

Mineral Industry Surveys

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MANGANESE IN NOVEMBER 2007

Preliminary data (gross weight) for November 2007 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 23,800 metric tons (t), according to the U.S. Geological Survey. This was a 20% decrease from that in October 2007.

Corresponding industry stocks of ore at the end of November 2007 were 101,000 t, which was a 12% decrease from those at the end of October 2007. These data include estimates for annual respondents on the basis of 2006 data.

U.S. trade data for October 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)
November 1	1,670.00-1,725.00	140.00-145.00	79.00-82.00	175.00-185.00
November 8	1,700.00-1,770.00	145.00-155.00	82.00-84.00	190.00-200.00
November 15	1,750.00-1,800.00	150.00-165.00	82.00-84.00	190.00-200.00
November 22	1,770.00-1,810.00	150.00-165.00	82.00-84.00	190.00-200.00
November 29	1,810.00-1,860.00	155.00-165.00	82.00-84.00	190.00-200.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
November 1	8.30-8.40	8.60-8.90
November 8	8.50-8.60	9.00-9.20
November 15	9.00-9.50	9.60-10.10
November 22	9.00-9.50	9.60-10.10
November 29	9.00-9.50	9.60-10.10

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:						
October	49,000	64,500	114,000	157	921	1,080
January-October	229,000	472,000	701,000	851	20,000	20,800
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
October	40,600	37,100	77,700	7,290	3,510	10,800
Total	286,000	453,000	739,000	8,180	27,500	35,700

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 OCTOBER 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	2,510	1,810	\$4,060,000	28,700	19,500	\$28,800,000
Canada	--	--	--	478	345	352,000
China	--	--	--	34	33	115,000
Georgia	--	--	--	38,500	28,200	46,700,000
Korea, Republic of	487	368	845,000	5,730	3,730	7,550,000
Macedonia	6,620	4,420	10,800,000	24,900	16,600	29,200,000
Mexico	1,670	1,090	1,440,000	13,000	8,520	10,300,000
Morocco	--	--	--	20	20	6,000
Netherlands	--	--	--	21	13	24,400
Norway	10,700	6,730	16,600,000	47,300	29,600	59,800,000
Romania	--	--	--	21,100	14,800	22,700,000
Russia	1,700	1,330	2,890,000	5,530	3,890	7,670,000
Saudi Arabia	--	--	--	3,540	2,250	3,350,000
South Africa	6,540	4,380	9,890,000	135,000	90,100	136,000,000
Spain	--	--	--	1,500	992	2,430,000
Total	30,200	20,100	46,500,000	326,000	219,000	355,000,000

-- 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 changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,580	2,140	\$7,190,000	27,800	23,200	\$46,200,000
Japan	--	--	--	1,100	935	1,400,000
Korea, Republic of	--	--	--	2,200	1,760	2,850,000
Mexico	1,790	1,450	2,190,000	5,860	4,770	6,780,000
Norway	93	76	224,000	532	432	873,000
Russia	--	--	--	60	50	189,000
South Africa	--	--	--	5,400	4,410	4,990,000
Total	4,460	3,670	9,600,000	42,900	35,600	63,300,000
Medium carbon, 1%-2% C:						
China	1,120	895	1,200,000	10,600	8,530	10,300,000
Japan	--	--	--	1,700	1,450	1,990,000
Korea, Republic of	--	--	--	3,800	3,070	4,090,000
Mexico	329	257	357,000	5,630	4,510	5,280,000
Norway	64	53	107,000	191	156	317,000
South Africa	313	253	478,000	19,700	15,900	25,800,000
Spain	--	--	--	60	48	107,000
Turkey	--	--	--	40	38	75,900
Total	1,830	1,460	2,140,000	41,700	33,700	47,900,000
High carbon:						
Australia	1,000	669	1,230,000	1,510	1,050	1,540,000
Brazil	--	--	--	1,720	1,340	1,300,000
China	1,680	1,220	1,990,000	29,000	22,000	26,300,000
Egypt	--	--	--	1,470	1,100	1,440,000
France	--	--	--	1,300	1,050	970,000
Georgia	--	--	--	2,010	1,580	1,910,000
India	1,190	912	1,310,000	1,950	1,490	2,300,000
Mexico	--	--	--	20	16	29,900
Poland	--	--	--	778	595	1,090,000
Romania	106	83	138,000	191	149	248,000
Saudi Arabia	--	--	--	2,040	1,290	1,470,000
South Africa	8,020	6,230	11,600,000	129,000	99,400	117,000,000
Spain	--	--	--	3,250	2,490	4,870,000
Venezuela	499	369	638,000	1,540	1,090	1,550,000
Total	12,500	9,480	16,900,000	175,000	135,000	162,000,000
Grand total	18,800	14,600	28,600,000	260,000	204,000	274,000,000

-- 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 changes 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 OCTOBER 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
Canada	24,500	5,380	\$1,000,000	24,500	5,380	1,000,000
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	24,500	5,380	1,000,000	194,000	74,000	13,600,000
47% or more manganese:						
Australia	--	--	--	43,000	22,500	6,300,000
Brazil	4,210	2,110	253,000	29,000	14,600	2,390,000
China	35	21	19,100	4,610	2,660	547,000
Gabon	61,900	32,200	6,250,000	223,000	129,000	23,000,000
Mexico	--	--	--	3,040	1,520	183,000
South Africa	8	8	19,900	54,200	26,700	5,230,000
Total	66,200	34,300	6,540,000	357,000	197,000	37,700,000
Grand total	90,600	39,700	7,540,000	551,000	271,000	51,300,000

-- 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 changes 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 OCTOBER 2007¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	871	\$1,140,000	13,500	\$18,000,000
Belgium	40	93,400	295	735,000
Brazil	30	50,900	109	163,000
China	472	530,000	8,160	8,520,000
Colombia	--	--	59	47,400
Germany	7	12,500	73	150,000
Japan	33	49,900	3,340	4,590,000
Mexico	--	--	347	577,000
Singapore	--	--	68	94,300
South Africa	--	--	18	58,300
United Kingdom	--	--	(3)	7,070
Total	1,450	1,880,000	25,900	32,900,000

-- 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 changes 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 OCTOBER 2007¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,120	\$3,750,000	18,300	\$45,600,000
Hong Kong	--	--	180	617,000
South Africa	38	76,700	1,270	2,550,000
Total	1,160	3,820,000	19,700	48,800,000
Unwrought powder:				
China	--	--	1,780	4,980,000
South Africa	414	744,000	3,640	6,640,000
Total	414	744,000	5,420	11,600,000
Unwrought, other:				
China	524	1,620,000	2,290	5,660,000
Germany	171	787,000	1,050	3,400,000
Russia	--	--	31	171,000
Spain	19	112,000	163	349,000
United Kingdom	28	122,000	98	427,000
Total	742	2,640,000	3,630	10,000,000
Other manganese, wrought:				
Canada	3	19,400	3	19,400
China	18	36,500	372	914,000
France	--	--	36	529,000
Japan	--	--	(3)	2,100
Mexico	--	--	338	1,490,000
Spain	--	--	50	127,000
Taiwan	--	--	1	14,300
United Kingdom	(3)	6,600	75	385,000
Total	20	62,500	874	3,480,000
Grand total	2,330	7,270,000	29,600	73,900,000

-- 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 changes incurred in bringing the material into the United States.

³Less than ½ unit.

Note: Imports for consumption of metallic waste and scrap totaled 91 metric tons, all of which was from Canada, to give a year-to-date total of 1,060 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 OCTOBER 2007¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	October	Year to date	October	Year to date	October	Year to date	October	Year to date
Argentina	--	--	--	--	--	--	--	6
Australia	--	--	--	--	--	3	--	8
Belgium	--	8	--	--	--	--	65	578
Brazil	--	--	--	--	16	16	--	1
Canada	144	984	79	2,910	45	2,860	5	164
Chile	--	--	--	--	--	--	--	8
China	14,400	14,500	--	--	--	--	68	235
Colombia	--	--	--	--	--	--	--	138
Dominican Republic	--	--	--	--	--	32	--	--
France	--	--	--	--	--	--	--	5
Germany	17	469	--	--	--	--	--	158
Hong Kong	--	65	--	--	--	--	104	354
India	--	--	--	--	--	--	75	192
Ireland	--	--	--	29	--	--	--	--
Israel	--	--	--	--	--	--	--	8
Jamaica	--	--	--	--	--	--	--	(3)
Japan	--	--	--	5	--	--	73	542
Korea, Republic of	--	94	--	--	--	--	--	3
Malaysia	--	5	--	--	--	--	--	11
Mexico	--	50	1,610	1,610	35	265	1	64
Poland	--	18	--	--	--	--	--	--
Saudi Arabia	--	--	943	943	--	--	--	--
South Africa	--	--	--	--	--	--	--	5
Sweden	--	--	--	--	--	--	--	26
Taiwan	--	--	--	--	--	--	--	65
United Kingdom	--	--	--	5	--	--	--	12
Venezuela	--	--	--	--	--	--	32	28
Vietnam	--	209	--	--	--	--	--	70
Total	14,600	16,400	2,640	5,500	97	3,180	423	2,680

-- 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 1,200 metric tons, of which 1,050 metric tons went to Canada and 149 metric tons went to Mexico; to give a year-to-date total of 23,200 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2007, 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	183	82	Mexico 143; \$63	4,360	2,720	Mexico 2,620; \$1,200
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	98	234	India 54; \$131	909	2,180	India 464; \$1,120
Sodium permanganate	35	72	Hong Kong 35; \$72	240	421	China 205; \$349
Sulfates, basket category, including manganese sulfate	2,710	1,820	Mexico 2,045; \$1,225	33,700	18,400	China 16,000; \$7,210
Exports:						
Manganese dioxide	761	580	Canada 481; \$253	7,400	6,800	Canada 3,890; \$2,100
Manganese oxides other than dioxide	1,830	1,110	Canada 1,368; \$575	14,800	9,670	Canada 10,700; \$4,210
Manganites, manganates, and other permanganates	--	--	--	63	159	Canada 54; \$131
Potassium permanganate	135	336	Belgium 86; \$154	2,040	4,780	Belgium 982; \$1,740
Sodium permanganate	135	390	China 30; \$84	1,230	3,120	Spain 398; \$1,010
Sulfates, basket category, including manganese sulfate	2,100	1,410	Canada 1,825; \$1,088	22,500	18,000	Canada 15,700; \$9,940

-- 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.