

# Mineral Industry Surveys

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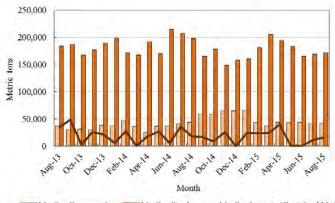
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### MANGANESE IN AUGUST 2015

Preliminary data for August 2015 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 42,300 metric tons (t) (gross weight). This was a slight decrease compared with the amount consumed in July 2015. Manganese ore consumption during the first 8 months of 2015 was about 364,000 t, 19% more than the amount consumed during the same period of 2014 (306,000 t). This year-over-year increase was primarily the result of resumed production at Felman Production, LLC's silicomanganese production facility in Letart, WV, in July 2014. Industry stocks of ore at the end of August 2015 were estimated to be 172,000 t, which was slightly more than the amount at the end of July 2015 (169,000 t).

Combined U.S. imports of manganese dioxide and manganese ore (table 2) were 17% and 39% higher in August 2015 compared to the average monthly amount imported during the second quarter of 2015 and in July 2015, respectively,. The combined imports of these materials were slightly lower during the first 8 months of 2015 compared with those during the same period in 2014 (table 2). The amount of manganese ore that has been consumed, stockpiled, and imported since August 2013 is shown in figure 1.



Mn Ore Consumption Mn Ore Stocks -Mn Ore Imports (Contained Mn)

Figure 1. Monthly domestic consumption, stocks, and imports of manganese (Mn) ore from August 2013–August 2015. Sources: U.S. Census Bureau and U.S. Geological Survey.

### Update

Silicomanganese imports from several countries were under U.S. antidumping duty administrative review throughout 2015. The International Trade Administration of the U.S. Department of Commerce (ITA) found that silicomanganese imports shipped to the United States by Nava Bharat Ventures Ltd. (India) from May 1, 2013, through April 20, 2014, were not sold below normal value, and hence, no duties on the imports were needed (International Trade Administration, 2015b).

The ITA rescinded two reviews for silicomanganese imports from Kazakhstan and Venezuela during the period of May 1, 2014, through April 30, 2015. The rescissions were made once the two U.S. silicomanganese producers—Eramet Marietta, Inc. and Felman Production, LLC—withdrew their requests for the antidumping duty reviews (International Trade Administration, 2015c, d).

The ITA made a preliminary determination that silicomanganese imports from Australia from January 1, 2014, through December 31, 2015, were being (or were likely to be) sold in the United States at less than fair value. The ITA calculated an estimated antidumping duty rate of 11.93% for the subject imports. At the request of the sole Australian silicomanganese producer, Tasmanian Electro Metallurgical Company Pty. Ltd., the ITA postponed its final antidumping determination from 4 months to 6 months (until February7, 2016) (International Trade Administration, 2015a). On October 21, the U.S. International Trade Commission (ITC) provided public notice that it was scheduling a final phase of its antidumping duty investigation into silicomanganese imports from Australia. This final phase would end on March 23, 2016, and includes a hearing on February 11, 2016 (U.S. International Trade Commission, 2015a, b).

To provide context, shipments of silicomanganese from Australia to the United States in 2013 were 75,300 t, almost triple those in 2012 (26,400 t). The amount of silicomanganese that the United States imported from Australia in 2013 was 23% of total silicomanganese imports, up from 7.6% in 2012. In 2014, silicomanganese imports from Australia were 70,800 t, which was 16% percent of the total imported by the United States. 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/.

#### **References Cited**

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- International Trade Administration, 2015b, Silicomanganese from India—Final results of antidumping duty administrative review (2013-2014): Federal Register, v. 80, no. 232, December 3, p. 75660–75661.

- International Trade Administration, 2015c, Silicomanganese from Kazakhstan– Rescission of antidumping duty administrative review (2014-2015): Federal Register, v. 80, no. 175, September 10, p. 54523–54524.
- International Trade Administration, 2015d, Silicomanganese from Venezuela— Rescission of antidumping duty administrative review (2014-2015): Federal Register, v. 80, no. 199, October 15, p. 62021.
- U.S. International Trade Commission, 2015a, Antidumping and countervailing duty investigations—Active investigations: U.S. International Trade Commission, Website, undated. (Accessed on December 29, 2015, at https://www.usitc.gov/trade\_remedy/731\_ad\_701\_cvd/investigations.htm.)
- U.S. International Trade Commission, 2015b, Silicomanganese from Australia—scheduling of the final phase of an antidumping duty investigation: Federal Register, v. 80, no. 203, October 21, p. 63833–63834.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN AUGUST 2015

					Average low,
		High	Low	Average	mid, and high
Manganese ferroalloys: <sup>1</sup>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	900.00	830.00	865.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	95.00	94.00	94.50	XX
Silicomanganese, 65% manganese	do.	50.00	48.00	49.00	XX
Manganese metal, 99.9% manganese flake <sup>2</sup>	cents per pound	115.00	112.00	XX	112.00-113.50-115.00
Manganese ore: <sup>3, 4</sup>					
36%–39% manganese	dollars per metric ton unit contained manganese	2.70	2.60	XX	2.63-2.66-2.70
44% manganese	do.	3.05	2.80	XX	2.80-2.93-3.05
46% manganese	do.	3.35	3.25	XX	3.25-3.30-3.35

do. Ditto. XX Not applicable.

<sup>1</sup>Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

<sup>2</sup>CRU 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.

<sup>3</sup>CRU Ryan's Notes, cost and freight, China; average prices reported for the price range.

<sup>4</sup>To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 46 when the manganese content is 46%.

### TABLE 2 SELECTED U.S. FOREIGN TRADE IN MANGANESE<sup>1</sup>

	Impor	ts for consumpt	ion	Exports			
	Ore and	Ferroalloy			Ferroalloy		
	dioxide	and metal	Total	Ore	and metal	Total	
2014:							
August	19,500	75,800	95,300	54	887	940	
January-August	146,000	429,000	575,000	359	6,660	7,020	
2015:							
January	25,200	53,800 <sup>r</sup>	78,900 <sup>r</sup>	9	894	903	
February	24,300 r	44,300	68,600 r	27	378	405	
March	24,600	32,800	57,300	56	292	348	
April	40,700	40,900	81,500	9	582	591	
May	571 <sup>3</sup>	67,900	68,500 <sup>3</sup>	25	235	260	
June	526	30,700	31,200	36	337	373	
July	11,700	49,000	60,700	8	866	875	
August	16,300	29,900	46,100	76	739	815	
January-August	144,000	349,000	493,000	246	4,320	4,570	

#### (Metric tons, manganese content)<sup>2</sup>

Revised

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

<sup>3</sup>Revised based on U.S. Geological Survey inquiry to the Census Bureau.

Source: U.S. Census Bureau.

### TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN AUGUST 2015 $^{\rm 1}$

#### (Metric tons)

				January–August		ıst
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value <sup>2</sup>	weight	content	value <sup>2</sup>
Australia	3,910	2,570	\$3,850,000	39,800	26,100	\$42,500,000
China				10	7	20,100
Georgia	1,670	1,130	1,510,000	64,100	46,400	65,100,000
India	135	80	169,000	2,480	1,510	3,930,000
Indonesia				23	15	24,800
Korea, Republic of				2,000	1,400	1,980,000
Mexico	2,900	1,900	2,710,000	21,800	14,200	21,600,000
Norway	1,430	878	1,890,000	14,100	8,650	19,400,000
South Africa	6,560	4,270	6,050,000	71,600	46,500	74,100,000
Spain	952	620	937,000	10,800	7,020	10,500,000
Ukraine	20	14	18,300	20	14	18,300
Zambia				3,300	2,150	3,200,000
Total	17,600	11,500	17,100,000	230,000	154,000	242,000,000

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Customs 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 4 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN AUGUST $2015^1$

### (Metric tons)

					January–August		
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value <sup>2</sup>	weight	content	value <sup>2</sup>	
Low carbon:							
China	1,180	1,100	\$2,230,000	9,980	9,220	\$21,400,000	
Germany	24	23	66,600	150	140	411,000	
Korea, Republic of				2,410	2,000	5,160,000	
Mexico				400	315	631,000	
Norway	2,320	1,880	3,520,000	17,000	13,800	26,700,000	
South Africa				330	313	854,000	
Total	3,520	3,010	5,820,000	30,200	25,700	55,200,000	
Medium carbon, 1%–2% C:							
Australia	546	406	1,010,000	1,850	1,450	2,050,000	
China				80	61	177,000	
Egypt				298	242	444,000	
Korea, Republic of				23,800	19,000	38,500,000	
Mexico	348	272	572,000	2,060	1,580	3,640,000	
Norway	1,000	816	1,290,000	7,140	5,820	9,990,000	
South Africa	635	513	1,040,000	14,300	11,400	22,900,000	
Total	2,530	2,010	3,910,000	49,500	39,500	77,700,000	
Medium carbon, 2%–4% C:							
China				16	13	36,100	
Norway				36	29	64,000	
South Africa				424	333	1,200,000	
Spain				1	1	3,190	
Vietnam				54	42	76,100	
Total				532	419	1,380,000	
High carbon:							
Australia	6,700	4,960	5,770,000	22,400	16,600	19,000,000	
Brazil				485	361	378,000	
Canada	20	12	25,100	59	40	80,600	
France				49	37	40,700	
Korea, Republic of				4,970	3,750	3,910,000	
Norway				3,000	2,390	2,960,000	
South Africa	7,570	5,800	6,180,000	93,700	70,200	84,000,000	
Spain				812	, 0 <b>,</b> 200	774,000	
Ukraine	23	15	31,500	16,700	12,900	13,900,000	
Zambia				20	12,500	29,600	
Total	14,300	10,800	12,000,000	142,000	107,000	125,000,000	
Grand total	20,400	15,800	21,700,000	222,000	173,000	259,000,000	
	20,400	15,000	21,700,000	222,000	175,000	237,000,000	

-- Zero.

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

<sup>2</sup>Customs 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 AUGUST $2015^1$

(Metric tons)

				January–August <sup>3</sup>			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value <sup>2</sup>	weight	content	value <sup>2</sup>	
More than 20%, but less than 47% manganese:							
Gabon				32,600	14,000	\$3,840,000	
Mexico				1,509	694	357,162	
South Africa				40,000	14,700	4,289,457	
Total				74,060	29,435	8,486,619	
47% or more manganese:							
Australia				19,800	9,830	5,840,000	
Brazil				3,570	1,840	1,160,000	
Canada				60	31	12,500	
China				8	4	7,840	
France				15	8	19,600	
Gabon	29,600	15,700	\$6,020,000	187,000	97,200	46,100,000	
Ivory Coast				18	8	19,400	
Mexico				3,000	1,410	870,000	
Morocco				77	68	102,000	
Netherlands				(4)	(4)	23,900	
South Africa	200	97	109,000	1,320	655	408,000	
Total	29,800	15,800	6,120,000	215,000	111,000	54,600,000	
Grand total	29,800	15,800	6,120,000	289,000	140,000	63,100,000	

-- Zero.

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

 $^{2}$ Customs 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.

<sup>3</sup>Includes revised data that are not broken out by specific month(s).

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

Source: U.S. Census Bureau.

### TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN AUGUST 2015 $^{\rm 1}$

#### (Metric tons, gross weight)

			January	–August
		Customs		Customs
Source	Quantity	value <sup>2</sup>	Quantity	value <sup>2</sup>
Belgium	38	\$118,000	76	\$297,000
Brazil	19	22,800	19	22,800
China	2	7,940	199	218,000
Germany			11	38,900
India			(3)	8,640
Japan	654	1,480,000	4,460	10,300,000
Korea, Republic of			(3)	3,880
Mexico			(3)	4,220
Netherlands			89	73,900
Poland			(3)	4,320
Singapore	34	57,300	140	238,000
South Africa			275	468,000
Spain			4	13,600
Turkey	65	111,000	222	377,000
Total	812	1,790,000	5,490	12,000,000

-- Zero.

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

<sup>2</sup>Customs 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.

<sup>3</sup>Less than  $\frac{1}{2}$  unit.

### TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN AUGUST $2015^1$

(Metric tons)

			January	/–August
	Gross	Customs	Gross	Customs
Source	weight	value <sup>2</sup>	weight	value <sup>2</sup>
Unwrought flake:				
China	827	\$2,310,000	6,430	\$13,300,000
Japan	36	123,000	272	927,000
Mexico			27	89,400
South Africa	471	1,080,000	6,080	15,400,000
Total	1,340	3,520,000	12,800	29,700,000
Unwrought powder:				
China			285	675,000
Mexico	18	60,400	142	440,000
South Africa	139	455,000	1,320	4,280,000
Total	157	515,000	1,750	5,400,000
Unwrought, other:				
China	840	1,620,000	6,260	13,400,000
Germany	86	197,000	280	650,000
Russia			12	12,200
South Africa	82	180,000	254	622,000
Spain	72	173,000	423	1,020,000
United Kingdom			(3)	2,790
Total	1,080	2,170,000	7,230	15,700,000
Other manganese, wrought:				
France	1	19,700	4	49,200
Germany	2	16,300	126	1,350,000
India			4	18,000
Japan	(3)	16,400	(3)	43,900
Korea, Republic of			515	1,170,000
Mexico	22	71,300	112	380,000
Sweden			(3)	4,500
United Kingdom	5	64,300	14	167,000
Total	30	188,000	775	3,180,000
Metallic waste and scrap, Canada			435	113,000
Grand total	2,600	6,390,000	23,000	54,100,000

-- Zero.

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

<sup>2</sup>Customs 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.

<sup>3</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

## TABLE 8 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN AUGUST 2015<sup>1,2</sup>

			January–August		
	Gross weight	F.a.s. <sup>3</sup> value	Gross weight	F.a.s. <sup>3</sup> value	
Source	(metric tons)	(thousands)	(metric tons)	(thousands)	
Ore and concentrates with 20% or more manganese:		***	• •	***	
Canada	20	\$18	20	\$18	
Colombia	131	297	131	297	
Israel			1	8	
Mexico	2	6	6	23	
Netherlands			145	579	
Poland			15	10	
United Kingdom			173	138	
Total	152	321	491	1,070	
Ferromanganese:					
2% or less carbon:					
Canada	4	7	1,120	1,690	
France			8	15	
Mexico			9	25	
United Kingdom			5	9	
Venezuela			1	3	
Total	4	7	1,150	1,740	
More than 2% carbon:					
Angola			2	3	
Canada	148	135	726	710	
Congo			7	14	
Denmark			7	19	
Equatorial Guinea			9	20	
Germany			4	11	
Israel			7	21	
Italy			22	38	
Mexico			19	31	
Venezuela			2	6	
Other (3 countries)			3	10	
Total	148	135	808	882	
Silicomanganese:	140	155	000	002	
Canada	77	100	417	521	
India			20	18	
Mexico			155	229	
Venezuela			133	5	
Total		100	592	774	
		100	392	//4	
Metal, including alloys and waste and scrap <sup>:4</sup>		~	10	104	
Canada	2	5	40	104	
China	60	79	160	320	
Germany			26	108	
Japan			143	500	
Malaysia	478	180	1,640	863	
Netherlands	16	62	97	387	
Norway			32	1,430	
Pakistan			120	50	
Taiwan			40	21	
United Kingdom	4	38	28	168	
Other (8 countries)	9	46	62	665	
Total	568	409	2,390	4,610	
Grand total	949	973	5,430	9,080	

-- Zero.

<sup>1</sup>Presentation of monthly data is based on the "January-August" quantities of the leading countries.

 $^2\mbox{Data}$  rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>Free alongside ship.

<sup>4</sup>Includes manganese-aluminum, other alloys, and waste and scrap.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN AUGUST 2015, BY CLASS <sup>1</sup>

				January–August		
	Gross weight	Value <sup>2</sup>	Principal sources and destinations: gross weight (metric tons);	Gross weight	Value <sup>2</sup>	Principal sources and destinations: gross weight (metric tons);
Class	U			U		
	(metric tons)	(thousands)	value <sup>2</sup> (thousands)	(metric tons)	(thousands)	value <sup>2</sup> (thousands)
Imports for consumption:					*	
Manganese oxides other than dioxide	530	\$617	Mexico 160; \$137	7,220	\$5,890	Korea, Republic of 2,950; \$2,460
Manganites, manganates, and						
other permanganates				123	376	China 120; \$318
Potassium permanganate	37	97	India 37; \$97	622	1,630	India 613; \$1,614
Sodium permanganate	138	327	China 138; \$327	1,460	3,310	China 1,460; \$3,300
Sulfates, basket category,						
including manganese sulfate	3,830	4,510	China 1,490; \$944	43,300	38,700	Mexico 14,000; \$12,400
Exports:						
Manganese dioxide	224	771	Estonia 64; \$346	1,970	4,910	Canada 539; \$578
Manganese oxides other than dioxide	971	1,310	Belgium 205; \$108	5,930	9,680	United Arab Emirates 789; \$923
Manganites, manganates, and						
other permanganates	39	76	Canada 39; \$76	122	408	Canada 116; \$238
Potassium permanganate	184	485	Belgium 107; \$252	2,530	6,350	Belgium 1,500; \$3,440
Sodium permanganate	39	94	Mexico 37; \$84	548	1,600	Mexico 285; \$1,020
Sulfates, basket category,						
including manganese sulfate	2,640	1,970	Canada 2,290; \$846	18,100	13,000	Canada 15,400; \$6,310

-- Zero.

<sup>1</sup>Data are rounded to no more than three significant digits.

<sup>2</sup>For imports, customs value; for exports, free alongside ship value.