

Mineral Industry Surveys

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MANGANESE IN JUNE 2008

Preliminary reported data (gross weight) for June 2008 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 24,800 metric tons (t), according to the U.S. Geological Survey. This was slightly less than that reported consumed in May 2008. Manganese ore consumption during the first half of 2008 was about 149,000 t, which was 64% of net manganese ore imports during the same period (234,000 t). This was 10% less than that during the first half of 2007.

Corresponding industry stocks of ore at the end of the June were 99,000 t, which was about the same amount as that at the end of May 2008. These data include estimates for annual respondents on the basis of 2007 data.

The gap between reported consumption and net imports for consumption, as well as insignificant changes in ending stocks of manganese ore, are indicative of incomplete reporting to the USGS voluntary monthly manganese ore consumption survey.

Data for U.S. imports and exports for May 2008 are published in this issue.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
June 5	3,200.00-3,300.00	240.00-245.00	115.00-120.00	220.00-230.00
June 12	3,275.00-3,375.00	240.00-248.00	115.00-120.00	220.00-230.00
June 19	3,275.00-3,375.00	240.00-248.00	115.00-120.00	220.00-225.00
June 26	3,275.00-3,375.00	240.00-248.00	115.00-119.00	220.00-225.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
June 5	15.50-16.00	17.00-18.00
June 12	16.00-16.50	17.50-18.50
June 19	16.00-16.50	17.50-18.50
June 26	16.00-16.50	17.50-18.50

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, cost and freight, China.

³To determine dollars per metric ton, multiply the manganese content percentage by the price.

TABLE 1
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
2007:						
May	37,200	66,500	104,000	93	6,110	6,200
January-May	146,000	223,000	370,000	400	16,400	16,800
2008:						
January	3,910	77,900	81,800	2,200	586	2,790
February	43,700	47,200	90,900	45	556	601
March	1,250	41,600	42,800	81	5,080	5,160
April	53,000	33,100	86,100	4,660	6,370	11,000
May	25,200	73,600	98,800	5,380	1,270	6,650
Total	127,000	273,000	400,000	12,400	13,900	26,200

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 MAY 2008¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	140	90	\$248,000	10,400	6,890	\$17,800,000
Canada	68	49	80,800	204	152	242,000
Georgia	14,400	10,800	32,000,000	40,500	30,400	72,200,000
Korea, Republic of	--	--	--	2,570	1,670	4,660,000
Macedonia	6,000	3,960	13,400,000	9,860	6,510	20,100,000
Mexico	1,100	724	1,610,000	5,900	3,870	7,450,000
Norway	9,740	6,040	18,000,000	34,100	21,400	56,100,000
Romania	2,340	1,660	5,010,000	2,340	1,660	5,010,000
Russia	473	311	1,090,000	2,070	1,370	3,870,000
Saudi Arabia	--	--	--	1,000	654	1,340,000
South Africa	10,800	7,200	18,200,000	57,700	39,000	95,200,000
Total	45,000	30,900	89,600,000	167,000	113,000	284,000,000

-- 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 changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MAY 2008¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
Canada	--	--	--	5	4	\$6,870
China	5,130	4,190	\$16,900,000	18,400	15,300	52,400,000
Korea, Republic of	500	408	1,630,000	1,000	811	3,020,000
Mexico	927	753	2,310,000	4,540	3,680	9,580,000
Norway	300	243	1,180,000	1,540	1,250	4,730,000
United Kingdom	--	--	--	72	61	43,200
Total	6,860	5,590	22,000,000	25,600	21,100	69,700,000
Medium carbon, 1%-2% C:						
China	4,320	3,460	11,900,000	14,200	11,300	29,600,000
France	--	--	--	40	32	128,000
Georgia	1,880	1,610	4,340,000	3,840	3,090	8,900,000
Korea, Republic of	600	480	1,340,000	2,100	1,710	4,880,000
Mexico	1,030	826	2,270,000	5,780	4,660	9,830,000
Norway	364	297	1,310,000	1,020	842	2,900,000
South Africa	3,860	3,110	10,100,000	16,900	13,700	36,700,000
Ukraine	--	--	--	395	354	1,120,000
Total	12,000	9,780	31,300,000	44,300	35,700	94,100,000
Medium carbon, 2%-4% C, China	633	498	275,000	633	498	275,000
High carbon:						
Brazil	75	57	127,000	966	721	1,640,000
British Virgin Islands	176	132	418,000	176	132	418,000
Canada	18	13	24,000	18	13	24,000
China	1,980	1,500	4,750,000	14,100	10,700	23,500,000
Georgia	488	415	1,170,000	488	415	1,170,000
India	1,620	1,220	4,260,000	6,330	4,560	13,200,000
Korea, Republic of	--	--	--	4,570	3,520	7,740,000
Macedonia	557	437	1,470,000	557	437	1,470,000
Mexico	--	--	--	20	16	61,900
Russia	2,000	1,520	5,360,000	2,000	1,520	5,360,000
South Africa	23,200	18,000	55,200,000	78,000	60,200	144,000,000
Spain	1,410	1,070	3,730,000	1,640	1,250	3,970,000
Ukraine	--	--	--	6,040	4,740	10,200,000
Venezuela	--	--	--	58	41	72,400
Total	31,500	24,300	76,500,000	115,000	88,300	213,000,000
Grand total	51,100	40,200	130,000,000	185,000	146,000	377,000,000

-- 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 changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MAY 2008^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	Year to date		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Brazil	--	--	--	436	201	\$195,000
Gabon	29,200	13,600	\$6,470,000	106,000	49,400	19,100,000
India	--	--	--	4	1	6,050
Total	29,200	13,600	6,470,000	106,000	49,600	19,300,000
47% or more manganese:						
Australia	--	--	--	14,800	7,590	2,050,000
Brazil	3,690	1,850	231,000	47,700	24,900	14,300,000
China	20	10	24,200	355	224	210,000
Gabon	17,000	9,520	5,400,000	59,400	34,100	15,300,000
Ghana	--	--	--	12,500	6,230	5,580,000
South Africa	18	16 ⁴	28,100	24	22 ⁴	38,100
Total	20,700	11,400	5,690,000	135,000	73,000	37,500,000
Grand total	49,900	25,000	12,200,000	241,000	123,000	56,800,000

-- 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 changes incurred in bringing the material into the United States.

⁴Content reported is typical of total manganese dioxide content rather than Mn content.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN MAY 2008^{1,2}

(Metric tons, gross weight)

Source	Quantity	Customs value ³	Year to date	
			Quantity	Customs value ³
Australia	--	--	4,380	\$6,230,000
Belgium	--	--	170	419,000
Brazil	34	\$57,600	118	171,000
China	--	--	487	541,000
Germany	10	31,900	25	56,600
India	--	--	6	12,200
Japan	127	292,000	1,330	2,030,000
Mexico	--	--	505	762,000
Singapore	20	33,400	66	113,000
South Africa	206	485,000	233	536,000
Other (2 countries)	(4)	3,180	(4)	12,400
Total	397	903,000	7,320	10,900,000

-- Zero.

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

²Presentation of monthly data is based on the year-to-date quantities of the 10 leading countries.

³Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other changes incurred in bringing the material into the United States.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MAY 2008¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	554	\$1,540,000	6,240	\$18,600,000
Germany	--	--	500	1,470,000
New Caledonia	--	--	120	348,000
South Africa	76	239,000	358	943,000
Total	630	1,780,000	7,210	21,400,000
Unwrought powder:				
China	526	2,230,000	2,090	8,320,000
Korea, Republic of	--	--	44	143,000
Mexico	--	--	41	217,000
South Africa	512	2,320,000	1,900	8,010,000
Total	1,040	4,550,000	4,080	16,700,000
Unwrought, other:				
China	608	1,760,000	1,440	3,860,000
Germany	74	324,000	741	3,110,000
Russia	--	--	17	94,700
United Kingdom	20	96,900	292	1,300,000
Total	701	2,180,000	2,490	8,360,000
Other manganese, wrought:				
Belgium	--	--	(3)	2,350
China	165	513,000	187	628,000
Mexico	--	--	286	1,810,000
Singapore	--	--	(3)	2,100
United Kingdom	--	--	(3)	5,860
Total	165	513,000	473	2,450,000
Grand total	2,530	9,020,000	14,300	48,900,000

-- 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 changes incurred in bringing the material into the United States.

³Less than ½ unit.

Note: There were no imports for consumption of metallic waste and scrap in May 2008. The year-to-date total was 35 metric tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN MAY 2008¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	May	Year to date	May	Year to date	May	Year to date	May	Year to date
Argentina	--	--	--	--	--	--	--	4
Australia	--	--	--	10	--	--	--	--
Belgium	--	--	--	--	--	--	--	77
Brazil	--	1	--	--	14	82	--	--
Canada	377	557	134	7,020	42	191	9	64
Chile	--	--	--	13	--	--	--	--
China	10,300	23,800	--	--	--	--	--	208
Colombia	--	--	--	--	--	--	--	1
Germany	57	185	--	--	--	--	39	117
Hong Kong	--	--	--	--	--	--	99	254
India	--	--	--	--	--	--	32	82
Israel	--	16	--	--	--	--	--	--
Italy	--	--	--	--	--	203	--	11
Japan	--	2	--	6	--	217	127	337
Korea, Republic of	--	106	--	--	--	--	--	--
Malaysia	--	5	--	--	--	--	--	--
Mexico	--	10	--	3,160	72	1,740	--	7
Netherlands	--	--	796	796	--	429	--	--
Niger	--	--	--	--	--	405	--	--
Peru	--	--	--	--	--	--	--	20
Russia	--	13	--	--	--	--	--	--
Spain	--	--	--	--	--	1,640	--	--
United Kingdom	--	--	--	--	--	--	--	1
Vietnam	--	--	--	--	--	--	21	44
Total	10,800	24,700	930	11,000	128	4,910	327	1,230

-- 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.

Note: Exports of ferromanganese with more than 2% carbon totaled 153 metric tons, of which 133 metric tons went to Canada and 20 metric tons went to Mexico, to give a year-to-date total of 887 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 2008, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	Year to date		
				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	706	\$520	Norway 500; \$200	2,070	\$1,470	Norway 1,000; \$400
Manganites, manganates, and other permanganates	--	--	--	49	47	Poland 49; \$47
Potassium permanganate	32	85	India 18; \$47	412	1,060	Czech Republic 219; \$560
Sodium permanganate	35	83	China 35; \$83	177	406	China 160; \$340
Sulfates, basket category, including manganese sulfate	3,880	4,170	Mexico 1,910; \$2,160	15,600	13,400	Mexico 7,050; \$6,110
Exports:						
Manganese dioxide	747	1,270	Canada 245; \$212	4,480	4,660	Canada 2,540; \$1,550
Manganese oxides other than dioxide	1,700	2,630	Canada 699; \$314	6,510	7,080	Canada 3,860; \$1,630
Manganites, manganates, and other permanganates	40	88	Canada 21; \$54	145	405	Canada 84; \$219
Potassium permanganate	156	408	Belgium 76; \$151	1,200	2,630	Belgium 879; \$1,580
Sodium permanganate	32	111	Netherlands 19; \$45	402	1,180	China 135; \$356
Sulfates, basket category, including manganese sulfate	3,220	2,610	Canada 2,540; \$1,410	11,300	11,500	Canada 8,930; \$7,730

-- Zero.

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

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

Source: U.S. Census Bureau.