

Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist
 U.S. Geological Survey
 989 National Center
 Reston, VA 20192
 Telephone: (703) 648-4973, Fax: (703) 648-7757
 E-mail: lcorathers@usgs.gov

Marc A. Angulo (Data)
 Telephone: (703) 648-7945
 Fax: (703) 648-7975
 E-mail: mangulo@usgs.gov

Internet: <http://minerals.usgs.gov/minerals>

MANGANESE IN OCTOBER 2007

Preliminary data (gross weight) for October 2007 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 29,600 metric tons (t), according to the U.S. Geological Survey. This was about a five-fold increase from that in

September 2007. Corresponding industry stocks of ore at the end of October 2007 were 115,000 t, which was a 15% decrease from those at the end of September 2007. These data include estimates for annual respondents on the basis of 2006 data.

U.S. trade data for September 2007 are published in this issue.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
October 4	1,600.00-1,650.00	115.00-120.00	76.00-82.00	195.00-205.00
October 11	1,600.00-1,650.00	120.00-125.00	78.00-82.00	195.00-205.00
October 18	1,620.00-1,670.00	130.00-135.00	78.00-82.00	175.00-185.00
October 25	1,650.00-1,700.00	130.00-135.00	79.00-82.00	175.00-185.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
October 4	7.40-7.60	7.70-8.00
October 11	7.60-7.80	8.10-8.20
October 18	8.00-8.20	8.40-8.60
October 25	8.20-8.40	8.50-8.80

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, North American transaction price.

³To determine dollars per metric ton, multiply the manganese content percentage by the price.

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
2006:						
September	18,000	49,400	67,400	201	488	689
January-September	180,000	408,000	588,000	693	19,100	19,800
2007:						
January	24,500	40,300	64,800	77	1,180	1,250
February	48,500	35,700	84,200	144	7,350	7,500
March	20,300	36,000	56,400	29	694	724
April	15,600	44,800	60,400	57	1,030	1,090
May	37,200	66,500	104,000	93	6,110	6,200
June	26,000	47,200	73,300	163	4,250	4,410
July	25,600	30,000	55,700	93	1,830	1,930
August	44,300	66,100	110,000	95	836	931
September	3,520	48,900	52,500	141	692	833
Total	246,000	416,000	661,000	892	24,000	24,900

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 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	3,010	2,010	\$4,590,000	26,200	17,700	\$24,700,000
Canada	--	--	--	478	345	352,000
China	--	--	--	34	33	115,000
Georgia	--	--	--	38,500	28,200	46,700,000
Korea, Republic of	996	718	1,640,000	5,240	3,360	6,710,000
Macedonia	5,330	3,500	6,910,000	18,300	12,100	18,400,000
Mexico	1,300	854	1,090,000	11,300	7,430	8,860,000
Morocco	--	--	--	20	20	6,000
Netherlands	--	--	--	21	13	24,400
Norway	21	12	48,700	36,600	22,800	43,200,000
Romania	--	--	--	21,100	14,800	22,700,000
Russia	1,280	859	1,570,000	3,830	2,550	4,780,000
Saudi Arabia	3,540	2,250	3,350,000	3,540	2,250	3,350,000
South Africa	17,900	12,000	29,000,000	129,000	85,800	127,000,000
Spain	1,500	992	2,430,000	1,500	992	2,430,000
Total	34,900	23,200	50,600,000	295,000	199,000	309,000,000

-- 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 SEPTEMBER 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	3,230	2,660	\$9,030,000	25,200	21,100	\$39,000,000
Japan	--	--	--	1,100	935	1,400,000
Korea, Republic of	--	--	--	2,200	1,760	2,850,000
Mexico	711	581	806,000	4,080	3,320	4,590,000
Norway	--	--	--	439	357	649,000
Russia	--	--	--	60	50	189,000
South Africa	--	--	--	5,400	4,410	4,990,000
Total	3,940	3,250	9,840,000	38,500	31,900	53,700,000
Medium carbon, 1%-2% C:						
China	562	453	1,180,000	9,510	7,630	9,050,000
Japan	--	--	--	1,700	1,450	1,990,000
Korea, Republic of	--	--	--	3,800	3,070	4,090,000
Mexico	589	476	575,000	5,300	4,250	4,930,000
Norway	126	104	210,000	126	104	210,000
South Africa	4,590	3,690	6,730,000	19,400	15,700	25,300,000
Spain	--	--	--	60	48	107,000
Turkey	20	18	38,000	40	38	75,900
Total	5,880	4,740	8,730,000	39,900	32,300	45,700,000
High carbon:						
Australia	--	--	--	503	384	312,000
Brazil	--	--	--	1,720	1,340	1,300,000
China	5,290	4,010	7,150,000	27,300	20,800	24,300,000
Egypt	--	--	--	1,470	1,100	1,440,000
France	--	--	--	1,300	1,050	970,000
Georgia	--	--	--	2,010	1,580	1,910,000
India	500	375	600,000	763	576	985,000
Mexico	--	--	--	20	16	29,900
Poland	--	--	--	778	595	1,090,000
Romania	85	66	110,000	85	66	110,000
Saudi Arabia	1,550	1,030	1,320,000	2,040	1,290	1,470,000
South Africa	10,500	8,010	12,800,000	120,000	93,200	106,000,000
Spain	2,000	1,540	3,040,000	3,250	2,490	4,870,000
Venezuela	--	--	--	1,040	715	909,000
Total	20,000	15,000	25,000,000	163,000	125,000	146,000,000
Grand total	29,800	23,000	43,500,000	241,000	189,000	245,000,000

-- 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 2007^{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	--	--	--	27,500	12,500	\$2,940,000
China	--	--	--	31,500	7,830	1,060,000
Gabon	--	--	--	46,600	20,300	3,860,000
Mexico	--	--	--	3,110	1,120	367,000
South Africa	--	--	--	60,400	26,900	4,370,000
Total	--	--	--	169,000	68,600	12,600,000
47% or more manganese:						
Australia	--	--	--	43,000	22,500	6,300,000
Brazil	3,140	1,570	\$189,000	24,800	12,500	2,130,000
China	7	5	4,050	4,580	2,640	528,000
Gabon	--	--	--	161,000	96,500	16,800,000
Mexico	--	--	--	3,040	1,520	183,000
South Africa	5	5	12,700	54,200	26,700	5,210,000
Total	3,160	1,580	205,000	291,000	162,000	31,100,000
Grand total	3,160	1,580	205,000	460,000	231,000	43,700,000

-- 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 2007¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	2,720	\$3,450,000	12,600	\$16,800,000
Belgium	20	46,700	255	641,000
Brazil	7	11,600	79	112,000
China	319	324,000	7,680	7,990,000
Colombia	5	7,820	59	47,400
Germany	7	12,500	65	137,000
Japan	125	175,000	3,310	4,540,000
Mexico	--	--	347	577,000
Singapore	7	12,000	68	94,300
South Africa	17	55,100	18	58,300
United Kingdom	(3)	7,070	(3)	7,070
Total	3,230	4,100,000	24,500	31,000,000

-- 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 SEPTEMBER 2007¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,990	\$6,390,000	17,100	\$41,900,000
Hong Kong	--	--	180	617,000
South Africa	95	192,000	1,240	2,470,000
Total	2,080	6,580,000	18,600	45,000,000
Unwrought powder:				
China	39	147,000	1,780	4,980,000
South Africa	178	313,000	3,220	5,890,000
Total	217	460,000	5,000	10,900,000
Unwrought, other:				
China	99	400,000	1,760	4,040,000
Germany	38	196,000	876	2,620,000
Russia	--	--	31	171,000
Spain	34	60,700	145	238,000
United Kingdom	59	253,000	70	305,000
Total	230	910,000	2,890	7,370,000
Other manganese, wrought:				
China	--	--	354	878,000
France	--	--	36	529,000
Japan	--	--	(3)	2,100
Mexico	143	906,000	338	1,490,000
Spain	--	--	50	127,000
Taiwan	--	--	1	14,300
United Kingdom	(3)	2,240	75	379,000
Total	143	909,000	854	3,420,000
Grand total	2,670	8,860,000	27,300	66,700,000

-- 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.

Note: Imports for consumption of metallic waste and scrap totaled 134 metric tons, all of which was from Canada, to give a year-to-date total of 966 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 2007¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	September	Year to date	September	Year to date	September	Year to date	September	Year to date
Argentina	--	--	--	--	--	3	--	6
Australia	--	--	--	--	--	--	1	8
Belgium	--	8	--	--	--	--	--	513
Brazil	--	--	--	--	--	--	--	1
Canada	118	840	64	2,830	--	2,820	135	159
Chile	--	--	--	--	--	--	--	8
China	--	44	--	--	--	--	9	167
Colombia	--	--	--	--	--	--	--	138
Dominican Republic	--	--	--	--	--	32	--	--
France	--	--	--	--	--	--	--	5
Germany	52	452	--	--	--	--	--	158
Hong Kong	65	65	--	--	--	--	20	250
India	--	--	--	--	--	--	3	117
Ireland	--	--	--	29	--	--	--	--
Israel	--	--	--	--	--	--	--	8
Jamaica	--	--	--	--	--	--	--	(3)
Japan	--	--	5	5	--	--	74	469
Korea, Republic of	--	94	--	--	--	--	1	3
Malaysia	--	5	--	--	--	--	--	11
Mexico	30	50	--	--	5	230	--	63
Poland	18	18	--	--	--	--	--	--
South Africa	--	--	--	--	--	--	--	5
Sweden	--	--	--	--	--	--	--	26
Taiwan	--	--	--	--	--	--	--	65
United Kingdom	--	--	--	5	--	--	9	12
Venezuela	--	--	--	--	--	--	--	28
Vietnam	--	209	--	--	--	--	10	37
Total	282	1,780	69	2,870	5	3,080	262	2,260

-- 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.

³Less than ½ unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 470 metric tons, of which 431 metric tons went to Canada and 39 metric tons went to Mexico; to give a year-to-date total of 22,000 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 2007, BY CLASS^d

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	621	\$335	Mexico 323; \$165	4,170	\$2,640	Mexico 2,480; \$1,130
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	14	34	Czech Republic 14; \$34	811	1,950	India 410; \$993
Sodium permanganate	35	67	China 35; \$67	205	349	China 205; \$349
Sulfates, basket category, including manganese sulfate	2,520	1,890	Mexico 1,750; \$1,100	31,000	16,600	China 15,500; \$6,870
Exports:						
Manganese dioxide	705	585	Canada 473; \$268	6,640	6,220	Canada 3,410; \$1,850
Manganese oxides other than dioxide	1,880	1,110	Canada 1,640; \$634	12,900	8,560	Canada 9,360; \$3,640
Manganites, manganates, and other permanganates	5	13	Canada 5; \$13	63	159	Canada 54; \$131
Potassium permanganate	197	482	Belgium 57; \$101	1,910	4,440	Belgium 896; \$1,580
Sodium permanganate	32	84	China 32; \$84	1,100	2,730	Spain 398; \$1,010
Sulfates, basket category, including manganese sulfate	2,300	1,900	Canada 1,840; \$1,280	20,400	16,600	Canada 13,900; \$8,850

-- 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.