

Mineral Industry Surveys

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MANGANESE IN MARCH 2012

Preliminary domestic data (gross weight) for March 2012 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 40,000 metric tons (t). This was a 12% decrease from the amount consumed in February 2012. Manganese ore consumption during the first 3 months of 2012 was 132,000 t. This was an 8% increase from the revised amount that was

consumed during the same period in 2011 (122,000 t). Industry stocks of ore at the end of March 2012 were 216,000 t, which was a 7% decrease from those at the end of February 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 March 2012.

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

		High	Low	Average	Average low, mid, and high
<u>Manganese ferroalloys:¹</u>					
High-carbon ferromanganese	dollars per gross ton	1,380.00	1,250.00	1,340.00	XX
Medium-carbon ferromanganese	cents per pound of contained manganese	96.00	93.00	94.13	XX
Silicomanganese	cents per pound	78.00	72.00	75.63	XX
Manganese metal, 99.9% manganese flake ²	do.	161.00	155.00	XX	155.67–157.22–158.78
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	4.20	4.10	XX	4.10–4.15–4.20
44% manganese	do.	4.60	4.45	XX	4.45–4.53–4.60
46% manganese	do.	4.85	4.80	XX	4.80–4.83–4.85

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
<u>2011:</u>						
March	50,900	68,900	120,000	73	1,740	1,810
January–March	89,000	144,000	233,000	156	4,060	4,220
<u>2012:</u>						
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
Total	48,700	142,000	191,000	546	2,070	2,610

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 MARCH 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
Australia	1,060	697	\$863,000	2,930	1,950	\$2,410,000
Azerbaijan	--	--	--	1,500	984	1,700,000
Canada	--	--	--	16	11	9,400
Georgia	--	--	--	15,700	11,100	13,600,000
India	546	310	848,000	759	431	1,170,000
Korea, Republic of	--	--	--	20	13	23,000
Mexico	1,000	652	979,000	2,020	1,320	1,990,000
Norway	3,550	2,200	5,640,000	8,520	5,320	14,000,000
Russia	3,180	2,150	4,290,000	3,180	2,150	4,290,000
South Africa	15,100	10,200	14,700,000	29,800	20,000	29,900,000
Spain	--	--	--	1,650	992	2,660,000
Total	24,500	16,200	27,300,000	66,100	44,200	71,700,000

-- 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 MARCH 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	257	238	\$686,000	1,310	1,230	\$3,610,000
India	351	281	587,000	1,600	1,310	2,840,000
Korea, Republic of	--	--	--	40	36	110,000
Mexico	18	14	52,200	1,220	986	2,070,000
Norway	900	727	1,400,000	2,700	2,180	4,380,000
South Africa	20	16	59,400	20	16	59,400
Vietnam	759	670	1,610,000	1,040	899	2,040,000
Total	2,310	1,950	4,390,000	7,940	6,660	15,100,000
Medium carbon, 1%–2% C:						
Korea, Republic of	3,240	2,620	4,780,000	4,140	3,340	6,220,000
Mexico	433	328	888,000	811	620	1,630,000
Norway	1,200	978	1,570,000	4,380	3,560	5,950,000
South Africa	2,740	2,230	3,900,000	5,300	4,310	8,490,000
Total	7,610	6,150	11,100,000	14,600	11,800	22,300,000
Medium carbon, 2%–4% C, South Africa	18	16	44,700	18	16	44,700
High carbon:						
Australia	500	384	374,000	13,000	10,100	12,500,000
China	--	--	--	83	60	69,700
France	--	--	--	2,500	1,910	3,000,000
India	243	183	203,000	297	223	248,000
Korea, Republic of	--	--	--	20	15	20,800
Norway	--	--	--	2,300	1,800	2,080,000
Saudi Arabia	1,000	734	843,000	1,400	1,010	1,180,000
South Africa	34,000	26,000	33,100,000	61,700	47,500	63,200,000
Ukraine	--	--	--	4,590	3,570	4,590,000
Total	35,700	27,300	34,500,000	85,900	66,100	86,900,000
Grand total	45,600	35,400	50,100,000	108,000	84,600	124,000,000

-- 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 MARCH 2012^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–March		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Brazil	--	--	--	2,580	682	\$669,000
Gabon	8,450	3,630	\$1,190,000	19,500	8,360	2,600,000
Mexico	--	--	--	1,510	543	295,000
Total	8,450	3,630	1,190,000	23,500	9,590	3,560,000
47% or more manganese:						
Australia	--	--	--	20,700	10,300	3,120,000
Belgium	--	--	--	72	53	91,100
Brazil	--	--	--	53	27	18,400
Gabon	38,000	19,600	9,520,000	49,000	25,000	11,700,000
Morocco	--	--	--	232	145	235,000
Total	38,000	19,600	9,520,000	70,000	35,400	15,100,000
Grand total	46,500	23,300	10,700,000	93,600	45,000	18,700,000

-- 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.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–March	
			Quantity	Customs value ²
Belgium	133	\$77,200	486	\$271,000
China	--	--	--	--
Germany	13	20,100	13	20,100
India	25	20,500	25	20,500
Japan	612	1,470,000	1,890	4,520,000
Mexico	--	--	40	35,100
Singapore	--	--	34	58,100
South Africa	1,090	2,750,000	3,320	8,120,000
Turkey	117	55,600	234	111,000
Total	1,990	4,390,000	6,050	13,200,000

-- 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 MARCH 2012¹

(Metric tons)

Source	Gross weight	Customs value ²	January–March	
			Gross weight	Customs value ²
Unwrought flake:				
China	573	\$1,580,000	4,740	\$13,100,000
Japan	--	--	1	2,960
Mexico	29	136,000	44	205,000
South Africa	365	1,250,000	496	1,740,000
Vietnam	--	--	200	547,000
Total	967	2,970,000	5,480	15,600,000
Unwrought powder:				
China	79	204,000	218	620,000
Mexico	--	--	53	252,000
South Africa	200	775,000	597	2,330,000 *
Spain	--	--	1	2,220 *
Total	279	980,000	869	3,200,000
Unwrought, other:				
China	827	2,330,000	6,210	17,000,000
Germany	13	44,900	13	44,900
South Africa	76	280,000	210	766,000
Spain	111	475,000	235	1,030,000
Total	1,030	3,130,000	6,670	18,800,000
Other manganese, wrought:				
China	--	--	3	13,800
Germany	1	43,100	1	71,900
Japan	(3)	3,800	(3)	39,200
Mexico	4	15,700	4	15,700
Total	5	62,600	8	141,000
Grand total	2,280	7,130,000	13,000	37,800,000

-- 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.

* Correction posted on July 25, 2012.

Note: Imports for consumption of metallic waste and scrap totaled 69 metric tons (t), all of which was from Canada, to give a January–March total of 121 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 MARCH 2012^{1,2}

Source	Gross weight (metric tons)*	F.a.s. ³ value (thousands)*	January–March	
			Gross weight (metric tons)*	F.a.s. ³ value (thousands)*
Ore and concentrates with 20% or more manganese:				
Aruba	--	--	78	\$20
Canada	30	\$36	131	126
China	--	--	51	66
Denmark	77	32	77	32
Hong Kong	11	39	11	39
Indonesia	--	--	3	3
Korea, Republic of	--	--	102	132
Netherlands	583	245	636	429
United Arab Emirates	3	10	3	10
Total	704	362	1,090	857
Ferromanganese:				
2% or less carbon:				
Canada	264	381	343	488
Hungary	3	5	3	5
Japan	--	--	40	95
Mexico	4	10	44	61
Turkey	60	154	60	154
Total	330	549	489	803
More than 2% carbon:				
Brazil	2	6	12	34
Canada	61	77	191	234
Japan	--	--	4	11
Mexico	20	28	59	76
Norway	1	6	1	6
Singapore	7	21	9	26
United Kingdom	1	3	1	3
Total	93	141	277	390
Silicomanganese:				
Brazil	78	190	117	285
Canada	203	289	816	1,110
Dominican Republic	--	--	9	21
Indonesia	--	--	3	5
Mexico	73	104	264	375
Total	354	583	1,210	1,800
Metal, including alloys and waste and scrap:⁴				
Belgium	--	--	24	52
Canada	3	8	12	42
China	90	195	250	893
Costa Rica	5	11	16	36
Germany	--	--	8	18
India	119	260	171	391
Indonesia	3	7	3	7
Japan	8	18	54	160
Mexico	52	162	111	289
Saint Lucia	--	--	13	28
Other (1 country)	--	--	1	4
Total	280	662	664	1,920
Grand total	1,760	2,300	3,730	5,770

-- 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.

* Correction posted on July 25, 2012.

Source: U.S. Census Bureau.

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

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–March		
				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	294	\$341	Norway 190; \$160	877	\$987	Brazil 276; \$377
Manganites, manganates, and other permanganates	(3)	(3)	United Kingdom (3); \$13	(3)	(3)	United Kingdom (3); \$13
Potassium permanganate	145	466	India 145; \$463	543	1,750	India 485; \$1,550
Sodium permanganate	--	--	XX	56	141	China 56; \$141
Sulfates, basket category, including manganese sulfate	3,970	3,410	Hong Kong 1,600; \$965	14,400	13,400	Mexico 3,940; \$3,350
Exports:						
Manganese dioxide	787	1,260	Canada 505; \$423	2,300	3,760	Canada 1,370; \$1,140
Manganese oxides other than dioxide	500	966	Canada 105; \$110	2,240	3,390	Canada 610; \$656
Manganites, manganates, and other permanganates	14	44	Canada 13; \$36	68	187	Canada 68; \$179
Potassium permanganate	198	584	Belgium 93; \$219	801	2,050	Belgium 533; \$1,200
Sodium permanganate	106	266	Belgium 38; \$84	235	541	Belgium 96; \$175
Sulfates, basket category, including manganese sulfate	1,880	1,500	Canada 1,600; \$895	4,180	3,570	Canada 3,420; \$1,920

XX Not applicable. -- Zero.

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

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

³Less than ½ unit.

Source: U.S. Census Bureau.