

Mineral Industry Surveys

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MANGANESE IN APRIL 2011

Preliminary reported data (gross weight) for April 2011 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 38,300 metric tons (t), according to the U.S. Geological Survey. This was a 3% decrease from the amount consumed in March 2011. Manganese ore consumption in the first 4 months of 2011 was 157,000 t, which was a 5% increase from the revised amount consumed during the first 4 months of 2010 (150,000 t). Industry stocks of ore at the end of April 2011 were 207,000 t, which was slightly less than that at the end of March 2011.

Data for U.S. manganese imports and exports for March 2011 are published in this issue. On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal imports for March 2011 were 456% higher and 127% higher, respectively, than those in February 2011. U.S. imports of

manganese ore plus dioxide and manganese ferroalloys plus metal during the first 3 months of 2011 were slightly less and 25% 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 March 2011 were 59% higher and 40% higher, respectively, than those in February 2011. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 3 months of 2011 were 85% lower and 3% higher, respectively, than those during the same period in 2010 (table 1).

Prices

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

Ferroalloys prices¹

	Price Range	Average Price
High-carbon ferromanganese ²	1,250.00-1,330.00	1,298.13
Medium-carbon ferromanganese ³	108.00-112.00	110.75
Silicomanganese ³	59.00-63.00	61.00

Manganese metal and ore prices⁴

	Price Range	Average Low, Mid, and High Prices
Manganese metal ³	178.00-185.00	178.00-181.50-185.00
36%-39% Manganese ore ⁵	4.35-5.40	4.56-4.81-5.07
44% Manganese ore ⁵	4.70-6.00	5.06-5.34-5.61
48% Manganese ore ⁵	5.60-6.70	5.93-6.09-6.26

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%.

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

(Metric tons, manganese content)²

	Impo	orts for consump	tion			
	Ore and	Ore and Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2010:						
March	14,600	42,300	56,900	820	1,540	2,360
January-March	91,200	115,000	206,000	1,030	3,940	4,970
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
Total	89,000	144,000	233,000	156	4,060	4,220

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

Source: U.S. Census Bureau.

 ${\it TABLE~2}$ U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN MARCH 2011^1

(Metric tons)

				Year to date		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Australia	3,160	2,070	\$3,000,000	5,260	3,480	\$4,980,000
Canada				19	7	8,550
Georgia	11,200	7,490	13,800,000	42,800	29,000	54,200,000
Greece	20	15	45,100	20	15	45,100
India	26	14	40,700	182	101	295,000
Korea, Republic of	300	174	600,000	300	174	600,000
Mexico	1,060	693	1,160,000	3,060	2,010	3,440,000
Norway	2,840	1,770	5,060,000	7,640	4,710	13,600,000
South Africa	26,100	17,100	29,800,000	41,400	27,200	46,400,000
Spain				1,610	990	3,240,000
Total	44,700	29,300	53,500,000	102,000	67,700	127,000,000

⁻⁻ Zero.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

¹Data 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.

 ${\bf TABLE~3}$ U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MARCH ${\bf 2011}^1$

(Metric tons)

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ²	weight	content	value ²	
Low carbon:							
China	1,710	1,420	\$4,420,000	4,360	3,840	\$11,800,000	
Mexico	800	646	1,510,000	2,520	2,050	5,030,000	
Norway	1,340	1,080	2,580,000	1,660	1,340	3,280,000	
Vietnam	174	164	565,000	608	571	1,880,000	
Total	4,020	3,310	9,080,000	9,150	7,810	22,000,000	
Medium carbon, 1%-2% C:							
China	40	32	99,900	40	32	99,900	
Korea, Republic of	5,000	4,000	9,500,000	8,500	6,840	16,400,000	
Mexico	801	644	1,520,000	2,360	1,890	4,630,000	
Norway	3,500	2,840	6,190,000	4,420	3,560	7,880,000	
South Africa	1,350	1,060	2,220,000	3,850	3,050	6,580,000	
Total	10,700	8,570	19,500,000	19,200	15,400	35,600,000	
Medium carbon, 2%-4% C, South Africa				18	17	48,100	
High carbon:	_						
Bahrain				180	142	205,000	
Norway	1,000	787	1,090,000	3,920	3,080	4,270,000	
South Africa	32,000	24,500	36,600,000	53,700	41,200	60,700,000	
Ukraine				261	210	522,000	
Total	33,000	25,300	37,700,000	58,100	44,600	65,700,000	
Grand total	47,700	37,200	66,300,000	86,400	67,800	123,000,000	

⁻⁻ 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.

 $\label{table 4} \text{U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MARCH 2011}^{1,2}$

(Metric tons)

				Year to date		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	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	1,430	514	335,000
Total	1,430	514	335,000	29,900	12,800	6,240,000
47% or more manganese:						
Australia	20,300	9,980	3,740,000	58,700	28,600	15,300,000
Gabon	75,900	39,100	23,300,000	84,400	43,500	26,200,000
Total	96,200	49,100	27,000,000	143,000	72,100	41,500,000
Grand total	97,700	49,600	27,300,000	173,000	84,900	47,700,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

 ${\bf TABLE~5}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN MARCH ${\bf 2011}^1$

(Metric tons, gross weight)

			Year to date			
		Customs		Customs		
Source	Quantity	value ²	Quantity	value ²		
Belgium	12	\$47,400	114	\$112,000		
Brazil			35	39,900		
Colombia	150	289,000	600	1,150,000		
Germany	10	16,800	29	48,900		
India			(3)	6,030		
Japan	1,150	2,620,000	2,690	6,080,000		
Netherlands			101	61,500		
Singapore	11	19,400	61	77,500		
South Africa	953	2,790,000	3,160	9,390,000		
Total	2,290	5,780,000	6,780	17,000,000		

⁻⁻ 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.

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.

 ${\it TABLE~6}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MARCH 2011^1

(Metric tons)

			Year	r to date
Source	Gross weight	Customs value ²	Gross weight	Customs value ²
Unwrought flake:				
China	746	\$2,670,000	2,920	\$8,590,000
Japan			20	27,400
Mexico	13	54,600	42	167,000
South Africa	114	420,000	209	759,000
Total	872	3,150,000	3,200	9,550,000
Unwrought powder:				
China	21	42,600	61	177,000
Mexico			22	94,400
South Africa	480	1,880,000	1,040	3,950,000
United Kingdom			1	2,210
Total	501	1,920,000	1,120	4,220,000
Unwrought, other:				
China	845	2,670,000	3,440	11,100,000
Germany	4	13,700	154	578,000
Poland			(3)	3,010
South Africa	95	351,000	267	944,000
Total	944	3,030,000	3,860	12,600,000
Other manganese, wrought:				
China	50	156,000	79	252,000
Japan	(3)	3,460	(3)	3,460
Mexico	==		26	106,000
Total	50	159,000	105	362,000
Grand total	2,370	8,260,000	8,280	26,800,000

⁻⁻ Zero.

Note: Imports for consumption of metallic waste and scrap totaled 72 metric tons, all of which was from Canada, to give a year-to-date total of 174 metric tons.

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.

 $TABLE\ 7$ U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN MARCH 2011^1

(Metric tons, gross weight)

				Ferromanganese,						
	Mang	ganese ore	2%	or less C	More	than 2% C	Silicomanganese		Manganese metal ²	
Country	March	Year to date	March	Year to date	March	Year to date	March	Year to date	March	Year to date
Austrilia					40	40				
Bahamas, The										1
Belgium		18								
Brazil					26	37				
Canada	79	138	4	12	264	522	1,010	2,150	57	233
China		20							209	382
Colombia								352		
Dominican Republic						(3)				
France									(3)	1
Germany									19	22
Guyana									3	3
Hong Kong										3
India									60	60
Ireland					3	3				
Italy									5	5
Japan									20	68
Korea, Republic of	68	136								
Mexico			208	1,020			206	207	5	8
Norway					1	1				
Peru					100	100				
Romania						4				
Saint Lucia										15
Singapore						13				
Taiwan									43	75
United Kingdom										10
Venezuela					2	2				
Total	147	312	212	1,040	434	721	1,220	2,710	423	887

⁻⁻ Zero.

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

 $^{^2\}mbox{Includes}$ manganese-aluminum, other alloys, and waste and scrap.

³Less than ½ unit.

 ${\it TABLE~8}$ U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 2011, BY CLASS 1

					Year to date	
			Principal sources and destinations:			Principal sources and destinations:
	Gross weight	Value ²	gross weight (metric tons);	Gross weight	Value ²	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	277	\$378	Mexico 144; \$142	1,100	\$1,200	Mexico 465; \$439
Manganites, manganates, and						
other permanganates						
Potassium permanganate	124	371	India 108; \$325	336	1,010	India 306; \$906
Sodium permanganate	53	137	China 53; \$137	158	388	China 158; \$388
Sulfates, basket category,						
including manganese sulfate	3,790	3,330	Mexico 2,260; \$1,820	10,900	10,200	Mexico 5,020; \$4,190
Exports:						
Manganese dioxide	646	1,180	Canada 341; \$318	1,820	2,770	Canada 1040; \$1,020
Manganese oxides other than dioxide	555	1,390	Netherlands 137; \$329	1,560	3,390	Canada 481; \$588
Manganites, manganates, and						
other permanganates	16	43	Canada 16; \$43	27	107	Canada 24; \$65
Potassium permanganate	448	908	Belgium 371; \$683	868	2,260	Belgium 683; \$1,690
Sodium permanganate	71	187	Taiwan 31; \$79	231	601	Singapore 80; \$217
Sulfates, basket category,						
including manganese sulfate	1,400	1,370	Canada 911; \$495	4,800	3,660	Canada 3,710; \$1,600

⁻⁻ Zero.

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

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