

Mineral Industry Surveys

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MANGANESE IN NOVEMBER 2004

In November, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was about 30,000 metric tons (t), which was a 2% decrease from that of October 2004, according to the U.S. Geological Survey. This figure increases to 32,400 t when estimates for annual respondents are added on the basis of 2003 data. Corresponding industry stocks of ore at the end of the month were 176,000 t, which includes an estimate for annual

respondents on the basis of 2003 data. (Data for the most recent 13 months are plotted in the graph on page 2.)

Based on a content-weight comparison of October 2004 trade data (table 1) to those of the prior month, total exports about tripled, owing primarily to a significant increase in manganese ore exports. Manganese imports increased by 19%, owing primarily to a significant increase in manganese ferroalloy and metal imports.

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
2003:						
October	22,000	42,300	64,300	286	1,380	1,670
January-October	200,000	307,000 [†]	507,000 [†]	8,210	9,820	18,000
2004:						
January	13,100	37,500	50,600	653	796	1,450
February	20,600	33,100	53,700	1,920	745	2,660
March	34,800	29,300 [‡]	64,100	12,400	559	13,000
April	3,720	57,300 [‡]	61,000	733	1,300	2,030
May	44,200	25,000	69,200	1,990	643	2,630
June	23,800	45,200	69,000	3,210	507	3,720
July	1,130	76,300	77,400	7,260	701	7,960
August	4,410	99,300	104,000	1,940	543	2,490
September	25,200	54,700	79,900	2,580	497	3,080
October	35,200	59,700	95,000	7,140	776	7,920
Total	206,000	517,000	724,000	39,900	7,060	46,900

[†]Revised.

¹Data are 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.

³All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

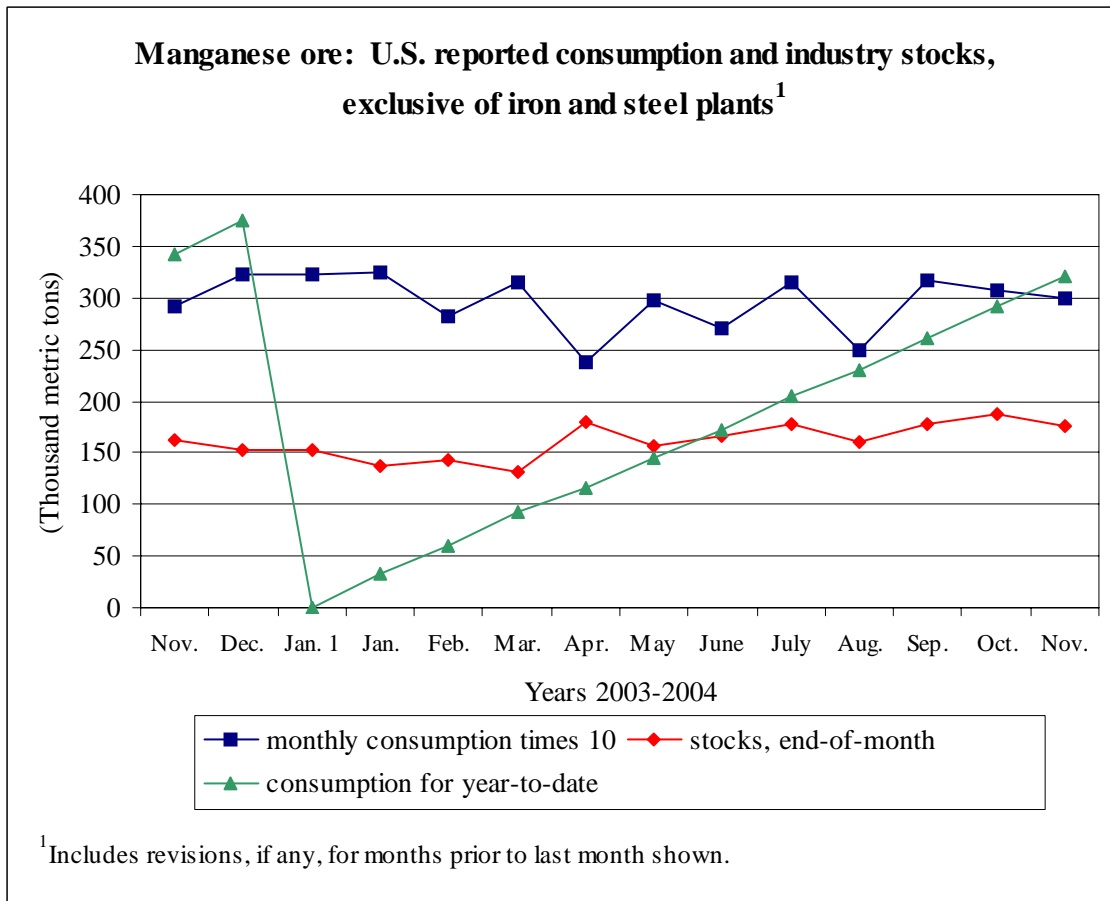


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN OCTOBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	3,600	2,390	\$3,640,000	26,500	17,600	\$20,800,000
Canada	176	130	107,000	972	772	481,000
China	200	123	210,000	600	379	662,000
France	--	--	--	3,010	2,030	2,980,000
Gabon	--	--	--	46	33	63,300
Georgia	--	--	--	28,300	21,800	27,800,000
Korea, Republic of	--	--	--	12,100	7,900	8,660,000
Mexico	2,300	1,500	1,600,000	8,810	5,780	5,710,000
Norway	18,300	7,120 ²	6,530,000	59,000	29,300	38,200,000
Romania	15,700	11,000	17,500,000	65,000	46,800	69,000,000
Russia	2,370	665 ²	2,620,000	28,900	11,400	15,500,000
Slovakia	--	--	--	1,520	985	803,000
South Africa	12,600	8,960	14,700,000	122,000	77,100	113,000,000
Spain	--	--	--	1,400	933	1,910,000
Ukraine	--	--	--	72	40	56,200
United Kingdom	--	--	--	17	13	11,700
Venezuela	1,290	782	994,000	1,310	1,190	1,200,000
Total	56,500	32,600	47,900,000	360,000	224,000	307,000,000
Total, general imports	56,500	32,600	47,900,000	360,000	224,000	307,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
China	861	760	\$1,370,000	6,460	5,780	\$8,890,000
Japan	--	--	--	1,200	965	1,230,000
Mexico	609	497	625,000	1,970	1,580	2,010,000
Norway	144	119	156,000	1,340	1,090	1,390,000
South Africa	120	110	197,000	1,530	1,420	2,270,000
Spain	--	--	--	18	14	19,000
Ukraine	--	--	--	40	32	47,900
Total, low carbon	1,730	1,490	2,350,000	12,600	10,900	15,800,000
Total, general imports of low carbon	1,730	1,490	2,350,000	12,600	10,900	15,800,000

See footnotes at end of table.

TABLE 3--Continued
 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Medium carbon, 1%-2% C:						
Argentina	--	--	--	420	287	\$482,000
Austria	--	--	--	5	4	2,880
China	1,950	1,550	\$2,450,000	14,000	11,200	16,000,000
Italy	--	--	--	11	76	42,000
Korea, Republic of	--	--	--	8,500	7,050	8,290,000
Mexico	1,190	937	1,170,000	9,970	7,860	9,270,000
Netherlands	--	--	--	757	590	848,000
Norway	--	--	--	6,940	5,670	8,280,000
Romania	--	--	--	150	113	78,500
Saudi Arabia	--	--	--	8	7	3,620
South Africa	1,300	1,100	2,070,000	35,200	28,500	35,200,000
Ukraine	272	236	327,000	4,410	3,510	4,780,000
Venezuela	--	--	--	400	253	372,000
Total, m.c., 1%-2% C	4,710	3,820	6,020,000	80,800	65,100	83,600,000
Total, general imports of m.c., 1%-2% C	4,710	3,820	6,020,000	80,800	65,100	83,600,000
Medium carbon, 2%-4% C						
China	--	--	--	57	52	86,400
Georgia	--	--	--	5,990	5,640	5,530,000
Total, m.c., 2%-4% C	--	--	--	6,050	5,690	5,610,000
Total, general imports of m.c., 2%-4% C	--	--	--	6,050	5,690	5,610,000
High carbon:						
Australia	--	--	--	22,700	16,100	16,800,000
Brazil	--	--	--	10,900	7,570	5,130,000
Canada	35	27	20,800	126	96	74,900
China	3,400	2,590	3,660,000	37,700	26,000	21,200,000
France	--	--	--	4,010	3,170	3,850,000
India	5,000	3,810	6,170,000	11,800	9,000	13,300,000
Korea, Republic of	--	--	--	2,000	1,500	2,180,000
Norway	--	--	--	13,200	9,910	10,800,000
Poland	--	--	--	231	183	344,000
Saudi Arabia	--	--	--	11	46	21,500
South Africa	15,900	12,400	18,500,000	144,000	102,000	108,000,000
Spain	--	--	--	8,600	6,720	8,640,000
Switzerland	--	--	--	80	64	120,000
Ukraine	88	67	131,000	2,550	1,950	3,210,000
United Kingdom	--	--	--	60	47	86,600
Total, high carbon	24,500	18,900	28,400,000	258,000	184,000	193,000,000
Total, general imports of high carbon	24,500	18,900	28,400,000	258,000	184,000	193,000,000
Grand total	30,900	24,200	36,800,000	358,000	266,000	299,000,000
Grand total, general imports	30,900	24,200	36,800,000	358,000	266,000	299,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN OCTOBER 2004^{1,2}

(Metric tons)

Source	20% - 47% Mn		47% or more Mn		Total	
	Gross weight	Mn content	Gross weight	Mn content	Gross weight	Mn content
Belgium	--	--	36	25	36	25
Gabon	--	--	33,700	19,600	33,700	19,600
Mexico	1,500	548	--	--	1,500	548
South Africa	--	--	26,900	13,200	26,900	13,200
Total	1,500	548	60,600	32,900	62,100	33,400
Year to date:						
Australia	--	--	38,100	20,200	38,100	20,200
Belgium	--	--	163	115	163	115
Brazil	--	--	6	6	6	6
China	18	8	3,950	2,100	3,960	2,110
Gabon	1,540	706	303,000	155,000	304,000	156,000
Georgia	--	--	21	16	21	16
India	--	--	41	37	41	37
Mexico	4,400	1,640	--	--	4,400	1,640
Poland	--	--	109	86	109	86
South Africa	--	--	26,900	13,200	26,900	13,200
Total	5,950	2,360	372,000	191,000	378,000	193,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN OCTOBER 2004¹

(Metric tons, gross weight)

Source	Manganese dioxide			
	Quantity	Customs value	Year to date	
			Quantity	Customs value
Australia	1,060	\$1,290,000	5,500	\$6,690,000
Belgium	54	112,000	581	1,200,000
Brazil	31	52,100	595	403,000
China	947	960,000	9,150	9,200,000
Germany	18	45,500	95	278,000
Greece	108	139,000	2,340	2,960,000
Japan	592	835,000	2,230	2,860,000
South Africa	225	306,000	777	1,100,000
Spain	--	--	20	24,500
United Kingdom	--	--	1	9,250
Total	3,030	3,740,000	21,300	24,700,000
Total, general imports	3,030	3,740,000	21,300	24,700,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN OCTOBER 2004¹

(Metric tons)

Source	Gross weight	Customs value	Year to date	
			Gross weight	Customs value
Unwrought flake:				
China	503	\$723	7,810	\$12,200
Netherlands	--	--	260	364
South Africa	944	1,400	6,690	9,370
Total	1,450	2,130	14,800	22,000
Unwrought powder:				
China	468	477	4,430	5,830
Germany	--	--	55	125
South Africa	541	871	3,620	5,530
Total	1,010	1,350	8,110	11,500
Unwrought, other:				
China	--	--	59	111,000
Germany	18	45,800	103	241,000
Poland	--	--	112	159,000
South Africa	281	380,000	2,490	3,620,000
Spain	114	248,000	844	1,520,000
Total	413	675,000	3,600	5,650,000
Other manganese, wrought:				
Austria	--	--	(2)	10,700
China	--	--	299	460,000
France	4	40,700	10	107,000
Germany	--	--	14	199,000
Japan	--	--	4	14,400
India	--	--	8	12,000
Netherlands	--	--	9	20,900
Poland	--	--	40	26,300
South Africa	--	--	4	2,160
Spain	--	--	169	410,000
United Kingdom	--	--	(2)	5,100
Total	4	40,700	557	1,270,000
Grand total	2,870	719,000	27,000	6,950,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 63 tons, all of which was from Canada, to give a year-to-date total of 1,300 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 2004¹

(Metric tons, gross weight)

	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
Australia	99	241	--	--	--	3	--	--
Belgium	--	--	--	--	--	--	66	212
Brazil	149	1,040	--	--	--	26	(3)	6
Canada	265	3,820	458	3,300	--	46	61	755
Chile	--	22	--	--	--	--	--	--
China	5,500	47,900	--	23	--	--	(3)	(3)
Colombia	--	--	--	--	--	--	--	1
Costa Rica	--	--	--	--	--	--	--	2
Croatia	--	--	--	19	--	--	--	--
Dominican Republic	--	--	--	--	--	--	--	14
Estonia	--	--	--	54	--	--	--	--
France	--	242	--	--	--	24	(3)	4
Germany	5,000	10,400	--	--	--	--	18	202
Hong Kong	--	23	--	--	--	--	--	(3)
India	--	41	--	--	--	--	--	--
Indonesia	20	46	--	10	--	18	--	--
Israel	--	118	--	--	--	--	--	--
Italy	--	74	--	--	--	--	--	32
Japan	--	37	--	--	--	--	86	581
Korea, Republic of	17	244	--	--	--	--	--	64
Kuwait	--	434	--	--	--	--	--	--
Malaysia	--	--	--	--	--	--	--	2
Mexico	--	--	--	132	60	258	3	191
Netherlands	757	6,240	--	--	--	14	--	--
New Zealand	38	38	--	--	--	--	--	--
Norway	672	1,750	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	4
Philippines	--	464	--	--	--	--	--	--
Poland	117	668	--	--	--	--	--	--
Russia	--	21	--	--	--	--	--	--
Singapore	--	--	--	8	--	--	--	--
Spain	--	--	--	--	8	16	--	--
Sweden	37	1,660	--	--	--	--	32	159
Switzerland	--	35	--	--	--	--	--	--
Taiwan	60	168	--	--	--	--	--	2
Thailand	--	--	--	--	--	--	--	(3)
Trinidad and Tobago	--	--	--	--	--	38	--	--
Turkey	--	--	--	9	--	--	--	--
United Kingdom	1,540	4,010	--	--	--	--	--	4
Venezuela	--	34	--	390	--	--	--	--
Total	14,300	79,700	458	3,950	68	443	266	2,240

-- Zero.

¹Data are 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 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 130 tons, all of which went to Canada, to give a year-to-date total of 1,800 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2004, 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	455	\$228	South Africa 236; \$90	2,790	\$2,260	Mexico 1,130; \$472
Sulfates, basket category, including manganese sulfate	4,300	2,300	Mexico 2,390; \$1,210	31,200	17,500	China 14,300; \$6,650
Potassium permanganate	97	191	India 54; \$106	949	1,890	Czech Republic 654; \$1,260
Manganites, manganates, and other permanganates	37	52	China 37; \$52	885	1,440	China 866; \$1,360
Exports:						
Manganese dioxide	366	312	Canada 215; \$133	3,130	2,930	Canada 1,450; \$668
Manganese oxides other than dioxide	277	277	Canada 184; \$77	4,790	3,750	Canada 3,230; \$1,210
Sulfates, basket category, including manganese sulfate	1,750	1,190	Canada 1,500; \$725	15,900	10,800	Canada 13,400; \$5,830
Potassium permanganate	157	220	Spain 99; \$123	2,650	4,030	Spain 1,700; \$2,640
Manganites, manganates, and other permanganates	103	280	Spain 54; \$76	583	1,990	Japan 300; \$1,040

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.