

Mineral Industry Surveys

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MANGANESE IN JUNE 2012

Preliminary domestic data (gross weight) for June 2012 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 43,300 metric tons (t). This was a 16% decrease from the amount consumed in May 2012. Manganese ore consumption during the first 6 months of 2012 was 263,000 t, which includes a revised amount of 220,000 t that was consumed during the first 5 months of 2012. Manganese ore consumption during the first half of 2012 was an 8% increase

from the revised amount that was consumed during the same period in 2011 (243,000 t). Industry stocks of ore at the end of June 2012 were 187,000 t, which was a 10% decrease from those at the end of May 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 June 2012.

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

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys: ¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,310.00	1,250.00	1,277.50	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	98.00	92.00	94.63	XX
Silicomanganese, 65% manganese	do.	70.00	63.00	66.88	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	158.00	150.00	XX	150.00-154.00-158.00
Manganese ore: ^{3,4}					
36%–39% manganese	dollars per metric ton unit contained manganese	4.95	4.50	XX	4.72-4.77-4.82
44% manganese	do.	5.25	4.90	XX	5.02-5.12-5.21
46% manganese	do.	5.35	5.00	XX	5.18-5.25-5.33

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 MANGANESE $^{\rm l}$

(Metric tons, manganese content)²

	Imports	for consumpti	on		Exports	
•	Ore and	Ferroalloy			Ferroalloy	
	dioxide	and metal	Total	Ore	and metal	Total
2011:						
January-December	283,000	541,000	824,000	681	12,500	13,200
January-June	139,000	291,000	430,000	309	7,530	7,830
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
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
January-June	86,400	272,000	358,000	713	4,080	4,790

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.

 $\label{eq:table 3} \text{U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JUNE 2012}^1$

					January-J	une
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Australia	306	202	\$349,000	9,570	6,490	\$9,880,000
Azerbaijan				1,500	984	1,700,000
Canada				50	34	39,000
Georgia	1,560	925	1,770,000	42,300	28,900	40,100,000
Germany				216	95	281,000
India				1,440	819	2,210,000
Indonesia	304	198	393,000	602	393	786,000
Italy				1,270	843	1,740,000
Korea, Republic of				620	372	1,070,000
Macedonia	694	451	1,080,000	694	451	1,080,000
Mexico	3,000	1,960	3,630,000	8,860	5,780	10,200,000
Norway				15,500	9,630	26,700,000
Russia				5,880	3,990	8,040,000
South Africa				48,000	32,100	51,300,000
Spain	2,500	1,630	3,100,000	8,780	5,610	12,700,000
Vietnam				592	370	674,000
Total	8,370	5,370	10,300,000	146,000	96,800	169,000,000

⁻⁻ 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.

 $\label{table 4} \text{U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JUNE 2012}^1$

				January-June		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ²	weight	content	value ²
Low carbon:						
China	561	522	\$1,590,000	3,740	3,490	\$10,500,000
India	648	526	1,120,000	3,170	2,580	5,480,000
Korea, Republic of	500	450	1,300,000	1,540	1,390	4,180,000
Mexico	800	646	1,390,000	3,720	3,010	6,400,000
Norway				4,620	3,730	7,480,000
South Africa				20	16	59,400
Vietnam				1,040	899	2,040,000
Total	2,510	2,140	5,400,000	17,800	15,100	36,100,000
Medium carbon, 1%–2% C:						
China				40	30	97,300
Korea, Republic of	5,000	4,000	7,430,000	15,900	12,800	23,600,000
Mexico	20	15	59,800	1,070	816	2,150,000
Norway				11,000	8,950	15,200,000
South Africa	635	512	1,060,000	13,200	10,600	20,000,000
Total	5,660	4,530	8,550,000	41,300	33,300	61,000,000
Medium carbon, 2%–4% C, South Africa				57	50	139,000
High carbon:						
Australia				17,000	13,200	16,600,000
Bahrain	11	9	13,700	100	79	141,000
Brazil				219	163	228,000
China	95	90	114,000	368	294	412,000
France				2,500	1,910	3,000,000
India	216	164	248,000	513	387	496,000
Korea, Republic of	3,290	2,540	3,140,000	3,430	2,650	3,300,000
Norway				6,620	5,110	6,610,000
Saudi Arabia				1,400	1,010	1,180,000
South Africa	1,630	1,290	1,840,000	92,900	71,500	96,200,000
Ukraine	694	445	825,000	8,000	6,120	8,420,000
Total	5,930	4,540	6,180,000	133,000	102,000	137,000,000
Grand total	14,100	11,200	20,100,000	192,000	151,000	234,000,000

⁻⁻ 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.

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

·				January–June		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value ³	weight	content	value ³
More than 20%, but less than 47% manganese:						
Brazil				2,580	682	\$669,000
Colombia	18	5	\$4,170	18	5	4,170
Gabon				19,500	8,360	2,600,000
Mexico				3,040	1,100	602,000
South Africa	29,700	1 4	3,650,000	29,700	1 4	3,650,000
Total	29,700	6	3,660,000	54,800	10,100	7,520,000
47% or more manganese:						
Australia				20,700	10,300	3,120,000
Belgium				2,840	1,450	281,000
Brazil	78	41	121,000	2,770	1,470	982,000
Gabon	31,700	16,300	8,040,000	108,000	55,000	26,000,000
Japan	(5)	(5)	14,800	(5)	(5)	14,800
Korea, Republic of				20	(5)	137,000
Morocco	823	411	49,400	1,880	967	334,000
Poland				7	4	5,760
South Africa	60	29	14,400	60	29	14,400
United Kingdom	1	(5)	2,990	1	(5)	2,990
Total	32,700	16,700	8,240,000	136,000	69,200	30,900,000
Grand total	62,400	16,800	11,900,000	191,000	79,300	38,400,000

⁻⁻ Zero.

Source: U.S. Census Bureau.

 $\label{eq:table 6} \text{U.s. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JUNE 2012}^{1}$

(Metric tons, gross weight)

			January–June			
		Customs		Customs		
Source	Quantity	value ²	Quantity	value ²		
Belgium	60	\$30,400	605	\$331,000		
Germany			24	40,200		
India			25	20,500		
Japan	692	1,650,000	3,860	9,300,000		
Korea, Republic of			13	25,200		
Mexico			40	35,100		
Norway			260	197,000		
Singapore	11	19,400	68	116,000		
South Africa	1,390	3,170,000	6,130	14,200,000		
Turkey	431	245,000	810	425,000		
Total	2,580	5,110,000	11,800	24,700,000		
7						

⁻⁻ 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.

⁴Referred to the U.S. Census Bureau for verification.

⁵Less than ½ unit.

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.

 ${\rm TABLE}~7$ U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JUNE 2012^1

			Janua	ry–June
	Gross	Customs	Gross	Customs
Source	weight	value ²	weight	value ²
Unwrought flake:				
Brazil			21	\$61,400
China	1,230	\$3,450,000	7,830	21,800,000
Japan			1	2,960
Mexico	7	34,100	96	456,000
South Africa	1,190	3,750,000	3,370	11,200,000
Vietnam			200	547,000
Total	2,430	7,230,000	11,500	34,000,000
Unwrought powder:				
China			238	679,000
Mexico			53	252,000
South Africa	20	93,400	996	3,940,000
Spain			1	2,220
Total	20	93,400	1,290	4,880,000
Unwrought, other:				
China	1,760	4,910,000	10,400	28,600,000
Germany			13	44,900
Poland	(3)	2,880	(3)	2,880
South Africa	38	155,000	305	1,130,000
Spain	56	170,000	476	1,820,000
Vietnam	100	286,000	100	286,000
Total	1,960	5,520,000	11,300	31,900,000
Other manganese, wrought:				
China			3	13,800
Germany			1	71,900
Japan			(3)	39,200
Mexico			7	31,300
Total			12	156,000
Grand total	4,410	12,800,000	24,100	70,900,000

⁻⁻ Zero.

Note: Imports for consumption of metallic waste and scrap totaled 73 metric tons (t), all of which was from Canada, to give a January–June total of 402 t.

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.

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

			Januar	
		F.a.s. ³		F.a.s. ³
	Gross weight	value	Gross weight	value
Source	(metric tons)	(thousands)	(metric tons)	(thousands)
Ore and concentrates with 20% or more manganese:	_			
Aruba			78	\$20
Canada	19	\$26	287	318
China			51	66
Denmark			77	32
Hong Kong			11	39
Indonesia	_ 		3	3
Korea, Republic of			204	264
Latvia		11	19	11
Netherlands			689 4	612
United Kingdom			3	13 10
Other (1 country) Total		27		
	38	37	1,430	1,390
Ferromanganese: 2% or less carbon:	_			
Z% or less carbon: Canada		68	576	822
Guatemala	_ 36	08	23	43
Hungary			3	5
	_ 		100	245
Japan Mexico	_ 	 	100	195
Saudi Arabia	- 1	10	108	193
Turkey	= ¹		60	154
Total	59	78	871	1,470
More than 2% carbon:		78	0/1	1,470
Brazil	_ 	11	18	50
Canada	106	141	493	629
Chile			15	43
Japan			4	11
Mexico			60	78
Norway		15	7	22
Saudi Arabia			11	31
Singapore	_ 1	3	16	46
United Arab Emirates			3	8
United Kingdom			1	3
Total	116	170	628	921
Silicomanganese:				
Brazil			176	428
Canada	433	619	1,680	2,320
Dominican Republic			9	21
Indonesia			10	16
Mexico			362	514
Total	433	619	2,240	3,300
Metal, including alloys and waste and scrap: ⁴				
Belgium			24	52
Brazil			37	150
Canada		48	98	234
China	78	169	507	1,610
France			62	278
Germany			79	172
India			178	405
Japan	39	84	92	244
Mexico			186	505
Norway			62	278
Other (8 countries)	14	30	95	202
Total	152	331	1,420	4,130
Grand total	798	1,240	6,580	11,200

⁻⁻ 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.

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

Source: U.S. Census Bureau.

 ${\rm TABLE~9}$ U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 2012, BY CLASS 1

					Janua	ry–June
		2	Principal sources and destinations:		2	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	598	\$504	South Africa 313; \$198	2,040	\$2,160	Mexico 493; \$476
Manganites, manganates, and						
other permanganates			XX	44	393	China 18; \$45
Potassium permanganate	180	563	India 180; \$563	905	2,890	India 846; \$2,680
Sodium permanganate	38	93	China 38; \$93	125	307	China 125; \$307
Sulfates, basket category,						
including manganese sulfate	3,380	4,000	Mexico 1,240; \$1,150	25,200	24,900	Mexico 8,340; \$7,340
Exports:						
Manganese dioxide	989	1,640	Canada 549; \$412	4,690	7,860	Canada 2,660; \$2,200
Manganese oxides other than dioxide	930	1,320	Canada 338; \$423	4,960	7,540	Canada 1,430; \$1,700
Manganites, manganates, and						
other permanganates	9	23	Canada 9; \$23	130	357	Canada 114; \$299
Potassium permanganate	482	1,280	Belgium 316; \$765	1,880	4,820	Belgium 1,340; \$3,100
Sodium permanganate	97	229	Belgium 62; \$127	543	1,250	Belgium 244; \$459
Sulfates, basket category,						
including manganese sulfate	1,620	1,100	Canada 1,380; \$665	8,220	6,640	Canada 6,750; \$3,600

XX Not applicable. -- Zero.

³Free alongside ship.

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

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

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