

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2001

In October, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 35,400 metric tons (t), which was an increase of about 7% compared with that for the previous month, according to the U.S. Geological Survey. This month's consumption continued a generally increasing trend that has persisted throughout the year, and brought the year-to-date total to 303,000 t. The figures for October increase to 37,800 t and 329,000 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 150,000 t, which includes an estimate for annual respondents on the basis of 2000 data. This was another decrease of about 15% compared with the corresponding figure for stocks at the end of September.

Data for domestic consumption and stocks of manganese ferroalloys and metal will appear in a subsequent monthly report.

Foreign trade data for October will appear in a subsequent report. The data for September tabulated in this report indicate that the number of manganese units imported as ore was the least since May 2000. Medium-carbon ferromanganese imports increased for the second consecutive month. **Note:** For early availability, the trade data appearing in this report were placed on MINES FaxBack in preliminary form as of November 27. The FaxBack document number for the preliminary October trade data will be 420210.

Data on stockpile disposals in October from the Defense

National Stockpile Center (DNSC) of the Defense Logistics Agency, U.S. Department of Defense, were not available at the time this report was prepared, and will be given in a later report.

The DNSC's Annual Materials Plan (AMP) for fiscal year 2002, which specifies the maximum annual quantities of stockpile materials eligible for disposal, became effective October 1, the beginning of the fiscal year. Under this AMP, the quantities for manganese materials were 27,216 t for natural battery-grade ore, 2,732 t for synthetic manganese dioxide, 36,287 t for chemical-grade ore, 226,796 t for metallurgical-grade ore, 68,039 t for the manganese ferro group, and 1,814 t for electrolytic manganese metal. These quantities were the same as in the revised AMP for fiscal year 2001 that became effective April 9, 2001, at which time the quantity for the manganese ferro group was increased from 45,359 t to 68,039 t.

On October 25, the DNSC issued amendment number 2 to Solicitation of Offers DLA-ELECTROLYTIC MANGANESE METAL-001. This amendment revised the solicitation originally issued May 1, 1997, so as to update the material available for sale in fiscal year 2002. This material consists of 1,568 t of electrolytic metal that had been manufactured between 1964 and 1968, all of which is located at Gadsden, AL. The amendment also specified requirements to be met by any purchaser intending to export material obtained via this solicitation. **Later action:** On November 7, the DNSC issued amendment number 3 to this solicitation restating when title to material would pass to a purchaser.

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:						
September	24,900	53,500	78,300	168	1,040	1,210
January-September	211,000	417,000	628,000	2,440	7,820	10,300
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
July	30,600	35,600 3/	66,200	349	635	984
August	22,300 3/	45,800	68,100	1,040	713	1,750
September	2,520	38,900	41,400	215	740	954
Total	178,000	318,000	496,000	3,540	7,200	10,700

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 SEPTEMBER 2001 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	2,550	1,700	\$1,190,000	38,400	25,400	\$15,400,000
Canada	54	36	16,400	298	197	72,900
Germany	7	4	2,320	7	4	2,320
India	--	--	--	38,600	24,800	15,300,000
Japan	--	--	--	10	46	23,800
Kazakhstan	--	--	--	32,300	22,100	13,700,000
Lithuania	--	--	--	4,000	2,710	1,720,000
Mexico	1,850	1,200	923,000	10,200	6,660	4,830,000
Norway	--	--	--	8,400	5,100	4,850,000
Romania	--	--	--	6,820	4,470	3,250,000
South Africa	12,700	8,490	5,400,000	68,900	46,900	27,500,000
Spain	2,800	1,840	1,290,000	3,400	2,210	1,700,000
Venezuela	--	--	--	1,500	960	615,000
Total	20,000	13,300	8,830,000	213,000	142,000	89,100,000
Total, general imports	20,000	13,300	8,830,000	213,000	142,000	89,100,000

-- 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 SEPTEMBER 2001 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
Canada	--	--	--	36	29	\$19,400
China	--	--	--	1,310	1,360	1,380,000
Italy	192	163	\$171,000	1,620	1,390	1,440,000
Japan	--	--	--	1	31	22,100
Mexico	--	--	--	2,010	1,610	1,490,000
Netherlands	--	--	--	21	17	18,700
Norway	38	31	32,900	1,290	1,040	1,080,000
South Africa	360	335	447,000	5,400	4,700	4,990,000
Total, low carbon	590	529	652,000	11,700	10,200	10,400,000
Total, general imports of low carbon	590	529	652,000	11,700	10,200	10,400,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	20	15	20,700
China	--	--	--	3,800	3,040	2,260,000
France	--	--	--	39	31	22,700
Germany	--	--	--	11	8	6,090
Mexico	3,470	2,810	2,220,000	13,500	10,900	9,180,000
Norway	--	--	--	2,110	1,730	1,110,000
South Africa	4,490	3,600	2,340,000	22,900	18,500	13,900,000
Spain	--	--	--	700	568	536,000
Total, m.c., 1%-2% C	7,960	6,400	4,560,000	43,100	34,800	27,000,000
Total, general imports of m.c., 1%-2% C	7,960	6,400	4,560,000	43,100	34,800	27,000,000
Medium carbon, 1%-2% C:						
Ukraine	--	--	--	1,360	1,020	538,000
High carbon:						
Australia	1,510	1,150	551,000	22,000	16,900	7,950,000
Brazil	70	54	25,700	4,050	3,120	1,500,000
Canada	--	--	--	99	75	54,800
France	--	--	--	39,500	31,200	15,800,000
Germany	--	--	--	9	7	3,060
India	--	--	--	3,480	2,640	1,320,000
South Africa	18,600	14,300	6,340,000	76,000	59,000	27,200,000
Spain	1,470	1,110	573,000	1,470	1,110	573,000
Total, high carbon	21,600	16,600	7,490,000	147,000	114,000	54,400,000
Total, general imports of high carbon	21,600	16,600	7,490,000	147,000	114,000	54,400,000
Grand total	30,200	23,500	12,700,000	203,000	160,000	92,400,000
Grand total, general imports	30,200	23,500	12,700,000	203,000	160,000	92,400,000

-- 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 SEPTEMBER 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
South Africa	--	--	1,310	748	1,310	748
Year to date:						
Australia	--	--	18,000	9,440	18,000	9,440
Brazil	7,700	3,460	--	--	7,700	3,460
China	--	--	20	20	20	20
Gabon	14,300	6,310	204,000	124,000	219,000	130,000
Mexico	4,520	1,720	--	--	4,520	1,720
Morocco	--	--	40	21	40	21
South Africa	11,600	4,160	27,900	13,200	39,500	17,400
Total	38,100	15,700	250,000	146,000	288,000	162,000

-- 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 SEPTEMBER 2001 1/

(Metric tons, gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal			
	Quantity	Customs value	Year to date		Unwrought		Other	
			Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	2,060	\$2,970,000	14,500	\$21,900,000	--	--	--	15
Belgium	73	123,000	400	635,000	--	--	--	--
Canada	--	--	--	--	--	--	--	2
China	162	165,000	1,030	1,020,000	929	3,270	--	86
France	(2/)	7,120	(2/)	7,120	--	--	8	42
Germany	--	--	48	187,000	228	1,660	8	26
Greece	--	--	563	728,000	--	--	--	--
India	--	--	1	3,130	--	--	--	282
Ireland	612	822,000	5,380	7,320,000	--	--	--	--
Japan	--	--	297	672,000	--	--	--	6
Malaysia	--	--	--	--	--	--	--	5
Mexico	--	--	--	--	--	--	14	83
Morocco	--	--	1	2,530	--	--	--	--
Netherlands	--	--	--	--	--	--	--	42
Russia	--	--	--	--	--	--	--	385
South Africa	41	64,300	4,270	5,970,000	787	9,110	--	--
Spain	--	--	--	--	82	551	--	--
United Kingdom	--	--	6	11,000	--	149	(2/)	(2/)
Total	2,940	4,150,000	26,500	38,400,000	2,030	14,700	30	973
Total, general imports	2,940	4,150,000	26,400	38,400,000	2,030	14,700	30	1,010

-- 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 66 tons, all of which was from Canada, to give a year-to-date total of 663 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/	
	September	Year to date	September	Year to date	September	Year to date	September	Year to date
Australia	--	89	--	--	--	21	--	2
Barbados	--	21	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	--	56
Brazil	--	69	--	--	--	15	--	--
Canada	192	3,390	168	1,850	204	538	19	45
Chad	--	--	--	--	--	--	--	1
Chile	--	3	--	--	--	--	--	6
Finland	--	--	--	--	--	--	--	36
France	--	--	--	--	4	8	--	29
Germany	39	453	--	--	--	--	3	63
Hong Kong	--	21	--	--	--	--	--	1
Ireland	--	137	--	--	2	2	--	--
Israel	--	233	--	--	--	--	--	--
Italy	--	486	--	--	--	--	--	8
Japan	--	--	--	21	--	--	95	460
Korea, Republic of	--	--	--	--	--	--	1	12
Mexico	--	76	1	150	40	2,420	16	186
Netherlands	--	86	--	--	--	37	--	199
Norway	180	319	--	--	--	--	--	--
Saudi Arabia	--	21	--	--	--	--	--	--
Singapore	--	--	--	4	--	--	--	--
Spain	--	--	--	--	--	8	--	--
Sweden	19	262	--	--	--	--	18	71
Switzerland	--	48	--	--	--	--	--	--
Taiwan	--	80	--	--	--	--	--	16
United Kingdom	--	1,270	--	--	--	--	--	--
Venezuela	--	16	--	--	--	--	--	--
Total	429	7,080	169	2,030	250	3,050	151	1,190

-- 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 368 tons, of which 357 tons went to Canada and 11 tons went to Colombia, to give a year-to-date total of 3,030 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 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)	Value 2/ (thousands)	Principal sources and destinations: gross weight (metric tons); value 2/ (thousands)
<u>Imports for consumption:</u>						
Manganese oxides other than dioxide	115	\$81	Mexico 60; \$17	1,120	\$1,160	Mexico 572; \$165
Sulfates, basket category, including manganese sulfate	3,720	2,520	Mexico 2,610; \$1,310	25,000	14,600	Mexico 9,970; \$5,250
Potassium permanganate	138	280	Czech Republic 84; \$172	1,290	2,520	Czech Republic 686; \$1,350
Manganites, manganates, and other permanganates	--	--	--	69	280	China 34; \$35
<u>Exports:</u>						
Manganese dioxide	262	426	Germany 77; \$112	3,330	5,160	Canada 1,320; \$512
Manganese oxides other than dioxide	304	266	Canada 137; \$53	4,940	5,660	Canada 1,920; \$761
Sulfates, basket category, including manganese sulfate	1,830	1,480	Canada 1,600; \$409	20,800	14,100	Canada 16,700; \$4,130
Potassium permanganate	56	171	Canada 28; \$54	897	2,010	Spain 365; \$668
Manganites, manganates, and other permanganates	50	351	Japan 25; \$195	356	2,180	Japan 87; \$608

-- Zero.

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.