

Mineral Industry Surveys

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MANGANESE IN APRIL 2017

Preliminary data for April 2017 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 29,800 metric tons (t) (gross weight). This was 27% less than the amount consumed in March 2017 (40,700 t) (fig. 1). Manganese ore consumption during the first 4 months of 2017 was 123,000 t, which was slightly less than the amount consumed during the same period in 2016 (125,000 t). Industry stocks of ore at the end of April 2017 were 125,000 t, 7% less than the revised amount at the end of March 2017 (134,000 t).

On a gross-weight basis, U.S. imports of manganese ore in April 2017 were 52,500 t, up from zero in March 2017 (fig. 1, table 5).

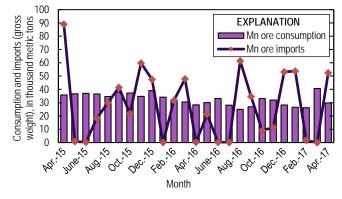


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from April 2015 through April 2017. Sources: U.S. Census Bureau and U.S. Geological Survey.

In April 2017, the average monthly spot-market prices for manganese ore deliveries to China increased compared to those in March 2017. The average spot prices were 4.34 dollars per metric ton unit, 36%–39% grade and 5.07 dollars per metric ton unit, 44% grade (fig. 2, table 1). These were more than those in March 2017—33% for the 36%–39% grade and 23% for the 44% grade. They were also higher than those in April 2016—

15% for the 36%–39% grade and 32% for the 44% grade—and more than double those of April 2015.

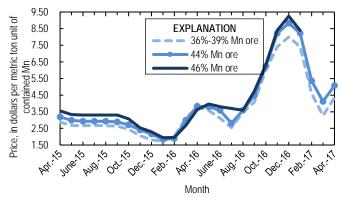


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from April 2015 through April 2017. Source: CRU Ryan's Notes.

Update

According to McKenna (2017), U.S. silicomanganese producer Felman Production, LLC, temporarily shut its New Haven, WV, facility on July 16, 2017, after a transformer failed. The company had been operating two of its three electric arc furnaces prior to the failure. Felman expected repairs to take at least 3 weeks.

Reference Cited

McKenna, John, 2017, Felman Production reports on temporary shut down of its New Haven, W. Va. facility: ICR Inc., July 25. (Accessed August 22, 2017, at http://www.businesswire.com/news/home/20170725006161/en/Felman-Production-Reports-Temporary-Shut-New-Haven.)

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

		Low	Average	High
Manganese ferroalloys: ¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,400.00	1,415.63	1,435.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	108.00	110.25	112.00
Silicomanganese, 65% manganese	do.	65.00	66.75	68.00
Manganese metal, 99.9% manganese flake ²	cents per pound	107.00	111.00	115.00
Manganese ore: ^{3, 4}				
36%-39% manganese	dollars per metric ton unit contained manganese	4.10	4.34	4.55
44% manganese	do.	4.00	5.07	5.55

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

	Impo	Imports for consumption				
	Ore and	Ore and Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2016:						
April	292	23,400	23,700	7	1,040	1,050
January–April	48,500 r	132,000 r	180,000 r	70	6,380 ^r	6,450 ^r
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
January–April	71,500	135,000	206,000	62	7,070	7,130

^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 APRIL 2017^1

(Metric tons)

					January-Aj	oril ²
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Australia	6,030	3,990	\$8,490,000	20,400	13,500	\$26,700,000
France				2,300	1,390	3,680,000
Georgia	14,000	10,300	12,800,000	25,600	18,100	23,200,000
India	243	142	335,000	981	581	1,290,000
Malaysia	485	338	544,000	1,210	837	1,450,000
Mexico	6,110	3,400	4,260,000	14,700	8,990	13,700,000
Norway	2,820	1,740	4,120,000	4,800	2,850	6,950,000
Russia				8,910	5,980	11,400,000
South Africa	5,200	3,380	5,720,000	20,800	13,600	19,300,000
Spain	3,820	2,510	4,470,000	4,790	3,110	5,840,000
Total	38,700	25,800	40,700,000	105,000	68,900	114,000,000

-- 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 APRIL 2017^1

(Metric tons)

					January–April ²		
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ³	weight	content	value ³	
Low carbon:							
China	1,470	1,370	\$3,010,000	2,950	2,750	\$5,350,000	
France				3,300	2,680	5,410,000	
Germany	72	69	171,000	118	113	296,000	
Japan				15	12	34,800	
Korea, Republic of	1,810	1,580	3,710,000	1,900	1,660	3,900,000	
Mexico	57	48	63,200	357	288	440,000	
Norway	5,130	4,170	9,020,000	9,610	7,810	16,400,000	
South Africa				27	25	51,600	
Total	8,540	7,240	16,000,000	18,300	15,300	31,900,000	
Medium carbon, 1%-2% C:							
China				45	34	115,000	
France				400	324	625,000	
Germany				1	1	2,18	
Korea, Republic of	6,160	4,930	9,670,000	6,650	5,320	10,400,000	
Mexico	306	230	609,000	815	612	1,540,000	
Norway	3,100	2,520	4,910,000	3,600	2,930	5,650,000	
South Africa	4,450	3,530	7,130,000	6,990	5,600	10,500,000	
Total	14,000	11,200	22,300,000	18,500	14,800	28,800,000	
High carbon:							
Australia				19,000	11,300	19,800,000	
Brazil	43	33	61,700	618	461	528,000	
Canada	38	28	84,600	85	59	149,000	
Georgia	1,500	1,160	1,350,000	1,600	1,240	1,500,000	
Germany				3	2	3,710	
Malaysia	504	386	594,000	504	386	594,000	
Mexico				261	186	212,000	
Norway				36	30	65,400	
Russia	1,570	1,200	1,620,000	1,570	1,200	1,620,000	
South Africa	10,500	7,860	12,200,000	13,700	10,300	16,000,00	
Spain	2,900	2,190	3,160,000	2,900	2,190	3,160,00	
Total	17,000	12,900	19,100,000	40,300	27,400	43,600,000	
Grand total	39,600	31,300	57,400,000	77,100	57,500	104,000,00	

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

 $^2\mbox{May}$ 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 APRIL 2017 $^{\rm 1}$

(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	4,470	2,080	\$315,000	11,000	5,100	\$2,220,000	
47% or more manganese:							
Australia	7,390	3,550	1,930,000	7,390	3,550	1,930,000	
Brazil	53	26	36,200	254	155	132,000	
Gabon	40,000	36,000	9,340,000	87,300	60,300	20,100,000	
Korea, Republic of				20	14	12,800	
Mexico				1,410	706	513,000	
Morocco				39	22	50,900	
South Africa	602	301	36,100	619	309	40,200	
Total	48,000	39,900	11,300,000	97,100	65,100	22,800,000	
Grand total	52,500	42,000	11,700,000	108,000	70,200	25,000,000	

-- 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 APRIL 2017^1

(Metric tons, gross weight)

			Januar	y–April ²
		Customs		Customs
Source	Quantity	value ³	Quantity	value ³
Belgium	22	\$38,100	22	\$38,100
Canada			3	3,380
China	2	2,750	17	50,300
Germany			3	17,900
India			35	64,600
Japan	468	960,000	2,070	4,270,000
Singapore	38	45,800	79	107,000
Ukraine	6	10,800	13	21,600
Total	537	1,060,000	2,240	4,570,000

-- 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 APRIL 2017^1

(Metric tons)

			January–April ²		
	Gross	Customs	Gross	Customs	
Source	weight	value ³	weight	value ³	
Unwrought flake:					
China	474	\$907,000	677	\$1,320,000	
Gabon			200	356,000	
Hong Kong	50	96,300	50	96,300	
Japan	34	183,000	117	664,000	
South Africa	477	1,170,000	2,950	7,190,000	
Total	1,040	2,350,000	4,000	9,630,000	
Unwrought powder:					
China	40	82,000	80	183,000	
Mexico	57	193,000	86	290,000	
South Africa	169	478,000	625	1,700,000	
Total	267	753,000	791	2,170,000	
Unwrought, other:					
Belgium			19	37,600	
China	854	1,690,000	2,580	5,360,000	
Germany	135	274,000	490	996,000	
South Africa	61	135,000	347	718,000	
Spain			46	90,500	
Total	1,050	2,090,000	3,480	7,200,000	
Other manganese, wrought:					
Germany	24	240,000	60	596,000	
India			(4)	2,110	
Japan			3	14,000	
Mexico			6	23,600	
Total	24	240,000	70	635,000	
Metallic waste and scrap:					
Canada	20	5,580	161	48,800	
Mexico			3	3,210	
United Kingdom			2	5,530	
Total	20	5,580	166	57,600	
Grand total	2,400	5,450,000	8,510	19,700,000	

-- 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 OF DESTINATION IN APRIL 2017^{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:				
China	15	\$14	15	\$19
Mexico	6	8	15	23
Netherlands			95	409
Total	20	22	125	451
Ferromanganese:				
2% or less carbon:				
Canada	581	1,040	2,170	3,720
Dominican Republic			9	22
France			9	18
Israel			5	9
Total	581	1,040	2,200	3,770
More than 2% carbon:		1,010	2,200	5,770
Argentina			8	23
Brazil			21	59
Canada	944	1,390	1,610	2,410
China		1,390	1,010	2,410
			(5)	4
Germany				
Malaysia			1	4
Mexico			115	166
Singapore	1	3	5	15
United Arab Emirates			6	17
United Kingdom	5	14	9	27
Total	951	1,410	1,780	2,720
Silicomanganese:				
Canada	543	795	3,370	4,680
Georgia			128	120
Total	543	795	3,500	4,800
Metal, including alloys and waste and scrap: ⁶				
Argentina			1	9
Belgium			16	303
Canada	3	7	8	21
China	2	35	70	340
Costa Rica			3	79
Germany	(5)	6	8	38
Guyana			4	12
India	128	134	449	334
Malaysia	156	48	787	339
Mexico	135	225	148	344
Other (8 countries)			127	265
Total	424	456	1,620	2,080
Grand total	2,520	3,720	9,220	13,800

-- Zero.

¹Presentation of monthly data is based on the "January-April" 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 APRIL 2017, BY $\rm CLASS^1$

					January–April ²			
	Gross weight	Value ³	Principal sources and destinations: gross weight (metric tons);	Gross weight	Value ³	Principal sources and destinations: 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	1,230	\$907	South Africa 645; \$306	6,210	\$4,600	South Africa 3,030; \$1,470		
Manganites, manganates, and other permanganates								
Permanganates	(4)	7	Canada (4); \$7	(4)	10	Canada (4); \$10		
Potassium permanganate	38	105	India 38; \$102	183	459	India 165; \$419		
Sodium permanganate	112	253	China 95; \$212	260	590	China 190; \$423		
Sulfates, basket category,								
including manganese sulfate	3,910	3,730	Mexico 1,940; \$1,500	19,500	17,800	China 7,450; \$5,430		
Exports:								
Manganese dioxide	496	711	Canada 382; \$404	2,060	3,020	Canada 956; \$868		
Manganese oxides other than dioxide	513	1,510	Canada 103; \$204	2,390	4,760	Netherlands 588; \$581		
Manganites, manganates, and								
other permanganates	7	14	Canada 7; \$14	19	47	Canada 18; \$35		
Potassium permanganate	240	654	Belgium 180; \$433	930	2,570	Belgium 452; \$1,090		
Sodium permanganate	100	269	Belgium 57; \$119	202	694	Belgium 133; \$279		
Sulfates, basket category,								
including manganese sulfate	1,670	1,490	Canada 1,320; \$692	7,220	7,780	Canada 5,630; \$2,660		

-- Zero.

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

 2 May include revised data that are not broken out by specific month(s).

³For imports, customs value; for exports, free alongside ship value.

⁴Less than ¹/₂ unit.