

Mineral Industry Surveys

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MANGANESE IN JULY 2012

Preliminary domestic data (gross weight) for July 2012 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 35,900 metric tons (t). This was a 17% decrease from the amount consumed in June 2012. Manganese ore consumption during the first 7 months of 2012 was 299,000 t, which includes a revised amount of 263,000 t that was consumed during the first 6 months of 2012. Manganese ore consumption during the first 7 months of 2012 was slightly

more than the revised amount that was consumed during the same period in 2011 (293,000 t). Industry stocks of ore at the end of July 2012 were 195,000 t, which was a 5% increase from those at the end of June 2012.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in July 2012.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JULY 2012

		High	Low	Average	Average low, mid, and high
<u>Manganese ferroalloys:¹</u>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,260.00	1,220.00	1,240.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	92.00	90.00	91.13	XX
Silicomanganese, 65% manganese	do.	62.00	59.00	60.38	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	158.00	150.00	XX	150.00–154.00–158.00
<u>Manganese ore:^{3, 4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	4.60	4.50	XX	4.50–4.55–4.60
44% manganese	do.	5.10	4.90	XX	4.90–5.00–5.10
46% manganese	do.	5.15	5.00	XX	5.00–5.08–5.15

do. Ditto. XX Not applicable.

¹Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²Ryan's Notes North American transaction prices, electrolytic manganese metal flake, 99.99% manganese, free-on-board producing point or Chicago/Pittsburgh warehouse; average prices reported for the price range.

³Ryan's Notes, cost and freight, China; average prices reported for the price range.

⁴To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 46 when the manganese content is 46%.

TABLE 2
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2011:						
January–December	283,000	541,000	824,000	681	12,500	13,200
January–July	150,000	349,000	499,000	391	8,190	8,580
January	28,900	44,500	73,400	36	1,080	1,120
February	9,160	30,400	39,600	46	1,240	1,290
March	50,900	68,900	120,000	73	1,740	1,810
April	1,720	27,800	29,500	61	1,150	1,210
May	21,100	51,000	72,100	33	1,800	1,830
June	26,800	68,700	95,500	59	519	578
July	11,500	57,400	69,000	82	669	750
2012:						
January	11,800	53,000	64,800	36	603	639
February	12,400	34,900	47,300	158	616	775
March	24,500	54,000	78,400	352	848	1,200
April	3,960	59,500	63,400	106	816	922
May	15,500	49,500	65,000	42	620	662
June	18,300	21,000	39,300	19	576	595
July	19,900	77,300	97,300	57	687	744
January–July	106,000	349,000	456,000	770	4,770	5,540

¹Data 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 3
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–July		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	9,570	6,490	\$9,880,000
Azerbaijan	--	--	--	1,500	984	1,700,000
Canada	--	--	--	50	34	39,000
Georgia	22,200	15,200	\$28,900,000	64,500	44,100	69,000,000
Germany	--	--	--	216	95	281,000
India	446	251	758,000	1,890	1,070	2,970,000
Indonesia	--	--	--	602	393	786,000
Italy	--	--	--	1,270	843	1,740,000
Korea, Republic of	--	--	--	620	372	1,070,000
Macedonia	5,410	3,520	7,440,000	6,110	3,970	8,530,000
Mexico	2,920	1,900	3,540,000	11,800	7,690	13,700,000
Norway	6,700	4,250	11,800,000	22,200	13,900	38,500,000
Russia	216	146	228,000	6,100	4,140	8,270,000
South Africa	14,700	9,710	21,600,000	62,800	41,800	72,900,000
Spain	1,500	978	1,860,000	10,300	6,590	14,600,000
Vietnam	--	--	--	592	370	674,000
Total	54,100	36,000	76,100,000	200,000	133,000	245,000,000

-- 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.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JULY 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–July		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	1,240	1,160	\$3,440,000	4,970	4,650	\$13,900,000
India	668	543	1,160,000	3,840	3,120	6,640,000
Korea, Republic of	--	--	--	1,540	1,390	4,180,000
Mexico	801	638	1,390,000	4,520	3,650	7,790,000
Norway	700	568	1,130,000	5,320	4,290	8,620,000
South Africa	--	--	--	20	16	59,400
Vietnam	--	--	--	1,040	899	2,040,000
Total	3,410	2,910	7,130,000	21,200	18,000	43,300,000
Medium carbon, 1%–2% C:						
China	--	--	--	40	30	97,300
Korea, Republic of	--	--	--	15,900	12,800	23,600,000
Mexico	324	244	699,000	1,400	1,060	2,850,000
Norway	2,100	1,720	2,890,000	13,100	10,700	18,000,000
South Africa	1,920	1,570	3,160,000	15,200	12,200	23,100,000
Total	4,350	3,530	6,750,000	45,600	36,800	67,700,000
Medium carbon, 2%–4% C, South Africa						
	18	14	39,900	75	64	179,000
High carbon:						
Australia	9,810	7,740	9,730,000	26,800	20,900	26,300,000
Bahrain	--	--	--	100	79	141,000
Brazil	--	--	--	219	163	228,000
Canada	12	9	26,000	12	9	26,000
China	113	86	136,000	481	379	547,000
France	--	--	--	2,500	1,910	3,000,000
India	--	--	--	513	387	496,000
Korea, Republic of	--	--	--	3,430	2,650	3,300,000
Norway	2,000	1,570	2,040,000	8,620	6,680	8,640,000
Saudi Arabia	--	--	--	1,400	1,010	1,180,000
South Africa	14,300	10,900	17,000,000	107,000	82,400	113,000,000
Ukraine	13,600	10,000	15,300,000	21,600	16,200	23,700,000
Total	39,800	30,400	44,200,000	173,000	133,000	181,000,000
Grand total	47,600	36,800	58,200,000	240,000	188,000	292,000,000

-- 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.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2012^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–July		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Brazil	--	--	--	2,580	682	\$669,000
Colombia	--	--	--	18	5	4,170
Gabon	4,000	1,720	\$410,000	23,500	10,100	3,010,000
Mexico	--	--	--	3,040	1,100	602,000
South Africa	--	--	--	29,700	1	3,650,000
Total	4,000	1,720	410,000	58,800	11,900	7,930,000
47% or more manganese:						
Australia	--	--	--	20,700	10,300	3,120,000
Belgium	--	--	--	2,840	1,450	281,000
Brazil	--	--	--	2,770	1,470	982,000
Gabon	32,600	16,700	6,900,000	141,000	71,800	32,900,000
Japan	--	--	--	(4)	(4)	14,800
Korea, Republic of	--	--	--	20	(4)	137,000
Morocco	--	--	--	1,880	967	334,000
Poland	--	--	--	7	4	5,760
South Africa	--	--	--	60	29	14,400
United Kingdom	--	--	--	1	(4)	2,990
Total	32,600	16,700	6,900,000	169,000	85,900	37,800,000
Grand total	36,600	18,500	7,310,000	228,000	97,800	45,700,000

-- 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.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JULY 2012¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–July	
			Quantity	Customs value ²
Belgium	66	\$54,900	670	\$385,000
Germany	24	40,200	48	80,400
India	--	--	25	20,500
Japan	1,050	2,560,000	4,910	11,900,000
Korea, Republic of	--	--	13	25,200
Mexico	--	--	40	35,100
Norway	--	--	260	197,000
Singapore	23	38,800	91	155,000
South Africa	1,280	2,950,000	7,410	17,100,000
Turkey	--	--	810	425,000
Total	2,440	5,650,000	14,300	30,300,000

-- 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.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JULY 2012¹

(Metric tons)

Source	Gross weight	Customs value ²	January–July	
			Gross weight	Customs value ²
Unwrought flake:				
Brazil	--	--	21	\$61,400
China	1,180	\$3,180,000	9,010	25,000,000
Hong Kong	60	160,000	60	160,000
Japan	--	--	1	2,960
Mexico	--	--	96	456,000
South Africa	778	2,760,000	4,150	13,900,000
Taiwan	60	160,000	60	160,000
Vietnam	60	160,000	260	707,000
Total	2,140	6,410,000	13,700	40,400,000
Unwrought powder:				
China	20	61,400	258	741,000
Mexico	--	--	53	252,000
South Africa	178	775,000	1,170	4,720,000
Spain	--	--	1	2,220
Total	198	837,000	1,490	5,710,000
Unwrought, other:				
China	1,940	4,990,000	12,300	33,600,000
Germany	--	--	13	44,900
Poland	--	--	(3)	2,880
South Africa	38	153,000	343	1,280,000
Spain	187	601,000	663	2,420,000
Vietnam	--	--	100	286,000
Total	2,160	5,750,000	13,500	37,600,000
Other manganese, wrought:				
China	1	3,350	3	17,200
Finland	(3)	20,100	(3)	20,100
Germany	--	--	1	71,900
Japan	(3)	13,700	(3)	52,900
Mexico	(3)	2,310	7	33,600
Total	1	39,500	12	196,000
Grand total	4,500	13,000,000	28,600	84,000,000

-- Zero.

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

²Customs value generally represent 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.

Note: Imports for consumption of metallic waste and scrap totaled 104 metric tons (t), all of which was from Canada, to give a January–July total of 506 t.

Source: U.S. Census Bureau.

TABLE 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JULY 2012^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–July	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Aruba	--	--	78	\$20
Canada	12	\$19	299	337
China	--	--	51	66
Denmark	--	--	77	32
Hong Kong	--	--	11	39
Indonesia	--	--	3	3
Korea, Republic of	68	88	272	351
Latvia	--	--	19	11
Netherlands	18	62	707	674
United Kingdom	17	14	21	28
Other (1 country)	--	--	3	10
Total	115	183	1,540	1,570
Ferromanganese:				
2% or less carbon:				
Canada	30	36	605	858
Guatemala	--	--	23	43
Hungary	--	--	3	5
Japan	20	44	120	289
Mexico	--	--	108	195
Saudi Arabia	--	--	1	10
Spain	20	48	20	48
Turkey	60	148	119	301
Total	130	276	999	1,750
More than 2% carbon:				
Brazil	10	29	28	79
Cameroon	8	26	8	26
Canada	42	54	535	683
Chile	18	50	33	93
Japan	--	--	4	11
Mexico	6	16	66	94
Norway	--	--	7	22
Saudi Arabia	--	--	11	31
Singapore	6	16	22	62
United Arab Emirates	--	--	3	8
Other (1 country)	--	--	1	3
Total	90	191	718	1,110
Silicomanganese:				
Brazil	--	--	176	428
Canada	505	724	2,190	3,050
Dominican Republic	--	--	9	21
Indonesia	--	--	10	16
Mexico	--	--	362	514
Total	505	724	2,740	4,020
Metal, including alloys and waste and scrap:⁴				
Brazil	--	--	37	150
Canada	19	75	117	308
China	134	464	641	2,080
France	--	--	62	278
Germany	--	--	79	172
India	--	--	178	405
Japan	--	--	92	244
Mexico	6	21	192	526
Norway	--	--	62	278
Taiwan	20	38	39	80
Other (8 countries)	--	--	100	213
Total	180	598	1,600	4,730
Grand total	1,020	1,970	7,600	13,200

-- Zero.

TABLE 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JULY 2012^{1,2}

¹Presentation of monthly data is based on the year-to-date quantities (gross weight) of the leading countries.

²Data rounded to no more than three significant digits; may not add to totals shown.

³Free alongside ship.

⁴Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2012, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–July		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	650	\$651	South Africa 418; \$351	2,690	\$2,810	South Africa 821; \$803
Manganites, manganates, and other permanganates	35	89	China 35; \$89	79	482	China 53; \$134
Potassium permanganate	36	114	India 36; \$114	941	3,000	India 882; \$2,800
Sodium permanganate	36	101	China 36; \$89	161	409	China 160; \$397
Sulfates, basket category, including manganese sulfate	4,410	4,250	Mexico 1,530; \$1,340	29,600	29,100	Mexico 9,870; \$8,680
Exports:						
Manganese dioxide	673	1,430	Canada 314; \$318	5,360	9,290	Canada 2,970; \$2,520
Manganese oxides other than dioxide	984	1,470	Belgium 246; \$266	5,940	9,010	Canada 1,630; \$1,920
Manganites, manganates, and other permanganates	26	71	Canada 26; \$66	157	428	Canada 140; \$365
Potassium permanganate	240	635	Belgium 145; \$349	2,120	5,450	Belgium 1,480; \$3,450
Sodium permanganate	137	324	Belgium 75; \$154	680	1,570	Belgium 319; \$613
Sulfates, basket category, including manganese sulfate	1,150	1,090	Canada 967; \$547	9,370	7,730	Canada 7,720; \$4,150

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

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

Source: U.S. Census Bureau.