

Mineral Industry Surveys

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MANGANESE IN FEBRUARY 2013

Preliminary domestic data (gross weight) for February 2013 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 44,100 metric tons (t). This was an 18% decrease from the revised amount of 53,500 t consumed in January 2013. Manganese ore consumption during the first 2 months of 2013 was 6% higher than that of the same time period in 2012.

Industry stocks of ore at the end of February 2013 were 245,000 t, which was a slight increase from the revised amount of 243,000 t at the end of January 2013.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in February 2013.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN FEBRUARY 2013

		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	1,150.00	1,070.00	1,126.25	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	89.50	83.00	84.75	XX
Silicomanganese, 65% manganese	do.	52.00	50.50	51.25	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	138.00	131.00	XX	133.00–135.25–137.50
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	5.30	5.15	XX	5.19–5.23–5.27
44% manganese	do.	5.75	5.55	XX	5.57–5.63–5.69
46% manganese	do.	5.65	5.55	XX	5.55–5.60–5.65

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>2012:</u>						
January	11,800	53,000	64,800	36	603	639
February	12,400	34,900	47,300	158	616	775
January–February	24,200	88,000	112,000	194	1,220	1,410
<u>2013:</u>						
January	11,300	26,200	37,500	16	464	480
February	30,100	48,400	78,500	10	588	599
January–February	41,400	74,600	116,000	26	1,050	1,080

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 FEBRUARY 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–February		
				Gross weight	Mn content	Customs value ²
Australia	9,210	6,180	\$9,890,000	9,210	6,180	\$9,890,000
Bahrain	--	--	--	1,200	804	1,460,000
Canada	45	30	36,400	45	30	36,400
Georgia	21,300	15,000	20,300,000	33,300	23,300	33,300,000
India	156	93	236,000	1,310	779	1,990,000
Korea, Republic of	1,580	252	1,700,000	3,150	1,280	3,460,000
Mexico	3,000	1,960	3,150,000	6,080	3,960	6,320,000
Norway	2,400	1,460	3,660,000	2,890	1,780	4,620,000
South Africa	2,060	1,370	2,210,000	5,060	3,360	5,450,000
Spain	5,000	3,250	5,400,000	5,000	3,250	5,400,000
Total	44,800	29,600	46,600,000	67,200	44,700	72,000,000

-- 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 FEBRUARY 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–February		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	174	162	\$386,000	279	262	\$629,000
Korea, Republic of	--	--	--	95	86	221,000
Mexico	--	--	--	500	405	868,000
Norway	1,260	1,010	1,770,000	1,310	1,060	1,910,000
South Africa	105	83	144,000	105	83	144,000
Total	1,530	1,250	2,300,000	2,290	1,890	3,770,000
Medium carbon, 1%–2% C:						
China	20	16	46,900	20	16	46,900
India	189	142	254,000	189	142	254,000
Korea, Republic of	--	--	--	614	380	943,000
Mexico	440	331	960,000	681	513	1,500,000
Norway	1,300	1,050	1,520,000	1,300	1,050	1,520,000
South Africa	1,270	1,040	1,880,000	1,910	1,550	2,830,000
Total	3,220	2,580	4,670,000	4,710	3,650	7,090,000
Medium carbon, 2%–4% C, South Africa	--	--	--	18	14	40,300
High carbon:						
Brazil	216	163	200,000	216	163	200,000
Canada	20	12	23,700	25	15	34,100
France	8,250	6,420	7,840,000	8,250	6,420	7,840,000
Korea, Republic of	1,580	1,180	1,600,000	3,600	2,630	3,760,000
South Africa	7,150	5,520	7,010,000	12,900	9,910	13,500,000
Spain	72	54	75,600	144	109	152,000
Total	17,300	13,400	16,700,000	25,100	19,200	25,500,000
Grand total	22,000	17,200	23,700,000	32,100	24,800	36,400,000

-- 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 FEBRUARY 2013^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–February		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Belgium	12	6	\$6,370	12	5	\$6,370
Gabon	4,510	1,940	545,000	4,510	1,940	545,000
Ghana	39,800	11,200	3,830,000	39,800	11,200	3,830,000
Mexico	151	92	46,900	3,070	1,220	640,000
Total	44,400	13,200	4,420,000	47,300	14,400	5,020,000
47% or more manganese:						
Brazil	--	--	--	104	52	42,400
France	15	8	26,600	15	8	26,600
Gabon	30,500	15,600	6,180,000	40,600	24,800	9,360,000
Georgia	--	--	--	63	58	230,000
Morocco	851	425	51,100	851	425	51,100
South Africa	--	--	--	40	19	20,500
Total	31,300	16,000	6,260,000	41,600	25,300	9,730,000
Grand total	75,700	29,300	10,700,000	89,000	39,700	14,800,000

-- 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 FEBRUARY 2013¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–February	
			Quantity	Customs value ²
Belgium	--	--	5	\$8,740
Japan	482	\$1,030,000	842	1,880,000
Singapore	19	19,300	30	38,700
South Africa	871	1,920,000	1880	4,210,000
Turkey	--	--	48	81,600
Total	1,370	2,960,000	2,800	6,220,000

-- 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 FEBRUARY 2013¹
(Metric tons)

Source	Gross weight	Customs value ²	January–February	
			Gross weight	Customs value ²
Unwrought flake:				
China	307	\$816,000	712	\$1,830,000
Japan	8	28,000	13	42,800
Mexico	22	97,000	43	188,000
South Africa	233	625,000	1370	3,640,000
Total	570	1,570,000	2140	5,700,000
Unwrought powder, South Africa	99	452,000	179	805,000
Unwrought, other:				
China	858	1,970,000	2,520	5,820,000
Poland	--	--	(3)	4,320
South Africa	76	308,000	114	462,000
Total	934	2,270,000	2,640	6,290,000
Other manganese, wrought,				
China	(3)	2,700	1	4,950
Japan	(3)	4,000	(3)	4,000
Total	(3)	6,710	1	8,960
Metallic waste and scrap, Canada	--	--	219	154,000
Grand total	1,600	4,300,000	5,170	13,000,000

-- 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.

³Less than ½ unit.

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 FEBRUARY 2013¹

Source	Gross weight (metric tons)	F.a.s. value ² (thousands)	January-February	
			Gross weight (metric tons)	F.a.s. value ² (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	5	\$6	5	\$6
Netherlands	16	64	48	193
Total	21	70	53	199
Ferromanganese:				
2% or less carbon:				
Canada	--	--	46	59
Japan	40	82	40	82
Korea, Republic of	10	27	10	27
Turkey	40	88	100	220
Total	90	197	195	388
More than 2% carbon:				
Brazil	5	13	9	26
Canada	49	56	96	109
Mexico	3	7	3	7
Total	56	76	107	141
Silicomanganese, Canada	427	529	769	969
Metal, including alloys and waste and scrap:³				
Canada	3	8	8	29
China	77	168	147	482
India	37	80	37	80
Norway	75	344	75	344
Taiwan	--	--	22	47
Vietnam	--	--	17	37
Total	191	600	305	1,020
Grand total	785	1,470	1,430	2,720

-- Zero

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

²Free alongside ship.

³Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN FEBRUARY 2013, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons value ² (thousands)	January-February		
				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	196	\$231	Mexico 126; \$112	479	\$548	Mexico 272; \$249
Manganites, manganates, and other permanganates	(3)	2	China (3); \$2	(3)	2	China (3); \$2
Potassium permanganate	36	106	India 36; \$106	180	530	India 180; \$530
Sodium permanganate	20	47	China 20; \$47	93	226	China 93; \$226
Sulfates, basket category, including manganese sulfate	5,450	5,270	China 1,890; \$2,180	9,750	9,180	Mexico 3,360; \$2,980
Exports:						
Manganese dioxide	397	870	Belgium 177; \$596	862	1,751	Canada 324; \$289
Manganese oxides other than dioxide	365	1,090	Poland 62; \$80	1,080	2,160	Canada 363; \$444
Manganites, manganates, and other permanganates	5	33	Canada 3; \$7	23	84	Canada 20; \$53
Potassium permanganate	309	763	Belgium 269; \$624	543	1,420	Belgium 445; \$1,030
Sodium permanganate	53	131	Belgium 21; \$44	85	237	Korea, Republic of 26; \$7
Sulfates, basket category, including manganese sulfate	1,470	1,320	Canada 1,030; \$520	3,270	3,050	Canada 2,630; \$1,660

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.