

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 JULY 2014

Preliminary data for July 2014 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 38,900 metric tons (t) (gross weight). This was a 4% increase compared with the amount consumed in June 2014. Manganese ore consumption during the first 7 months of 2014 was 259,000 t, or 21% less than that consumed during the same period of 2013. This decrease in manganese ore consumption was primarily the result of nominal production at Felman Production, LLC's silicomanganese production facility in Letart, WV. Industry stocks of ore at the end of July 2014 were

estimated to be 211,000 t, which was a slight decrease from those at the end of June 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 July 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 JULY 2014

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys: ¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,080.00	1,040.00	1,058.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	98.00	95.50	96.40	XX
Silicomanganese, 65% manganese	do.	62.00	57.00	59.00	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	125.00	120.00	XX	120.00-122.50-125.00
Manganese ore: ^{3, 4}					
36%–39% manganese	dollars per metric ton unit contained manganese	3.90	3.75	XX	3.77-3.83-3.89
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.

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%.

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

(Metric tons, manganese content)²

	Impo	Imports for consumption			Exports	
	Ore and	Ferroalloy		Ferroalloy		
	dioxide	and metal	Total	Ore	and metal	Total
2013:						
July	2,810	34,100	36,900	12	343	355
January–July	134,000	325,000	459,000	133	5,740	5,880
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
January–July	127,000	353,000	480,000	306	5,770	6,080

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

Source: U.S. Census Bureau.

 ${\bf TABLE~3}$ U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY ${\bf 2014}^1$

(Metric tons)

					January-July	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Australia	7,510	4,970	\$8,570,000	48,700	32,400	\$52,000,000
Bahrain	459	300	521,000	3,000	1,950	3,390,000
Brazil				7,550	4,980	7,760,000
China				400	302	564,000
Georgia	12,400	8,850	14,000,000	87,300	60,500	90,800,000
Hong Kong				1	1	3,700
India	189	123	297,000	2,300	1,450	3,440,000
Indonesia	539	354	553,000	1,790	1,180	1,830,000
Korea, Republic of				20	13	20,500
Mexico				18,500	12,100	19,000,000
Norway	1,710	1,120	1,730,000	23,400	15,200	28,700,000
Russia				538	377	633,000
Saudi Arabia				6,030	3,920	6,170,000
South Africa	5,090	3,470	5,360,000	66,400	43,700	68,600,000
Spain				1,720	1,120	2,060,000
Total	27,900	19,200	31,100,000	268,000	179,000	285,000,000

⁻⁻ Zero

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.

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.

 ${\it TABLE~4} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~JULY~2014}^1$

(Metric tons)

					January-Jul	y
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Low carbon:						
Canada	4	3	\$9,250	36	8	\$22,800
China	395	369	819,000	5,490	5,080	12,500,000
France				19	15	48,300
Korea, Republic of	1,000	843	2,230,000	4,010	3,610	8,430,000
Norway	1,700	1,380	2,660,000	10,500	8,490	15,800,000
South Africa	76	72	197,000	1,700	1,600	4,020,000
Total	3,180	2,660	5,910,000	21,700	18,800	40,800,000
Medium carbon, 1%–2% C:						
China				100	76	244,000
India				1	1	3,250
Korea, Republic of	3,000	2,400	4,390,000	11,000	8,880	15,200,000
Mexico	166	131	314,000	862	662	1,800,000
Norway	500	407	681,000	8,280	6,730	10,600,000
South Africa	3,140	2,550	5,040,000	12,100	9,760	17,300,000
Total	6,810	5,480	10,400,000	32,400	26,100	45,200,000
Medium carbon, 2%–4% C:	<u> </u>					
Brazil				135	100	123,000
China				1	(3)	3,300
Total				136	100	126,000
High carbon:						
Australia				32,600	24,700	26,000,000
Brazil	107	78	92,800	1,270	919	1,080,000
Canada	19	12	28,500	126	81	180,000
France				662	503	609,000
Korea, Republic of				519	395	548,000
Macedonia				152	114	141,000
Saudi Arabia				503	377	483,000
South Africa	8,020	6,180	8,080,000	100,000	76,500	91,700,000
Spain	48	37	49,900	96	73	99,200
Ukraine	9	6	13,200	3,140	2,430	3,030,000
Total	8,200	6,310	8,260,000	139,000	106,000	124,000,000
Grand total	18,200	14,500	24,600,000	193,000	151,000	210,000,000

⁻⁻ Zero.

 $^{^{1}\}mbox{Data}$ 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 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JULY $2014^{\rm 1}$

(Metric tons)

					January–July	/
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
More than 20%, but less than 47% manganese:						
China				11	5	\$6,120
Gabon				40,600	16,500	6,690,000
Mexico				3,360	1,250	773,000
Morocco	19	(3)	\$3,860	115	44	54,900
South Africa	40,000	16,100	5,650,000	40,000	16,100	5,650,000
Total	40,000	16,100	5,650,000	84,000	33,900	13,200,000
47% or more manganese:						
Australia				17,600	8,670	5,920,000
Belgium	1,440	721	86,600	2,890	1,440	173,000
Brazil	44	21	19,000	3,010	1,600	1,320,000
Gabon	38,200	19,200	8,280,000	146,000	74,100	33,800,000
Morocco	766	383	45,900	1,620	808	97,000
Netherlands				5	4	5,760
South Africa				1,400	1,080	1,320,000
Total	40,500	20,300	8,430,000	173,000	87,700	42,600,000
Grand total	80,500	36,400	14,100,000	257,000	122,000	55,800,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JULY 2014^1

(Metric tons, gross weight)

			Januar	y–July
		Customs		Customs
Source	Quantity	value ²	Quantity	value ²
Belgium	59	\$24,800	223	\$123,000
Bolivia			9	14,500
Brazil			18	20,300
China			62	56,800
Germany			15	33,300
Japan	515	1,180,000	3,720	8,620,000
Netherlands			80	34,000
Singapore	24	40,500	95	162,000
South Africa	517	1,290,000	3,700	7,860,000
Spain			70	27,700
Turkey			866	423,000
Total	1,120	2,530,000	8,860	17,400,000

⁻⁻ 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.

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.

 ${\it TABLE~7}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JULY 2014^1

(Metric tons)

			January–July		
	Gross	Customs	Gross	Customs	
Source	weight	value ²	weight	value ²	
Unwrought flake:					
China	1,710	\$3,340,000	5,060	\$10,100,000	
Hong Kong			60	130,000	
Japan			272	927,000	
Mexico	4	14,500	184	613,000	
South Africa	634	1,690,000	5,590	14,700,000	
Total	2,340	5,050,000	11,200	26,500,000	
Unwrought powder:					
China			60	133,000	
Mexico			1	8,170	
South Africa	178	593,000	1,410	4,890,000	
Total	178	593,000	1,470	5,030,000	
Unwrought, other:					
Belgium			3	7,520	
China	657	1,610,000	8,420	19,300,000	
Germany			78	139,000	
Mexico	2	5,990	16	53,900	
Netherlands			38	91,700	
Poland			(3)	4,320	
South Africa	38	101,000	269	790,000	
Spain			1	2,400	
Total	697	1,720,000	8,820	20,400,000	
Other manganese, wrought:					
China			(3)	2,370	
Germany	(3)	21,000	48	648,000	
India			7	22,700	
Japan			(3)	11,100	
Korea, Republic of	1,000	2,330,000	1,010	2,700,000	
Malaysia			(3)	2,400	
Mexico	11	45,400	25	101,000	
Poland			(3)	2,080	
Total	1,010	2,400,000	1,090	3,490,000	
Metallic waste and scrap, Canada	121	53,900	952	602,000	
Grand total	4,350	9,820,000	23,500	56,000,000	

⁻⁻ Zero.

 $^{^{\}mathrm{1}}\mathrm{Data}$ 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 JULY 2014 $^{1,\,2}$

		2		January–July		
		F.a.s. ³		F.a.s. ³		
	Gross weight	value	Gross weight	value		
Source	(metric tons)	(thousands)	(metric tons)	(thousands)		
Ore and concentrates with 20% or more manganese:						
Argentina			3	\$13		
Canada			398	841		
China			19	17		
Malaysia			6	8		
Mexico	2	\$6	7	23		
Netherlands	16	84	140	587		
Poland			18	22		
United Kingdom			20	17		
Total	18	90	611	1,530		
Ferromanganese:						
2% or less carbon:						
Cameroon			3	8		
Canada	335	512	3,250	4,760		
Finland			20	36		
Germany			13	25		
Japan			119	211		
Korea, Republic of	13	21	23	44		
Spain			40	82		
Turkey	40	84	40	84		
Other (3 countries)			10	21		
Total	388	617	3,520	5,270		
More than 2% carbon:			_	4.0		
Angola			7	18		
Austria	7	20	7	20		
Brazil	2	6	5	15		
Canada	39	55	269	358		
Chile			48	134		
Equatorial Guinea	6	14	37	101		
Korea, Republic of			23	63		
Mexico			20	7		
Other (7 countries)			23	65		
Total	55	96	439	782		
Silicomanganese:		240	607	762		
Canada	282 391	340	607	762		
France		555	391	555		
Mexico		895	1,070	141		
Total	673	895	1,070	1,460		
Metal, including alloys and waste and scrap: ⁴		3	30	84		
Canada China	1 9	127	64	896		
		127	76	315		
Germany India			20	13		
			44	152		
Japan Malauria	145					
Malaysia Mexico	145 16	65 59	1,420 77	827 321		
Philippines			36	19		
			20	73		
United Kingdom				36		
Vietnam Other (8 countries)			102			
Other (8 countries) Total		252	53 1,940	1,110		
Grand total	171	253	7,570	3,850 12,900		
Zero.	1,300	1,950	1,310	12,900		

⁻⁻ Zero

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

 $^{^2\}mathrm{Data}$ 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.

TABLE 9 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2014, BY ${\rm CLASS}^1$

weight c tons)	Value ²	Principal sources and destinations: gross weight (metric tons);			Principal sources and destinations:
_		gross weight (metric tons):			
c tons)			Gross weight	Value ²	gross weight (metric tons);
	(thousands)	value ² (thousands)	(metric tons)	(thousands)	value ² (thousands)
778	\$608	Korea, Republic of 510; \$334	4,150	\$3,560	Korea, Republic of 2,640; \$1,740
			14	32	Korea, Republic of 14; \$27
172	487	India 172; \$487	983	2,800	India 978; \$2,790
252	551	China 252; \$551	1,380	3,240	China 1,330; \$3,100
4,010	3,340	China 1,410; \$1,430	32,900	26,300	Mexico 10,600; \$9,410
219	490	Canada 157; \$177	2,270	4,940	Canada 1,080; \$990
702	1,300	Canada 144; \$159	6,690	9,720	Netherlands 1,550; \$1,320
17	46	Canada 17; \$41	109	320	Canada 68; \$165
266	720	Belgium 126; \$323	2,320	6,270	Belgium 1,370; \$3,450
135	409	Belgium 103; \$278	683	2,030	Belgium 320; \$753
	219 702 17 266	219 490 702 1,300 17 46 266 720	219	219 490 Canada 157; \$177 2,270 702 1,300 Canada 144; \$159 6,690 17 46 Canada 17; \$41 109 266 720 Belgium 126; \$323 2,320	219 490 Canada 157; \$177 2,270 4,940 702 1,300 Canada 144; \$159 6,690 9,720 17 46 Canada 17; \$41 109 320 266 720 Belgium 126; \$323 2,320 6,270

⁻⁻ Zero.

¹Data are rounded to no more than three significant digits.
²For imports, customs value; for exports, free alongside ship value.