

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 Connie Lopez (Data) Telephone: (703) 648-7995 Fax: (703) 648-7975 E-mail: connielopez@usgs.gov

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

MANGANESE IN AUGUST 2009

Preliminary reported data (gross weight) for August 2009 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 38,200 metric tons (t), according to the U.S. Geological Survey. This was the same as that consumed in July 2009. Manganese ore consumption in the first 8 months of 2009 was 307,000 t, which was an 18% increase from the revised amount consumed during the first 8 months of 2008. This increase was the result of sustained production by a major manganese ferroalloy producer. Industry stocks of ore at the end of August 2009 were 115,000 t, which was the same as that at the end of July 2009.

Data for U.S. manganese imports and exports for July 2009 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal were 98% lower and 79% higher, respectively, than those in June 2009. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 7 months of 2009 were 26% lower and 74% lower, respectively, than those during the same period in 2008 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for July 2009 were 165% higher and 25% lower, respectively, than those in June 2009. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 7 months of 2009 were 69% lower and 34% more, respectively, than those during the same period in 2008 (table 1).

Prices

Prices for manganese materials in August 2009, manganese content, are listed below.

Ferroalloys prices¹

X 1 1 c ²	Price Range	Average Price
High-carbon ferromanganese ²	1,000.00-1,280.00	1,141.25
Medium-carbon ferromanganese ³	83.00-90.00	86.13
Silicomanganese ³	50.00-65.00	54.75

Manganese metal and ore prices⁴

	Price Range	Average Low, Mid, and High Prices
Manganese metal ³	150.00-162.00	153.25-155.69-158.13
36%-39% Manganese ore ⁵	4.50-5.00	4.65-4.79-4.93
44% Manganese ore ⁵	5.00-5.90	5.39-5.49-5.60
48% Manganese ore ⁵	5.60-6.80	6.03-6.27-6.51

¹Source: Platts Metals Week, dealer import price; average prices reported for all transactions during the month.

²Dollars per gross ton.

³Cents per pound.

⁴Source: Ryan's Notes, cost and freight, China; average prices reported for the price range.

⁵Dollars per metric ton unit, contained manganese. To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 48 when the manganese content is 48%.

TABLE 1 SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

	Impo	orts for consump	tion		Exports	
	Ore and	Ferroalloy			Ferroalloy	
	dioxide	and metal	Total	Ore	and metal	Total
2008:						
July	20,800	66,800	87,600	634	2,560	3,190
January-July	170,000	393,000	563,000	15,100	17,900	32,900
2009:						
January	25,600	36,600	62,100	102	2,460	2,560
February	559	13,400	14,000	188	4,270	4,460
March	26,300	8,670	35,000	80	1,730	1,810
April	9,960	7,450	17,400	80	3,190	3,270
May	946	12,400	13,400	2,310	2,900	5,210
June	61,300	8,970	70,300	526	5,360	5,890
July	1,220	16,000	17,200	1,400	4,050	5,440
Total	126,000	104,000	229,000	4,690	24,000	28,600

(Metric tons, manganese content)²

¹Data 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 2 U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2009^1

(Metric tons)

					Year to date	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Australia	5,400	3,580	\$3,190,000	12,800	8,440	\$11,700,000
China				537	321	937,000
Georgia	11,400	7,220	7,490,000	18,500	12,200	14,200,000
Korea, Republic of	20	13	17,300	7,090	4,620	6,380,000
Norway	18	11	40,800	4,540	2,800	6,230,000
Saudi Arabia	1,270	665	445,000	5,860	1,610	4,550,000
South Africa	488	321	799,000	29,100	19,200	34,100,000
Total	18,600	11,800	12,000,000	78,400	49,200	78,000,000
Zero.						

2010.

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.

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JULY $2009^{\rm l}$

(Metric tons)

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ²	weight	content	value ²	
Low carbon:							
China	548	508	\$1,320,000	2,120	1,960	\$5,270,000	
Korea, Republic of				2,400	1,940	3,540,000	
Mexico				1,040	794	2,350,000	
Norway	76	58	144,000	695	563	1,370,000	
South Africa				1,000	812	2,500,000	
Sweden				5	3	27,500	
Total	624	566	1,460,000	7,260	6,070	15,100,000	
Medium carbon, 1%-2% C:							
China				536	441	1,220,000	
France				19	15	103,000	
Korea, Republic of	1,440	1,170	3,320,000	3,000	2,440	6,930,000	
Mexico				1,110	904	2,110,000	
Norway	95	78	136,000	95	78	136,000	
South Africa	40	32	73,800	7,510	5,970	20,200,000	
Turkey				20	16	95,800	
Total	1,570	1,280	3,530,000	12,300	9,860	30,800,000	
Medium carbon, 2%-4% C, South Africa	54	42	117,000	72	55	153,000	
High carbon:							
Bahrain				2,000	1,630	2,350,000	
Canada	127	69	105,000	127	69	105,000	
China				300	221	630,000	
India				2,200	1,680	1,900,000	
Korea, Republic of				201	164	239,000	
Mexico				1,300	990	1,410,000	
South Africa	362	278	962,000	30,300	23,400	44,000,000	
Total	489	348	1,070,000	36,400	28,100	50,600,000	
Grand total	2,740	2,230	6,170,000	56,000	44,100	96,600,000	

-- 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.

TABLE 4

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2009^{1, 2}

(Metric tons)

				Year to date			
Source	Gross weight	Mn content	Customs value ³	Gross weight	Mn content	Customs value ³	
More than 20%, but less than 47% manganese							
47% or more manganese:							
Brazil				2,960	1,540	\$930,000	
China	130	88	\$117,000	4,080	2,090	533,000	
Gabon				153,000	78,900	60,400,000	
Ghana				37,500	37,100	3,400,000	
Total	130	88	117,000	198,000	120,000	65,300,000	

-- 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 5

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JULY 2009¹

(Metric tons, gross weight)

		Year to	date
	Customs		Customs
Quantity	value ²	Quantity	value ²
		66	\$213,000
		56	95,600
		5	8,640
		18	31,000
		9	15,700
		(3)	7,700
322	\$877,000	2,670	7,200,000
29	49,500	29	49,500
11	18,200	61	103,000
1,520	4,010,000	7,450	16,900,000
		136	309,000
1,880	4,950,000	10,500	24,900,000
		Quantity value ² 322 \$877,000 29 49,500 11 18,200 1,520 4,010,000	Quantity value ² Quantity 66 56 56 5 18 9 (3) 322 \$877,000 2,670 29 49,500 29 11 18,200 61 1,520 4,010,000 7,450 136

-- 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 ¹/₂ unit.

TABLE 6

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JULY 2009¹

(Metric	tons)
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			Year to date		
Source	Gross weight	Customs value ²	Gross weight	Customs value ²	
Unwrought flake:					
China	155	\$374,000	2,360	\$5,560,000	
Japan	9	12,900	9	12,900	
South Africa	343	907,000	1,510	3,610,000	
Total	507	1,290,000	3,870	9,180,000	
Unwrought powder:					
China			280	994,000	
South Africa	288	960,000	983	2,940,000	
Total	288	960,000	1,260	3,940,000	
Unwrought, other:					
Brazil			15	43,500	
China	810	2,070,000	3,320	7,520,000	
Germany	101	290,000	470	1,420,000	
Hong Kong	45	98,300	183	394,000	
Malaysia			(3)	3,650	
South Africa	76	241,000	362	1,160,000	
United Kingdom	23	68,600	49	145,000	
Total	1,060	2,770,000	4,400	10,700,000	
Other manganese, wrought:					
Belgium			6	31,200	
Canada			22	54,600	
China			249	691,000	
Japan	(3)	2,140	(3)	2,140	
Mexico	40	177,000	254	1,320,000	
Poland			(3)	3,190	
South Africa	6	26,000	12	54,300	
Total	46	205,000	543	2,160,000	
Grand total	1,900	5,230,000	10,100	26,000,000	

-- Zero.

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

²Customs value generally represent 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 ¹/₂ unit.

Note: Imports for consumption of metallic waste and scrap totaled 179 metric tons, all of which was from Malaysia, to give a year-to-date total of 261 metric tons.

TABLE 7 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JULY 2009¹

(Metric tons, gross weight)

				Ferromang	ganese,						
	Mang	anese ore	2%	or less C		than 2% C	Silicon	Silicomanganese		Manganese metal ²	
Country	July	Year to date	July	Year to date	July	Year to date	July	Year to date	July	Year to date	
Argentina									3	5	
Australia						160		501			
Belgium										50	
Brazil		2				380					
Canada	2,710	8,740	2	2,340	531	4,820	597	2,730	1	22	
Chile				200		340					
China									58	414	
Colombia						40					
Finland										159	
France										5	
Germany	70	375								51	
Guyana										1	
Hong Kong									64	417	
India					1	12			3	175	
Ireland						8					
Italy								2,540			
Japan						1,000				346	
Korea, Republic of	17	237									
Malaysia						1,080			1	3	
Mexico			991	3,010		3,610	1,900	2,960		23	
Netherlands	1	4				2,000	1,490	1,490			
Norway						26					
Saint Lucia									10	10	
Singapore					8	8					
Sweden		19									
Taiwan									23	76	
United Arab Emirates										3	
United Kingdom						459			35	36	
Vietnam									6	17	
Total	2,800	9,380	993	5,550	540	13,900	3,980	10,200	204	1,810	

-- Zero.

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

²Includes manganese-aluminum, some other alloys, and waste and scrap.

TABLE 8 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2009, BY ${\rm CLASS}^1$

				Year to date			
	Gross weight	Value ²	Principal sources and destinations: gross weight (metric tons);	Gross weight	Value ²	Principal sources and destinations: gross weight (metric tons)	
Class	(metric tons)	(thousands)	value ² (thousands)	(metric tons)	(thousands)	value ² (thousands)	
Imports for consumption:		, ,	(. ,	, ,		
Manganese oxides other than dioxide	803	\$539	Mexico 247; \$195	4,200	\$3,420	Brazil 1,860; \$1,400	
Manganites, manganates, and							
other permanganates				17	62	Germany 17; \$62	
Potassium permanganate	64	220	India 36; \$128	526	1,790	Czech Republic 310; \$1,060	
Sodium permanganate							
Sulfates, basket category, including manganese sulfate	2,700	2,620	China 1,560; \$1,360	19,500	21,400	China 8,320; \$7,450	
Exports:							
Manganese dioxide	551	1,130	Canada 283; \$338	4,000	6,470	Canada 2,170; \$2,190	
Manganese oxides other than dioxide	616	867	Canada 174; \$99	3,610	4,410	Canada 1,600; \$789	
Manganites, manganates, and							
other permanganates	12	29	Canada 12; \$29	66	164	Canada 64; \$138	
Potassium permanganate	193	602	Belgium 111; \$349	1,240	3,770	Belgium 714; \$2,110	
Sodium permanganate	143	342	Belgium 74; \$183	525	1,150	Belgium 228; \$577	
Sulfates, basket category, including manganese sulfate	1,560	1,430	Canada 1,380; \$1,040	11,300	8,620	Canada 9,540; \$5,727	

-- Zero.

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

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