

Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4973, Fax: (703) 648-7757
E-mail: lcorathers@usgs.gov

Hodan A. Fatah (Data)
Telephone: (703) 648-4971
Fax: (703) 648-7975
E-mail: hfatah@usgs.gov

Internet: <http://minerals.usgs.gov/minerals>

MANGANESE IN MARCH 2014

Preliminary domestic data (gross weight) for March 2014 indicated that consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 35,800 metric tons (t). This was 24% less than the amount consumed in February 2014. Manganese ore consumption during the first 3 months of 2014 was 120,000 t, or 15% 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 March 2014 were estimated to be 168,000 t, which was a slight decrease from those at the end of February 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 March 2014.

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

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys:¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,120.00	1,080.00	1,102.50	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	93.00	89.00	91.06	XX
Silicomanganese, 65% manganese	do.	62.00	59.00	60.63	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	130.00	128.00	XX	128.00–129.00–130.00
Manganese ore:^{3,4}					
36%–39% manganese	dollars per metric ton unit contained manganese	4.60	4.20	XX	4.36–4.43–4.50
44% manganese	do.	5.30	4.80	XX	5.10–5.14–5.18
46% manganese	do.	5.60	4.95	XX	5.35–5.38–5.41

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:						
March	38,100	49,100	87,200	29	1,410	1,440
January–March	79,500	124,000	203,000	56	2,460	2,520
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
January–March	36,500	140,000	177,000	224	3,250	3,470

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 MARCH 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
Australia	6,510	4,300	\$6,880,000	18,000	12,100	\$16,800,000
Brazil	1,510	1,010	1,610,000	7,550	4,980	7,760,000
Georgia	17,700	12,400	17,300,000	33,000	23,200	31,700,000
Hong Kong	1	1	3,700	1	1	3,700
India	378	234	567,000	783	489	1,170,000
Indonesia	39	26	41,100	39	26	41,100
Mexico	3,100	2,020	3,180,000	6,200	4,040	6,370,000
Norway	623	405	663,000	6,720	4,420	7,060,000
South Africa	1,320	876	1,330,000	25,500	16,700	25,900,000
Total	31,200	21,300	31,600,000	97,800	66,000	96,800,000

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 MARCH 2014¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	612	570	\$1,460,000	3,560	3,290	\$8,170,000
France	--	--	--	19	15	48,300
Korea, Republic of	--	--	--	1,510	1,500	2,930,000
Norway	130	105	186,000	2,900	2,360	4,240,000
South Africa	351	332	824,000	837	792	1,980,000
Total	1,090	1,010	2,470,000	8,820	7,960	17,400,000
Medium carbon, 1%–2% C:						
India	--	--	--	1	1	3,250
Korea, Republic of	--	--	--	3,000	2,400	3,950,000
Mexico	39	30	88,700	279	216	630,000
Norway	237	191	289,000	1,720	1,390	2,110,000
South Africa	2,530	2,050	3,760,000	4,470	3,580	6,200,000
Total	2,810	2,270	4,140,000	9,470	7,590	12,900,000
Medium carbon, 2%–4% C, Brazil	--	--	--	135	100	123,000
High carbon:						
Australia	1,300	996	824,000	17,000	13,000	11,300,000
Brazil	350	258	303,000	485	358	419,000
Canada	20	13	29,600	30	19	43,200
France	662	503	609,000	662	503	609,000
Korea, Republic of	19	15	25,700	219	168	225,000
South Africa	22,400	17,100	20,400,000	47,700	36,500	42,100,000
Ukraine	28	18	36,200	92	60	120,000
Total	24,800	18,900	22,200,000	66,200	50,600	54,800,000
Grand total	28,700	22,200	28,800,000	84,600	66,200	85,200,000

-- 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 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MARCH 2014^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–March		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
China	11	5	\$6,120	11	5	\$6,120
Gabon	--	--	--	28,600	11,400	5,130,000
Mexico	120	56	39,000	298	138	92,700
Total	131	61	45,100	28,900	11,500	5,230,000
47% or more manganese:						
Australia	--	--	--	12,600	6,220	4,450,000
Brazil	--	--	--	2,830	1,520	1,240,000
Gabon	--	--	--	29,000	14,100	5,660,000
Netherlands	5	4	5,760	5	4	5,760
South Africa	1,300	1,030	1,270,000	1,400	1,080	1,320,000
Total	1,310	1,030	1,280,000	45,800	22,900	12,700,000
Grand total	1,440	1,100	1,320,000	74,700	34,400	17,900,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

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

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 MARCH 2014¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–March	
			Quantity	Customs value ²
Belgium	85	\$65,300	164	\$98,600
China	--	--	2	7,930
Germany	--	--	8	13,100
Japan	594	1,400,000	1,410	3,230,000
Netherlands	--	--	80	34,000
Singapore	24	40,500	36	60,700
South Africa	354	825,000	1,280	2,550,000
Turkey	293	152,000	464	240,000
Total	1,350	2,480,000	3,440	6,230,000

-- 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 MARCH 2014¹

(Metric tons)

Source	Gross weight	Customs value ²	January–March	
			Gross weight	Customs value ²
Unwrought flake:				
China	106	\$269,000	891	\$1,970,000
Japan	54	183,000	165	562,000
Mexico	33	99,600	102	319,000
South Africa	785	2,060,000	2,200	5,850,000
Total	977	2,610,000	3,360	8,710,000
Unwrought powder:				
China	--	--	20	45,200
South Africa	159	595,000	695	2,450,000
Total	159	595,000	715	2,490,000
Unwrought, other:				
China	1,580	3,550,000	3,450	7,870,000
Germany	8	19,300	8	19,300
South Africa	19	53,800	136	420,000
Spain	--	--	1	2,400
Total	1,610	3,630,000	3,600	8,310,000
Other Manganese, Wrought:				
Japan	(3)	4,820	(3)	4,820
Poland	--	--	(3)	2,080
Total	(3)	4,820	(3)	6,900
Metallic waste and scrap, Canada	174	59,600	423	346,000
Grand total	2,920	6,900,000	8,090	19,900,000

-- 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.

³Less 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 MARCH 2014^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–March	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	--	--	346	\$796
China	--	--	19	17
Malaysia	--	--	6	8
Mexico	2	\$6	4	12
Netherlands	--	--	53	233
United Kingdom	--	--	20	17
Total	2	6	448	1,080
Ferromanganese:				
2% or less carbon:				
Cameroon	3	8	3	8
Canada	757	1,090	2,850	4,150
Colombia	1	4	1	4
Japan	--	--	100	177
Korea, Republic of	--	--	10	23
Qatar	--	--	3	6
Spain	--	--	40	82
Taiwan	6	11	6	11
Total	766	1,110	3,010	4,460
More than 2% carbon:				
Canada	--	--	36	63
Chile	--	--	48	134
Equatorial Guinea	11	31	25	76
Ghana	1	3	1	3
Ireland	3	8	3	8
Other (4 countries)	--	--	9	22
Total	15	43	121	307
Silicomanganese:				
Canada	109	139	148	199
Mexico	--	--	20	33
Total	109	139	168	232
Metal, including alloys and waste and scrap:⁴				
Canada	21	56	23	63
China	4	48	15	173
Hong Kong	6	100	6	100
India	--	--	20	13
Korea, Republic of	6	23	6	27
Malaysia	226	106	442	199
Mexico	(5)	8	26	86
Norway	--	--	18	833
Philippines	--	--	36	19
Vietnam	62	23	62	23
Other (2 countries)	--	--	3	82
Total	325	364	659	1,620
Grand total	1,220	1,660	4,410	7,700

-- Zero.

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

⁵Less than ½ unit.

Source: U.S. Census Bureau.

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

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–March		
				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	884	\$777	Korea, Republic of 680; \$456	1,760	\$1,570	Korea, Republic of 1,120; \$767
Manganites, manganates, and other permanganates	--	--	--	(3)	5	Canada (3); \$5
Potassium permanganate	125	358	India 125; \$358	468	1,340	India 468; \$1,330
Sodium permanganate	287	686	China 268; \$641	480	1,160	China 442; \$1,050
Sulfates, basket category, including manganese sulfate	4,130	3,020	Mexico 1,850; \$1,580	13,800	11,700	Mexico 5,450; \$4,610
Exports:						
Manganese dioxide	375	755	Canada 178; \$130	987	2,290	Canada 388; \$365
Manganese oxides other than dioxide	1,040	1,510	Netherlands 152; \$94	2,710	4,280	Canada 386; \$400
Manganites, manganates, and other permanganates	4	21	Canada 3; \$7	61	180	Mexico 39; \$121
Potassium permanganate	528	1,390	Belgium 332; \$842	1,150	3,050	Belgium 747; \$1,880
Sodium permanganate	150	382	Belgium 105; \$228	241	656	Belgium 123; \$258
Sulfates, basket category, including manganese sulfate	1,590	2,020	Canada 1,130; \$567	4,700	5,610	Canada 3,520; \$2,080

-- 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.