

Mineral Industry Surveys

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MANGANESE IN AUGUST 2012

Preliminary domestic data (gross weight) for August 2012 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 44,000 metric tons (t). This was a 23% increase from the amount consumed in July 2012. Manganese ore consumption during the first 8 months of 2012 was 343,000 t, which was slightly more than the revised amount that was

consumed during the same period in 2011 (342,000 t). Industry stocks of ore at the end of August 2012 were 218,000 t, which was a 12% increase from those at the end of July 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 August 2012.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN AUGUST 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	1,240.00	1,200.00	1,220.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	92.00	90.00	90.60	XX
Silicomanganese, 65% manganese	do.	62.00	59.00	60.40	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	155.00	145.00	XX	149.00–151.72–154.44
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	4.60	4.45	XX	4.50–4.55–4.60
44% manganese	do.	5.10	4.85	XX	4.90–5.00–5.10
46% manganese	do.	5.15	4.90	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–August	176,000	399,000	575,000	456	9,100	9,550
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
August	25,500	50,600	76,100	65	902	967
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	30,100 ^r	21,000	51,100 ^r	19	576	595
July	19,900	77,300	97,300	57	687	744
August	8,020	59,900	67,900	12	1,360	1,370
January–August	126,000	409,000	535,000	782	6,120	6,900

^rRevised.

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 AUGUST 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–August		
				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	21,700	14,400	\$23,200,000	86,200	58,500	92,200,000
Germany	--	--	--	216	95	281,000
India	676	389	1,080,000	2,560	1,460	4,050,000
Indonesia	--	--	--	602	393	786,000
Italy	--	--	--	1,270	843	1,740,000
Korea, Republic of	--	--	--	620	372	1,070,000
Macedonia	--	--	--	6,110	3,970	8,530,000
Mexico	4,000	2,600	4,850,000	15,800	10,300	18,600,000
Norway	--	--	--	22,200	13,900	38,500,000
Russia	108	74	114,000	6,200	4,210	8,380,000
South Africa	15,500	10,200	20,400,000	78,300	51,900	93,200,000
Spain	3,990	2,750	4,420,000	14,300	9,340	19,000,000
Vietnam	--	--	--	592	370	674,000
Total	46,000	30,400	54,000,000	246,000	163,000	299,000,000

-- 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 AUGUST 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–August		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	291	273	\$814,000	5,270	4,920	\$14,800,000
India	1,730	1,400	2,780,000	5,570	4,520	9,420,000
Korea, Republic of	500	460	1,260,000	2,040	1,850	5,440,000
Mexico	802	643	1,390,000	5,320	4,290	9,190,000
Norway	818	661	1,350,000	6,140	4,960	9,960,000
South Africa	100	94	271,000	120	110	330,000
Vietnam	--	--	--	1,040	899	2,040,000
Total	4,240	3,530	7,860,000	25,500	21,500	51,100,000
Medium carbon, 1%–2% C:						
China	--	--	--	40	30	97,300
Korea, Republic of	4,500	3,660	6,460,000	20,400	16,500	30,100,000
Mexico	203	153	422,000	1,600	1,210	3,270,000
Norway	1,500	1,220	2,020,000	14,600	11,900	20,100,000
South Africa	2,790	2,210	3,900,000	17,900	14,400	27,000,000
Turkey	19	14	63,300	19	14	63,300
Total	9,010	7,260	12,900,000	54,600	44,000	80,600,000
Medium carbon, 2%–4% C:						
Germany	11	9	31,100	11	9	31,100
South Africa	36	29	82,300	111	94	261,000
Total	47	38	113,000	122	103	293,000
High carbon:						
Australia	--	--	--	26,800	20,900	26,300,000
Bahrain	--	--	--	100	79	141,000
Brazil	--	--	--	219	163	228,000
Canada	--	--	--	12	9	26,000
China	--	--	--	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	1,300	1,020	1,340,000	9,920	7,700	9,980,000
Saudi Arabia	--	--	--	1,400	1,010	1,180,000
South Africa	13,700	10,400	15,300,000	121,000	92,800	128,000,000
Spain	75	57	83,900	75	57	83,900
Ukraine	4,400	3,480	5,060,000	26,000	19,600	28,800,000
Total	19,500	14,900	21,700,000	192,000	148,000	202,000,000
Grand total	32,700	25,800	42,600,000	273,000	213,000	335,000,000

-- 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 AUGUST 2012^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ⁴	January–August ³		
				Gross weight	Mn content	Customs value ⁴
More than 20%, but less than 47% manganese:						
Brazil	--	--	--	2,580	682	\$669,000
Colombia	--	--	--	18	5	4,170
Gabon	3,000	1,290	\$376,000	26,500	11,400	3,380,000
Mexico	--	--	--	3,040	1,100	602,000
South Africa	--	--	--	29,700	11,800	3,650,000
Total	3,000	1,290	376,000	61,800	24,900	8,310,000
47% or more manganese:						
Australia	--	--	--	20,700	10,300	3,120,000
Belgium	1,380	689	82,700	4,220	2,130	364,000
Brazil	75	50	40,500	2,840	1,520	1,020,000
Gabon	8,000	4,120	2,130,000	149,000	75,900	35,000,000
Japan	--	--	--	(5)	(5)	14,800
Korea, Republic of	--	--	--	20	(5)	137,000
Morocco	1,700	851	102,000	3,580	1,820	436,000
Poland	--	--	--	7	4	5,760
South Africa	--	--	--	60	29	14,400
United Kingdom	--	--	--	1	(5)	2,990
Total	11,200	5,710	2,350,000	180,000	91,600	40,100,000
Grand total	14,200	7,000	2,730,000	242,000	117,000	48,400,000

-- 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.

³May include revisions to previously published data.

⁴Customs 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.

⁵Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–August	
			Quantity	Customs value ²
Belgium	--	--	670	\$385,000
Germany	24	\$40,200	72	121,000
India	--	--	25	20,500
Japan	652	1,440,000	5,560	13,300,000
Korea, Republic of	--	--	13	25,200
Mexico	--	--	40	35,100
Norway	--	--	260	197,000
Singapore	23	38,800	114	194,000
South Africa	1,010	2,350,000	8,410	19,500,000
Turkey	--	--	810	425,000
Total	1,710	3,870,000	16,000	34,200,000

-- 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 AUGUST 2012¹

(Metric tons)

Source	Gross weight	Customs value ²	January–August	
			Gross weight	Customs value ²
Unwrought flake:				
Brazil	--	--	21	\$61,400
China	706	\$1,750,000	9,710	26,700,000
Hong Kong	--	--	60	160,000
Japan	4	14,800	5	17,800
Mexico	11	52,300	107	508,000
South Africa	552	1,830,000	4,700	15,800,000
Taiwan	--	--	60	160,000
Vietnam	47	160,000	307	867,000
Total	1,320	3,800,000	15,000	44,200,000
Unwrought powder:				
China	--	--	258	741,000
Mexico	--	--	53	252,000
South Africa	293	1,310,000	1,470	6,030,000
Spain	--	--	1	2,220
Total	293	1,310,000	1,780	7,030,000
Unwrought, other:				
China	2,040	5,100,000	14,400	38,700,000
Germany	11	34,600	24	79,500
Poland	(3)	4,320	(3)	7,200
South Africa	57	228,000	400	1,510,000
Spain	--	--	663	2,420,000
Vietnam	--	--	100	286,000
Total	2,110	5,370,000	15,600	43,000,000
Other manganese, wrought:				
China	--	--	3	17,200
Finland	--	--	(3)	20,100
Germany	--	--	1	71,900
Japan	(3)	27,400	(3)	80,300
Mexico	3	12,200	10	45,800
Total	3	39,600	15	235,000
Grand total	3,730	10,500,000	32,300	94,500,000

-- 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 100 metric tons (t), all of which was from Canada, to give a January–August total of 606 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 AUGUST 2012^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–August	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Aruba	--	--	78	\$20
Canada	6	\$7	305	344
China	--	--	51	66
Denmark	--	--	77	32
Hong Kong	--	--	11	39
Indonesia	--	--	3	3
Korea, Republic of	--	--	272	351
Latvia	--	--	19	11
Netherlands	16	31	723	705
United Kingdom	--	--	21	28
Other (2 countries)	1	5	4	15
Total	23	43	1,560	1,620
Ferromanganese:				
2% or less carbon:				
Canada	229	337	834	1,190
Guatemala	--	--	23	43
Hungary	--	--	3	5
Japan	40	88	160	377
Mexico	--	--	108	195
Saudi Arabia	24	45	25	55
Spain	--	--	20	48
Turkey	--	--	119	301
Total	293	470	1,290	2,220
More than 2% carbon:				
Brazil	--	--	28	79
Cameroon	--	--	8	26
Canada	24	33	559	716
Chile	--	--	33	93
Japan	--	--	4	11
Malaysia	636	431	636	431
Mexico	--	--	66	94
Norway	--	--	7	22
Saudi Arabia	--	--	11	31
Singapore	6	16	28	78
Other (3 countries)	4	10	8	21
Total	670	490	1,390	1,600
Silicomanganese:				
Brazil	39	95	215	523
Canada	659	853	2,850	3,900
Dominican Republic	--	--	9	21
Indonesia	--	--	10	16
Mexico	--	--	362	514
Total	698	948	3,440	4,970
Metal, including alloys and waste and scrap:⁴				
Brazil	--	--	37	150
Canada	--	--	117	308
China	74	140	716	2,220
France	--	--	62	278
Germany	--	--	79	172
India	--	--	178	405
Japan	5	22	98	266
Mexico	40	146	232	671
Norway	--	--	62	278
Taiwan	--	--	39	80
Other (10 countries)	15	33	115	246
Total	135	341	1,740	5,070
Grand total	1,820	2,290	9,420	15,500

See footnotes at end of table.

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

-- Zero.

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 AUGUST 2012, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–August		
				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	921	\$845	South Africa 331; \$245	3,610	\$3,660	South Africa 1,150; \$1,050
Manganites, manganates, and other permanganates	--	--	XX	79	482	China 53; \$134
Potassium permanganate	90	279	India 90; \$279	1,030	3,280	India 973; \$3,080
Sodium permanganate	38	90	China 38; \$90	198	498	China 197; \$486
Sulfates, basket category, including manganese sulfate	6,240	6,190	Mexico 2,230; \$1,910	35,800	35,300	Mexico 12,100; \$10,600
Exports:						
Manganese dioxide	851	1,440	Canada 568; \$407	6,210	10,700	Canada 3,540; \$2,930
Manganese oxides other than dioxide	538	1,050	Malaysia 138; \$160	6,480	10,100	Canada 1,740; \$2,040
Manganites, manganates, and other permanganates	6	34	Mexico 3; \$26	163	462	Canada 143; \$373
Potassium permanganate	241	697	Belgium 160; \$391	2,360	6,150	Belgium 1,640; \$3,840
Sodium permanganate	86	201	Mexico 20; \$21	767	1,770	Belgium 338; \$654
Sulfates, basket category, including manganese sulfate	1,280	1,220	Canada 1,010; \$653	10,700	8,950	Canada 8,730; \$4,800

XX Not applicable. -- Zero.

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.

