

Mineral Industry Surveys

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MANGANESE IN MARCH 2013

Preliminary domestic data (gross weight) for March 2013 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 49,800 metric tons (t). This was a 10% increase from the revised amount of 45,200 t consumed in February 2013. Manganese ore consumption during the first 3 months of 2013 was 150,000 t, which was 13% higher than that of the

same period in 2012. Industry stocks of ore at the end of March 2013 were 221,000 t, which was a 9% decrease from those at the end of February 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 March 2013.

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

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys:					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,150.00	1,070.00	1,120.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	89.50	87.00	88.00	XX
Silicomanganese, 65% manganese	do.	54.00	52.00	53.00	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	136.00	131.00	XX	131.67-133.94-136.22
Manganese ore: ^{3, 4}					
36%–39% manganese	dollars per metric ton unit contained manganese	5.50	5.25	XX	5.29-5.34-5.39
44% manganese	do.	5.90	5.60	XX	5.67-5.74-5.82
46% manganese	do.	5.75	5.55	XX	5.59-5.64-5.69

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%.

 $\label{eq:table 2} \textbf{TABLE 2}$ SELECTED U.S. FOREIGN TRADE IN MANGANESE 1

(Metric tons, manganese content)²

	Impo	Imports for consumption			Exports		
	Ore and	Ferroalloy		Ferroalloy			
	dioxide	and metal	Total	Ore	and metal	Total	
2012:							
March	24,500	54,000	78,400	352	848	1,200	
January-March	48,700	142,000	191,000	546	2,070	2,610	
2013:							
January	11,300	26,200	37,500	16	464	480	
February	30,100	48,400	78,500	10	588	599	
March	38,100	49,100	87,200	29	1,410	1,440	
January-March	79,500	124,000	203,000	56	2,460	2,520	

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

Source: U.S. Census Bureau.

 ${\bf TABLE~3} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~SILICOMANGANESE~IN~MARCH~2013}^1$

(Metric tons)

				January–March		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Australia	7,570	5,100	\$7,860,000	16,800	11,300	\$17,800,000
Bahrain	19	13	27,600	1,220	817	1,490,000
Canada				45	30	36,400
Georgia	4,380	3,160	4,240,000	37,700	26,400	37,600,000
India	401	236	612,000	1,720	1,020	2,600,000
Korea, Republic of	2,500	1,630	2,510,000	5,650	2,900	5,970,000
Mexico				6,080	3,960	6,320,000
Norway	34	21	74,500	2,930	1,800	4,690,000
South Africa	15,000	11,600	16,500,000	20,100	15,000	22,000,000
Spain				5,000	3,250	5,400,000
Total	29,900	21,800	31,800,000	97,200	66,500	104,000,000

⁻⁻ 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.

 ${\it TABLE~4} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~MARCH~2013}^1$

(Metric tons)

				J	anuary–March	1
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Low carbon:						
China	190	179	\$415,000	469	441	\$1,040,000
Korea, Republic of	700	630	1,590,000	795	716	1,810,000
Mexico				500	405	868,000
Norway	1,320	1,060	1,780,000	2,630	2,120	3,690,000
South Africa	20	19	49,600	125	102	194,000
Total	2,230	1,890	3,830,000	4,520	3,780	7,600,000
Medium carbon, 1%–2% C:						
China	40	30	93,300	60	46	140,000
India				189	142	254,000
Korea, Republic of				614	380	943,000
Mexico				681	513	1,500,000
Norway	2,000	1,630	2,270,000	3,300	2,680	3,790,000
South Africa				1,910	1,550	2,830,000
Total	2,040	1,660	2,360,000	6,750	5,310	9,450,000
Medium carbon, 2%–4% C, South Africa				18	14	40,300
High carbon:						
Australia	7,610	5,350	7,390,000	7,610	5,350	7,390,000
Bahrain	2	2	2,660	2	2	2,660
Brazil				216	163	200,000
Canada	10	6	7,590	36	21	41,700
France				8,250	6,420	7,840,000
Korea, Republic of	2,500	1,900	2,410,000	6,100	4,530	6,170,000
South Africa	16,500	12,600	17,100,000	29,400	22,500	30,600,000
Spain				144	109	152,000
Ukraine	39	25	47,000	39	25	47,000
Total	26,700	19,900	27,000,000	51,800	39,100	52,400,000
Grand total	30,900	23,400	33,200,000	63,100	48,200	69,500,000

⁻⁻ Zero.

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

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MARCH $2013^{1.2}$

(Metric tons)

				J	anuary–March	<u> </u>
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
More than 20%, but less than 47% manganese:						
Australia	33,000	15,500	\$7,400,000	33,000	15,500	\$7,400,000
Belgium				12	5	6,370
Gabon				4,510	1,940	545,000
Ghana				39,800	11,200	3,830,000
Mexico	241	20	74,600	3,310	1,240	715,000
Total	33,200	15,500	7,480,000	80,600	29,900	12,500,000
47% or more manganese:						
Australia	10,700	5,300	3,090,000	10,700	5,300	3,090,000
Brazil	2,920	1,520	1,380,000	3,020	1,570	1,420,000
France				15	8	26,600
Gabon	29,300	14,700	6,710,000	69,900	39,500	16,100,000
Georgia				63	58	230,000
Morocco				851	425	51,100
South Africa				40	19	20,500
Total	43,000	21,600	11,200,000	84,600	46,900	20,900,000
Grand total	76,200	37,100	18,700,000	165,000	76,800	33,400,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN MARCH 2013^1

(Metric tons, gross weight)

		January–	March
	Customs		Customs
Quantity	value ²	Quantity	value ²
2	\$10,300	7	\$19,100
23	39,300	23	39,300
682	1,630,000	1,520	3,500,000
- 11	19,400	42	58,100
980	2,130,000	2,860	6,340,000
		48	81,600
1,700	3,820,000	4,500	10,000,000
	2 23 682 11 980	Quantity value ² 2 \$10,300 23 39,300 682 1,630,000 11 19,400 980 2,130,000	Quantity Customs value² Quantity 2 \$10,300 7 23 39,300 23 682 1,630,000 1,520 11 19,400 42 980 2,130,000 2,860 48

⁻⁻ 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.

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.

TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MARCH $2013^1\,$ (Metric tons)

			January-March	
	Gross	Customs	Gross	Customs
Source	weight	value ²	weight	value ²
Unwrought flake:				
China	824	\$1,900,000	1,540	\$3,730,000
Japan			13	42,800
Mexico	31	125,000	74	313,000
Netherlands	76	208,000	76	208,000
South Africa	1,470	4,060,000	2,840	7,700,000
Total	2,400	6,290,000	4,540	12,000,000
Unwrought powder, South Africa	319	1,240,000	498	2,050,000
Unwrought, other:				
China	1,010	2,350,000	3,530	8,170,000
Poland	(3)	4,320	(3)	8,640
South Africa	19	77,300	133	540,000
Spain	24	69,800	24	69,800
Total	1,050	2,500,000	3,690	8,790,000
Other manganese, wrought:				
China	60	119,000	61	124,000
Japan			(3)	4,000
Total	60	119,000	61	128,000
Metallic waste and scrap, Canada	51	41,800	270	196,000
Grand total	3,890	10,200,000	9,060	23,200,000

⁻⁻ 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.

³Less than ½ unit.

TABLE~8 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN MARCH 2013 1

			January-	January–March		
Source	Gross weight (metric tons)	F.a.s. value ² (thousands)	Gross weight (metric tons)	F.a.s. value ² (thousands)		
Ore and concentrates with 20% or more manganese:						
Canada			5	\$6		
Malaysia	6	\$8	6	8		
Netherlands	35	48	83	241		
Poland		21	18	21		
Total	59	77	112	276		
Ferromanganese:						
2% or less carbon:	<u> </u>					
Canada	40	56	86	115		
Japan			40	82		
Korea, Republic of			10	27		
Sweden		35	20	35		
Turkey			100	220		
United Kingdom		4	2	4		
Total	62	95	258	483		
More than 2% carbon:	=					
Brazil	8	23	17	48		
Canada		21	114	129		
Mexico			3	7		
Singapore		8	3	8		
Total	29	52	137	193		
Silicomanganese, Canada	1,700	1,810	2,470	2,780		
Metal, including alloys and waste and scrap: ³		7	,	,		
Canada		17	10	45		
China	 66	148	212	630		
Germany	1	3	1	3		
India			37	80		
Japan	4	15	4	15		
Korea, Republic of		107	22	107		
Norway			75	344		
Pakistan	121	68	121	68		
Taiwan			22	47		
Vietnam			17	37		
Total	216	358	521	1,380		
Grand total	2,060	2,390	3,490	5,110		

⁻⁻ Zero.

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

TABLE 9 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 2013, BY ${\rm CLASS}^1$

				January–March		
			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	347	\$308	Korea, Republic of 181; \$114	826	\$856	Mexico 402; \$367
Manganites, manganates, and						
other permanganates	8	11	India 8; \$11	8	14	India 8; \$11
Potassium permanganate	126	364	India 126; \$364	306	895	India 306; \$895
Sodium permanganate	92	237	China 90; \$219	185	463	China 183; \$446
Sulfates, basket category,						
including manganese sulfate	5,340	5,000	China 3,090; \$3,060	15,100	14,200	China 6,360; \$6,720
Exports:						
Manganese dioxide	646	1,370	Belgium 177; \$596	1,510	3,120	Belgium 472; \$1,590
Manganese oxides other than dioxide	657	1,210	Canada 148; \$159	1,740	3,360	Canada 510; \$603
Manganites, manganates, and						
other permanganates	48	111	Canada 29; \$73	71	196	Canada 49; \$126
Potassium permanganate	234	635	Belgium 162; \$375	777	2,050	Belgium 607; \$1,410
Sodium permanganate	39	96	Belgium 19; \$40	124	333	Belgium 44; \$93
Sulfates, basket category,						
including manganese sulfate	1,460	1,440	Canada 1,070; \$609	4,730	4,490	Canada 3,710; \$2,270

¹Data are rounded to no more than three significant digits.
²For imports, customs value; for exports, free alongside ship value.