

Mineral Industry Surveys

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MANGANESE IN MAY 2014

Preliminary domestic data (gross weight) for May 2014 indicated that consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 37,000 metric tons (t). This was 43% more than the amount consumed in April 2014. Manganese ore consumption during the first 5 months of 2014 was 183,000 t, or 24% less than that consumed during the same period of 2013. This decrease in manganese ore consumption was primarily the result of continuing curtailment at Felman Production, LLC's silicomanganese production facility in Letart, WV. Industry stocks of ore at the end of May 2014 were estimated to be

170,000 t, which was a 12% decrease from those at the end of April 2014.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in May 2014.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN MAY 2014

		High	Low	Average	Average low, mid, and high
<u>Manganese ferrous alloys:¹</u>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,110.00	1,060.00	1,082.50	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	96.00	92.00	95.50	XX
Silicomanganese, 65% manganese	do.	62.00	58.00	60.38	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	130.00	128.00	XX	128.00–129.00–130.00
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	3.90	3.80	XX	3.80–3.85–3.90
44% manganese	do.	4.50	4.30	XX	4.31–4.40–4.50
46% manganese	do.	5.00	4.95	XX	4.95–4.98–5.00

do. Ditto. XX Not applicable.

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 46 when the manganese content is 46%.

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
2013:						
May	26,100	51,300	77,400	22	1,060	1,080
January–May	107,000	238,000	345,000	91	5,050	5,150
2014:						
January	6,510	32,200	38,700	21	1,130	1,150
February	28,000	61,500	89,500	202	1,100	1,310
March	1,910	46,400	48,300	1	1,010	1,020
April	19,100	52,100	71,100	23	464	487
May	27,500	74,700	102,000	31	749	780
January–May	83,100	267,000	350,000	278	4,460	4,740

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 MAY 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–May		
				Gross weight	Mn content	Customs value ²
Australia	6,510	4,300	\$7,450,000	32,000	21,400	\$32,900,000
Bahrain	999	649	1,130,000	2,000	1,300	2,250,000
Brazil	--	--	--	7,550	4,980	7,760,000
China	200	151	279,000	400	302	564,000
Georgia	14,400	9,820	15,700,000	62,200	42,800	62,600,000
Hong Kong	--	--	--	1	1	3,700
India	243	152	381,000	1,790	1,130	2,590,000
Indonesia	40	26	41,100	79	52	82,200
Korea, Republic of	20	13	20,500	20	13	20,500
Mexico	3,100	2,020	3,180,000	12,500	8,150	12,900,000
Norway	8,360	5,380	10,800,000	20,000	12,900	25,100,000
Russia	538	377	633,000	538	377	633,000
Saudi Arabia	6,030	3,920	6,170,000	6,030	3,920	6,170,000
South Africa	15,200	9,940	16,000,000	52,500	34,500	53,900,000
Spain	565	369	680,000	1,330	870	1,600,000
Total	56,200	37,100	62,500,000	199,000	133,000	209,000,000

-- Zero.

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

²Customs 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 MAY 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–May		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	808	754	\$1,830,000	4,460	4,120	\$10,200,000
France	--	--	--	19	15	48,300
Korea, Republic of	--	--	--	3,010	2,760	6,190,000
Norway	3,420	2,760	5,180,000	8,450	6,850	12,600,000
South Africa	270	255	635,000	1,620	1,530	3,820,000
Total	4,500	3,770	7,650,000	17,600	15,300	32,900,000
Medium carbon, 1%–2% C:						
India	--	--	--	1	1	3,250
Korea, Republic of	3,000	2,450	4,150,000	8,000	6,480	10,800,000
Mexico	139	105	302,000	636	484	1,370,000
Norway	3,180	2,590	4,190,000	6,780	5,510	8,620,000
South Africa	2,610	2,090	3,230,000	8,980	7,220	12,300,000
Total	8,930	7,230	11,900,000	24,400	19,700	33,100,000
Medium carbon, 2%–4% C:						
Brazil	--	--	--	135	100	123,000
China	1	(3)	3,300	1	(3)	3,300
Total	1	(3)	3,300	136	100	126,000
High carbon:						
Australia	13,000	9,730	12,400,000	30,000	22,700	23,700,000
Brazil	270	196	235,000	1,050	764	896,000
Canada	11	7	14,600	88	56	123,000
France	--	--	--	662	503	609,000
Korea, Republic of	300	227	324,000	519	395	548,000
Macedonia	152	114	141,000	152	114	141,000
Saudi Arabia	503	377	483,000	503	377	483,000
South Africa	15,600	11,800	14,200,000	75,300	57,300	67,400,000
Spain	--	--	--	48	37	49,300
Ukraine	20	12	29,200	171	115	219,000
Total	29,900	22,500	27,800,000	108,000	82,300	94,100,000
Grand total	43,300	33,500	47,400,000	150,000	117,000	160,000,000

-- Zero.

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

²Customs 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MAY 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–May		
				Gross weight	Mn content	Customs value ²
More than 20%, but less than 47% manganese:						
China	--	--	--	11	5	\$6,120
Gabon	9,000	3,870	\$1,170,000	40,600	16,500	6,690,000
Mexico	--	--	--	3,360	1,250	773,000
Total	9,000	3,870	1,170,000	43,900	17,800	7,470,000
47% or more manganese:						
Australia	4,980	2,440	1,460,000	17,600	8,670	5,920,000
Brazil	80	40	34,600	2,910	1,560	1,280,000
Gabon	40,000	20,700	9,640,000	98,400	50,000	22,900,000
Morocco	--	--	--	851	425	51,100
Netherlands	--	--	--	5	4	5,760
South Africa	--	--	--	1,400	1,080	1,320,000
Total	45,100	23,200	11,100,000	121,000	61,700	31,500,000
Grand total	54,100	27,000	12,300,000	165,000	79,500	38,900,000

-- Zero.

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

²Customs 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 MAY 2014¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–May	
			Quantity	Customs value ²
Belgium	--	--	164	\$98,600
Bolivia	9	\$14,500	9	14,500
Brazil	18	20,300	18	20,300
China	--	--	62	56,800
Germany	--	--	14	23,200
Japan	522	1,220,000	2,580	5,960,000
Netherlands	--	--	80	34,000
Singapore	12	20,200	60	101,000
South Africa	218	546,000	2,480	5,550,000
Spain	70	27,700	70	27,700
Turkey	--	--	464	240,000
Total	848	1,850,000	5,990	12,100,000

-- Zero.

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

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, 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 MAY 2014¹

(Metric tons)

Source	Gross weight	Customs value ²	January–May	
			Gross weight	Customs value ²
Unwrought flake:				
China	824	\$1,700,000	3,240	\$6,590,000
Hong Kong	--	--	60	130,000
Japan	54	183,000	268	914,000
Mexico	4	14,200	127	414,000
South Africa	1,260	3,230,000	4,130	10,900,000
Total	2,140	5,120,000	7,820	18,900,000
Unwrought powder:				
China	--	--	20	45,200
Mexico	1	8,170	1	8,170
South Africa	119	441,000	1,070	3,760,000
Total	120	449,000	1,090	3,810,000
Unwrought, other:				
China	1,590	3,560,000	7,050	16,000,000
Germany	62	99,900	78	139,000
Mexico	5	18,000	15	47,900
Netherlands	--	--	38	91,700
Poland	--	--	(3)	4,320
South Africa	38	108,000	231	689,000
Spain	--	--	1	2,400
Total	1,700	3,790,000	7,420	16,900,000
Other manganese, wrought:				
China	--	--	(3)	2,370
Germany	12	150,000	12	150,000
India	--	--	7	22,700
Japan	(3)	2,910	(3)	7,730
Malaysia	--	--	(3)	2,400
Mexico	11	39,200	11	39,200
Poland	--	--	(3)	2,080
Total	22	192,000	29	226,000
Metallic waste and scrap, Canada	132	71,300	673	458,000
Grand total	4,110	9,620,000	17,000	40,300,000

-- Zero.

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

²Customs 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.

³Less 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 OF DESTINATION IN MAY 2014^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–May	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Argentina	3	\$13	3	\$13
Canada	21	17	395	838
China	--	--	19	17
Malaysia	--	--	6	8
Mexico	2	6	6	17
Netherlands	35	147	106	441
United Kingdom	--	--	20	17
Total	62	183	555	1,350
Ferromanganese:				
2% or less carbon:				
Cameroon	--	--	3	8
Canada	--	--	2,890	4,210
Colombia	--	--	1	4
Finland	20	36	20	36
Germany	13	25	13	25
Japan	20	34	119	211
Korea, Republic of	--	--	10	23
Qatar	--	--	3	6
Spain	--	--	40	82
Taiwan	--	--	6	11
Total	53	95	3,100	4,620
More than 2% carbon:				
Angola	7	18	7	18
Brazil	--	--	3	8
Canada	67	66	156	213
Chile	--	--	48	134
Equatorial Guinea	--	--	25	76
Gabon	3	7	3	7
Ireland	--	--	3	8
Korea, Republic of	23	63	23	63
Mexico	--	--	20	7
Other (5 countries)	--	--	9	25
Total	100	154	295	560
Silicomanganese:				
Canada	55	69	288	376
Mexico	28	55	48	88
Total	83	124	336	463
Metal, including alloys and waste and scrap:⁴				
Canada	6	18	29	81
China	17	256	44	607
Germany	75	300	75	300
India	--	--	20	13
Japan	--	--	20	65
Malaysia	431	281	1,110	694
Mexico	4	26	51	221
Philippines	--	--	36	19
United Kingdom	1	25	20	73
Vietnam	40	13	102	36
Other (7 countries)	--	--	40	1,070
Total	574	920	1,550	3,180
Grand total	871	1,480	5,840	10,200

-- Zero.

¹Presentation of monthly data is based on the "January–May" quantities of the leading countries.

²Data rounded to no more than three significant digits; may not add to totals shown.

³Free alongside ship.

⁴Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 2014, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–May		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	596	\$497	Korea, Republic of 400; \$258	3,150	\$2,750	Korea, Republic of 2,030; \$1,340
Manganites, manganates, and other permanganates	--	--	--	(3)	5	Canada (3); \$5
Potassium permanganate	124	352	India 120; \$345	739	2,110	India 735; \$2,100
Sodium permanganate	214	489	China 214; \$489	803	1,920	China 753; \$1,780
Sulfates, basket category, including manganese sulfate	5,460	4,030	China 2,360; \$1,890	24,700	19,600	Mexico 8,310; \$7,210
Exports:						
Manganese dioxide	227	653	Estonia 48; \$255	1,610	3,560	Canada 693; \$656
Manganese oxides other than dioxide	1,120	1,210	Netherlands 636; \$509	5,490	7,530	Netherlands 1,440; \$1,130
Manganites, manganates, and other permanganates	15	40	Canada 14; \$35	79	245	Mexico 40; \$144
Potassium permanganate	228	640	Spain 91; \$229	1,700	4,540	Belgium 964; \$2,430
Sodium permanganate	104	352	Mexico 38; \$165	436	1,320	Mexico 172; \$618
Sulfates, basket category, including manganese sulfate	1,480	1,890	Canada 1,070; \$665	7,610	8,960	Canada 5,640; \$3,320

-- Zero.

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

²For imports, customs value; for exports, free alongside ship value.

³Less than ½ unit.

Source: U.S. Census Bureau.