

Mineral Industry Surveys

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MANGANESE IN FEBRUARY 2005

On a 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 February 2005, which was a 2% decrease from that of January 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 2003 data. Corresponding industry stocks of ore at the end of the month were 138,000 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.)

Foreign trade data for February will appear in a subsequent report. The following comparisons of trade data were made on the basis of manganese content. The data for January 2005 tabulated in this report indicate that the total exports of 1,120 t decreased by 95% from those of the prior month, owing to significant decreases in manganese ore, ferromanganese, and metal exports. Manganese imports were 52,600 t, which was a decrease of 35% compared with those of December. The decrease in manganese imports was based on significant decreases in manganese ore and ferroalloy 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)
February 3	880.00-820.00	75.00-79.00	36.00-37.00	95.00-100.00
February 10	760.00-810.00	75.00-79.00	36.00-37.00	95.00-100.00
February 17	760.00-810.00	75.00-79.00	36.00-37.00	95.00-100.00
February 24	710.00-760.00	72.00-75.00	36.00-37.00	95.00-100.00

Ore Prices, dollar per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
February 3	3.00-3.50	4.00-4.50
February 10	3.00-3.50	4.00-4.50
February 17	3.00-3.50	4.00-4.50
February 24	3.20-3.60	4.10-4.50

Source: Platts Metals Week, dealer import price.

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

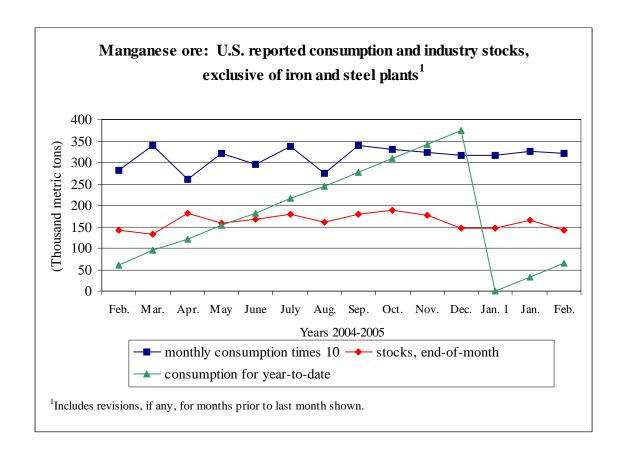
³To determine dollars per metric ton multiply the manganese content percentage by the price.

 $\label{eq:table 1} \textbf{TABLE 1}$ SELECTED U.S. FOREIGN TRADE IN MANGANESE 1

(Metric tons, manganese content)²

	Impoi	Imports for consumption		Exports		
	Ore and	Ore and Ferroalloy		Ferroalloy		
	dioxide	and metal	Total	Ore	and metal	Total
2004, January	13,100	37,500	50,600	653	796	1,450
2005, January	7,650 ³	45,000 ³	52,600	162	955	1,120

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.

TABLE 2 $\mbox{U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE} \\ \mbox{IN JANUARY } 2005^1$

(Metric tons)

	Gross	Mn	Customs
Source	weight	content	value ²
Australia	3,010	2,010	\$3,020,000
Korea, Republic of	216	156 ³	305,000
Mexico	1,300	849	930,000
Norway	3,000	1,800	3,670,000
Russia	9,840	6,710	8,130,000
South Africa	11,600	7,700	9,880,000
Total	28,900	19,200	25,900,000
Total, general imports	28,900	19,200	25,900,000

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

² Customs 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.

${\it TABLE~3} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE} \\ {\it IN~JANUARY~2005}^1$

(Metric tons)

	Gross	Mn	Customs
Source	weight	content	value ²
Low carbon:			
China	2,520	2,200	\$4,290,000
Mexico	220	177	236,000
South Africa	120	111	198,000
Total, low carbon	2,860	2,490	4,720,000
Total, general imports			
of low carbon	2,860	2,490	4,720,000
Medium carbon, 1%-2% C:			
China	1,850	1,450	2,600,000
Mexico	1,240	986	1,210,000
South Africa	3,860	3,120	5,420,000
Total, m.c., 1%-2% C	6,950	5,560	9,230,000
Total, general imports			
of medium carbon	6,950	5,560	9,230,000
High carbon:			
Australia	1,000	774	897,000
China	1,500	1,150	1,620,000
France		2 3	3,980
Hong Kong	300	228	213,000
Mexico	250	196	234,000
South Africa	16,100	12,400	13,800,000
Total, high carbon	19,100	14,800	16,700,000
Total, general imports			
of high carbon	19,100	14,800	16,700,000
Grand total	28,900	22,800	30,700,000
Grand total, general imports	28,900	22,800	30,700,000

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

² Customs 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 4 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JANUARY $2005^{1,2}$

(Metric tons, unless otherwise specified)

	Gross	Mn	Customs
Source	weight	content	value ³
More than 20%, but less than 47% manganese, Mexico	2,910	2,150	\$320,000
47% or more manganese:			
Australia	8,180	4,310	1,130,000
France	60	56 ⁴	6,670
Total	8,240	4,370	1,140,000
Grand total	11,200	6,510	1,460,000

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

Source: U.S. Census Bureau.

TABLE 5 $\mbox{U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE } \mbox{IN JANUARY 2005}^1$

(Metric tons, gross weight)

	Mangai	Manganese dioxide		
Source	Quantity	Customs value ²		
Australia	310	\$403,000		
Belgium	18	27,300		
Brazil	18	29,900		
China	1,520	1,550,000		
Germany	- 6	31,500		
Japan	18	30,200		
Total	1,890	2,070,000		
Total, general imports	1,890	2,070,000		

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

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.

 $^{^4}$ All or part of these data have been referred to the U.S. Census Bureau for verification. Reported content is likely that of MnO₂ rather than Mn.

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.

${\bf TABLE~6} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~MANGANESE~METAL} \\ {\bf IN~JANUARY~2005}^1$

(Metric tons)

	Gross	Customs
Source	weight	value ³
Unwrought flake:		
China	902	\$1,430,000
South Africa	689	1,070,000
Total	1,590	2,500,000
Unwrought powder, South Africa	396	670,000
Unwrought, other:		
China		40,200
Germany	178	384,000
South Africa	277	474,000
Spain	374	820,000
Total	849	1,720,000
Other manganese, wrought:		
China	20	29,600
France	3	24,200
Germany	4	42,300
Spain	37	77,600
United Kingdom	(2)	7,070
Total	64	181,000
Grand total	2,900	5,070,000

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

Note: Imports for consumption of metallic manganese waste and scrap totaled 76 tons, all of which was from Canada.

²Less than 1/2 unit.

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.

 $TABLE\ 7$ U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JANUARY 2005 1

(Metric tons, gross weight)

		Ferromanganese,		
	Manganese ore	2% or less C	Silicomanganese	Manganese metal ²
Australia				2
Belgium				48
Canada	210	614	19	41
China	 76			
France			60	
Germany				17
Hong Kong				(3)
Japan				24
Mexico		235	8	56
Netherlands	-		20	
Sweden				
Total	324	849	107	186

⁻⁻ Zero.

Note: Exports of ferromanganese with more than 2% carbon totaled 32 tons, all of which went to Canada.

Source: U.S. Census Bureau.

 ${\bf TABLE~8}$ U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JANUARY 2005, BY CLASS 1

	Gross weight	Value ²	Principal sources and destinations: gross weight (metric tons);
Class	(metric tons)	(thousands)	value ² (thousands)
Imports for consumption:			
Manganese oxides other than dioxide	646	178	Mexico 226; \$91
Manganites, manganates, and			
other permanganates			
Potassium permanganate	100	198	India 54; \$107
Sodium permanganate ³			
Sulfates, basket category,			
including manganese sulfate	6,450	3,400	Mexico 3,640; \$1,750
Exports:			
Manganese dioxide	342	280	Canada 223; \$101
Manganese oxides other than dioxide	657	407	Canada 425; \$184
Manganites, manganates, and			
other permanganates	16	40	Japan 15; \$37
Potassium permanganate	284	453	Spain 193; \$325
Sodium permanganate ³			
Sulfates, basket category,			
including manganese sulfate	1,650	1,250	Canada 1,390; \$615

⁻⁻ 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.

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.