

Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2009

Preliminary reported data (gross weight) for September 2009 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 37,600 metric tons (t), according to the U.S. Geological Survey. This was slightly less than that consumed in August 2009. Manganese ore consumption in the first 9 months of 2009 was 345,000 t, which was an 18% increase from the revised amount consumed during the first 9 months of 2008. This increase was the result of sustained production by a major manganese ferroalloy producer. Industry stocks of ore at the end of September 2009 were 115,000 t, which was the same as that at the end of August 2009.

Data for U.S. manganese imports and exports for August 2009 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal were 832% higher and 28% lower,

respectively, than those in July 2009. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 8 months of 2009 were 32% lower and 74% lower, respectively, than those during the same period in 2008 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for August 2009 were 20% lower and 28% lower, respectively, than those in July 2009. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 8 months of 2009 were 63% less and 35% greater, respectively, than those during the same period in 2008 (table 1).

Prices

Prices for manganese materials in September 2009, manganese content, are listed below.

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,300.00-1,470.00	1,382.50
Medium-carbon ferromanganese ³	90.00-105.00	96.50
Silicomanganese ³	60.00-70.00	65.50

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	158.00-165.00	159.33-161.67-164.00
36%-39% Manganese ore ⁵	4.30-4.80	4.27-4.50-4.73
44% Manganese ore ⁵	5.20-5.80	5.33-5.52-5.70
48% Manganese ore ⁵	5.60-6.80	5.93-6.13-6.33

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:						
August	30,000	49,700	79,700	510	1,990	2,500
January-August	200,000	442,000	643,000	15,600	19,800	35,400
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
Total	137,000	115,000	252,000	5,800	26,900	32,700

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 AUGUST 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	328	219	\$172,000	13,100	8,660	\$11,800,000
China	--	--	--	537	321	937,000
Georgia	220	159	192,000	18,700	12,400	14,400,000
Korea, Republic of	--	--	--	7,090	4,620	6,380,000
Norway	19	12	46,400	4,560	2,810	6,270,000
Saudi Arabia	--	--	--	5,860	1,610	4,550,000
South Africa	4,850	3,230	2,870,000	33,900	22,400	37,000,000
Total	5,420	3,620	3,280,000	83,800	52,800	81,300,000

-- 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 AUGUST 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	830	769	\$1,950,000	2,950	2,730	\$7,220,000
Korea, Republic of	--	--	--	2,400	1,940	3,540,000
Mexico	--	--	--	1,040	794	2,350,000
Norway	394	320	600,000	1,090	882	1,970,000
South Africa	--	--	--	1,000	812	2,500,000
Sweden	--	--	--	5	3	27,500
Total	1,220	1,090	2,550,000	8,480	7,160	17,600,000
Medium carbon, 1%-2% C:						
China	6	5	17,700	542	446	1,240,000
France	--	--	--	19	15	103,000
Korea, Republic of	--	--	--	3,000	2,440	6,930,000
Mexico	39	30	98,300	1,150	934	2,210,000
Norway	76	62	109,000	171	141	246,000
South Africa	--	--	--	7,510	5,970	20,200,000
Turkey	--	--	--	20	16	95,800
Total	122	97	225,000	12,400	9,960	31,000,000
Medium carbon, 2%-4% C, South Africa	36	30	82,600	108	84	235,000
High carbon:						
Bahrain	--	--	--	2,000	1,630	2,350,000
Canada	--	--	--	127	69	105,000
China	--	--	--	300	221	630,000
India	--	--	--	2,200	1,680	1,900,000
Korea, Republic of	--	--	--	201	164	239,000
Mexico	--	--	--	1,300	990	1,410,000
South Africa	5,700	4,370	3,740,000	36,000	27,800	47,700,000
Total	5,700	4,370	3,740,000	42,100	32,500	54,400,000
Grand total	7,080	5,590	6,600,000	63,100	49,700	103,000,000

-- 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 AUGUST 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	25,600	10,500	\$10,200,000	25,600	10,500	\$10,200,000
47% or more manganese:						
Brazil	--	--	--	2,960	1,540	930,000
China	--	--	--	4,080	2,090	533,000
Gabon	--	--	--	153,000	78,900	60,400,000
Ghana	--	--	--	37,500	37,100	3,400,000
Total	--	--	--	198,000	120,000	65,300,000
Grand total	25,600	10,500	10,200,000	223,000	130,000	75,500,000

-- 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.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	--	--	66	\$213,000
Brazil	--	--	56	95,600
Colombia	--	--	5	8,640
France	--	--	18	31,000
Germany	9	\$15,700	19	31,500
India	--	--	(3)	7,700
Japan	306	693,000	2,970	7,890,000
Korea, Republic of	(3)	7,690	(3)	7,690
Netherlands	--	--	29	49,500
Singapore	11	18,200	71	122,000
South Africa	1,080	2,840,000	8,530	19,700,000
Spain	--	--	136	309,000
Total	1,410	3,580,000	11,900	28,500,000

-- 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 AUGUST 2009¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	584	\$1,490,000	2,940	\$7,050,000
Hong Kong	20	45,700	20	45,700
Japan	(3)	5,160	9	18,100
South Africa	225	525,000	1,730	4,130,000
Total	829	2,060,000	4,700	11,200,000
Unwrought powder:				
China	--	--	280	994,000
South Africa	220	777,000	1,200	3,720,000
Total	220	777,000	1,480	4,710,000
Unwrought, other:				
Brazil	--	--	15	43,500
China	1,120	2,650,000	4,440	10,200,000
Germany	--	--	470	1,420,000
Hong Kong	--	--	183	394,000
Malaysia	--	--	(3)	3,650
South Africa	76	266,000	438	1,420,000
United Kingdom	--	--	49	145,000
Total	1,190	2,920,000	5,590	13,600,000
Other manganese, wrought:				
Belgium	--	--	6	31,200
Canada	--	--	22	54,600
China	--	--	249	691,000
Japan	--	--	(3)	2,140
Mexico	11	47,200	265	1,370,000
Poland	--	--	(3)	3,190
South Africa	--	--	12	54,300
United Kingdom	(3)	3,220	(3)	3,220
Total	11	50,400	554	2,210,000
Grand total	2,250	5,810,000	12,300	31,800,000

-- 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 157 metric tons, all of which was from Canada, to give a year-to-date total of 418 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 AUGUST 2009¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
			2% or less C		More than 2% C		August	Year to date	August	Year to date
	August	Year to date	August	Year to date	August	Year to date				
Argentina	--	--	--	--	--	--	--	--	--	5
Australia	--	--	--	--	--	160	633	1,130	--	--
Belgium	--	--	--	--	--	--	--	--	--	50
Brazil	--	2	--	--	--	380	10	10	--	--
Canada	2,130	10,900	12	2,350	290	5,110	632	3,360	--	22
Chile	--	--	--	200	--	340	--	--	--	--
China	--	--	--	--	--	--	--	--	157	570
Colombia	--	--	--	--	--	40	--	--	--	--
Finland	--	--	--	--	--	--	--	--	--	159
France	--	--	--	--	--	--	--	--	1	6
Germany	47	422	--	--	--	--	--	--	--	51
Guyana	--	--	--	--	--	--	--	--	--	1
Hong Kong	--	--	--	--	--	--	--	--	170	587
India	--	--	--	--	--	12	--	--	7	181
Ireland	18	18	--	--	--	8	--	--	--	--
Italy	--	--	--	--	--	--	--	2,540	--	--
Japan	--	--	--	--	--	1,000	--	--	--	346
Korea, Republic of	34	271	--	--	--	--	--	--	--	--
Malaysia	--	--	--	--	--	1,080	--	--	--	3
Mexico	--	--	99	3,110	--	3,610	1,550	4,510	--	23
Netherlands	--	4	--	--	--	2,000	--	1,490	--	--
Norway	--	--	--	--	--	26	--	--	--	--
Peru	--	--	--	--	--	--	300	300	--	--
Russia	3	3	--	--	--	--	--	--	--	--
Saint Lucia	--	--	--	--	--	--	--	--	--	10
Singapore	--	--	--	--	--	8	--	--	--	--
Sweden	--	19	--	--	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	299	299	--	76
United Arab Emirates	--	--	--	--	--	--	--	--	--	3
United Kingdom	--	--	--	--	--	459	--	--	--	36
Vietnam	--	--	--	--	--	--	--	--	17	34
Total	2,230	11,600	111	5,660	290	14,200	3,420	13,600	352	2,160

-- 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 AUGUST 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	1,240	\$717	Brazil 715; \$384	5,440	\$4,130	Brazil 2,570; \$1,780
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	111	365	Czech Republic 57; \$185	638	2,160	Czech Republic 368; \$1,240
Sodium permanganate	53	133	China 53; \$133	53	133	China 53; \$133
Sulfates, basket category, including manganese sulfate	3,150	2,800	Mexico 1,090; \$887	22,600	24,200	China 8,950; \$8,060
Exports:						
Manganese dioxide	704	1,220	Canada 246; \$228	4,710	7,690	Canada 2,420; \$2,420
Manganese oxides other than dioxide	576	814	Belgium 100; \$68	4,180	5,220	Canada 1,670; \$869
Manganites, manganates, and other permanganates	29	69	Canada 29; \$69	95	234	Canada 93; \$207
Potassium permanganate	149	552	Belgium 56; \$202	1,390	4,330	Belgium 770; \$2,310
Sodium permanganate	53	114	Belgium 34; \$76	578	1,270	Belgium 262; \$653
Sulfates, basket category, including manganese sulfate	1,510	1,280	Canada 1,230; \$747	12,800	9,900	Canada 10,800; \$6,470

-- 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.