

Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2007

Preliminary data (gross weight) for September 2007 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 9,730 metric tons (t), according to the U.S. Geological Survey. This was the same as that in August 2007. Corresponding industry stocks of ore at the end of the month were 135,000 t, which was a 43% increase from those at the end of August 2007. These data include estimates for annual respondents on the basis of 2006 data.

Domestic consumption of manganese ore during the third quarter of 2007 was 45,300 t, which was a 50% decrease from that during the second quarter of 2007, and a 47% decrease from the third quarter of 2006. Domestic consumption during the first 9 months of 2007 was 213,000 t, which was 18% lower than the consumption for the first 9 months of 2006.

U.S. trade data for August 2007 are published in this issue.

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)
September 6	1,590.00-1,630.00	100.00-105.00	83.00-90.00	240.00-260.00
September 1	3 1,590.00-1,630.00	95.00-105.00	83.00-90.00	240.00-260.00
September 2	0 1,590.00-1,630.00	95.00-110.00	83.00-90.00	240.00-260.00
September 2	7 1,600.00-1,650.00	100.00-120.00	83.00-90.00	210.00-240.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
September 6	7.10-7.30	7.40-7.80
September 13	7.10-7.30	7.70-7.80
September 20	7.40-7.60	7.70-7.80
September 27	7.40-7.60	7.70-8.00

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.

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

(Metric tons, manganese content)²

	Imj	ports for consumption	on		Exports	
	Ore and	Ferroalloy			Ferroalloy	
	dioxide	and metal	Total	Ore	and metal	Total
2006:						
August	5,710	54,400	60,100	36	838	874
January-August	162,000	358,000	520,000	492	18,600	19,100
2007:						
January	24,500	40,300	64,800	77	1,180	1,250
February	48,500	35,700	84,200	144	7,350	7,500
March	20,300	36,000	56,400	29	694	724
April	15,600	44,800	60,400	57	1,030	1,090
May	37,200	66,500	104,000	93	6,110	6,200
June	26,000	47,200	73,300	163	4,250	4,410
July	25,600	30,000	55,700	93	1,830	1,930
August	44,300	66,100	110,000	95	836	931
Total	242,000	367,000	609,000	751	23,300	24,000

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

Source: U.S. Census Bureau.

 ${\bf TABLE~2}$ U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN AUGUST $2007^{\rm l}$

(Metric tons)

					Year to date	
	Gross		Customs	Gross		Customs
Source	weight	Mn content	value ²	weight	Mn content	value ²
Australia	4,520	3,020	\$6,960,000	23,200	15,700	\$20,100,000
Canada				478	345	352,000
China				34	33	115,000
Georgia	17,700	13,100	26,400,000	38,500	28,200	46,700,000
Korea, Republic of	1,610	1,050	1,860,000	4,240	2,650	5,060,000
Macedonia				13,000	8,640	11,500,000
Mexico	1,040	678	892,000	10,000	6,580	7,770,000
Morocco				20	20	6,000
Netherlands				21	13	24,400
Norway	7,800	4,750	13,400,000	36,600	22,800	43,200,000
Romania	6,980	5,200	11,400,000	21,100	14,800	22,700,000
Russia	2,200	1,460	2,890,000	2,550	1,700	3,210,000
South Africa	9,700	6,450	15,600,000	111,000	73,800	97,600,000
Total	51,500	35,700	79,400,000	260,000	175,000	258,000,000

⁻⁻ Zero.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

¹Data 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.

 ${\bf TABLE~3} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~AUGUST~2007}^{1}$

(Metric tons)

					Year to date	
	Gross		Customs	Gross		Customs
Source	weight	Mn content	value ²	weight	Mn content	value ²
Low carbon:						
China	2,810	2,390	\$3,870,000	22,000	18,400	\$30,000,000
Japan				1,100	935	1,400,000
Korea, Republic of	200	162	620,000	2,200	1,760	2,850,000
Mexico	419	343	521,000	3,370	2,740	3,790,000
Norway				439	357	649,000
Russia				60	50	189,000
South Africa				5,400	4,410	4,990,000
Total	3,430	2,900	5,010,000	34,500	28,700	43,800,000
Medium carbon, 1%-2% C:						
China	2,770	2,220	1,300,000	8,950	7,180	7,870,000
Japan				1,700	1,450	1,990,000
Korea, Republic of				3,800	3,070	4,090,000
Mexico	436	356	524,000	4,710	3,780	4,350,000
South Africa	3,890	3,150	6,010,000	14,800	12,000	18,600,000
Spain				60	48	107,000
Turkey				20	20	38,000
Total	7,100	5,720	7,830,000	34,000	27,500	37,000,000
High carbon:						
Australia				503	384	312,000
Brazil				1,720	1,340	1,300,000
China	1,050	796	1,460,000	22,000	16,800	17,100,000
Egypt				1,470	1,100	1,440,000
France				1,300	1,050	970,000
Georgia				2,010	1,580	1,910,000
India	263	201	385,000	263	201	385,000
Mexico				20	16	29,900
Poland				778	595	1,090,000
Saudi Arabia	490 3	261 3	149,000	490	261	149,000
South Africa	22,400	17,400	26,800,000	110,000	85,100	93,100,000
Spain	1,250	950	1,830,000	1,250	950	1,830,000
Venezuela	290	226	406,000	1,040	715	909,000
Total	25,800	19,900	31,000,000	143,000	110,000	121,000,000
Grand total	36,300	28,500	43,800,000	211,000	166,000	201,000,000

⁻⁻ Zero.

¹Data 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 4 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN AUGUST 2007 $^{\!1,2}$

(Metric tons)

					Year to date	
	Gross		Customs	Gross		Customs
Source	weight	Mn content	value ³	weight	Mn content	value ³
More than 20%, but less than 47% manganese:						
Australia				27,500	12,500	\$2,940,000
China				31,500	7,830	1,060,000
Gabon				46,600	20,300	3,860,000
Mexico				3,110	1,120	367,000
South Africa	18,600	8,720	\$1,740,000	60,400	26,900	4,370,000
Total	18,600	8,720	1,740,000	169,000	68,600	12,600,000
47% or more manganese:						
Australia				43,000	22,500	6,300,000
Brazil	88	44	69,400	21,700	10,900	1,940,000
China	16	10	8,880	4,570	2,630	524,000
Gabon	47,200	25,700	4,690,000	161,000	96,500	16,800,000
Mexico				3,040	1,520	183,000
South Africa	18,500	8,950	1,920,000	54,200	26,700	5,190,000
Total	65,800	34,800	6,680,000	288,000	161,000	30,900,000
Grand total	84,400	43,500	8,420,000	457,000	229,000	43,500,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

 ${\it TABLE 5}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN AUGUST $2007^{\rm l}$

(Metric tons, gross weight)

			Year to date			
		Customs		Customs		
Source	Quantity	value ²	Quantity	value ²		
Australia	653	817,000	9,860	\$13,400,000		
Belgium	36	84,100	235	594,000		
Brazil			73	100,000		
China	629	644,000	7,370	7,670,000		
Colombia	10	16,700	54	39,600		
Germany			58	125,000		
Japan	23	43,600	3,180	4,360,000		
Mexico			347	577,000		
Singapore	7	12,000	61	82,400		
South Africa			1	3,200		
Total	1,360	1,620,000	21,200	26,900,000		

⁻⁻ Zero.

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

²Data 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.

 $^{^{1}\}mbox{Data}$ 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.

${\bf TABLE~6}$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN AUGUST $2007^{\rm l}$

(Metric tons)

			Year to date		
	Gross	Customs	Gross	Customs	
Source	weight	value ²	weight	value ²	
Unwrought flake:					
China	485	\$1,720,000	15,200	\$35,500,000	
Hong Kong			180	617,000	
South Africa	95	236,000	1,140	2,280,000	
Total	580	1,960,000	16,500	38,400,000	
Unwrought powder:					
China	396	1,690,000	1,740	4,830,000	
South Africa	333	627,000	3,050	5,580,000	
Total	729	2,320,000	4,790	10,400,000	
Unwrought, other:					
China	234	686,000	1,660	3,640,000	
Germany	189	777,000	838	2,420,000	
Russia	16	85,600	31	171,000	
Spain	25	42,300	110	177,000	
United Kingdom			11	51,900	
Total	464	1,590,000	2,650	6,460,000	
Other manganese, wrought:					
China			354	878,000	
France	4	67,900	36	529,000	
Japan			(3)	2,100	
Mexico	61	280,000	196	586,000	
Spain			50	127,000	
Taiwan			1	14,300	
United Kingdom	19	97,800	75	376,000	
Total	84	446,000	711	2,510,000	
Grand total	1,860	6,310,000	24,600	57,800,000	

⁻⁻ Zero.

Note: Imports for consumption of metallic waste and scrap totaled 112 metric tons, all of which was from Canada, to give a year-to-date total of 833 metric tons.

¹Data 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.

³Less than ½ unit.

$TABLE\ 7$ U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN AUGUST 2007 1

(Metric tons, gross weight)

			Ferrom	anganese,				
	Mang	anese ore	2% c	or less C	Silicomanganese		Manganese metal ²	
Country	August	Year to date	August	Year to date	August	Year to date	August	Year to date
Argentina								6
Australia					1	3	4	7
Belgium		8					19	513
Brazil								1
Canada	112	722	239	2,770	3	2,820	6	24
Chile								8
China	44	44					4	158
Colombia								138
Dominican Republic					32	32		
France								5
Germany	34	400					4	158
Hong Kong							14	230
India								114
Ireland				29				
Israel								8
Jamaica								(3)
Japan								394
Korea, Republic of		94						1
Malaysia		5					6	11
Mexico		20			38	224	46	63
South Africa								5
Sweden								26
Taiwan								65
United Kingdom				5				3
Venezuela								28
Vietnam		209					28	28
Total	191	1,500	239	2,800	74	3,070	130	1,990

⁻⁻ Zero.

Note: Exports of ferromanganese with more than 2% carbon totaled 593 metric tons, of which 567 metric tons went to Canada; 15 metric tons went to Malaysia; 11 metric tons went to Mexico; to give a year-to-date total of 21,570 metric tons.

¹Data 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 ½ unit.

 ${\it TABLE~8}$ U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN AUGUST 2007, BY ${\it CLAS}^1$

				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	557	\$314	South Africa 316; \$145	3,550	\$2,300	Mexico 2,150; \$968	
Manganites, manganates, and							
other permanganates							
Potassium permanganate	36	85	India 18; \$43	797	1,910	India 410; \$993	
Sodium permanganate			==	169	282	China 169; \$282	
Sulfates, basket category,							
including manganese sulfate	3,330	2,080	China 2,190; \$1,220	28,500	14,700	China 14,890; \$6,520	
Exports:							
Manganese dioxide	711	527	Canada 455; \$248	5,930	5,630	Canada 2,930; \$1,580	
Manganese oxides other than dioxide	1,820	1,140	Canada 1,550; \$590	11,000	7,450	Canada 7,720; \$3,010	
Manganites, manganates, and							
other permanganates	7	19	Canada 7; \$19	58	146	Canada 49; \$118	
Potassium permanganate	330	689	Belgium 205; \$362	1,710	3,960	Belgium 839; \$1,480	
Sodium permanganate	50	144	Belgium 20; \$43	1,070	2,650	Spain 398; \$1,010	
Sulfates, basket category,							
including manganese sulfate	2,300	2,320	Canada 1,650; \$1,510	18,100	14,700	Canada 12,100; \$7,560	

⁻⁻ Zero.

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

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