

# Mineral Industry Surveys

---

**For information, contact:**

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

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

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

## MANGANESE IN NOVEMBER 2014

Preliminary data for November 2014 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 59,500 metric tons (t) (gross weight). This was a slight increase compared with the amount consumed in October 2014. Manganese ore consumption during the first 11 months of 2014 was 483,000 t, slightly more than the revised amount consumed during the same period of 2013 (468,000 t). Industry stocks of ore at the end of November 2014 were estimated to be 174,000 t, which was 6% more than the revised amount at the end of October 2014 (165,000 t).

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

*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/>.*

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

		High	Low	Average	Average low, mid, and high
<b>Manganese ferroalloys:<sup>1</sup></b>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,060.00	1,040.00	1,050.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	98.00	97.00	97.50	XX
Silicomanganese, 65% manganese	do.	58.00	57.00	57.50	XX
Manganese metal, 99.9% manganese flake <sup>2</sup>	cents per pound	131.00	125.00	XX	125.00–128.00–131.00
<b>Manganese ore:<sup>3,4</sup></b>					
36%–39% manganese	dollars per metric ton unit contained manganese	3.90	3.70	XX	3.79–3.84–3.89
44% manganese	do.	4.40	4.30	XX	4.30–4.35–4.40
46% manganese	do.	4.80	4.55	XX	4.55–4.68–4.80

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>

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

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2013:						
November	27,300	51,000	78,300	49	169	217
January–November	252,000	489,000	741,000	296	6,850	7,150
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
June	6,740	48,400	55,200	19	346	366
July	37,100	37,900	75,000	9	965	974
August	19,500	75,800	95,300	54	887	940
September	17,100	34,900	52,000	--	858	858
October	9,360	43,200	52,500	26	978	1,010
November	26,500	61,700	88,100	24	753	778
January–November	199,000	569,000	768,000	410	9,250	9,660

-- Zero.

<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.

Source: U.S. Census Bureau.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN NOVEMBER 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–November		
				Gross weight	Mn content	Customs value <sup>2</sup>
Australia	--	--	--	63,000	41,900	\$68,200,000
Bahrain	--	--	--	4,000	2,600	4,540,000
Brazil	--	--	--	7,890	5,210	8,120,000
China	--	--	--	400	302	564,000
Georgia	17,200	12,600	\$17,600,000	133,000	93,200	139,000,000
Hong Kong	--	--	--	1	1	3,700
India	297	187	477,000	3,680	2,320	5,650,000
Indonesia	--	--	--	1,840	1,210	1,880,000
Korea, Republic of	--	--	--	20	13	20,500
Mexico	3,500	2,280	3,610,000	31,400	20,500	32,300,000
Norway	21	13	41,400	33,200	21,100	44,200,000
Russia	--	--	--	548	381	646,000
Saudi Arabia	--	--	--	6,030	3,920	6,170,000
South Africa	23,500	15,500	25,900,000	126,000	83,000	135,000,000
Spain	136	86	170,000	1,950	1,270	2,330,000
Zambia	1,050	680	1,100,000	1,150	746	1,210,000
Total	45,700	31,400	48,800,000	414,000	278,000	450,000,000

-- 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.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN NOVEMBER 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–November		
				Gross weight	Mn content	Customs value <sup>2</sup>
<b>Low carbon:</b>						
Canada	--	--	--	89	32	\$92,300
China	90	83	\$187,000	7,010	6,500	15,800,000
France	--	--	--	19	15	48,300
Germany	2	2	5,900	2	2	5,900
Korea, Republic of	1,460	1,160	2,980,000	6,470	5,770	13,400,000
Norway	2,020	1,640	3,210,000	18,500	15,000	28,400,000
South Africa	76	72	190,000	2,490	2,350	5,840,000
<b>Total</b>	<b>3,640</b>	<b>2,950</b>	<b>6,580,000</b>	<b>34,600</b>	<b>29,700</b>	<b>63,500,000</b>
<b>Medium carbon, 1%–2% C:</b>						
China	--	--	--	180	137	440,000
India	--	--	--	1	1	3,250
Korea, Republic of	4,010	3,210	5,920,000	19,000	15,400	26,800,000
Mexico	668	511	1,190,000	2,150	1,650	4,250,000
Norway	1,300	1,050	1,830,000	12,800	10,400	16,900,000
South Africa	--	--	--	16,200	13,000	22,800,000
Vietnam	243	190	311,000	486	379	622,000
<b>Total</b>	<b>6,220</b>	<b>4,960</b>	<b>9,250,000</b>	<b>50,900</b>	<b>41,000</b>	<b>71,800,000</b>
<b>Medium carbon, 2%–4% C:</b>						
Brazil	--	--	--	135	100	123,000
China	--	--	--	1	( <sup>3</sup> )	3,300
Slovenia	1	1	2,480	1	1	2,480
<b>Total</b>	<b>1</b>	<b>1</b>	<b>2,480</b>	<b>137</b>	<b>101</b>	<b>129,000</b>
<b>High carbon:</b>						
Australia	--	--	--	44,300	33,300	37,200,000
Brazil	--	--	--	1,640	1,190	1,360,000
Canada	20	12	24,100	179	116	253,000
France	--	--	--	662	503	609,000
Korea, Republic of	--	--	--	519	395	548,000
Macedonia	--	--	--	152	114	141,000
Norway	1	1	2,380	1	1	2,380
Saudi Arabia	--	--	--	503	377	483,000
South Africa	25,700	19,700	24,800,000	193,000	147,000	180,000,000
Spain	--	--	--	312	238	316,000
Ukraine	49	31	67,500	3,300	2,530	3,250,000
<b>Total</b>	<b>25,700</b>	<b>19,800</b>	<b>24,900,000</b>	<b>245,000</b>	<b>186,000</b>	<b>225,000,000</b>
<b>Grand total</b>	<b>35,600</b>	<b>27,700</b>	<b>40,700,000</b>	<b>331,000</b>	<b>257,000</b>	<b>360,000,000</b>

-- 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 ½ unit.

Source: U.S. Census Bureau.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN NOVEMBER 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>	January–November		
				Gross weight	Mn content	Customs value <sup>2</sup>
<b>More than 20%, but less than 47% manganese:</b>						
China	--	--	--	11	5	\$6,120
Gabon	9,000	3,870	\$952,000	49,600	20,400	7,640,000
Mexico	3,040	1,100	639,000	9,420	3,440	2,010,000
Morocco	--	--	--	115	44	54,900
South Africa	--	--	--	40,000	16,100	5,650,000
Total	12,000	4,970	1,590,000	99,100	40,000	15,400,000
<b>47% or more manganese:</b>						
Australia	--	--	--	35,700	17,500	11,500,000
Belgium	--	--	--	2,890	1,440	173,000
Brazil	--	--	--	3,120	1,660	1,360,000
China	--	--	--	8	7 <sup>3</sup>	2,470
Gabon	39,500	21,100	9,180,000	251,000	129,000	58,200,000
Ivory Coast	--	--	--	18	16	19,400
Japan	--	--	--	2	1	6,000
Morocco	39	34 <sup>3</sup>	51,100	1,730	910	250,000
Netherlands	--	--	--	7	5	15,500
South Africa	--	--	--	1,460	1,110	1,350,000
Total	39,500	21,100	9,230,000	296,000	152,000	72,800,000
Grand total	51,600	26,100	10,800,000	395,000	192,000	88,200,000

-- 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>Reported as manganese dioxide content. The Mn content would be about 55% for these Mn Ore imports.

Source: U.S. Census Bureau.

TABLE 6  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE  
DIOXIDE IN NOVEMBER 2014<sup>1</sup>

(Metric tons, gross weight)

Source	Quantity	Customs value <sup>2</sup>	January–November	
			Quantity	Customs value <sup>2</sup>
Belgium	--	--	233	\$163,000
Bolivia	--	--	9	14,500
Brazil	--	--	18	20,300
Canada	--	--	5	8,000
China	--	--	181	152,000
Colombia	--	--	4	8,530
Germany	7	\$12,100	28	55,500
India	--	--	17	32,800
Japan	414	956,000	5,320	12,300,000
Netherlands	15	24,900	95	58,900
Singapore	24	40,500	155	263,000
South Africa	136	333,000	5,610	12,300,000
Spain	--	--	311	145,000
Taiwan	1	3,870	1	3,870
Turkey	--	--	866	423,000
United Kingdom	(3)	6,980	(3)	6,980
Total	597	1,380,000	12,800	26,000,000

-- 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, U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

<sup>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN NOVEMBER 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Customs value <sup>2</sup>	January–November	
			Gross weight	Customs value <sup>2</sup>
<b>Unwrought flake:</b>				
China	1,020	\$1,910,000	8,250	\$16,400,000
Hong Kong	--	--	60	130,000
Japan	35	118,000	436	1,490,000
Mexico	21	63,100	246	805,000
South Africa	731	1,850,000	8,610	22,400,000
Total	1,810	3,940,000	17,600	41,200,000
<b>Unwrought powder:</b>				
China	--	--	189	368,000
Mexico	5	18,500	9	34,800
South Africa	278	875,000	2,300	7,820,000
Total	284	894,000	2,500	8,220,000
<b>Unwrought, other:</b>				
Belgium	--	--	3	7,520
China	408	1,030,000	10,700	24,800,000
Germany	33	77,100	127	258,000
Mexico	--	--	16	53,900
Netherlands	--	--	57	137,000
Poland	--	--	(3)	4,320
South Africa	19	50,400	404	1,160,000
Spain	--	--	10	21,600
Total	460	1,160,000	11,300	26,400,000
<b>Other manganese, wrought:</b>				
China	(3)	3,400	(3)	5,770
Germany	(3)	3,830	64	870,000
India	--	--	7	22,700
Japan	--	--	(3)	15,200
Korea, Republic of	4	190,000	2,020	4,960,000
Malaysia	--	--	(3)	12,400
Mexico	--	--	38	145,000
Netherlands	--	--	(3)	2,000
Poland	--	--	(3)	2,080
Taiwan	--	--	(3)	3,620
Total	4	197,000	2,130	6,040,000
<b>Metallic waste and scrap:</b>				
Canada	91	38,800	1,270	755,000
Germany	(3)	2,580	(3)	2,580
Total	91	41,400	1,270	757,000
<b>Grand total</b>	<b>2,650</b>	<b>6,230,000</b>	<b>34,800</b>	<b>82,700,000</b>

-- 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 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 NOVEMBER 2014<sup>1,2</sup>

Source	Gross weight (metric tons)	F.a.s. <sup>3</sup> value (thousands)	January–November	
			Gross weight (metric tons)	F.a.s. <sup>3</sup> value (thousands)
<b>Ore and concentrates with 20% or more manganese:</b>				
Canada	--	--	417	\$857
China	--	--	19	17
Hungary	--	--	16	13
Mexico	--	--	12	32
Netherlands	32	\$156	266	1,130
Panama	17	14	17	14
Poland	--	--	35	42
United Kingdom	--	--	20	17
Other (3 countries)	--	--	18	42
<b>Total</b>	<b>49</b>	<b>170</b>	<b>820</b>	<b>2,170</b>
<b>Ferromanganese:</b>				
<b>2% or less carbon:</b>				
Canada	10	11	4,350	6,430
Chile	--	--	18	34
Finland	--	--	20	36
Japan	--	--	119	211
Mexico	20	44	93	200
Spain	--	--	80	158
Turkey	--	--	40	84
Other (6 countries)	--	--	51	102
<b>Total</b>	<b>30</b>	<b>55</b>	<b>4,770</b>	<b>7,260</b>
<b>More than 2% carbon:</b>				
Angola	--	--	9	23
Brazil	--	--	10	27
Canada	48	51	420	551
Chile	--	--	48	134
Equatorial Guinea	--	--	43	113
Ghana	--	--	9	31
Singapore	22	61	59	165
Other (10 countries)	--	--	85	185
<b>Total</b>	<b>70</b>	<b>112</b>	<b>683</b>	<b>1,230</b>
<b>Silicomanganese:</b>				
Canada	757	913	1,900	2,350
France	--	--	391	555
India	--	--	160	127
Mexico	--	--	76	153
<b>Total</b>	<b>757</b>	<b>913</b>	<b>2,530</b>	<b>3,190</b>
<b>Metal, including alloys and waste and scrap:<sup>4</sup></b>				
Canada	7	17	67	185
China	--	--	76	1,060
Germany	13	52	101	417
Japan	14	52	64	226
Malaysia	78	33	2,110	1,130
Mexico	(5)	9	266	931
Netherlands	8	34	43	170
Norway	--	--	37	1,670
Vietnam	--	--	322	394
Other (15 countries)	54	168	182	753
<b>Total</b>	<b>175</b>	<b>365</b>	<b>3,270</b>	<b>6,940</b>
<b>Grand total</b>	<b>1,080</b>	<b>1,610</b>	<b>12,100</b>	<b>20,800</b>

-- Zero.

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

<sup>2</sup>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.

<sup>5</sup>Less than ½ unit.

Source: U.S. Census Bureau.



TABLE 9  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN NOVEMBER 2014, BY CLASS<sup>1</sup>

Class	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)	January–November		
				Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)
<b>Imports for consumption:</b>						
Manganese oxides other than dioxide	634	\$575	South Africa, Republic of 226; \$253	7,630	\$6,370	Korea, Republic of 4,680; \$3,220
Manganites, manganates, and other permanganates	--	--	--	14	36	Korea, Republic of 14; \$27
Potassium permanganate	91	253	India 91; \$253	1,500	4,260	India 1,500; \$4,240
Sodium permanganate	157	351	China 157; \$351	2,070	4,800	China 2,020; \$4,650
Sulfates, basket category, including manganese sulfate	7,070	6,590	Chile 2,620; \$1,990	57,200	47,500	Mexico 16,700; \$14,800
<b>Exports:</b>						
Manganese dioxide	175	525	Poland 34; \$133	3,390	7,070	Canada 1,450; \$1,400
Manganese oxides other than dioxide	641	1,070	United Kingdom 100; \$122	10,100	15,600	Netherlands 1,600; \$1,510
Manganites, manganates, and other permanganates	4	10	Canada 4; \$10	136	417	Canada 94; \$224
Potassium permanganate	75	232	Canada 66; \$151	3,670	9,900	Belgium 2,060; \$5,140
Sodium permanganate	26	114	Mexico 19; \$83	896	2,610	Belgium 451; \$1,040
Sulfates, basket category, including manganese sulfate	3,520	2,290	Canada 3,110; \$1,130	19,400	20,100	Canada 14,900; \$7,820

-- 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.

Source: U.S. Census Bureau.