

Mineral Industry Surveys

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MANGANESE IN JANUARY 2010

Preliminary reported data (gross weight) for January 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 37,300 metric tons (t), according to the U.S. Geological Survey. This was a 9% increase from the revised amount consumed in December 2009 (37,700 t) and a 4% increase from that of January 2009 (35,900 t). Industry stocks of ore at the end of January 2010 were 184,000 t, which was 50% more than the revised amount at the end of December 2009 (122,000 t).

Data for U.S. manganese imports and exports for December 2009 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal for December 2009 were 93% lower and

11% lower, respectively, than those in November 2009. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during 2009 were 46% lower and 64% lower, respectively, than those during 2008 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for December 2009 were 47% lower and 4% lower, respectively, than those in November 2009. U.S. exports of manganese ore and manganese ferroalloys plus metal during 2009 were 68% less and 25% greater, respectively, than those during 2008 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,290.00-1,350.00	1,318.75
Medium-carbon ferromanganese ³	105.00-115.00	111.13
Silicomanganese ³	58.00-62.00	60.00

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	142.00-165.00	148.75-151.56-154.38
36%-39% Manganese ore ⁵	5.80-6.70	5.85-5.97-6.09
44% Manganese ore ⁵	6.25-7.50	6.33-6.49-6.65
48% Manganese ore ⁵	6.85-7.60	6.87-7.04-7.21

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
2008:						
December	46,900	27,200	74,100	76	1,850	1,930
January-December	302,000	628,000	930,000	24,100	27,800	51,900
2009:						
January	25,600	36,600	62,100	102	2,460	2,560
February	559	13,400	14,000	188	4,270	4,460
March	26,300	8,670	35,000	80	1,730	1,810
April	9,960	7,450	17,400	80	3,190	3,270
May	946	12,400	13,400	2,310	2,900	5,210
June	61,300	8,970	70,300	526	5,360	5,890
July	1,220	16,000	17,200	1,400	4,050	5,440
August	11,300	11,500	22,900	1,110	2,930	4,040
September	592	21,900	22,500	1,390	1,880	3,270
October	955	9,830	10,800	76	1,830	1,910
November	24,000	42,300	66,300	242	2,060	2,310
December	1,730	37,500	39,300	129	1,990	2,120
Total	165,000	227,000	391,000	7,640	34,600	42,300

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 DECEMBER 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	3,830	2,550	\$3,700,000	18,400	12,200	\$17,200,000
Canada	19	7	8,560	59	20	26,000
China	--	--	--	537	321	937,000
Georgia	545	374	479,000	20,300	13,500	15,600,000
Germany	--	--	--	195	137	146,000
India	--	--	--	38	17	51,000
Korea, Republic of	--	--	--	7,090	4,620	6,380,000
Mexico	600	394	660,000	1,600	1,050	1,660,000
Norway	714	472	1,100,000	15,200	9,460	22,300,000
Russia	1,280	843	1,630,000	2,780	1,830	2,870,000
Saudi Arabia	971	634	1,070,000	8,760	3,510	7,540,000
South Africa	7,100	4,750	8,720,000	55,400	36,800	60,500,000
Total	15,100	10,000	17,400,000	130,000	83,500	135,000,000

-- 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 DECEMBER 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
Canada	--	--	--	22	18	\$30,600
China	1,630	1,450	\$4,040,000	8,580	7,940	21,900,000
Korea, Republic of	60	49	102,000	3,460	2,810	5,370,000
Mexico	800	645	1,490,000	4,340	3,450	8,090,000
Norway	805	650	1,470,000	2,660	2,160	4,710,000
South Africa	--	--	--	1,020	827	2,560,000
Sweden	--	--	--	5	3	27,500
Total	3,290	2,790	7,110,000	20,100	17,200	42,700,000
Medium carbon, 1%-2% C:						
China	--	--	--	740	600	1,610,000
France	--	--	--	19	15	103,000
Korea, Republic of	--	--	--	4,630	3,770	9,460,000
Mexico	80	60	180,000	1,520	1,210	3,080,000
Norway	4,020	3,240	6,240,000	7,410	6,030	11,400,000
South Africa	1,970	1,580	2,540,000	12,300	9,740	26,800,000
Turkey	--	--	--	20	16	95,800
Total	6,070	4,880	8,950,000	26,600	21,400	52,600,000
Medium carbon, 2%-4% C:						
Brazil	--	--	--	405	304	460,000
Norway	--	--	--	16	13	25,200
South Africa	54	47	133,000	216	179	501,000
Total	54	47	133,000	637	496	986,000
High carbon:						
Australia	--	--	--	11,000	8,460	11,600,000
Bahrain	--	--	--	2,240	1,820	2,660,000
Brazil	--	--	--	405	304	460,000
Canada	--	--	--	149	86	132,000
China	--	--	--	816	614	1,140,000
India	--	--	--	5,910	4,510	5,930,000
Korea, Republic of	500	382	631,000	701	546	870,000
Mexico	600	458	720,000	1,900	1,450	2,130,000
Norway	--	--	--	57	46	92,600
South Africa	16,700	12,900	18,000,000	76,700	59,100	88,600,000
Spain	--	--	--	1,660	1,260	1,840,000
Ukraine	4,290	3,360	3,670,000	4,290	3,360	3,670,000
Total	22,100	17,100	23,000,000	106,000	81,600	119,000,000
Grand total	31,500	24,800	39,200,000	153,000	121,000	215,000,000

-- 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 DECEMBER 2009^{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	--	--	--	25,567	10,476	\$10,185,103
Mexico	1,492	671	\$303,626	1,492	671	303,626
Total	1,492	671	303,626	27,059	11,147	10,488,729
47% or more manganese:						
Australia	--	--	--	10,100	4,969	2,073,156
Belgium	--	--	--	1,181	609	136,297
Brazil	--	--	--	2,956	1,537	929,546
China	--	--	--	4,171	2,146	617,550
Gabon	--	--	--	185,870	96,512	64,971,595
Ghana	--	--	--	37,500	37,125	3,399,165
Morocco	--	--	--	16	9	11,535
Total	--	--	--	241,794	142,907	72,138,844
Grand total	1,492	671	303,626	268,853	154,054	82,627,573

-- 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.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN DECEMBER 2009¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	3	\$11,100	86	\$257,000
Brazil	--	--	56	95,600
Colombia	--	--	116	237,000
France	--	--	25	42,900
Germany	--	--	37	62,900
India	--	--	1	16,300
Japan	395	872,000	4,570	11,400,000
Korea, Republic of	--	--	(³)	7,690
Mexico	--	--	10	16,300
Netherlands	123	55,500	152	105,000
Singapore	--	--	114	194,000
South Africa	1,240	3,220,000	12,200	29,200,000
Spain	--	--	136	309,000
Total	1,760	4,160,000	17,500	42,000,000

-- 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN DECEMBER 2009¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,340	\$3,390,000	7,020	\$17,600,000
Hong Kong	--	--	20	45,700
Japan	--	--	46	121,000
South Africa	38	109,000	2,440	5,960,000
Vietnam	57	139,000	77	190,000
Total	1,430	3,640,000	9,600	23,900,000
Unwrought powder:				
China	98	317,000	1,020	3,200,000
South Africa	278	922,000	1,880	5,970,000
Total	376	1,240,000	2,900	9,180,000
Unwrought, other:				
Brazil	--	--	15	43,500
China	706	1,630,000	7,430	17,300,000
Germany	49	134,000	555	1,660,000
Hong Kong	--	--	183	394,000
Malaysia	--	--	(3)	3,650
Poland	--	--	14	22,400
South Africa	57	184,000	667	2,180,000
United Kingdom	2	6,260	104	326,000
Total	814	1,950,000	8,970	21,900,000
Other manganese, wrought:				
Belgium	4	21,000	10	52,200
Canada	--	--	22	54,600
China	(3)	2,100	263	710,000
France	--	--	8	34,100
Japan	(3)	2,220	(3)	6,800
Mexico	--	--	299	1,530,000
Poland	--	--	(3)	3,190
South Africa	--	--	12	54,300
United Kingdom	--	--	(3)	3,220
Total	4	25,300	614	2,440,000
Grand total	2,630	6,860,000	22,100	57,500,000

-- 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: Imports for consumption of metallic waste and scrap totaled 154 metric tons, all of which was from Canada, to give a year-to-date total of 886 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 DECEMBER 2009¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
	December	Year to date	2% or less C		More than 2% C		December	Year to date	December	Year to date
			December	Year to date	December	Year to date				
Argentina	--	--	140	140	--	--	--	--	--	5
Australia	--	--	--	--	--	160	--	--	--	121
Austria	--	--	--	--	--	--	--	1,130	--	--
Belgium	--	--	--	--	--	--	--	--	--	50
Brazil	1	3	100	100	--	380	--	30	--	--
Canada	--	13,900	82	2,520	827	8,420	60	5,410	12	45
Chile	--	--	--	200	--	340	--	--	--	--
China	--	--	--	--	--	--	--	--	14	894
Colombia	--	--	--	--	--	40	--	--	--	--
Costa Rica	7	7	--	--	--	--	--	--	--	--
El Salvador	--	--	--	--	--	--	--	--	4	4
Finland	--	--	--	--	--	--	--	--	--	159
France	--	--	--	--	--	--	--	--	--	7
Germany	160	668	--	--	--	--	--	--	14	78
Guyana	--	--	--	--	--	--	--	--	--	1
Hong Kong	--	--	--	1	--	--	--	--	63	820
India	--	--	--	--	--	12	--	--	16	205
Indonesia	--	--	--	4	--	--	--	--	--	--
Ireland	--	18	--	--	--	17	--	--	--	--
Italy	--	--	--	--	--	--	--	2,540	--	--
Japan	--	--	--	--	--	1,000	--	--	--	462
Korea, Republic of	68	527	--	--	--	--	--	--	--	--
Latvia	--	38	--	--	--	--	--	--	--	--
Malaysia	--	40	--	--	--	1,080	--	--	--	4
Mexico	--	--	--	3,210	--	3,680	850	7,050	4	39
Netherlands	--	4	--	--	--	2,260	--	1,490	--	--
Norway	--	--	--	--	--	36	243	246	--	--
Peru	--	--	--	--	--	--	--	300	--	--
Portugal	--	--	--	--	--	--	40	136	--	--
Russia	--	14	--	--	--	--	--	--	--	--
Saint Lucia	--	--	--	--	--	--	--	--	--	10
Singapore	--	--	--	--	9	20	--	--	--	--
Slovenia	--	19	--	--	--	--	--	--	--	--
South Africa	23	23	80	80	--	--	--	--	--	--
Sweden	--	19	--	--	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	299	--	76
Trinidad and Tobago	--	--	--	--	--	--	--	--	--	1
Turkey	--	--	--	--	--	--	40	100	--	--
United Arab Emirates	--	--	--	--	--	--	43	43	4	18
United Kingdom	--	--	--	--	--	459	--	--	--	36
Vietnam	--	--	--	--	--	--	--	--	36	118
Total	258	15,300	402	6,260	836	17,900	1,280	18,800	167	3,150

-- 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.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 2009, 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	1,870	\$1,100	South Africa 1,203; \$520	11,200	\$7,570	South Africa 4,040; \$1,760
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	119	382	India 91; \$294	1,140	3,800	Czech Republic 565; \$1,870
Sodium permanganate	53	129	China 53; \$129	233	502	China 232; \$495
Sulfates, basket category, including manganese sulfate	5,420	3,740	Chile 2,700; \$1,540	36,100	35,200	Mexico 13,800; \$14,800
Exports:						
Manganese dioxide	672	1,020	Canada 256; \$246	8,420	13,400	Canada 4,090; \$3,900
Manganese oxides other than dioxide	592	698	Canada 124; \$95	6,620	8,900	Canada 2,220; \$1,330
Manganites, manganates, and other permanganates	9	24	Canada 9; \$24	118	292	Canada 116; \$265
Potassium permanganate	416	1,210	Belgium 307; \$861	2,410	7,460	Belgium 1,420; \$4,110
Sodium permanganate	38	88	Belgium 19; \$49	848	1,880	Belgium 325; \$793
Sulfates, basket category, including manganese sulfate	1,600	885	Canada 1,480; \$693	19,200	14,400	Canada 16,300; \$9,280

-- 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.