

Mineral Industry Surveys

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MANGANESE IN JUNE 2017

Preliminary data for June 2017 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 31,600 metric tons (t) (gross weight). This was 10% less than the revised amount consumed in May 2017 (35,000 t) (fig. 1). Manganese ore consumption during the first 6 months of 2017 was 211,000 t, which was slightly more the amount consumed during the same period in 2016. Industry stocks of ore at the end of June 2017 were 117,000 t, 4% less than the revised amount at the end of May 2017 (123,000 t).

On a gross-weight basis, U.S. imports of manganese ore in June 2017 were 10,900 t, down from 9,710 in May 2017 (fig. 1, table 5).

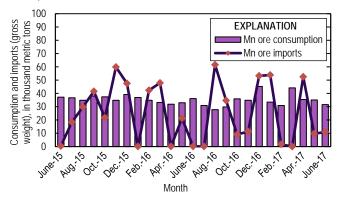


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from June 2015 through June 2017. Includes revisions to prior months' data. Sources: U.S. Census Bureau and U.S. Geological Survey.

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

in May 2017. The average spot prices were 5.04 dollars per metric ton unit, 36%–39% grade and 6.06 dollars per metric ton unit, 44% grade (fig. 2, table 1). They were also higher than those in June 2016—62% for the 36%–39% grade and 69% for the 44% grade—and about 89% to 107% more than those of June 2015, respectively. However, they were 37% and 31% less, respectively, than the 2-year high prices of December 2016.

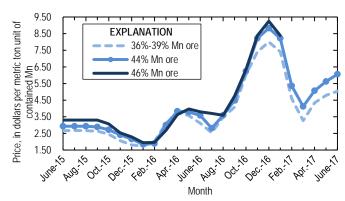


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from June 2015 through June 2017. Source: CRU Group.

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

				High
Manganese ferroalloys:				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,450.00	1,478.75	1,520.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	110.00	111.00	112.00
Silicomanganese, 65% manganese	do.	64.00	65.25	69.00
Manganese metal, 99.9% manganese flake ²	cents per pound	110.00	112.50	115.00
Manganese ore: ^{3, 4}				
36%–39% manganese	dollars per metric ton unit contained manganese	4.60	5.04	5.25
44% manganese	do.	5.50	6.06	6.25
1 100				

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%.

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

(Metric tons, manganese content)²

	Impo	orts for consumpti				
	Ore and	Ore and Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2016:						
June	324	47,600 ^r	48,000 ^r	34	1,060 ^r	1,090 ^r
January-June	59,600 ^r	208,000 r	268,000 ^r	133	7,930 ^r	8,060 ^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
May	5,030	53,300	58,400	43	1,240	1,280
June	10,300	44,800	55,100	139	905	1,040
January–June	86,900	233,000	320,000	245	9,210	9,460

rRevised.

Source: U.S. Census Bureau.

 ${\bf TABLE~3}$ U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JUNE 2017^1

(Metric tons)

					January–June	e^2
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
Australia				28,200	18,700	\$37,300,000
Brazil	405	263	\$423,000	405	263	423,000
France				2,300	1,390	3,680,000
Georgia	1,830	1,350	2,150,000	40,500	29,000	37,400,000
India	1,490	887	2,060,000	3,030	1,800	4,150,000
Italy	189	112	257,000	189	112	257,000
Malaysia				5,210	3,420	6,300,000
Mexico	2,010	1,320	2,380,000	18,800	11,700	18,300,000
Norway	3,040	1,860	4,640,000	8,190	4,930	12,100,000
Russia				8,910	5,980	11,400,000
Saudi Arabia	114	51	125,000	114	51	125,000
South Africa	16,900	11,000	18,600,000	48,200	31,300	49,400,000
Spain				7,140	4,650	8,600,000
Total	26,000	16,800	30,700,000	171,000	113,000	190,000,000

⁻⁻ Zero.

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.

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.

 ${\it TABLE~4} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~JUNE~2017}^1$

(Metric tons)

			=	January–June ²			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ³	weight	content	value ³	
Low carbon:							
Belgium	24	23	\$56,900	24	23	\$56,900	
China	775	724	1,580,000	4,050	3,770	7,640,000	
France				3,300	2,680	5,410,000	
Germany	29	27	69,100	171	164	425,000	
Japan				15	12	34,800	
Korea, Republic of	2,740	2,430	5,330,000	4,640	4,090	9,230,000	
Mexico	178	141	244,000	956	772	1,210,000	
Norway	2,100	1,700	3,660,000	13,900	11,300	23,800,000	
South Africa	54	51	101,000	135	126	251,000	
Total	5,900	5,100	11,000,000	27,200	22,900	48,100,000	
Medium carbon, 1%–2% C:							
China				45	34	115,000	
France				400	324	625,000	
Germany				1	1	2,180	
Korea, Republic of	2,510	2,010	3,430,000	9,890	7,910	15,000,000	
Mexico	274	207	545,000	1,290	975	2,420,000	
Norway	1,300	1,070	2,140,000	7,400	6,030	11,800,000	
South Africa	1,910	1,540	3,680,000	10,200	8,160	16,400,000	
Total	5,990	4,820	9,800,000	29,200	23,400	46,400,000	
High carbon:							
Australia				29,400	19,200	32,300,000	
Brazil	459	350	495,000	1,080	811	1,020,000	
Canada	40	25	46,700	125	84	195,000	
Georgia				2,400	1,860	2,230,000	
Germany				3	2	3,710	
Malaysia	5,080	3,800	7,050,000	6,080	4,560	8,170,000	
Mexico				261	186	212,000	
Norway				36	30	65,400	
Russia	892	681	839,000	3,970	3,030	3,860,000	
South Africa	14,200	10,900	19,100,000	35,700	27,100	45,100,000	
Spain				2,900	2,190	3,160,000	
Ukraine				812	622	748,000	
Total	20,700	15,700	27,600,000	82,800	59,700	97,000,000	
Grand total	32,600	25,700	48,400,000	139,000	106,000	191,000,000	

⁻⁻ Zero.

 $^{^{1}\}mathrm{Data}$ 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.

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JUNE $2017^{\rm l}$

(Metric tons)

					ne 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				11,000	5,100	\$2,220,000
47% or more manganese:						
Australia				7,390	3,550	1,930,000
Brazil	160	80	\$132,000	466	261	301,000
Gabon	10,500	9,660	2,140,000	107,000	74,500	24,700,000
Georgia	122	88	138,000	122	88	138,000
Korea, Republic of				20	14	12,800
Mexico				1,410	706	513,000
Morocco	36	22	50,900	110	66	153,000
South Africa	100	49	42,600	1,100	542	245,000
Total	10,900	9,900	2,510,000	118,000	79,700	28,000,000
Grand total	10,900	9,900	2,510,000	129,000	84,800	30,200,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

 ${\it TABLE~6}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JUNE 2017^1

(Metric tons, gross weight)

			Januai	y–June ²
		Customs		Customs
Source	Quantity	value ³	Quantity	value ³
Belgium			42	\$133,000
Brazil			18	20,500
Canada			3	3,380
China			61	95,100
Germany			21	59,200
India			35	64,600
Japan	656	\$1,400,000	3,190	6,640,000
Netherlands			22	38,100
Singapore			79	107,000
Ukraine			19	32,400
Total	656	1,400,000	3,490	7,190,000

⁻⁻ 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.

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

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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.

${\it TABLE~7} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~MANGANESE~METAL~IN~JUNE~2017}^1$

(Metric tons)

			Janua	ıry–June ²
	Gross	Customs	Gross	Customs
Source	weight	value ³	weight	value ³
Unwrought flake:				
China	774	\$1,450,000	3,150	\$5,910,000
Gabon			200	356,000
Hong Kong			50	96,300
Japan	44	216,000	194	1,060,000
Mexico			20	63,900
South Africa	432	984,000	3,680	8,830,000
Total	1,250	2,650,000	7,300	16,300,000
Unwrought powder:				
China			80	183,000
Mexico	27	86,100	131	451,000
South Africa	120	332,000	897	2,450,000
Total	147	418,000	1,110	3,080,000
Unwrought, other:				
Belgium	19	41,300	38	78,900
China	683	1,330,000	3,750	7,720,000
Germany	26	59,200	521	1,070,000
Japan	(4)	2,210	(4)	2,210
Portugal			(4)	5,100
South Africa			408	853,000
Spain			46	90,500
Total	727	1,440,000	4,770	9,810,000
Other manganese, wrought:				
Germany	25	275,000	110	1,140,000
India			(4)	2,110
Japan			3	14,000
Malaysia			(4)	3,650
Mexico	36	93,600	62	169,000
South Africa			10	19,400
Total	61	369,000	186	1,350,000
Metallic waste and scrap:				
Canada	128	19,500	290	68,400
Mexico		·	3	3,210
United Kingdom			2	5,530
Total	128	19,500	294	77,100
Grand total	2,310	4,890,000	13,700	30,600,000

⁻⁻ Zero.

 $^{^{1}\}mathrm{Data}$ 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 OF DESTINATION IN JUNE 2017^{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:					
China			48	\$61	
Germany	205	\$168	205	168	
Mexico	9	6	25	29	
Netherlands	24	76	135	558	
Poland			18	22	
United Kingdom	39	26	59	43	
Total	278	275	489	880	
Ferromanganese:					
2% or less carbon:					
Canada			2,190	3,740	
Chile			35	66	
Korea, Republic of			(5)	5	
Mexico			3	6	
Other (5 countries)			32	66	
Total			2,260	3,880	
More than 2% carbon:			_,	-,,,,,,	
Argentina			8	23	
Brazil			21	59	
Canada	222	383	2,020	3,050	
Mexico			125	180	
Singapore			5	15	
United Kingdom			9	27	
Other (5 countries)			12	36	
Total	222	383	2,200	3,390	
Silicomanganese:			_,,	-,-,-	
Canada	291	415	4,540	6,380	
Georgia			128	120	
United Kingdom		6	4	6	
Total	295	421	4,680	6,510	
Metal, including alloys and waste and scrap: ⁶		.21	.,000	0,510	
Belgium			16	303	
Canada		23	15	52	
China	6	103	85	582	
Costa Rica			6	111	
India		21	689	512	
Japan			66	227	
Malaysia	445	137	1,360	514	
Mexico	9	120	165	545	
Pakistan		120	93	72	
Other (10 countries)			117	240	
Total	535	402	2,610	3,160	
Grand total	1,330	1,480	12,200	17,800	
Zero	1,330	1,400	12,200	17,000	

⁻⁻ 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.

⁵Less than ½ unit.

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

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

				January–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	2,400	\$1,780	South Africa 1,520; \$838	12,200	\$8,610	South Africa 7,150; \$3,600
Manganites, manganates, and other permanganates	(4)	3	Canada (4); \$3	(4)	12	Canada (4); \$12
Potassium permanganate	37	92	India 37; \$92	292	729	India 275; \$689
Sodium permanganate	94	194	China 57; \$109	467	1,050	China 342; \$754
Sulfates, basket category, including manganese sulfate	7,410	5,310	China 2,540; \$2,290	31,600	26,300	China 11,600; \$8,790
Exports:						
Manganese dioxide	337	743	Canada 175; \$165	2,680	4,360	Canada 1,190; \$1,100
Manganese oxides other than dioxide	778	1,170	Belgium 205; \$141	3,850	6,890	Netherlands 588; \$581
Manganites, manganates, and other permanganates	17	36	Canada 16; \$31	44	263	Canada 41; \$81
Potassium permanganate	288	806	Belgium 161; \$387	1,460	4,000	Belgium 721; \$1,730
Sodium permanganate	39	131	Mexico 19; \$78	281	915	Belgium 187; \$396
Sulfates, basket category, including manganese sulfate	1,580	2,620	Canada 830; \$484	10,500	12,700	Canada 7,520; \$3,870

Data are rounded to no more than three significant digits.

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

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

⁴Less than ½ unit.