

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 JULY 2017

Preliminary data for July 2017 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 25,700 metric tons (t) (gross weight). This was 19% less than the amount consumed in June 2017 (31,600 t) (fig. 1). Manganese ore consumption during the first 7 months of 2017 was 236,000 t, which was essentially unchanged from the amount consumed during the same period in 2016. Industry stocks of ore at the end of July 2017 were 149,000 t, 27% more than the amount at the end of June 2017 (117,000 t).

On a gross-weight basis, U.S. imports of manganese ore in July 2017 were 46,300 t, up from 10,900 t in June 2017 (fig. 1, table 5).

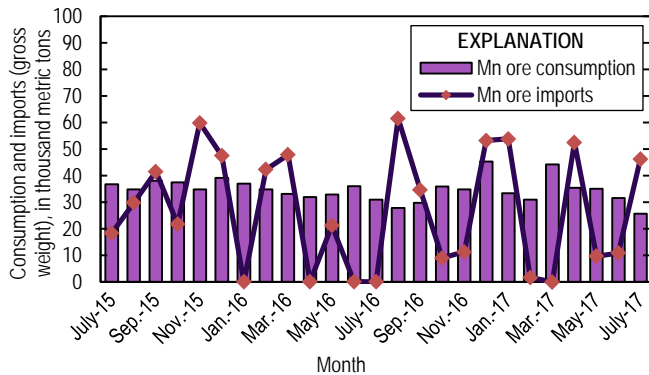


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from July 2015 through July 2017. Sources: U.S. Census Bureau and U.S. Geological Survey.

In July 2017, the average monthly spot-market prices for manganese ore deliveries to China decreased compared to those

in June 2017. The average spot prices were 4.60 dollars per metric ton unit, 36%–39% grade, and 6.04 dollars per metric ton unit, 44% grade (fig. 2, table 1). They were higher than those in July 2016—81% for the 36%–39% grade and 115% for the 44% grade—and about 72% to 106% more than those of July 2015, respectively. However, they were 43% and 32% less, respectively, than the 2-year-high prices of December 2016.

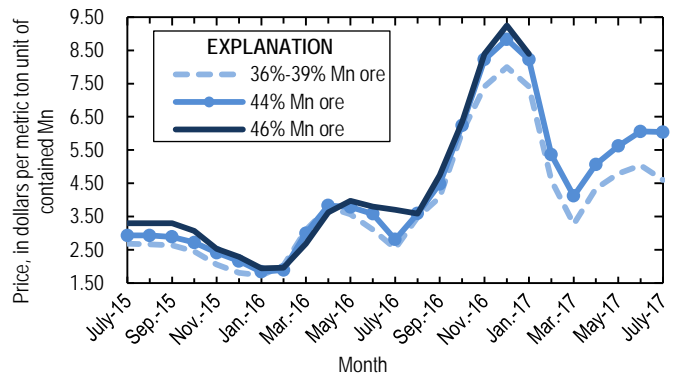


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from July 2015 through July 2017. Source: CRU Group.

List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to <http://minerals.usgs.gov/minerals/>.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JULY 2017

		Low	Average	High
Manganese ferroalloys: ¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,490.00	1,516.25	1,540.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	110.00	111.75	115.00
Silicomanganese, 65% manganese	do.	61.00	63.75	65.00
Manganese metal, 99.9% manganese flake ²	cents per pound	105.00	110.63	115.00
Manganese ore: ^{3, 4}				
36%–39% manganese	dollars per metric ton unit contained manganese	4.10	4.60	5.00
44% manganese	do.	5.90	6.04	6.25

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, 99.99% manganese, free-on-board producing point or Chicago/Pittsburgh warehouse; 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
2016:						
July	318	30,200 ^r	30,500 ^r	10	952	962
January–July	60,000 ^r	238,000 ^r	298,000 ^r	143	8,880	9,020
2017:						
January	27,700	33,200	60,900	9	901	910
February	1,120	20,500	21,600	15	2,020	2,040
March	477	21,600	22,100	28	2,160	2,180
April	42,300	59,500	102,000	10	1,990	2,000
May	5,030	53,300	58,400	43	1,240	1,280
June	10,300	44,800	55,100	139	905	1,040
July	27,800	57,300	85,100	120	411	531
January–July	115,000	290,000	405,000	365	9,620	9,990

^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 JULY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July ²		
				Gross weight	Mn content	Customs value ³
Australia	13,300	8,800	\$18,000,000	41,500	27,500	\$55,300,000
Brazil	1,160	761	1,210,000	1,560	1,020	1,630,000
Canada	76	36	48,600	76	36	48,600
France	--	--	--	2,300	1,390	3,680,000
Georgia	12,900	10,100	12,000,000	53,400	39,100	49,400,000
India	108	64	157,000	3,140	1,870	4,300,000
Italy	--	--	--	189	112	257,000
Malaysia	486	365	543,000	5,700	3,780	6,850,000
Mexico	2,010	1,310	2,380,000	20,800	13,000	20,700,000
Norway	522	317	844,000	8,710	5,240	13,000,000
Russia	4,400	2,960	5,430,000	13,300	8,940	16,900,000
Saudi Arabia	1,100	513	1,140,000	1,220	564	1,270,000
South Africa	6,500	4,230	6,500,000	54,700	35,500	55,900,000
Spain	4,580	2,980	5,300,000	11,700	7,630	13,900,000
Total	47,200	32,400	53,500,000	218,000	146,000	243,000,000

-- 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 JULY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July ²		
				Gross weight	Mn content	Customs value ³
Low carbon:						
Belgium	--	--	--	24	23	\$56,900
China	2,160	2,010	\$4,440,000	6,210	5,790	12,100,000
France	--	--	--	3,300	2,680	5,410,000
Germany	34	32	87,300	205	195	512,000
Japan	--	--	--	15	12	34,800
Korea, Republic of	1,270	1,140	2,520,000	5,910	5,230	11,700,000
Mexico	200	164	250,000	1,160	936	1,460,000
Norway	1,710	1,390	2,920,000	15,600	12,700	26,800,000
Saudi Arabia	5	4	8,590	5	4	8,590
South Africa	27	25	53,100	162	151	304,000
Total	5,400	4,780	10,300,000	32,600	27,700	58,400,000
Medium carbon, 1%–2% C:						
China	--	--	--	45	34	115,000
France	--	--	--	400	324	625,000
Germany	--	--	--	1	1	2,180
Korea, Republic of	1,980	1,590	2,990,000	11,900	9,500	18,000,000
Mexico	92	71	210,000	1,380	1,050	2,630,000
Norway	2,700	2,200	4,170,000	10,100	8,230	16,000,000
South Africa	--	--	--	10,200	8,160	16,400,000
Total	4,780	3,870	7,360,000	34,000	27,300	53,700,000
High carbon:						
Australia	9,110	6,940	11,400,000	38,500	26,200	43,700,000
Brazil	--	--	--	1,080	811	1,020,000
Canada	20	13	24,100	145	96	220,000
Georgia	--	--	--	2,400	1,860	2,230,000
Germany	--	--	--	3	2	3,710
Malaysia	--	--	--	6,080	4,560	8,170,000
Mexico	2	1	2,450	263	187	215,000
Netherlands	344	265	373,000	344	265	373,000
Norway	529	411	454,000	565	441	520,000
Russia	1,630	1,250	1,520,000	5,600	4,280	5,380,000
Saudi Arabia	88	67	133,000	88	67	133,000
South Africa	45	33	39,100	35,800	27,200	45,100,000
Spain	3,960	3,000	4,320,000	6,860	5,190	7,470,000
Ukraine	3,630	2,790	3,370,000	4,440	3,410	4,110,000
Total	19,400	14,800	21,600,000	102,000	74,500	119,000,000
Grand total	29,500	23,400	39,300,000	169,000	129,000	231,000,000

-- 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 JULY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July ²		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Cote d'Ivoire	332	133	\$19,800	332	133	\$19,800
Mexico	13,200	5,100	2,480,000	13,200	5,100	2,480,000
South Africa	--	--	--	11,000	5,100	2,220,000
Total	13,500	5,230	2,500,000	24,500	10,300	4,720,000
47% or more manganese:						
Australia	10,000	4,790	3,010,000	17,400	8,340	4,950,000
Brazil	53	27	37,200	519	288	338,000
Gabon	22,500	17,200	6,100,000	130,000	91,700	30,800,000
Georgia	--	--	--	122	88	138,000
Korea, Republic of	--	--	--	20	14	12,800
Mexico	--	--	--	1,410	706	513,000
Morocco	--	--	--	110	66	153,000
South Africa	217	105	92,200	1,320	647	337,000
Total	32,700	22,200	9,240,000	150,000	102,000	37,200,000
Grand total	46,300	27,400	11,700,000	175,000	112,000	41,900,000

-- 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 JULY 2017¹

(Metric tons, gross weight)

Source	Quantity	Customs value ³	January–July ²	
			Quantity	Customs value ³
Belgium	--	--	42	\$133,000
Brazil	12	\$20,900	30	41,400
Canada	--	--	3	3,380
China	--	--	61	95,100
Germany	--	--	21	59,200
India	--	--	35	64,600
Japan	722	1,530,000	3,910	8,170,000
Morocco	19	86,600	19	86,600
Netherlands	--	--	22	38,100
Singapore	--	--	79	107,000
Ukraine	7	11,700	26	44,100
Total	760	1,650,000	4,250	8,850,000

-- 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 JULY 2017¹

(Metric tons)

Source	Gross weight	Customs value ³	January–July ²	
			Gross weight	Customs value ³
Unwrought flake:				
China	58	\$120,000	3,210	\$6,030,000
Gabon	--	--	200	356,000
Hong Kong	--	--	50	96,300
Japan	43	253,000	237	1,310,000
Mexico	3	6,530	23	70,400
South Africa	429	964,000	4,110	9,790,000
Total	533	1,340,000	7,830	17,700,000
Unwrought powder:				
China	--	--	80	183,000
Mexico	38	119,000	169	570,000
South Africa	100	276,000	997	2,720,000
Total	138	396,000	1,250	3,480,000
Unwrought, other:				
Belgium	--	--	38	78,900
China	540	955,000	4,290	8,670,000
Germany	145	305,000	666	1,370,000
Japan	--	--	(4)	2,210
Portugal	--	--	(4)	5,100
South Africa	45	101,000	453	954,000
Spain	--	--	46	90,500
Total	730	1,360,000	5,500	11,200,000
Other manganese, wrought:				
Germany	21	237,000	131	1,370,000
India	--	--	(4)	2,110
Japan	(4)	16,400	4	30,400
Malaysia	--	--	(4)	3,650
Mexico	1	4,540	63	174,000
South Africa	--	--	10	19,400
Total	22	258,000	207	1,600,000
Metallic waste and scrap:				
Canada	20	5,620	310	74,000
Mexico	--	--	3	3,210
United Kingdom	--	--	2	5,530
Total	20	5,620	314	82,700
Grand total	1,440	3,360,000	15,100	34,000,000

-- 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.

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 JULY 2017^{1,2}

Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	January–July ³	
			Gross weight (metric tons)	F.a.s. ⁴ value (thousands)
Ore and concentrates with 20% or more manganese:				
Belgium	205	\$138	205	\$138
Canada	20	19	20	19
China	--	--	48	61
Germany	--	--	205	168
Mexico	--	--	25	29
Netherlands	16	77	151	635
Poland	--	--	18	22
United Kingdom	--	--	59	43
Total	241	234	730	1,110
Ferromanganese:				
2% or less carbon:				
Canada	--	--	2,190	3,740
Chile	--	--	35	66
China	10	14	12	18
Other (6 countries)	--	--	34	74
Total	10	14	2,270	3,890
More than 2% carbon:				
Brazil	--	--	21	59
Canada	39	56	2,060	3,110
Mexico	--	--	125	180
Singapore	5	13	10	28
United Kingdom	5	14	14	42
Other (13 countries)	1	4	21	63
Total	50	87	2,250	3,480
Silicomanganese:				
Canada	389	581	4,930	6,970
Georgia	--	--	128	120
United Kingdom	--	--	4	6
Total	389	581	5,060	7,090
Metal, including alloys and waste and scrap:⁵				
Belgium	--	--	16	303
Canada	--	--	15	52
China	5	77	90	658
Costa Rica	(6)	5	6	116
India	40	40	729	552
Japan	20	67	86	294
Malaysia	38	120	1,390	634
Mexico	3	28	168	573
Pakistan	--	--	93	72
Other (12 countries)	2	18	119	258
Total	107	355	2,710	3,510
Grand total	797	1,270	13,000	19,100

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN JULY 2017, BY CLASS¹

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)	January–July 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	2,790	\$1,880	South Africa 1,620; \$866	14,900	\$10,500	South Africa 8,770; \$4,460
Manganites, manganates, and other permanganates	--	--	--	(4)	12	Canada (4); \$12
Potassium permanganate	104	259	India 104; \$259	396	988	India 379; \$948
Sodium permanganate	194	452	China 194; \$452	661	1,500	China 537; \$1,210
Sulfates, basket category, including manganese sulfate	5,460	3,760	China 2,970; \$2,220	37,000	30,100	China 14,600; \$11,000
Exports:						
Manganese dioxide	544	660	Canada 349; \$247	3,230	5,020	Canada 1,530; \$1,350
Manganese oxides other than dioxide	201	428	Canada 59; \$75	4,050	7,320	Netherlands 588; \$581
Manganites, manganates, and other permanganates	15	31	Canada 15; \$31	59	294	Canada 56; \$112
Potassium permanganate	374	996	Belgium 217; \$519	1,840	4,990	Belgium 939; \$2,250
Sodium permanganate	46	128	Mexico 21; \$50	327	1,040	Belgium 202; \$434
Sulfates, basket category, including manganese sulfate	1,250	1,400	Canada 904; \$585	11,700	14,100	Canada 8,430; \$4,460

-- 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.

⁴Less than ½ unit.

Source: U.S. Census Bureau.