

Mineral Industry Surveys

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MANGANESE IN FEBRUARY 2019

On a gross-weight basis, U.S. imports of manganese ore in February 2019 increased to 31,200 metric tons (t) from 8,660 t in January 2019 (fig. 1, table 5). Imports for the year through February totaled 39,900 t, 50% less compared with imports in the same period in 2018.

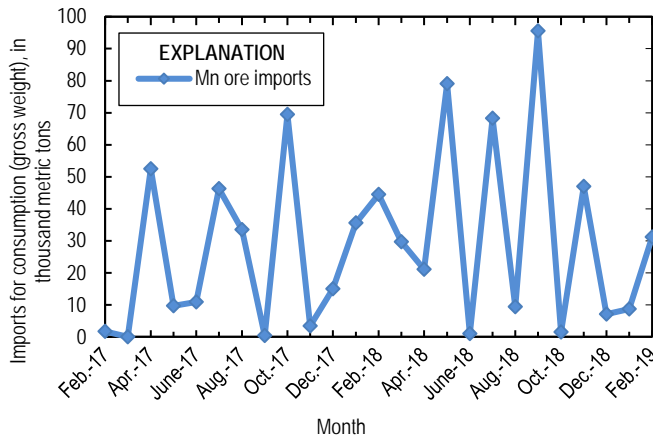


Figure 1. Monthly imports of manganese (Mn) ore from February 2017 through February 2019. Source: U.S. Census Bureau.

In February 2019, the average spot prices for manganese ore deliveries to China were \$5.86 per metric ton unit, 36%–39% grade, and \$6.48 per metric ton unit, 44% grade (fig. 2, table 1). Compared with January 2019 prices, the 36%–39%-grade price was essentially unchanged and the 44%-grade price was 5% less. Compared with the monthly average prices in February

2018, the 36%–39%-grade price was 19% less and the 44%-grade price was 11% less.

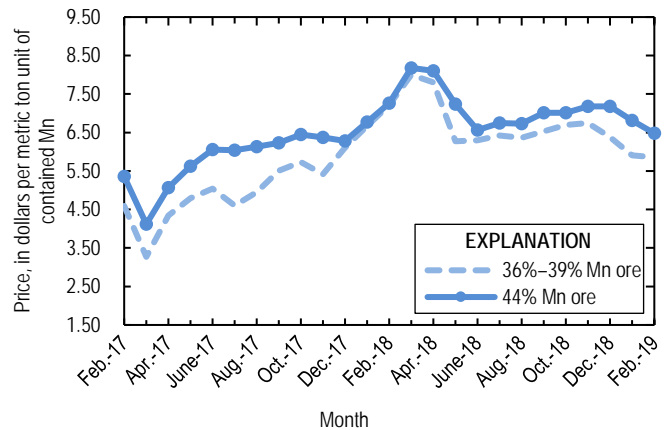


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from February 2017 through February 2019. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN FEBRUARY 2019

| | | Low | Average | High |
|---|---|----------|----------|----------|
| Manganese ferroalloys:¹ | | | | |
| High-carbon ferromanganese, 75% manganese | dollars per long ton of contained manganese | 1,320.00 | 1,337.50 | 1,355.00 |
| Medium-carbon ferromanganese, 85% manganese | cents per pound of contained manganese | 112.00 | 113.00 | 114.00 |
| Silicomanganese, 65% manganese | do. | 62.75 | 63.25 | 63.75 |
| Manganese metal, 99.9% manganese flake ² | cents per pound | 120.00 | 125.00 | 130.00 |
| Manganese ore:^{3, 4} | | | | |
| 36%–39% manganese | dollars per metric ton unit contained manganese | 5.65 | 5.86 | 6.10 |
| 44% manganese | do. | 6.45 | 6.48 | 6.50 |

do. Ditto.

¹Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²CRU Ryan'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.

³CRU Ryan'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 44 when the manganese content is 44%.

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 |
| 2018: | | | | | | |
| January | 17,300 | 66,800 | 84,100 | 18 | 221 | 239 |
| February | 23,200 | 34,700 | 57,900 | 47 | 805 | 852 |
| January–February | 40,500 | 102,000 ^r | 142,000 | 65 | 1,030 | 1,090 |
| 2019: | | | | | | |
| January | 4,670 | 27,000 | 31,600 | 19 | 1,690 | 1,710 |
| February | 12,300 | 66,700 | 79,100 | 94 | 1,840 | 1,930 |
| January–February | 17,000 | 93,700 | 111,000 | 113 | 3,520 | 3,640 |

^rRevised.

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

²As reported except as estimated for imports of manganese dioxide (60%), manganese metal (100%), and manganese waste and scrap (50%). Manganese contained in exports are estimated from reported gross weights, as follows: ferromanganese (79%), manganese dioxide (60%), manganese metal (100%), manganese ore (50%), and silicomanganese (66%).

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN FEBRUARY 2019¹

(Metric tons)

| Source | Gross weight | Mn content | Customs value ² | January–February ² | | |
|--------------|--------------|------------|----------------------------|-------------------------------|------------|----------------------------|
| | | | | Gross weight | Mn content | Customs value ³ |
| Australia | 16,000 | 10,600 | \$20,000,000 | 16,000 | 10,600 | \$20,000,000 |
| Georgia | 12,900 | 9,640 | 16,600,000 | 14,600 | 10,800 | 18,600,000 |
| Malaysia | 4,500 | 2,930 | 4,870,000 | 4,500 | 2,930 | 4,870,000 |
| Mexico | 60 | 37 | 135,000 | 2,300 | 1,490 | 2,690,000 |
| Norway | 1,010 | 665 | 1,250,000 | 2,460 | 1,600 | 2,980,000 |
| South Africa | 6,500 | 4,230 | 7,150,000 | 10,400 | 6,760 | 11,400,000 |
| Spain | -- | -- | -- | 3,000 | 1,970 | 3,340,000 |
| Total | 41,000 | 28,100 | 50,000,000 | 53,300 | 36,200 | 63,900,000 |

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

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 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN FEBRUARY 2019¹

(Metric tons)

| Source | Gross weight | Mn content | Customs value ² | January–February ² | | |
|-------------------------|--------------|------------|----------------------------|-------------------------------|------------|----------------------------|
| | | | | Gross weight | Mn content | Customs value ² |
| Low carbon: | | | | | | |
| China | 140 | 133 | \$264,000 | 320 | 304 | \$591,000 |
| Germany | 76 | 66 | 178,000 | 76 | 66 | 178,000 |
| Korea, Republic of | 301 | 277 | 672,000 | 1,100 | 953 | 2,300,000 |
| Mexico | 318 | 253 | 636,000 | 518 | 410 | 1,020,000 |
| Norway | 4,340 | 3,510 | 7,110,000 | 8,220 | 6,650 | 13,800,000 |
| South Africa | 27 | 25 | 46,900 | 81 | 73 | 138,000 |
| Spain | 450 | 362 | 731,000 | 1,290 | 1,030 | 2,130,000 |
| Total | 5,650 | 4,620 | 9,640,000 | 11,600 | 9,490 | 20,100,000 |
| Medium carbon, 1%–2% C: | | | | | | |
| Korea, Republic of | 2,000 | 1,600 | 3,180,000 | 4,200 | 3,360 | 6,700,000 |
| Malaysia | -- | -- | -- | 21 | 16 | 30,700 |
| Mexico | 283 | 223 | 461,000 | 1,170 | 919 | 1,830,000 |
| Norway | 2,500 | 2,030 | 3,780,000 | 2,800 | 2,270 | 4,240,000 |
| South Africa | 2,540 | 2,030 | 4,470,000 | 3,840 | 3,060 | 6,670,000 |
| Total | 7,320 | 5,880 | 11,900,000 | 12,000 | 9,620 | 19,500,000 |
| High carbon: | | | | | | |
| Australia | 13,100 | 9,950 | 14,600,000 | 13,100 | 9,950 | 14,600,000 |
| Brazil | 108 | 78 | 121,000 | 215 | 155 | 241,000 |
| Malaysia | 15,400 | 11,700 | 15,200,000 | 15,600 | 11,800 | 15,400,000 |
| Mexico | -- | -- | -- | 1 | 1 | 2,040 |
| Russia | 1,490 | 1,130 | 1,310,000 | 3,360 | 2,560 | 2,960,000 |
| Saudi Arabia | -- | -- | -- | 20 | 12 | 32,800 |
| South Africa | 1,410 | 1,060 | 1,630,000 | 4,300 | 3,250 | 5,140,000 |
| Ukraine | -- | -- | -- | 1,710 | 1,300 | 1,500,000 |
| Total | 31,400 | 23,900 | 32,800,000 | 38,200 | 29,000 | 39,800,000 |
| Grand total | 44,400 | 34,400 | 54,300,000 | 61,900 | 48,100 | 79,400,000 |

-- 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 2019¹

| Source | (Metric tons) | | | January–February ² | | |
|--|---------------|------------|----------------------------|-------------------------------|------------|----------------------------|
| | Gross weight | Mn content | Customs value ² | Gross weight | Mn content | Customs value ³ |
| More than 20%, but less than 47% manganese, South Africa | 24,700 | 8,890 | \$4,660,000 | 24,800 | 8,960 | \$4,700,000 |
| 47% or more manganese: | | | | | | |
| Brazil | 26 | 13 | 17,700 | 53 | 26 | 35,600 |
| Gabon | 6,500 | 3,250 | 1,540,000 | 14,900 | 7,570 | 4,410,000 |
| Morocco | -- | -- | -- | 39 | 22 | 50,900 |
| Turkey | -- | -- | -- | 4 | 3 | 2,380 |
| Total | 6,530 | 3,260 | 1,560,000 | 15,000 | 7,620 | 4,500,000 |
| Grand total | 31,200 | 12,200 | 6,220,000 | 39,900 | 16,600 | 9,200,000 |

-- 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 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE
IN FEBRUARY 2019¹

(Metric tons, gross weight)

| Source | Quantity | Customs value ² | January–February ² | |
|----------|----------|-------------------------------|-------------------------------|-------------------------------|
| | | | Quantity | Customs value ³ |
| Brazil | 13 | \$21,800 | 66 | \$112,000 |
| China | -- | -- | 17 | 49,700 |
| Germany | 4 | 18,200 | 4 | 18,200 |
| India | 17 | 27,000 | 17 | 27,000 |
| Japan | 252 | 545,000 | 594 | 1,300,000 |
| Slovakia | 13 | 22,500 | 13 | 22,500 |
| Total | 299 | 634,000 | 711 | 1,530,000 |

-- 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 2019¹

(Metric tons)

| Source | Gross weight | Customs value ² | January–February ² | |
|----------------------------------|--------------|----------------------------|-------------------------------|----------------------------|
| | | | Gross weight | Customs value ³ |
| Unwrought flake: | | | | |
| China | 795 | \$1,490,000 | 2,360 | \$4,940,000 |
| Japan | (3) | 279,000 | (3) | 415,000 |
| Mexico | -- | -- | 1 | 2,890 |
| South Africa | 300 | 784,000 | 684 | 2,060,000 |
| Total | 1,100 | 2,550,000 | 3,050 | 7,410,000 |
| Unwrought powder: | | | | |
| Mexico | 19 | 72,200 | 19 | 72,200 |
| South Africa | 80 | 214,000 | 279 | 806,000 |
| Total | 99 | 286,000 | 298 | 879,000 |
| Unwrought, other: | | | | |
| China | 2,650 | 5,380,000 | 5,070 | 10,500,000 |
| Germany | 301 | 702,000 | 589 | 1,400,000 |
| Poland | (3) | 6,310 | (3) | 6,310 |
| South Africa | 61 | 159,000 | 245 | 604,000 |
| Spain | -- | -- | 16 | 27,800 |
| Total | 3,010 | 6,250,000 | 5,920 | 12,500,000 |
| Other manganese, wrought: | | | | |
| Germany | 58 | 711,000 | 99 | 1,180,000 |
| Japan | (3) | 11,800 | (3) | 11,800 |
| Total | 58 | 723,000 | 99 | 1,190,000 |
| Grand total | 4,270 | 9,810,000 | 9,360 | 22,000,000 |

-- 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 OR LOCALITY OF DESTINATION
IN FEBRUARY 2019^{1,2}

| Source | Gross weight (metric tons) | F.a.s. ⁴ value (thousands) | January-February ³ | |
|---|-------------------------------|---|-------------------------------|---|
| | | | Gross weight (metric tons) | F.a.s. ⁴ value (thousands) |
| Ore and concentrates with 20% or more manganese: | | | | |
| Bahamas | -- | -- | 6 | \$6 |
| Canada | 21 | \$21 | 21 | 21 |
| Mexico | 7 | 7 | 7 | 7 |
| Netherlands | 160 | 175 | 192 | 354 |
| Total | 188 | 203 | 226 | 387 |
| Ferromanganese: | | | | |
| 2% or less carbon: | | | | |
| Canada | 524 | 931 | 1,010 | 1,790 |
| Chile | -- | -- | 9 | 17 |
| China | -- | -- | 24 | 47 |
| Total | 524 | 931 | 1,040 | 1,860 |
| More than 2% carbon, | | | | |
| Canada | 996 | 1,300 | 2,150 | 2,850 |
| United Kingdom | 2 | 5 | 2 | 5 |
| Total | 998 | 1,300 | 2,150 | 2,860 |
| Silicomanganese, Canada | -- | -- | 30 | 39 |
| Metal, including alloys and waste and scrap:⁵ | | | | |
| Canada | 6 | 35 | 8 | 48 |
| Costa Rica | (6) | 5 | (6) | 5 |
| Germany | -- | -- | (6) | 5 |
| Guatemala | 2 | 19 | 2 | 19 |
| India | -- | -- | 39 | 17 |
| Jamaica | -- | -- | 3 | 13 |
| Japan | -- | -- | 20 | 72 |
| Malaysia | 455 | 163 | 716 | 256 |
| Mexico | 11 | 57 | 15 | 174 |
| New Zealand | (6) | 5 | (6) | 5 |
| Pakistan | 160 | 50 | 180 | 56 |
| Total | 634 | 334 | 982 | 670 |
| Grand total | 2,340 | 2,760 | 4,430 | 5,800 |

-- Zero.

¹Presentation of monthly data is based on the February quantities of the leading countries.

²Data rounded to no more than three significant digits; may not add to totals shown.

³May include revised data that are not broken out by specific month(s).

⁴Free alongside ship.

⁵Includes manganese-aluminum, other alloys, and waste and scrap.

⁶Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN FEBRUARY 2019, BY CLASS¹

| Class | Gross weight (metric tons) | Value ² (thousands) | Principal sources and destinations: gross weight (metric tons); value ² (thousands) | January–February ² | | |
|--|-------------------------------|-----------------------------------|---|-------------------------------|-----------------------------------|---|
| | | | | 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 | 677 | \$501 | South Africa 276; \$166 | 4,800 | \$3,130 | South Africa 2,650; \$1,320 |
| Manganites, manganates, and other permanganates | -- | -- | -- | 19 | 44 | China 19; \$44 |
| Potassium permanganate | 77 | 202 | India 72; \$189 | 149 | 389 | India 143; \$376 |
| Sodium permanganate | 53 | 123 | China 52; \$123 | 167 | 377 | China 167; \$377 |
| Sulfates, basket category, including manganese sulfate | 2,740 | 2,610 | Mexico 1,480; \$1,030 | 7,010 | 6,400 | Mexico 3,650; \$2,430 |
| Exports: | | | | | | |
| Manganese dioxide | 511 | 797 | Canada 286; \$260 | 1,080 | 1,580 | Canada 671; \$647 |
| Manganese oxides other than dioxide | 335 | 607 | United Kingdom 114; \$134 | 663 | 1,190 | United Kingdom 171; \$209 |
| Manganites, manganates, and other permanganates | 26 | 79 | Mexico 19; \$63 | 28 | 85 | Mexico 19; \$66 |
| Potassium permanganate | 274 | 695 | Belgium 108; \$262 | 648 | 1,690 | Belgium 271; \$654 |
| Sodium permanganate | 110 | 255 | Belgium 76; \$165 | 127 | 313 | Belgium 76; \$165 |
| Sulfates, basket category, including manganese sulfate | 1,310 | 2,500 | Canada 816; \$826 | 3,020 | 5,140 | Canada 2,200; \$2,060 |

-- 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.