

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2009

Preliminary reported data (gross weight) for October 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 the same as that consumed in September 2009. Manganese ore consumption in the first 10 months of 2009 was 383,000 t, which was an 18% increase from the revised amount consumed during the first 10 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 October 2009 were 114,000 t, which was slightly less than that at the end of September 2009.

Data for U.S. manganese imports and exports for September 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 95% lower and 90% higher,

respectively, than those in August 2009. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 9 months of 2009 were 39% lower and 72% 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 September 2009 were 54% lower and 30% higher, respectively, than those in August 2009. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 9 months of 2009 were 54% less and 30% greater, respectively, than those during the same period in 2008 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,395.00-1,475.00	1,444.38
Medium-carbon ferromanganese ³	97.00-110.00	103.00
Silicomanganese ³	65.00-73.00	67.75

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	142.00-150.00	143.00-146.39-149.78
36%-39% Manganese ore ⁵	4.50-5.25	4.75-4.89-5.02
44% Manganese ore ⁵	5.00-5.75	5.22-5.37-5.52
48% Manganese ore ⁵	5.50-6.50	5.77-5.98-6.18

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:						
September	25,600	51,600	77,100	152	2,260	2,410
January-September	226,000	494,000	720,000	15,700	22,100	37,800
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
Total	138,000	137,000	275,000	7,200	28,800	36,000

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 SEPTEMBER 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	13,100	8,660	\$11,800,000
China	--	--	--	537	321	937,000
Georgia	709	505	\$531,000	19,500	12,900	14,900,000
Korea, Republic of	--	--	--	7,090	4,620	6,380,000
Norway	4,410	2,700	6,160,000	8,970	5,510	12,400,000
Russia	1,500	986	1,250,000	1,500	986	1,250,000
Saudi Arabia	472	310	307,000	6,330	1,920	4,860,000
South Africa	5,200	3,460	3,510,000	39,100	25,900	40,500,000
Total	12,300	7,960	11,800,000	96,100	60,800	93,100,000

-- 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 SEPTEMBER 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	553	511	\$1,360,000	3,500	3,240	\$8,580,000
Korea, Republic of	--	--	--	2,400	1,940	3,540,000
Mexico	1,000	808	1,690,000	2,040	1,600	4,040,000
Norway	533	435	869,000	1,620	1,320	2,830,000
South Africa	--	--	--	1,000	812	2,500,000
Sweden	--	--	--	5	3	27,500
Total	2,090	1,750	3,920,000	10,600	8,920	21,500,000
Medium carbon, 1%-2% C:						
China	50	40	76,400	592	486	1,310,000
France	--	--	--	19	15	103,000
Korea, Republic of	--	--	--	3,000	2,440	6,930,000
Mexico	151	113	383,000	1,300	1,050	2,590,000
Norway	837	685	1,210,000	1,010	826	1,460,000
South Africa	682	534	923,000	8,200	6,500	21,100,000
Turkey	--	--	--	20	16	95,800
Total	1,720	1,370	2,590,000	14,100	11,300	33,600,000
Medium carbon, 2%-4% C, South Africa	36	32	88,300	144	116	324,000
High carbon:						
Bahrain	--	--	--	2,000	1,630	2,350,000
Canada	22	16	26,600	149	86	132,000
China	515	393	507,000	816	614	1,140,000
India	2,730	2,080	2,880,000	4,930	3,760	4,780,000
Korea, Republic of	--	--	--	201	164	239,000
Mexico	--	--	--	1,300	990	1,410,000
South Africa	5,850	4,500	4,440,000	41,800	32,300	52,200,000
Spain	1,130	861	1,220,000	1,130	861	1,220,000
Total	10,200	7,850	9,070,000	52,400	40,400	63,400,000
Grand total	14,100	11,000	15,700,000	77,200	60,700	119,000,000

-- 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 SEPTEMBER 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
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
Morocco	16	9	\$11,500	16	9	11,500
Total	16	9	11,500	198,000	120,000	65,300,000
Grand total	16	9	11,500	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 SEPTEMBER 2009¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	7	\$12,600	74	\$226,000
Brazil	--	--	56	95,600
Colombia	--	--	5	8,640
France	--	--	18	31,000
Germany	9	15,700	28	47,200
India	--	--	(³)	7,700
Japan	395	880,000	3,370	8,770,000
Korea, Republic of	--	--	(³)	7,690
Mexico	10	16,300	10	16,300
Netherlands	--	--	29	49,500
Singapore	11	18,200	82	140,000
South Africa	540	1,400,000	9,070	21,100,000
Spain	--	--	136	309,000
Total	972	2,340,000	12,900	30,900,000

-- 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 SEPTEMBER 2009¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,350	\$3,640,000	4,290	\$10,700,000
Hong Kong	--	--	20	45,700
Japan	19	77,400	28	95,500
South Africa	186	432,000	1,920	4,570,000
Total	1,550	4,150,000	6,260	15,400,000
Unwrought powder:				
China	104	301,000	384	1,300,000
South Africa	60	190,000	1,260	3,910,000
Total	164	491,000	1,650	5,210,000
Unwrought, other:				
Brazil	--	--	15	43,500
China	1,110	2,640,000	5,550	12,800,000
Germany	18	54,100	488	1,470,000
Hong Kong	--	--	183	394,000
Malaysia	--	--	(3)	3,650
Poland	(3)	2,200	(3)	2,200
South Africa	57	212,000	495	1,640,000
United Kingdom	24	82,600	73	227,000
Total	1,210	2,990,000	6,800	16,600,000
Other manganese, wrought:				
Belgium	--	--	6	31,200
Canada	--	--	22	54,600
China	--	--	249	691,000
France	8	34,100	8	34,100
Japan	--	--	(3)	2,140
Mexico	9	43,200	274	1,420,000
Poland	--	--	(3)	3,190
South Africa	--	--	12	54,300
United Kingdom	--	--	(3)	3,220
Total	17	77,300	571	2,290,000
Grand total	2,940	7,710,000	15,300	39,500,000

-- 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 40 metric tons, all of which was from Canada, to give a year-to-date total of 458 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 SEPTEMBER 2009¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
	September	Year to date	2% or less C		More than 2% C		September	Year to date	September	Year to date
Argentina	--	--	--	--	--	--	--	--	--	5
Australia	--	--	--	--	--	160	--	1,130	--	--
Belgium	--	--	--	--	--	--	--	--	--	50
Brazil	--	2	--	--	--	380	14	23	--	--
Canada	2,640	13,500	3	2,350	786	5,900	936	4,290	9	31
Chile	--	--	--	200	--	340	--	--	--	--
China	--	--	--	--	--	--	--	--	146	716
Colombia	--	--	--	--	--	40	--	--	--	--
Finland	--	--	--	--	--	--	--	--	--	159
France	--	--	--	--	--	--	--	--	--	6
Germany	63	485	--	--	--	--	--	--	14	64
Guyana	--	--	--	--	--	--	--	--	--	1
Hong Kong	--	--	--	--	--	--	--	--	14	601
India	--	--	--	--	--	12	--	--	7	189
Ireland	--	18	--	--	--	8	--	--	--	--
Italy	--	--	--	--	--	--	--	2,540	--	--
Japan	--	--	--	--	--	1,000	--	--	55	401
Korea, Republic of	67	337	--	--	--	--	--	--	--	--
Malaysia	--	--	--	--	--	1,080	--	--	--	3
Mexico	--	--	16	3,130	--	3,610	438	4,950	12	35
Netherlands	--	4	--	--	--	2,000	--	1,490	--	--
Norway	--	--	--	--	11	36	--	--	--	--
Peru	--	--	--	--	--	--	--	300	--	--
Russia	--	3	--	--	--	--	--	--	--	--
Saint Lucia	--	--	--	--	--	--	--	--	--	10
Singapore	--	--	--	--	2	11	--	--	--	--
Slovenia	19	19	--	--	--	--	--	--	--	--
Sweden	--	19	--	--	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	299	--	76
Trinidad and Tobago	--	--	--	--	--	--	--	--	1	1
United Arab Emirates	--	--	--	--	--	--	--	--	12	15
United Kingdom	--	--	--	--	--	459	--	--	--	36
Vietnam	--	--	--	--	--	--	--	--	44	78
Total	2,790	14,400	19	5,680	799	15,000	1,390	15,000	315	2,480

-- 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 SEPTEMBER 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	1,390	\$878	South Africa 818; \$380	6,830	\$5,010	Brazil 2,800; \$2,010
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	146	490	India 90; \$309	784	2,650	Czech Republic 424; \$1,420
Sodium permanganate	60	141	China 60; \$141	113	274	China 113; \$274
Sulfates, basket category, including manganese sulfate	2,750	2,440	China 1,440; \$1,200	25,400	26,700	China 10,400; \$9,270
Exports:						
Manganese dioxide	799	1,200	Canada 350; \$316	5,510	8,890	Canada 2,770; \$2,730
Manganese oxides other than dioxide	650	788	Poland 184; \$177	4,830	6,010	Canada 1,730; \$960
Manganites, manganates, and other permanganates	3	8	Canada 3; \$8	98	242	Canada 97; \$215
Potassium permanganate	167	613	Belgium 111; \$311	1,560	4,940	Belgium 881; \$2,620
Sodium permanganate	94	208	Singapore 76; \$172	672	1,480	Belgium 262; \$653
Sulfates, basket category, including manganese sulfate	995	1,200	Canada 766; \$397	13,800	11,101	Canada 11,500; \$6,870

-- 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.