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Mineral Industry Surveys

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MANGANESE IN JULY 2001

In July, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 31,400 metric tons (t), which was an increase of about 5% compared with that for the previous month, according to the U.S. Geological Survey. This brought the revised year-to-date total to 200,000 t. The figures for July increase to 35,800 t and 219,000 t, respectively, when estimates for annual respondents are added on the basis of 2000 data. Corresponding industry stocks of ore at the end of the month were estimated as 234,000 t, which includes an estimate for annual respondents on the basis of 2000 data. This was only slightly less than the corresponding figure for stocks at the end of June. (Data for the most recent 13 months are plotted in the graph on page 2.)

This report contains data on domestic consumption and stocks of manganese ferroalloys and metal for 2000 (table 8). As noted in the manganese annual review for 2000, the data in this table are more representative of relative rather than absolute quantities.

Foreign trade data for July will appear in a subsequent report. Data for June are tabulated in this report. **Note:** For early availability, the trade data appearing in this report were placed on MINES FaxBack in preliminary form as of August 24. The FaxBack document number for the preliminary July trade data will be 420207.

The Defense National Stockpile Center of the Defense Logistics Agency, U.S. Department of Defense, reported no cash disposals of manganese materials from the National Defense Stockpile in July. This was the second consecutive month that no disposals were reported.

Update

The international benchmark price of metallurgical-grade ore with a manganese content of 48% was increased by 4% when negotiations between Samancor Ltd. and major Japanese consumers were concluded in late June. This increase was for the price of high-grade lumpy ore from the Groote Eylandt Mine in Australia for delivery during the Japanese 2001 fiscal year that began April 1. This amount of increase appeared to be applicable also to ore from South Africa (TEX Report, 2001). When this amount of increase is applied to prices agreed upon for delivery during the Japanese 2000 fiscal year, the prices per metric ton unit, f.o.b., increase from $2.03 to $2.11 for Australian ore and from $1.94 to $2.02 for South African ore (CRU Bulk Ferroalloys Monitor, 2001).

References Cited

CRU Bulk Ferroalloys Monitor, 2001, Manganese—SiMn prices firming in the East: CRU Bulk Ferroalloys Monitor, August 29, p. 10.

TEX Report, 2001, Mn-ore price for FY 2001 shipment was boiled down by end of last week: TEX Report, June 25, p. 4.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2000:						
June	21,400	60,700	82,100	398	484	882
January-June	105,000	266,000	371,000	1,600	5,300	6,900
2001:						
January	23,400 3/	35,100	58,400	185	1,830	2,020
February	11,900	25,400	37,300	723 3/	383	1,110
March	24,600 3/	24,300 3/	48,900	425	645	1,070
April	23,100	34,800	57,900	138	630	768
May	28,600 3/	45,700	74,300	267	967	1,230
June	11,100	32,000	43,100	200	655	855
Total	123,000	197,000	320,000	1,940	5,110	7,050

1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.
3/ All 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 JUNE 2001 1/

(Metric tons, unless otherwise specified)

				Year to date		
Source	Gross weight	Mn content	Customs value	Gross weight	Mn content	Customs value
Australia	8,430	5,600	$3,460,000	28,100	18,700	$10,900,000
Canada	74	56	18,000	167	117	38,500
India	--	--	--	33,500	21,600	13,300,000
Kazakhstan	8,350	5,690	3,890,000	26,300	17,900	11,200,000
Lithuania	--	--	--	4,000	2,710	1,720,000
Mexico	--	--	--	8,220	5,380	3,850,000
Norway	--	--	--	8,400	5,100	4,850,000
South Africa	4,250	3,500	2,000,000	39,400	27,100	15,200,000
Spain	--	--	--	600	371	407,000
Venezuela	1,500	960	615,000	1,500	960	615,000
Total	22,600	15,800	9,990,000	150,000	99,800	62,100,000
Total, general imports	22,600	15,800	9,990,000	150,000	99,800	62,100,000

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

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JUNE 2001 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date Gross weight	Year to date Mn content	Year to date Customs value
Low carbon:						
Canada	--	--	--	36	29	$19,400
China	--	--	--	685	625	697,000
Italy	--	--	--	735	622	670,000
Japan	--	--	--	1	31	22,100
Mexico	490	392	$343,000	1,710	1,370	1,280,000
Netherlands	--	--	--	21	17	18,700
Norway	--	--	--	1,250	1,010	1,050,000
South Africa	340	317	409,000	2,890	2,530	2,870,000
Total, low carbon	830	709	752,000	7,320	6,240	6,620,000
Total, general imports of low carbon	830	709	752,000	7,320	6,240	6,620,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	20	15	20,700
China	--	--	--	2,240	1,790	1,360,000
France	39	31	22,700	39	31	22,700
Germany	--	--	--	11	8	6,090
Mexico	1,450	1,160	1,020,000	7,830	6,290	5,500,000
Norway	--	--	--	1,030	839	557,000
South Africa	2,600	2,110	1,340,000	12,900	10,400	8,420,000
Spain	--	--	--	700	568	536,000
Total, m.c., 1%-2% C	4,090	3,300	2,380,000	24,700	20,000	16,400,000
Total, general imports of m.c., 1%-2% C	4,090	3,300	2,380,000	24,700	20,000	16,400,000
High carbon:						
Australia	3,620	2,780	1,170,000	18,500	14,200	6,680,000
Brazil	--	--	--	3,980	3,070	1,470,000
Canada	--	--	--	17	13	9,600
France	--	--	--	17,500	13,900	7,560,000
Germany	--	--	--	9	7	3,060
India	--	--	--	3,480	2,640	1,320,000
South Africa	10,300	8,040	3,630,000	35,100	27,300	13,000,000
Total, high carbon	13,900	10,800	4,800,000	78,600	61,200	30,100,000
Total, general imports of high carbon	13,900	10,800	4,800,000	78,600	61,200	30,100,000
Grand total	18,800	14,800	7,930,000	111,000	87,400	53,100,000
Grand total, general imports	18,800	14,800	7,930,000	111,000	87,400	53,100,000

-- Zero.

1/ Data 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 JUNE 2001 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
Australia	--	--	18,000	9,440	18,000	9,440
Mexico	1,370	506	--	--	1,370	506
Total	1,370	506	18,000	9,440	19,400	9,940
Year to date:						
Australia	--	--	18,000	9,440	18,000	9,440
Brazil	7,700	3,460	--	--	7,700	3,460
Gabon	14,300	6,310	121,000	76,000	136,000	82,300
Mexico	3,050	1,150	--	--	3,050	1,150
Morocco	--	--	20	11	20	11
South Africa	11,600	4,160	26,600	12,500	38,100	16,700
Total	36,600	15,100	166,000	97,900	203,000	113,000

-- Zero.
1/ Quantities for general imports and imports for consumption are identical.
2/ Data 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 AND MANGANESE METAL IN JUNE 2001 1/

(Metric tons, gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal			
			Year to date		Unwrought		Other	
	Quantity	Customs value	Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	343	$489,000	8,370	$13,200,000	--	--	--	2
Belgium	73	137,000	309	469,000	--	--	--	--
Canada	--	--	--	--	--	--	--	1
China	108	106,000	633	618,000	180	1,420	--	54
France	--	--	--	--	--	--	2	19
Germany	--	--	40	144,000	150	983	--	18
Greece	--	--	563	728,000	--	--	--	--
India	--	--	1	3,130	--	--	19	188
Ireland	557	749,000	3,270	4,490,000	--	--	--	--
Japan	18	66,900	262	538,000	--	--	3	6
Malaysia	--	--	--	--	--	--	--	5
Mexico	--	--	--	--	--	--	--	69
Morocco	--	--	1	2,530	--	--	--	--
Netherlands	--	--	--	--	--	--	--	24
Russia	--	--	--	--	--	--	--	385
South Africa	796	1,100,000	2,550	3,580,000	849	6,210	--	--
Spain	--	--	--	--	95	291	--	--
United Kingdom	--	--	6	11,000	80	149	(2/)	(2/)
Total	1,900	2,650,000	16,000	23,800,000	1,360	9,050	24	771
Total, general imports	1,900	2,650,000	16,000	23,800,000	1,360	8,980	24	831

-- Zero.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 49 tons, all of which was from Canada, to give a year-to-date total of 512 tons.

Source: U.S. Census Bureau.

TABLE 6
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2001 1/

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal 2/	
	June	Year to date	June	Year to date	June	Year to date	June	Year to date
Australia	--	74	--	--	--	5	--	2
Belgium	--	--	--	--	--	--	36	56
Brazil	--	46	--	--	--	15	--	--
Canada	307	1,560	203	1,040	--	158	1	25
Chile	--	3	--	--	--	--	6	6
Finland	--	--	--	--	--	--	18	36
France	--	--	--	--	--	4	--	29
Germany	--	395	--	--	--	--	2	60
Hong Kong	--	21	--	--	--	--	--	1
Ireland	--	137	--	--	--	--	--	--
Italy	19	144	--	--	--	--	--	1
Japan	--	--	21	21	--	--	60	218
Korea, Republic of	--	--	--	--	--	--	5	10
Mexico	30	30	--	116	7	2,340	36	138
Netherlands	--	--	--	--	11	29	--	199
Norway	--	139	--	--	--	--	--	--
Saudi Arabia	16	21	--	--	--	--	--	--
Singapore	--	--	--	4	--	--	--	--
Spain	--	--	--	--	--	8	--	--
Sweden	--	38	--	--	--	--	--	54
Switzerland	--	34	--	--	--	--	--	--
Taiwan	27	80	--	--	--	--	--	--
United Kingdom	--	1,140	--	--	--	--	--	--
Venezuela	--	16	--	--	--	--	--	--
Total	399	3,880	223	1,180	19	2,560	164	835

-- Zero.

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

2/ Includes manganese-aluminum, some other alloys, and waste and scrap.

Note: Exports of ferromanganese with more than 2% carbon totaled 383 tons, of which 361 tons went to Canada and 21 tons went to Mexico, to give a year-to-date total of 2,090 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 2001, BY CLASS 1/

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)	Year to date: Value 2/ (thousands)	Year to date: Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	214	$104	Mexico 185; $55	584	$747	South Africa 243; $414
Sulfates, basket category, including manganese sulfate	993	679	China 348; $262	16,000	9,360	Mexico 6,460; $3,420
Potassium permanganate	157	308	Czech Republic 107; $209	876	1,700	Czech Republic 454; $896
Manganites, manganates, and other permanganates	19	19	China 19; $19	52	165	China 34; $35
Exports:						
Manganese dioxide	393	460	Canada 145; $55	2,310	2,970	Canada 998; $405
Manganese oxides other than dioxide	585	972	Canada 167; $64	3,630	4,390	Canada 1,410; $557
Sulfates, basket category, including manganese sulfate	2,480	1,020	Canada 1,920; $480	14,500	7,660	Canada 11,400; $2,820
Potassium permanganate	46	186	Canada 25; $46	744	1,600	Spain 365; $668
Manganites, manganates, and other permanganates	25	275	Mexico 20; $256	231	1,550	Mexico 81; $778

1/ Data are rounded to no more than three significant digits.
2/ For imports, Customs value; for exports, f.a.s. value.

Source: U.S. Census Bureau.

TABLE 8
U.S. CONSUMPTION, BY END USE, AND INDUSTRY STOCKS OF MANGANESE FERROALLOYS AND METAL IN 2000 1/

(Metric tons, gross weight)

End use	Ferromanganese			Silico-manganese	Manganese metal
	High carbon	Medium and low carbon	Total		
Steel:					
Carbon	125,000	101,000	225,000	74,600	1,340
High-strength, low-alloy	22,700	4,120	26,800	4,930	(2/)
Stainless and heat-resisting	13,700	(2/)	13,700	6,350	1,530
Full alloy	15,500	6,610	22,100	19,600	(2/)
Unspecified 3/	299	332	631	275	195
Total	177,000	112,000	289,000	106,000	3,060
Cast irons	8,660	503	9,160	1,340	5
Superalloys	W	W	W	--	W
Alloys (excluding alloy steels and superalloys)	1,570	629	2,200	(4/)	18,300 5/
Miscellaneous and unspecified	--	W	W	(4/)	W
Total consumption	187,000	113,000	300,000	107,000 6/	21,400
Total manganese content 7/	146,000	90,200	236,000	70,700	21,400
Stocks, December 31, consumers and producers	11,300	20,200	31,500	10,700	4,750

W Withheld to avoid disclosing company proprietary data; included with "Alloys (excluding alloy steels and superalloys)." -- Zero.
1/ Data are rounded to no more than three significant digits; may not add to totals shown.
2/ Withheld to avoid disclosing company proprietary data; included with "Steel: Unspecified."
3/ Includes electrical and tool steel, and items indicated by (2/).
4/ Withheld to avoid disclosing company proprietary data.
5/ Approximately 85% of this combined total was for consumption in aluminum alloys.
6/ Internal evaluation indicates that silicomanganese consumption is considerably understated.
7/ Estimated based on typical percent manganese content.