

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 Nicholas A. Muniz (Data) Telephone: (703) 648-7980 Fax: (703) 648-7975 E-mail: nmuniz@usgs.gov

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

MANGANESE IN OCTOBER 2005

On a preliminary, gross-weight basis, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 32,000 metric tons (t) in October 2005, which was an 8% increase from that in September 2005, according to the U.S. Geological Survey. This figure increases to 34,400 t when estimates for annual respondents are added on the basis of 2004 data. Corresponding industry stocks of ore at the end of the month were 344,000 t, which include an estimate for annual respondents on the basis of 2004 data. This was a 17% increase over stocks at the end of September. Foreign trade data for October will appear in a subsequent report. The following comparisons of trade data were made on the basis of manganese content. The data for September 2005 tabulated in this report indicate that the total exports of 1,480 t were 8% lower than those of the prior month, owing to decreases in exports of ferromanganese, silicomanganese, and manganese metal. Manganese imports were 73,600 t, which was an increase of 50% compared with those of August. The increase in manganese imports was due to increases in ferromanganese and manganese ore imports.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹	Medium-carbon ferromanganese ¹	Silicomanganese ¹	Manganese metal ²
	(dollars per gross ton)	(cents per pound)	(cents per pound)	(cents per pound)
October 6	540.00-550.00	47.00-54.00	38.00-40.00	82.00-85.00
October 13	550.00-560.00	46.00-54.00	38.00-40.00	82.00-85.00
October 20	550.00-560.00	46.00-54.00	38.00-40.00	82.00-85.00
October 27	560.00-570.00	46.00-54.00	38.00-40.00	82.00-85.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
October 6	1.90-2.00	2.40-2.60
October 13	1.90-2.00	2.40-2.60
October 20	1.90-2.00	2.40-2.60
October 27	1.90-2.00	2.40-2.60

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

	Impor	ts for consumpti	on	Exports			
	Ore and	Ferroalloy			Ferroalloy		
	dioxide	and metal	Total	Ore	and metal	Total	
2004:							
September	25,200	54,700	79,900	2,580	497	3,080	
January-September	171,000	437,000 ^r	608,000 ^r	32,700	6,290	39,000	
2005:							
January	7,650	45,000	52,600	162	955	1,120	
February	40,700	29,000	69,700	111	1,170	1,280	
March	22,300	42,000	64,300	206	1,160	1,360	
April	38,400	39,900	78,300	2,350	778	3,130	
May	16,500	47,400	64,000	364	1,380	1,740	
June	19,500	41,000	60,500	272	1,550	1,820	
July	21,000	40,000	61,000	197	934	1,130	
August	23,800	25,400	49,100	234	1,360	1,600	
September	41,800	31,700	73,600	564	911	1,470	
Total	232,000	341,000	573,000	4,460	10,200	14,700	

(Metric tons, manganese content)²

^rRevised.

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.

Source: U.S. Census Bureau.

TABLE 2

U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN SEPTEMBER 2005^1

(Metric tons)

					Year to date	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Australia	1,000	661	\$518,000	26,300	17,500	\$15,500,000
Canada				350	311	195,000
France				2	1	2,860
Georgia				6,500	4,950	4,290,000
Kazakhstan				20	13	17,500
Korea, Republic of				216	156	305,000
Mexico	4,600	3,110	2,720,000	18,200	12,100	13,100,000
Norway	163	96 ³	167,000	48,800	30,700	48,300,000
Romania				57,100	38,300	41,700,000
Russia				11,400	7,750	9,250,000
South Africa	6,370	4,190	3,630,000	70,800	46,800	44,200,000
Spain				4,000	2,670	2,770,000
Total	12,100	8,050	7,040,000	244,000	161,000	180,000,000

-- Zero.

¹Data are 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.

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

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN SEPTEMBER 2005¹

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ²	weight	content	value ²	
Low carbon:							
China	1,160	965	\$1,810,000	13,100	11,100	\$21,500,000	
Japan				1,800	1,450	2,170,000	
Korea, Republic of				1,390	1,040	1,480,000	
Mexico	1,160	922	1,150,000	5,490	4,400	6,090,000	
Netherlands				17	14	29,800	
Norway				221	181	369,000	
South Africa	140	129	249,000	1,980	1,830	3,630,000	
Spain				36	28	41,800	
Total, low carbon	2,460	2,020	3,210,000	24,100	20,100	35,300,000	
Medium carbon, 1%-2% C:							
China				3,150	2,520	4,490,000	
Korea, Republic of				9,000	7,200	7,430,000	
Mexico	195	150 ^r	259,000	12,100	9,500	12,600,000	
Norway				1,810	1,480	2,610,000	
South Africa	2,490	2,090	2,000,000	23,700	19,200	27,000,000	
Total, m.c., 1%-2% C	2,680	2,240	2,260,000	49,700	39,900	54,100,000	
High carbon:							
Australia				4,460	3,420	2,380,000	
Brazil				13,800	10,700	9,720,000	
Canada				18	13	17,000	
China				7,500	5,720	5,250,000	
France				4,100	3,200	2,830,000	
Hong Kong				3,360	2,550	1,960,000	
Mexico	3	2	3,510	797	623	726,000	
South Africa	23,300	18,200	9,680,000	86,500	67,300	50,400,000	
Ukraine				2,840	2,230	1,260,000	
Total, high carbon	23,300	18,200	9,690,000	123,000	95,700	74,600,000	
Grand total	28,400	22,400	15,200,000	197,000	156,000	164,000,000	

(Metric tons)

-- Zero.

¹Data are 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.

 $^{3}\mbox{All}$ or part of these data have been referred to the U.S. Census Bureau for verification.

TABLE 4

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN SEPTEMBER 2005^{1,2}

(Metric	tons)
---------	-------

				Year to date			
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ³	weight	content	value ³	
More than 20%, but less than 47% manganese:							
China				5,140	1,050	\$35,100	
Gabon	4,000	1,760	208,000	5,660	6,530	1,180,000	
Ghana				18	7	2,340	
Mexico				5,870	3,240	675,000	
Namibia				26,000	10,400	1,950,000	
United Kingdom				87	40	6,000	
Total	4,000	1,760	208,000	42,800	21,300	3,850,000	
47% or more manganese:							
Australia				22,500	11,800	2,810,000	
Belgium				114	75	87,300	
Brazil				9,000	5,200	1,480,000	
China				8,600	4,300	781,000	
France				60	56	6,670	
Gabon	75,000	37,900	5,600,000	282,000	148,000	21,700,000	
Ghana				90	57	4,320	
India				85	42	12,800	
South Africa				68,000	33,100	7,170,000	
Total	75,000	37,900	5,600,000	390,000	203,000	34,100,000	
Grand total	79,000	39,700	5,810,000	433,000	224,000	37,900,000	

-- 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.

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 2005¹

	(8 ,		
			Year	to date
		Customs		Customs
Source	Quantity	value ²	Quantity	value ²
Australia	1,400	\$1,870,000	11,700	\$15,400,000
Belgium			336	752,000
Brazil	6	9,970	383	434,000
China	1,570	1,800,000	7,200	7,580,000
Germany	2	8,620	78	260,000
Japan	595	843,000	3,470	4,790,000
Poland	7	12,000	7	12,000
Total	3,570	4,540,000	23,200	29,200,000

(Metric tons, gross weight)

-- Zero.

¹Data are 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.

TABLE 6

U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN SEPTEMBER 2005^1

			Year to date ²		
	Gross	Customs	Gross	Customs	
Source	weight	value ³	weight	value ³	
Unwrought flake:					
China	211	\$305,000	9,240	\$13,800,000	
Germany			7	28,200	
Hong Kong	18	30,000	18	30,000	
South Africa	193	381,000	4,420	7,750,000	
Total	422	716,000	13,700	21,600,000	
Unwrought powder:					
China	35	66,100	895	1,380,000	
South Africa	136	292,000	2,960	5,880,000	
Total	171	358,000	3,850	7,260,000	
Unwrought, other:					
China			220	376,000	
Germany	228	344,000	2,440	4,670,000	
Spain	183	745,000	2,340	5,680,000	
South Africa	160	319,000	977	1,870,000	
Total	571	1,410,000	5,980	12,600,000	
Other manganese, wrought:					
Austria			1	53,300	
Canada	1	12,400	1	12,400	
China	20	33,900	320	523,000	
France			22	223,000	
Germany			4	42,300	
Mexico	5	8,980	5	8,980	
Spain	8	17,200	75	162,000	
United Kingdom			2	7,070	
Total	34	72,500	430	1,030,000	
Grand total	1,200	2,550,000	23,900	42,500,000	

-- Zero.

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

²Includes revisions to previous months' data.

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.

Note: Imports for consumption of metallic manganese waste and scrap totaled 109 tons, all of which was from Canada, to give a year-to-date total of 513 tons.

TABLE 7

U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN SEPTEMBER 2005¹

(Metric tons, gross weight)

			Ferrom	anganese,				
	Manganese ore			r less C	Silicon	anganese	Mangane	ese metal ²
	September	Year to date	September	Year to date	September	Year to date	September	Year to date
Australia						3		7
Belgium							180	914
Brazil						11		19
Canada	189	2,620	560	7,350		280	4	241
Chile		4		1			5	5
China	902	5,580						
Colombia		6						
Denmark		17						
France						101		
Germany	17	137					32	276
Hong Kong			7	7			1	3
Indonesia	2	39				22		5
Italy								4
Japan							25	420
Korea, Republic of		34						27
Kuwait		83						
Mexico		101	15	684	2	319	2	180
Netherlands				2		22		
New Zealand		1						
Peru								5
Poland		193						
Russia		21						
Spain						8		10
Sweden	18	94						95
Taiwan								(3)
Trinidad and Tobago								1
Venezuela								4
Total	1,130	8,930	581	8,040	2	767	248	2,230

-- 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 254 tons, 25 tons went to Canada and 229 tons went to Mexico, to give a year-to-date total of 707 tons.

 TABLE 8

 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 2005, BY CLASS¹

					Year to date		
			Principal sources and destinations:			Principal sources and destinations:	
	Gross weight	Value ²	gross weight (metric tons);	Gross weight	Value ²	gross weight (metric tons);	
Class	(metric tons)	(thousands)	value ² (thousands)	(metric tons)	(thousands)	value ² (thousands)	
Imports for consumption:							
Manganese oxides other than dioxide	462	\$376	Mexico 299; \$131	3,790	\$2,430	Mexico 1,890; \$781	
Manganites, manganates, and							
other permanganates				38	123	Germany 38; \$123	
Potassium permanganate	73	156	Czech Republic 73; \$154	748	1,570	Czech Republic 505; \$1,070	
Sodium permanganate ³				269	649	Germany 135; \$476	
Sulfates, basket category,							
including manganese sulfate	4,680	2,470	Mexico 2,970; \$1,460	33,700	19,800	Mexico 17,500; \$9,160	
Exports:							
Manganese dioxide	468	444	Canada 208; \$97	4,350	3,560	Canada 2,610; \$1,180	
Manganese oxides other than dioxide	1,260	887	Canada 1,040; \$367	8,780	5,900	Canada 6,340; \$2,320	
Manganites, manganates, and							
other permanganates	2	4	Canada 2; \$4	77	182	Canada 35; \$77	
Potassium permanganate	171	392	Australia 48; \$112	4,290	6,100	Spain 1,270; \$2,420	
Sodium permanganate ³	29	116	Hong Kong 13; \$34	469	1,320	Japan 290; \$804	
Sulfates, basket category,							
including manganese sulfate	2,600	1,300	Canada 2,170; \$782	17,700	11,800	Canada 14,900; \$6,450	

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, Customs value; for exports, free alongside ship value.

³In December 2004, the U.S. Harmonized Tariff Schedule was changed for manganites, manganates and permangantes to implement the United States-Australia Free Trade Agreement. Starting in 2005, sodium permanganate is tracked separately from the "manganites, manganates, and other permanganates" trade category.