32,000,000
Spain	5,250	3,430	6,300,000	7,260	4,830	9,330,000
Taiwan	200	132	237,000	200	132	237,000
Total	38,700	26,800	49,600,000	201,000	136,000	241,000,000

⁻⁻ 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.

 ${\it TABLE~4} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~JUNE~2018}^1$

(Metric tons)

					January–June ²	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Low carbon:						
China	1,590	1,480	\$3,550,000	2,340	2,190	\$5,020,000
France				19	15	58,900
Germany	30	24	86,100	225	199	554,000
Japan				100	80	165,000
Korea, Republic of	599	551	1,390,000	4,600	4,230	9,280,000
Mexico	318	256	475,000	1,500	1,220	2,240,000
Norway	6,150	4,980	10,300,000	25,900	21,000	43,600,000
South Africa				82	71	138,000
Vietnam				240	216	529,000
Total	8,690	7,290	15,800,000	35,000	29,200	61,600,000
Medium carbon, 1%–2% C:		·			·	
China	51	46	111,000	145	119	319,000
France				2,900	2,360	4,600,000
Korea, Republic of	3,000	2,400	4,860,000	16,700	13,400	26,500,000
Mexico	494	396	726,000	3,090	2,440	4,980,000
Norway	3,620	2,940	5,640,000	8,830	7,160	13,700,000
South Africa	500	397	834,000	17,400	14,000	29,500,000
Total	7,670	6,180	12,200,000	49,100	39,400	79,600,000
High carbon:		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
Australia				33,800	25,800	44,700,000
Brazil	516	387	740,000	2,620	1,540	2,780,000
France				4	3	8,120
Georgia				3,100	2,410	3,930,000
India				3,420	1,270	4,040,000
Korea, Republic of	140	106	1,770,000	1,540	1,170	3,410,000
Malaysia	6,870	5,240	8,470,000	33,600	25,500	43,000,000
Mexico				110	88	159,000
Norway				3,090	2,390	3,870,000
Russia	4,390	3,360	4,470,000	13,900	10,600	14,100,000
Saudi Arabia	140	90	196,000	237	151	361,000
South Africa	6,600	5,060	8,540,000	24,200	18,400	32,200,000
Spain				18,700	14,200	22,800,000
Ukraine				6,040	4,610	6,040,000
Total	18,700	14,200	24,200,000	144,000	108,000	181,000,000
Grand total	35,000	27,700	52,200,000	228,000	177,000	322,000,000

⁻⁻ 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 JUNE $2018^{\rm l}$

(Metric tons)

				January–June ²			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ³	weight	content	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				1,520	560	367,000	
South Africa	58	26	\$13,800	59,400	21,100	12,400,000	
Total	58	26	13,800	70,500	25,800	14,700,000	
47% or more manganese:							
Australia				7,510	3,590	3,100,000	
Brazil	128	80	68,500	597	370	310,000	
China				2	2	4,400	
Gabon				128,000	65,300	37,300,000	
Mexico	114	79	101,000	2,050	1,090	1,100,000	
Morocco				39	22	50,900	
South Africa	634	308	272,000	1,910	924	800,000	
Turkey				19	15	9,110	
Total	876	467	441,000	140,000	71,300	42,700,000	
Grand total	934	493	454,000	211,000	97,200	57,400,000	

⁻⁻ 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.

${\it TABLE~6} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~MANGANESE~DIOXIDE} \\ {\it IN~JUNE~2018}^{\rm I} \\$

(Metric tons, gross weight)

		January–June ²	
	Customs		Customs
Quantity	value ³	Quantity	value ³
		40	\$71,700
		21	36,100
		37	82,000
		19	32,100
	\$8,490	5	8,490
430	952,000	2,600	5,770,000
		(4)	2,210
		19	86,600
		44	75,000
		23	38,700
435	961,000	2,810	6,210,000
	5 430	Quantity value ³ 5 \$8,490 430 952,000	Quantity Customs value ³ Quantity 40 21 37 19 5 \$8,490 5 430 952,000 2,600 (4) 44 44 23

⁻⁻ 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 7 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JUNE 20181

(Metric tons)

			Janua	ry–June ²
	Gross	Customs	Gross	Customs
Source	weight	value ³	weight	value ³
Unwrought flake:				
China	171	\$332,000	2,590	\$4,200,000
Hong Kong	22	49,700	42	90,700
Japan	10	262,000	141	1,110,000
South Africa	363	809,000	2,160	4,860,000
Vietnam			100	221,000
Total	566	1,450,000	5,030	10,500,000
Unwrought powder:				
China	2	5,170	42	86,800
Mexico	33	114,000	102	345,000
South Africa	80	210,000	662	1,790,000
Total	116	329,000	805	2,220,000
Unwrought, other:				
China	1,400	2,670,000	6,900	12,800,000
Germany	88	187,000	682	1,390,000
Poland	(4)	6,310	(4)	6,310
South Africa	61	152,000	428	978,000
Spain			3	4,280
Total	1,550	3,020,000	8,010	15,200,000
Other manganese, wrought:				
China	6	14,900	13	35,200
France			(4)	2,150
Germany	19	208,000	162	1,900,000
Japan			(4)	142,000
Malaysia			(4)	3,040
Mexico			74	203,000
Poland			(4)	9,250
Sweden			9	85,600
Total	25	223,000	258	2,380,000
Metallic waste and scrap, Canada	56	19,000	246	78,500
Grand total	2,310	5,040,000	14,300	30,400,000

 $^{^{1}\}mbox{Data}$ 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 LOCALITIES OF DESTINATION IN JUNE 2018 $^{1,\,2}$

			January–June 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:					
Belgium			19	\$75	
Canada		\$19	156	146	
Mexico	10	6	39	38	
Netherlands	31	132	118	553	
Total	60	157	332	811	
Ferromanganese:					
2% or less carbon:					
Canada	577	1,020	700	1,210	
Honduras			2	11	
Mexico			38	104	
Morocco			4	8	
Taiwan			10	18	
Total	577	1,020	753	1,350	
More than 2% carbon:					
Australia			1	4	
Canada	1,130	1,600	2,860	4,090	
Costa Rica			4	18	
Germany			1	3	
Mexico			105	100	
Total	1,130	1,600	2,970	4,210	
Silicomanganese:		·			
Canada	215	305	1,980	2,820	
Mexico	2	3	2	3	
Total	217	308	1,980	2,820	
Metal, including alloys and waste and scrap: ⁵					
Canada			12	47	
China	1	21	3	53	
Costa Rica	(6)	5	1	35	
France	9	36	9	36	
Germany	(6)	7	1	11	
India	30	57	207	196	
Japan			59	196	
Korea, Republic of			(6)	4	
Malaysia	239	81	1,400	822	
Mexico	10	209	145	970	
South Africa	19	17	216	184	
Venezuela			7	6	
Other (5 countries)	(6)	3	2	17	
Total	309	436	2,070	2,580	
Grand total	2,290	3,520	8,100	11,800	

⁻⁻ Zero.

¹Presentation of monthly data is based on the "January–June" 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 JUNE 2018, BY CLASS¹

					ury–June ²	
			Principal sources			Principal sources
			and destinations:			and destinations:
	Gross weight	Value ³	gross weight (metric tons);	Gross weight	Value ³	gross weight (metric tons);
Class	(metric tons)	(thousands)	value ³ (thousands)	(metric tons)	(thousands)	value ³ (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	3,460	\$2,970	South Africa 1,450; \$735	20,200	\$16,200	South Africa 10,600; \$6,340
Manganites, manganates, and other permanganates				20	42	Hong Kong 20; \$42
Potassium permanganate	139	364	India 138; \$361	732	1,910	India 712; \$1,850
Sodium permanganate	110	241	China 110; \$241	706	1,590	China 688; \$1,550
Sulfates, basket category, including manganese sulfate	5,920	4,720	Mexico 1,710; \$1,250	31,200	27,300	China 11,800; \$9,940
Exports:						
Manganese dioxide	622	1,090	Canada 347; \$339	3,600	5,280	Canada 2,310; \$2,030
Manganese oxides other than dioxide	464	808	Mexico 131; \$307	3,250	5,920	United Kingdom 572; \$727
Manganites, manganates, and other permanganates	63	228	Mexico 57; \$208	143	538	Mexico 117; \$477
Potassium permanganate	367	1,050	Belgium 202; \$487	1,750	4,930	Belgium 786; 1,920
Sodium permanganate	32	96	Belgium 19; \$40	417	1,240	Belgium 152; \$302
Sulfates, basket category, including manganese sulfate	1,560	1,940	Canada 1,290; \$704	10,500	15,500	Canada 7,320; \$5,310

⁻⁻ 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.