

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 MAY 2011

Preliminary reported data (gross weight) for May 2011 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 42,400 metric tons (t), according to the U.S. Geological Survey. This was a 4% increase from the revised amount consumed in April 2011 (40,600 t). Manganese ore consumption in the first 5 months of 2011 was 207,000 t, which included revisions to prior months' data. This was an 11% increase from the revised amount consumed during the first 5 months of 2010 (188,000 t). Industry stocks of ore at the end of May 2011 were 189,000 t, which was 13% more than the revised amount at the end of April 2011 (167,000 t).

Data for U.S. manganese imports and exports for April 2011 are published in this issue. On a contained-weight basis, U.S. manganese ore plus dioxide and manganese ferroalloys plus metal imports for April 2011 were 97% lower and 60% lower,

respectively, than those in March 2011. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 4 months of 2011 were 17% lower and 16% higher, respectively, than those during the same period in 2010 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for April 2011 were 16% lower and 34% lower, respectively, than those in March 2011. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 4 months of 2011 were 81% lower than and about the same as, respectively, those during the same period in 2010 (table 1).

Prices

Prices for manganese materials in May 2011, manganese content, are listed below.

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,250.00–1,330.00	1,288.75
Medium-carbon ferromanganese ³	108.00–12.00	110.00
Silicomanganese ³	59.00–63.00	61.00

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	178.00–185.00	178.00–180.61–183.22
36%-39% Manganese ore ⁵	4.35–4.80	4.35–4.58–4.80
44% Manganese ore ⁵	4.70–5.30	4.70–5.00–5.30
48% Manganese ore ⁵	5.60–5.90	5.60–5.75–5.90

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

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2010:						
April	18,000	33,600	51,600	113	1,290	1,410
January-April	109,000	148,000	258,000	1,140	5,230	6,370
2011:						
January	28,900	44,500	73,400	36	1,080	1,120
February	9,160	30,400	39,600	46	1,240	1,290
March	50,900	68,900	120,000	73	1,740	1,810
April	1,720	27,800	29,500	61	1,150	1,210
Total	90,700	172,000	262,000	216	5,210	5,420

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 2011¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	5,030	3,370	\$4,820,000	10,300	6,850	\$9,800,000
Canada	--	--	--	19	7	8,550
Georgia	7,980	5,310	9,520,000	50,800	34,300	63,700,000
Greece	--	--	--	20	15	45,100
India	104	58	159,000	286	159	454,000
Korea, Republic of	--	--	--	300	174	600,000
Mexico	1,060	695	1,160,000	4,120	2,700	4,600,000
Norway	3,100	1,960	5,550,000	10,700	6,670	19,100,000
South Africa	2,330	1,520	2,370,000	43,700	28,800	48,800,000
Spain	--	--	--	1,610	990	3,240,000
Total	19,600	12,900	23,600,000	122,000	80,600	150,000,000

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

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL 2011¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	886	790	\$2,500,000	5,250	4,630	\$14,300,000
Mexico	1,300	1,050	2,450,000	3,820	3,100	7,480,000
Norway	--	--	--	1,660	1,340	3,280,000
Vietnam	326	304	977,000	934	876	2,860,000
Total	2,510	2,150	5,930,000	11,700	9,950	27,900,000
Medium carbon, 1%-2% C:						
China	34	28	85,000	74	60	185,000
Korea, Republic of	--	--	--	8,500	6,840	16,400,000
Mexico	931	746	1,830,000	3,290	2,640	6,460,000
Norway	600	489	1,040,000	5,020	4,050	8,920,000
South Africa	2,520	2,080	4,380,000	6,370	5,130	11,000,000
Ukraine	392	342	783,000	392	342	783,000
Total	4,480	3,690	8,130,000	23,700	19,100	43,700,000
Medium carbon, 2%-4% C, South Africa	36	35	96,900	54	52	145,000
High carbon:						
Australia	500	387	488,000	500	387	488,000
Bahrain	--	--	--	180	142	205,000
Norway	--	--	--	3,920	3,080	4,270,000
South Africa	6,600	5,290	7,230,000	60,300	46,500	67,900,000
Ukraine	--	--	--	261	210	522,000
Total	7,100	5,680	7,720,000	65,200	50,300	73,400,000
Grand total	14,100	11,500	21,900,000	101,000	79,400	145,000,000

-- 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 charges 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 2011^{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:						
Australia	--	--	--	16,200	6,750	\$3,110,000
Brazil	--	--	--	3,210	1,480	1,140,000
Gabon	--	--	--	9,010	4,010	1,650,000
Mexico	--	--	--	1,430	514	335,000
Turkey	548	192	\$182,000	548	192	182,000
Total	548	192	182,000	30,400	12,900	6,420,000
47% or more manganese:						
Australia	--	--	--	58,700	28,600	15,300,000
Gabon	--	--	--	84,400	43,500	26,200,000
Morocco	158	62 ⁴	141,000	158	62	141,000
Total	158	62	141,000	143,000	72,200	41,600,000
Grand total	706	254	323,000	174,000	85,100	48,000,000

-- 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.

⁴All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN APRIL 2011¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	123	\$161,000	237	\$273,000
Brazil	--	--	35	39,900
Colombia	--	--	600	1,150,000
Germany	--	--	29	48,900
India	--	--	(³)	6,030
Japan	792	1,820,000	3,480	7,900,000
Mexico	60	55,100	60	55,100
Netherlands	--	--	101	61,500
Singapore	--	--	61	77,500
South Africa	1,470	4,560,000	4,630	13,900,000
Total	2,450	6,590,000	9,230	23,600,000

-- 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN APRIL 2011¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,260	\$3,640,000	4,180	\$12,200,000
Japan	--	--	20	27,400
Mexico	20	95,500	62	263,000
South Africa	150	600,000	359	1,360,000
Total	1,430	4,330,000	4,620	13,900,000
Unwrought powder:				
China	--	--	61	177,000
Mexico	4	15,600	25	110,000
South Africa	414	1,560,000	1,450	5,510,000
United Kingdom	--	--	1	2,210
Total	418	1,580,000	1,540	5,800,000
Unwrought, other:				
China	1,340	4,320,000	4,780	15,400,000
Germany	--	--	154	578,000
Netherlands	10	71,200	10	71,200
Poland	--	--	(3)	3,010
South Africa	95	330,000	362	1,270,000
Total	1,450	4,720,000	5,310	17,400,000
Other manganese, wrought:				
China	(3)	2,600	79	255,000
Japan	--	--	(3)	3,460
Mexico	--	--	26	106,000
Total	(3)	2,600	105	364,000
Grand total	3,290	10,600,000	11,600	37,400,000

-- 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 ½ unit.

Note: There were no imports for consumption of metallic waste and scrap in April; the year-to-date total remained at 174 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 2011¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
			2% or less C		More than 2% C					
	April	Year to date	April	Year to date	April	Year to date	April	Year to date	April	Year to date
Australia	--	--	--	--	13	53	--	--	3	3
Bahamas, The	--	--	--	--	--	--	--	--	1	1
Belgium	--	18	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	18	55	--	--	--	--
Canada	69	207	83	95	151	673	625	2,770	133	366
China	20	40	--	--	--	--	--	--	95	478
Colombia	--	--	--	--	--	--	--	352	--	--
Dominican Republic	--	--	--	--	--	(3)	--	--	--	--
France	--	--	--	--	--	--	--	--	--	1
Germany	--	--	--	--	--	--	--	--	--	22
Guyana	--	--	--	--	--	--	--	--	--	3
Hong Kong	--	--	--	--	--	--	--	--	--	3
India	--	--	--	--	--	--	--	--	--	60
Ireland	--	--	--	--	--	3	--	--	--	--
Italy	--	--	--	--	--	--	--	--	2	7
Japan	--	--	--	--	--	--	--	--	79	147
Korea, Republic of	34	170	--	--	--	--	--	--	--	--
Malaysia	--	--	--	--	1	1	--	--	--	--
Mexico	--	--	20	1,040	--	--	91	298	15	23
Norway	--	--	--	--	--	1	--	--	--	--
Peru	--	--	--	--	--	100	--	--	--	--
Romania	--	--	--	--	--	4	--	--	--	--
Saint Lucia	--	--	--	--	--	--	--	--	--	15
Singapore	--	--	--	--	14	28	--	--	--	--
Taiwan	--	--	--	--	--	--	--	--	89	164
United Kingdom	--	--	--	--	--	--	--	--	--	10
Venezuela	--	--	--	--	--	2	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	19	19
Total	123	435	103	1,140	197	919	715	3,420	436	1,320

-- Zero.

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

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

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN APRIL 2011, 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	99	\$133	Mexico 60; \$55	1,200	\$1,330	Mexico 525; \$494
Manganites, manganates, and other permanganates	17	65	Germany 17; \$65	17	65	Germany 17; \$65
Potassium permanganate	144	438	India 144; \$438	480	1,450	India 450; \$1,340
Sodium permanganate	38	109	China 36; \$96	196	497	China 194; \$484
Sulfates, basket category, including manganese sulfate	3,890	3,530	China 1,830; \$1,720	14,800	13,700	Mexico 6,530; \$5,460
Exports:						
Manganese dioxide	812	1,370	Canada 431; \$464	2,630	4,140	Canada 1,470; \$1,480
Manganese oxides other than dioxide	580	1,450	Poland 121; \$158	2,140	4,840	Canada 547; \$661
Manganites, manganates, and other permanganates	42	246	Mexico 21; \$15	69	353	Canada 43; \$117
Potassium permanganate	281	763	Belgium 216; \$545	1,150	3,020	Belgium 900; \$2,240
Sodium permanganate	94	180	Belgium 93; \$175	325	781	Belgium 93; \$175
Sulfates, basket category, including manganese sulfate	1,410	1,580	Canada 1,020; \$589	6,200	5,230	Canada 4,730; \$2,190

-- 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.