

Mineral Industry Surveys

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MANGANESE IN MARCH 2010

Preliminary reported data (gross weight) for March 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 37,100 metric tons (t), according to the U.S. Geological Survey. This was a slight increase from the revised amount consumed in February 2010. Manganese ore consumption in the first 3 months of 2010 was 111,000 t, which was a 4% increase from the revised amount consumed during the first 3 months of 2009 (107,000 t). It was a 7% increase from the revised amount consumed during the last quarter of 2009 (104,000 t). Industry stocks of ore at the end of March 2010 were 184,000 t, which was slightly more than that at the end of February 2010.

Data for U.S. manganese imports and exports for February 2010 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal were 97 times greater and 9% higher,

respectively, than those in January 2010. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 2 months of 2010 were 193% higher and 45% higher, respectively, than those during the same period in 2009 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for February 2010 were 212% higher and 41% higher, respectively, than those in January 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 2 months of 2010 were 28% less and 64% less, respectively, than those during the same period in 2009 (table 1).

Prices

Prices for manganese materials in March 2010, manganese content, are listed below.

Ferroalloys prices¹

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	Price Range	Average Price
High-carbon ferromanganese ²	1,475.00-1,600.00	1,538.50
Medium-carbon ferromanganese ³	130.00-175.00	151.50
Silicomanganese ³	64.00-73.00	69.00
Sincomanganese	04.00-73.00	09.00

Manganese metal and ore prices⁴

	<u>Price Range</u>	Average Low, Mid, and High Prices
Manganese metal ³	156.00-165.00	159.56-162.11-164.67
36%-39% Manganese ore ⁵	6.20-7.00	6.26-6.57-6.89
44% Manganese ore ⁵	6.90-7.50	6.94-7.22-7.50
48% Manganese ore ⁵	7.10-8.10	7.06-7.49-7.92

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 Ferroalloy					
	dioxide	and metal	Total	Ore	and metal	Total	
2009:							
February	559	13,400	14,000	188	4,270	4,460	
January-February	26,100	50,000	76,100	290	6,730	7,020	
2010:							
January	782	34,600	35,400	51	992	1,040	
February	75,800	37,800	114,000	159	1,400	1,560	
Total	76,600	72,500	149,000	210	2,390	2,600	

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

Source: U.S. Census Bureau.

 $\label{eq:table 2} \text{U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN FEBRUARY 2010}^1$

(Metric tons)

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ²	weight	content	value ²	
Australia	879	585	\$869,000	3,640	2,510	\$3,840,000	
Bahrain	390	258	507,000	1,140	760	1,480,000	
Georgia	1,210	848	1,340,000	2,230	1,540	2,310,000	
India	104	58	171,000	104	58	171,000	
Mexico				2,000	1,320	2,130,000	
Norway	1,510	903	1,900,000	6,590	3,810	9,990,000	
Russia	403	265	335,000	403	265	335,000	
Saudi Arabia	836	549	920,000	2,050	1,350	2,260,000	
South Africa	13,000	8,650	14,500,000	23,200	15,500	25,500,000	
Spain	1,590	954	2,810,000	1,590	954	2,810,000	
Total	19,900	13,100	23,300,000	42,900	28,100	50,800,000	

⁻⁻ 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.

 ${\it TABLE~3}$ U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN FEBRUARY 2010^1

(Metric tons)

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ²	weight	content	value ²	
Low carbon:							
China	1,780	1,530	\$4,220,000	4,660	3,880	\$10,200,000	
Mexico				2,850	2,290	5,270,000	
Netherlands				220	178	429,000	
Norway	182	147	310,000	676	562	1,180,000	
South Africa	3	2	7,080	3	2	7,080	
Total	1,960	1,680	4,540,000	8,410	6,900	17,100,000	
Medium carbon, 1%-2% C:							
Korea, Republic of				1,700	1,360	2,860,000	
Mexico	19	15	44,900	1,740	1,400	2,850,000	
Norway	2,100	1,680	3,480,000	5,600	4,500	9,280,000	
Russia	18	14	46,300	18	14	46,300	
South Africa	5,080	4,040	8,280,000	5,800	4,600	9,500,000	
Total	7,220	5,750	11,900,000	14,900	11,900	24,500,000	
Medium carbon, 2%-4% C, South Africa				18	16	44,300	
High carbon:							
Brazil	300	229	360,000	300	229	360,000	
Mexico	1	1	2,450	1	1	2,450	
Norway	684	550	721,000	704	565	746,000	
South Africa	13,100	10,100	14,900,000	20,200	15,600	22,300,000	
Ukraine	4,890	3,810	5,230,000	4,890	3,810	5,230,000	
Total	19,000	14,700	21,200,000	26,100	20,200	28,700,000	
Grand total	28,200	22,200	37,600,000	49,400	39,000	70,400,000	

⁻⁻ 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 FEBRUARY 2010 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, South Africa	44,300	17,700	\$7,250,000	44,300	17,700	\$7,250,000		
47% or more manganese:								
Australia	52,900	48,600	14,700,000	52,900	48,600	14,700,000		
Brazil	3,960	2,020	1,230,000	3,960	2,020	1,230,000		
Gabon	12,000	6,290	1,500,000	12,000	6,290	1,500,000		
Morocco				7	7	11,500		
Total	68,800	57,000	17,500,000	68,800	57,000	17,500,000		
Grand total	113,000	74,700	24,700,000	113,000	74,700	24,700,000		

⁻⁻ Zero.

Source: U.S. Census Bureau.

 ${\it TABLE~5}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN FEBRUARY 2010 1

(Metric tons, gross weight)

			Year to	date
		Customs		Customs
Source	Quantity	value ²	Quantity	value ²
Belgium	4	\$17,400	4	\$17,400
Germany			22	37,000
Japan	322	689,000	824	1,770,000
Netherlands	123	67,400	123	67,400
Singapore			11	18,200
South Africa	1,440	3,970,000	2,200	5,910,000
Spain	_ 5	10,400	5	10,400
Total	1,900	4,750,000	3,190	7,830,000

⁻⁻ 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.

 ${\rm TABLE}~6$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN FEBRUARY ${\rm 2010}^{1}$

(Metric tons)

			Year	to date
Source	Gross weight	Customs value ²	Gross weight	Customs value ²
Unwrought flake:				
China	1,210	\$3,050,000	1,950	\$4,910,000
Hong Kong			444	1,150,000
South Africa	76	168,000	247	660,000
Vietnam	20	48,900	40	96,800
Total	1,310	3,260,000	2,680	6,820,000
Unwrought powder:				
China			60	141,000
South Africa	159	520,000	296	970,000
Total	159	520,000	356	1,110,000
Unwrought, other:				
China	978	2,070,000	1,900	4,060,000
Germany	73	201,000	122	334,000
South Africa	38	124,000	152	494,000
United Kingdom			14	52,900
Total	1,090	2,400,000	2,180	4,940,000
Other manganese, wrought:				
Canada	(3)	7,110	(3)	7,110
China			20	55,500
France			8	31600
Mexico	2	6,800	13	47,600
United Kingdom	8	30,700	8	30,700
Total	10	44,600	49	172,000
Grand total	2,560	6,230,000	5,270	13,000,000
7aro				

⁻⁻ Zero.

Note: Imports for consumption of metallic waste and scrap totaled 78 metric tons (t), of which 38 t was from Canada, 20 t from Mexico, and 20 t from the Netherlands, to give a year-to-date total of 134 t.

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 FEBRUARY 2010^1

(Metric tons, gross weight)

				Ferroma	inganese,						
	Mang	Manganese ore		2% or less C		More than 2% C		Silicomanganese		Manganese metal ²	
Country	February	Year to date	February	Year to date	February	Year to date	February	Year to date	February	Year to date	
Australia										19	
Belgium							100	200		98	
Brazil						25					
Canada	280	280	43	100	808	1,140	383	706		2	
China									5	48	
Germany	21	21								14	
Hong Kong									130	199	
India									29	50	
Ireland					17	17					
Japan									18	53	
Korea, Republic of	17	17									
Luxembourg									3	3	
Malaysia		95								1	
Mexico							20	20	10	17	
Singapore						5					
Spain		8						20			
Turkey							200	280			
Vietnam									57	65	
Total	318	420	43	100	825	1,190	702	1,230	252	569	

⁻⁻ 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.

 ${\it TABLE~8}$ U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN FEBRUARY 2010, BY CLASS 1

					Year	to date
		2	Principal sources and destinations:		2 2	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	725	\$462	South Africa 304; \$144	1,820	\$1,310	South Africa 1,030; \$543
Manganites, manganates, and						
other permanganates						
Potassium permanganate	50	164	India 36; \$122	216	699	India 144; \$477
Sodium permanganate	85	182	China 84; \$176	105	228	China 104; \$222
Sulfates, basket category,						
including manganese sulfate	2,950	2,460	Mexico 1,530; \$1,220	5,760	4,920	Mexico 2,680; \$2,210
Exports:						
Manganese dioxide	675	982	Canada 512; \$489	1,160	1,730	Canada 820; \$768
Manganese oxides other than dioxide	428	603	Canada 173; \$158	1,050	1,740	Canada 379; \$376
Manganites, manganates, and						
other permanganates	4	10	Canada 4; \$10	6	14	Canada 6; \$14
Potassium permanganate	112	380	Mexico 38; \$159	414	1,370	Belgium 183; \$557
Sodium permanganate	166	434	Singapore 116; \$311	253	626	Singapore 135; \$361
Sulfates, basket category,						
including manganese sulfate	1,590	1,180	Canada 1,230; \$599	3,520	2,510	Canada 2,990; \$1,400

⁻⁻ Zero.

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

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