

Mineral Industry Surveys

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MANGANESE IN MAY 2008

Preliminary reported data (gross weight) for May 2008 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 25,000 metric tons (t), according to the U.S. Geological Survey. This was up slightly from that reported consumed in April 2008, and about 64% of net manganese ore imports in May (39,200 t).

Corresponding industry stocks of ore at the end of the May were 98,900 t, which was about the same as that at the end of

April 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 April 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)
May 1	3,200.00-3,300.00	237.00-240.00	115.00-120.00	215.00-220.00
May 8	3,200.00-3,300.00	237.00-240.00	115.00-120.00	215.00-220.00
May 15	3,200.00-3,300.00	237.00-240.00	115.00-120.00	215.00-220.00
May 22	3,200.00-3,300.00	240.00-245.00	115.00-120.00	215.00-220.00
May 29	3,200.00-3,300.00	240.00-245.00	115.00-120.00	220.00-230.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
May 1	15.50-16.00	17.00-18.00
May 8	15.50-16.00	17.00-18.00
May 15	15.50-16.00	17.00-18.00
May 22	15.50-16.00	17.00-18.00
May 29	15.50-16.00	17.00-18.00

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:						
April	15,600	44,800	60,400	57	1,030	1,090
January-April	109,000	157,000	266,000	307	10,300	10,600
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
Total	102,000	200,000	302,000	6,990	12,600	19,600

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 APRIL 2008¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	3,980	2,630	\$8,180,000	10,300	6,800	\$17,600,000
Canada	136	102 ³	161,000	136	102	161,000
Georgia	--	--	--	26,100	19,500	40,100,000
Korea, Republic of	770	497	1,700,000	2,570	1,670	4,660,000
Macedonia	3,850	2,550	6,760,000	3,850	2,550	6,760,000
Mexico	1,100	717	1,610,000	4,800	3,150	5,840,000
Norway	5,420	3,340	8,630,000	24,300	15,400	38,100,000
Russia	--	--	--	1,600	1,060	2,780,000
South Arabia	--	--	--	1,000	654	1,340,000
South Africa	12,800	8,490	25,200,000	46,900	31,800	77,000,000
Total	28,100	18,300	52,300,000	122,000	82,600	194,000,000

-- 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.

³All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL 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	1,920	1,620	\$6,840,000	13,300	11,100	35,500,000
Korea, Republic of	--	--	--	500	404	1,390,000
Mexico	907	737	2,350,000	3,610	2,930	7,270,000
Norway	440	357	1,390,000	1,240	1,000	3,550,000
United Kingdom	--	--	--	72	61	43,200
Total	3,270	2,710	10,600,000	18,700	15,500	47,800,000
Medium carbon, 1%-2% C:						
China	1,520	1,190	3,570,000	9,830	7,830	17,700,000
France	--	--	--	40	32	128,000
Georgia	1,960	1,480	4,550,000	1,960	1,480	4,550,000
Korea, Republic of	--	--	--	1,500	1,230	3,540,000
Mexico	806	651	1,560,000	4,760	3,840	7,570,000
Norway	--	--	--	660	545	1,590,000
South Africa	478	390	1,040,000	13,100	10,600	26,600,000
Ukraine	196	173	506,000	395	354	1,120,000
Total	4,970	3,880	11,200,000	32,200	25,900	62,800,000
High carbon:						
Brazil	425	313	688,000	891	664	1,510,000
China	712	544	1,180,000	12,100	9,240	18,700,000
India	513	390	1,530,000	4,710	3,340	8,960,000
Korea, Republic of	--	--	--	4,570	3,520	7,740,000
Mexico	20	16	61,900	20	16	61,900
South Africa	6,940	5,280	13,400,000	54,800	42,200	88,900,000
Spain	--	--	--	231	179	232,000
Ukraine	--	--	--	6,040	4,740	10,200,000
Venezuela	--	--	--	58	42	72,400
Total	8,610	6,540	16,800,000	83,500	64,000	136,000,000
Grand total	16,800	13,100	38,600,000	134,000	105,000	247,000,000

-- 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 APRIL 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	436	201	\$195,000
Gabon	20,900	9,720	4,600,000	76,500	35,800	12,700,000
India	--	--	--	4	1	6,050
Total	21,300	9,920	4,800,000	76,900	36,000	12,900,000
47% or more manganese:						
Australia	6,600	3,340	900,000	14,800	7,590	2,050,000
Brazil	35,000	18,600	13,500,000	44,000	23,100	14,100,000
China	--	--	--	335	214	186,000
Gabon	26,000	14,600	5,080,000	42,400	24,500	9,930,000
Ghana	12,500	6,230	5,580,000	12,500	6,230	5,580,000
South Africa	--	--	--	6	6 ⁴	9,980
Total	80,000	42,700	25,100,000	114,000	61,700	31,800,000
Grand total	101,000	52,700	29,900,000	191,000	97,700	44,700,000

-- 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 APRIL 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	42	\$101,000	170	419,000
Brazil	52	58,400	84	113,000
China	--	--	487	541,000
Germany	--	--	15	24,700
India	--	--	6	12,200
Japan	369	527,000	1,200	1,740,000
Mexico	--	--	505	762,000
Singapore	18	30,200	47	79,600
South Africa	4	5,940	27	50,900
Other (2 countries)	--	--	4	9,260
Total	484	722,000	6,930	9,980,000

-- Zero.

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

²Presentatation 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.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	560	\$2,210,000	5,680	\$17,100,000
Germany	--	--	500	1,470,000
New Caledonia	--	--	120	348,000
South Africa	57	244,000	282	704,000
Total	617	2,450,000	6,580	19,600,000
Unwrought powder:				
China	20	74,000	1,560	6,090,000
Korea, Republic of	--	--	44	143,000
Mexico	21	143,000	41	217,000
South Africa	372	1,680,000	1,390	5,690,000
Total	413	1,900,000	3,040	12,100,000
Unwrought, other:				
China	150	392,000	833	2,100,000
Germany	220	930,000	667	2,790,000
Russia	--	--	17	94,700
United Kingdom	102	469,000	272	1,200,000
Total	472	1,790,000	1,790	6,180,000
Other manganese, wrought:				
Belgium	(3)	2,350	(3)	2,350
China	--	--	22	114,000
Mexico	143	1,000,000	286	1,810,000
Singapore	--	--	(3)	2,100
United Kingdom	--	--	(3)	5,860
Total	143	1,000,000	308	1,940,000
Grand total	1,650	7,150,000	11,700	39,900,000

-- 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 April; the year-to-date total remained at 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 APRIL 2008¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	April	Year to date	April	Year to date	April	Year to date	April	Year to date
Argentina	--	--	--	--	--	--	--	4
Australia	--	--	--	10	--	--	--	--
Belgium	--	--	--	--	--	--	--	77
Brazil	1	1	--	--	55	69	--	--
Canada	22	180	1,550	6,880	--	149	21	55
Chile	--	--	--	13	--	--	--	--
China	9,210	13,500	--	--	--	--	62	208
Colombia	--	--	--	--	--	--	--	1
Germany	58	127	--	--	--	--	39	78
Hong Kong	--	--	--	--	--	--	--	155
India	--	--	--	--	--	--	19	49
Israel	--	16	--	--	--	--	--	--
Italy	--	--	--	--	203	203	--	11
Japan	--	2	--	6	--	217	--	210
Korea, Republic of	--	106	--	--	--	--	--	--
Malaysia	5	5	--	--	--	--	--	--
Mexico	--	10	3,160	3,160	1,490	1,670	--	7
Netherlands	--	--	--	--	--	429	--	--
Niger	--	--	--	--	405	405	--	--
Peru	--	--	--	--	--	--	8	20
Russia	13	13	--	--	--	--	--	--
Spain	--	--	--	--	1,610	1,640	--	--
United Kingdom	--	--	--	--	--	--	--	1
Vietnam	--	--	--	--	--	--	8	23
Total	9,310	14,000	4,700	10,100	3,760	4,780	157	899

-- 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 15 metric tons, of which 10 went to Canada and 5 to the Republic of Korea, to give a year-to-date total of 734 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN APRIL 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	116	\$103	Mexico 85; \$44	1,360	\$954	Mexico 629; \$301
Manganites, manganates, and other permanganates	--	--	--	49	47	Poland 49; \$47
Potassium permanganate	79	210	Czech Republic 44; \$116	380	975	Czech Republic 205; \$522
Sodium permanganate	53	112	China 53; \$112	141	323	China 124; \$257
Sulfates, basket category, including manganese sulfate	2,930	2,740	Mexico 2,060; \$1,800	11,800	9,200	Mexico 5,140; \$3,950
Exports:						
Manganese dioxide	777	953	Canada 440; \$290	3,740	3,390	Canada 2,290; \$1,340
Manganese oxides other than dioxide	1,360	1,290	Canada 789; \$356	4,810	4,450	Canada 3,160; \$1,320
Manganites, manganates, and other permanganates	31	81	Canada 31; \$81	105	317	Canada 63; \$164
Potassium permanganate	377	677	Belgium 306; \$459	1,040	2,230	Belgium 803; \$1,430
Sodium permanganate	136	383	Belgium 73; \$137	370	1,060	China 135; \$356
Sulfates, basket category, including manganese sulfate	2,060	2,210	Canada 1,700; \$1,630	8,050	8,900	Canada 6,390; \$6,320

-- 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.