MANGANESE IN MAY 2021

On a gross-weight basis, U.S. imports of manganese ore in May 2021 were 644 metric tons (t), a decrease from 15,700 t in April 2021 (fig. 1, table 5). Imports for the first 5 months of 2021 were 23% less than those during the same period in 2020. Compared with the monthly average prices in May 2020, the 36%–38%-grade price was 33% less and the 44%-grade price was 22% less.

Figure 1. Monthly imports of manganese (Mn) ore from May 2019 through May 2021. Source: U.S. Census Bureau.

Prices

In May 2021, the average spot prices for manganese ore deliveries to China were $4.43 per metric ton unit, 36%–38% grade, and $4.86 per metric ton unit, 44% grade, slightly less and 4% less, respectively, than the April 2021 prices (fig. 2, table 1).

Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from May 2019 through May 2021. Source: CRU Group.

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# TABLE 1

PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN MAY 2021

<table>
<thead>
<tr>
<th>Manganese ferroalloys: ³</th>
<th>Low</th>
<th>Average</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-carbon ferromanganese, 76% manganese</td>
<td>$1,682.50</td>
<td>$1,701.25</td>
<td>$1,720.00</td>
</tr>
<tr>
<td>Medium-carbon ferromanganese, 85% manganese</td>
<td>134.00</td>
<td>135.00</td>
<td>136.00</td>
</tr>
<tr>
<td>Silicomanganese, 65% manganese</td>
<td>do.</td>
<td>72.75</td>
<td>73.38</td>
</tr>
</tbody>
</table>

| Manganese metal, 99.7% manganese flake ² | cents per pound | 132.00 | 149.19 | 163.00 |

<table>
<thead>
<tr>
<th>Manganese ore ³, ⁴</th>
<th>Low</th>
<th>Average</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>36%-38% manganese</td>
<td>do.</td>
<td>4.25</td>
<td>4.43</td>
</tr>
<tr>
<td>44% manganese</td>
<td>do.</td>
<td>4.80</td>
<td>4.86</td>
</tr>
</tbody>
</table>

---

³S&P Global Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²CRU Group, United States transaction prices, electrolytic manganese metal flake, 99.7% manganese, ex-works. Average prices are the average of the month high and low range.

³CRU Group, cost, insurance, and freight, China. Average prices are the average of the month high and low 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 MANGANESE

(Metric tons)

<table>
<thead>
<tr>
<th></th>
<th>Imports for consumption</th>
<th></th>
<th></th>
<th>Exports</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ore and dioxide</td>
<td>Ferroalloy and metal</td>
<td>Total</td>
<td>Ore</td>
<td>Ferroalloy and metal</td>
</tr>
<tr>
<td>2020: May</td>
<td>42,000 *</td>
<td>64,600 *</td>
<td>107,000 *</td>
<td>241 *</td>
<td>379 *</td>
</tr>
<tr>
<td>January–May</td>
<td>171,000 *</td>
<td>293,000 *</td>
<td>464,000 *</td>
<td>474 *</td>
<td>4,130 *</td>
</tr>
<tr>
<td>2021: January</td>
<td>989</td>
<td>24,600</td>
<td>25,500</td>
<td>83</td>
<td>2,930</td>
</tr>
<tr>
<td>February</td>
<td>49,400</td>
<td>71,300</td>
<td>121,000</td>
<td>77</td>
<td>2,670</td>
</tr>
<tr>
<td>March</td>
<td>64,200</td>
<td>65,800</td>
<td>130,000</td>
<td>50</td>
<td>1,940</td>
</tr>
<tr>
<td>April</td>
<td>16,700</td>
<td>22,800</td>
<td>39,500</td>
<td>52</td>
<td>1,260</td>
</tr>
<tr>
<td>May</td>
<td>1,000</td>
<td>58,600</td>
<td>59,600</td>
<td>412</td>
<td>1,650</td>
</tr>
<tr>
<td>January–May</td>
<td>132,000</td>
<td>243,000</td>
<td>375,000</td>
<td>673</td>
<td>10,500</td>
</tr>
</tbody>
</table>

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

Source: U.S. Census Bureau.
<table>
<thead>
<tr>
<th>Country or locality</th>
<th>Gross weight</th>
<th>Mn content</th>
<th>Value</th>
<th>Gross weight</th>
<th>Mn content</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>7,500</td>
<td>4,920</td>
<td>$10,100,000</td>
<td>20,100</td>
<td>13,200</td>
<td>$24,400,000</td>
</tr>
<tr>
<td>Brazil</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>913</td>
<td>603</td>
<td>983,000</td>
</tr>
<tr>
<td>Georgia</td>
<td>12,700</td>
<td>9,360</td>
<td>14,500,000</td>
<td>26,600</td>
<td>19,600</td>
<td>28,200,000</td>
</tr>
<tr>
<td>Malaysia</td>
<td>263</td>
<td>172</td>
<td>322,000</td>
<td>10,600</td>
<td>6,920</td>
<td>11,300,000</td>
</tr>
<tr>
<td>Mexico</td>
<td>144</td>
<td>92</td>
<td>155,000</td>
<td>2,270</td>
<td>1,470</td>
<td>2,600,000</td>
</tr>
<tr>
<td>Norway</td>
<td>1,150</td>
<td>698</td>
<td>1,850,000</td>
<td>10,600</td>
<td>6,570</td>
<td>13,600,000</td>
</tr>
<tr>
<td>Romania</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>20</td>
<td>13</td>
<td>25,400</td>
</tr>
<tr>
<td>Russia</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>2,690</td>
<td>469</td>
<td>3,370,000</td>
</tr>
<tr>
<td>South Africa</td>
<td>7,800</td>
<td>5,040</td>
<td>7,410,000</td>
<td>28,600</td>
<td>18,600</td>
<td>27,200,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>29,500</strong></td>
<td><strong>20,300</strong></td>
<td><strong>34,400,000</strong></td>
<td><strong>102,000</strong></td>
<td><strong>67,400</strong></td>
<td><strong>112,000,000</strong></td>
</tr>
</tbody>
</table>

---

1 Data are rounded to no more than three significant digits; may not add to totals shown.
2 Includes Harmonized Tariff Schedule of the United States code 7202.30.0000.
3 May include revisions to previously published data.

Source: U.S. Census Bureau.
### TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MAY 2021

(Metric tons, unless otherwise specified)

<table>
<thead>
<tr>
<th>Type and country or locality</th>
<th>HTS code</th>
<th>Gross weight</th>
<th>Mn content</th>
<th>Value</th>
<th>Gross weight</th>
<th>Mn content</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low carbon, less than 1% C:</td>
<td>7202.19.1000</td>
<td>2</td>
<td>2</td>
<td>$3,260</td>
<td>2</td>
<td>2</td>
<td>$3,260</td>
</tr>
<tr>
<td>Canada</td>
<td></td>
<td>2</td>
<td>2</td>
<td>3,260</td>
<td>2</td>
<td>2</td>
<td>3,260</td>
</tr>
<tr>
<td>India</td>
<td></td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>1</td>
<td>1</td>
<td>2,400</td>
</tr>
<tr>
<td>Japan</td>
<td></td>
<td>25</td>
<td>20</td>
<td>45,000</td>
<td>412</td>
<td>332</td>
<td>611,000</td>
</tr>
<tr>
<td>Norway</td>
<td></td>
<td>2,070</td>
<td>1,680</td>
<td>3,570,000</td>
<td>15,200</td>
<td>12,400</td>
<td>23,400,000</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>107</td>
<td>100</td>
<td>196,000</td>
<td>323</td>
<td>284</td>
<td>484,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>2,200</td>
<td>1,800</td>
<td>3,810,000</td>
<td>16,000</td>
<td>13,000</td>
<td>24,500,000</td>
</tr>
<tr>
<td>Medium carbon, 1%-2% C:</td>
<td>7202.19.5000</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>96</td>
<td>77</td>
<td>149,000</td>
</tr>
<tr>
<td>Japan</td>
<td></td>
<td>2,090</td>
<td>1,670</td>
<td>3,530,000</td>
<td>8,600</td>
<td>6,890</td>
<td>13,500,000</td>
</tr>
<tr>
<td>Korea, Republic of</td>
<td></td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>690</td>
<td>518</td>
<td>1,060,000</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td>300</td>
<td>245</td>
<td>519,000</td>
<td>2,250</td>
<td>1,840</td>
<td>2,910,000</td>
</tr>
<tr>
<td>Norway</td>
<td></td>
<td>1,970</td>
<td>1,590</td>
<td>2,680,000</td>
<td>7,330</td>
<td>5,880</td>
<td>9,960,000</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>1,970</td>
<td>1,590</td>
<td>2,680,000</td>
<td>7,330</td>
<td>5,880</td>
<td>9,960,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>4,350</td>
<td>3,500</td>
<td>6,720,000</td>
<td>19,000</td>
<td>15,200</td>
<td>27,600,000</td>
</tr>
<tr>
<td>High carbon, over 4% C:</td>
<td>7202.11.5000</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>21,100</td>
<td>16,100</td>
<td>26,000,000</td>
</tr>
<tr>
<td>Australia</td>
<td></td>
<td>366</td>
<td>282</td>
<td>550,000</td>
<td>588</td>
<td>454</td>
<td>882,000</td>
</tr>
<tr>
<td>France</td>
<td></td>
<td>1,670</td>
<td>1,060</td>
<td>1,620,000</td>
<td>7,940</td>
<td>5,700</td>
<td>7,870,000</td>
</tr>
<tr>
<td>Japan</td>
<td></td>
<td>2,000</td>
<td>1,520</td>
<td>2,600,000</td>
<td>9,000</td>
<td>6,980</td>
<td>10,900,000</td>
</tr>
<tr>
<td>Korea, Republic of</td>
<td></td>
<td>5,350</td>
<td>4,060</td>
<td>4,610,000</td>
<td>26,900</td>
<td>20,400</td>
<td>21,600,000</td>
</tr>
<tr>
<td>Malaysia</td>
<td></td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>500</td>
<td>395</td>
<td>371,000</td>
</tr>
<tr>
<td>Norway</td>
<td></td>
<td>2,480</td>
<td>1,940</td>
<td>3,180,000</td>
<td>6,250</td>
<td>3,890</td>
<td>6,860,000</td>
</tr>
<tr>
<td>Russia</td>
<td></td>
<td>5,750</td>
<td>4,330</td>
<td>6,290,000</td>
<td>12,500</td>
<td>9,500</td>
<td>13,100,000</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>2,310</td>
<td>1,760</td>
<td>2,170,000</td>
</tr>
<tr>
<td>Switzerland</td>
<td></td>
<td>191</td>
<td>148</td>
<td>221,000</td>
<td>490</td>
<td>379</td>
<td>553,000</td>
</tr>
<tr>
<td>Other [3 countries and (or) localities]</td>
<td>120</td>
<td>84</td>
<td>111,000</td>
<td>389</td>
<td>282</td>
<td>397,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17,900</td>
<td>12,400</td>
<td>19,200,000</td>
<td>88,000</td>
<td>65,900</td>
<td>90,700,000</td>
</tr>
<tr>
<td>Grand total</td>
<td></td>
<td>24,500</td>
<td>17,700</td>
<td>29,700,000</td>
<td>123,000</td>
<td>94,100</td>
<td>143,000,000</td>
</tr>
</tbody>
</table>

---

1. Data rounded to no more than three significant digits; may not add to totals shown.
2. May include revisions to previously published data.
4. Presentation of monthly data is based on the January–May quantities (gross weight) of the leading countries.

Source: U.S. Census Bureau.
## TABLE 5

### U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MAY 2021

(Metric tons, unless otherwise specified)

<table>
<thead>
<tr>
<th>Type and country or locality</th>
<th>HTS(^1) code</th>
<th>Gross weight</th>
<th>Mn content</th>
<th>Value</th>
<th>Gross weight</th>
<th>Mn content</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 20%, but less than 47% manganese:</td>
<td>2602.00.0040</td>
<td>188</td>
<td>87</td>
<td>45,000</td>
<td>27,100</td>
<td>10,600</td>
<td>$4,020,000</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td>--</td>
<td>--</td>
<td>12,600</td>
<td>4,790</td>
<td>$1,810,000</td>
<td></td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>188</td>
<td>87</td>
<td>$45,000</td>
<td>14,400</td>
<td>5,840</td>
<td>$2,210,000</td>
</tr>
<tr>
<td>Total</td>
<td>188</td>
<td>87</td>
<td>45,000</td>
<td>27,100</td>
<td>10,600</td>
<td>4,020,000</td>
<td></td>
</tr>
<tr>
<td>47% or more manganese:</td>
<td>2602.00.0060</td>
<td>456</td>
<td>286</td>
<td>204,000</td>
<td>1,320</td>
<td>748</td>
<td>582,000</td>
</tr>
<tr>
<td>France</td>
<td></td>
<td>--</td>
<td>--</td>
<td>1</td>
<td>1</td>
<td>2,020,000</td>
<td></td>
</tr>
<tr>
<td>Gabon</td>
<td></td>
<td>--</td>
<td>--</td>
<td>101,000</td>
<td>55,900</td>
<td>18,500,000</td>
<td></td>
</tr>
<tr>
<td>Morocco</td>
<td></td>
<td>456</td>
<td>286</td>
<td>204,000</td>
<td>1,320</td>
<td>748</td>
<td>582,000</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>--</td>
<td>--</td>
<td>700</td>
<td>340</td>
<td>266,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>456</td>
<td>286</td>
<td>204,000</td>
<td>1,320</td>
<td>748</td>
<td>582,000</td>
<td>21,400,000</td>
</tr>
<tr>
<td>Grand total</td>
<td>644</td>
<td>373</td>
<td>249,000</td>
<td>130,000</td>
<td>67,600</td>
<td>25,400,000</td>
<td></td>
</tr>
</tbody>
</table>

---

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

\(^2\)May include revisions to previously published data.

\(^3\)Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.
<table>
<thead>
<tr>
<th>Country or locality</th>
<th>January–May Gross weight</th>
<th>January–May Value</th>
<th>January–May Gross weight</th>
<th>January–May Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>19</td>
<td>$55,100</td>
<td>37</td>
<td>$144,000</td>
</tr>
<tr>
<td>Brazil</td>
<td>35</td>
<td>40,200</td>
<td>100</td>
<td>120,000</td>
</tr>
<tr>
<td>Canada</td>
<td>--</td>
<td>--</td>
<td>22</td>
<td>34,300</td>
</tr>
<tr>
<td>China</td>
<td>36</td>
<td>146,000</td>
<td>37</td>
<td>153,000</td>
</tr>
<tr>
<td>Greece</td>
<td>--</td>
<td>--</td>
<td>611</td>
<td>1,360,000</td>
</tr>
<tr>
<td>Japan</td>
<td>178</td>
<td>394,000</td>
<td>1,320</td>
<td>3,030,000</td>
</tr>
<tr>
<td>Mexico</td>
<td>21</td>
<td>35,600</td>
<td>42</td>
<td>71,200</td>
</tr>
<tr>
<td>Morocco</td>
<td>--</td>
<td>--</td>
<td>19</td>
<td>23,900</td>
</tr>
<tr>
<td>South Africa</td>
<td>38</td>
<td>89,800</td>
<td>285</td>
<td>659,000</td>
</tr>
<tr>
<td>Spain</td>
<td>14</td>
<td>23,300</td>
<td>45</td>
<td>75,800</td>
</tr>
<tr>
<td>Other [2 countries and (or) localities]</td>
<td>18</td>
<td>62,800</td>
<td>21</td>
<td>82,200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>359</strong></td>
<td><strong>847,000</strong></td>
<td><strong>2,540</strong></td>
<td><strong>5,760,000</strong></td>
</tr>
</tbody>
</table>

---

1. Data rounded to no more than three significant digits; may not add to totals shown.
2. Includes Harmonized Tariff Schedule of the United States code 2820.10.0000.
3. Presentation of monthly data is based on the January–May quantities (gross weight) of the leading countries.
4. May include revisions to previously published data.

Source: U.S. Census Bureau.
### TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MAY 2021
(Metric tons, unless otherwise specified)

<table>
<thead>
<tr>
<th>Type and country or locality</th>
<th>HTS code</th>
<th>Gross weight (Metric tons)</th>
<th>Value (dollars)</th>
<th>Gross weight (Metric tons)</th>
<th>Value (dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unwrought flake:</strong></td>
<td>8111.00.4700</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>China</td>
<td></td>
<td>19</td>
<td>527,600</td>
<td>2,450</td>
<td>4,030,000</td>
</tr>
<tr>
<td>Japan (4)</td>
<td></td>
<td>(4)</td>
<td>144,000</td>
<td>1</td>
<td>1,100,000</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td>2</td>
<td>6,900</td>
<td>2</td>
<td>6,900</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>530</td>
<td>1,290,000</td>
<td>2,050</td>
<td>4,540,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>551</td>
<td>1,470,000</td>
<td>4,500</td>
<td>9,670,000</td>
</tr>
<tr>
<td><strong>Unwrought powder:</strong></td>
<td>8111.00.4910</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>China</td>
<td></td>
<td>73</td>
<td>62,100</td>
<td>153</td>
<td>201,000</td>
</tr>
<tr>
<td>South Africa</td>
<td></td>
<td>243</td>
<td>582,000</td>
<td>770</td>
<td>1,930,000</td>
</tr>
<tr>
<td>United Kingdom</td>
<td></td>
<td>--</td>
<td>--</td>
<td>(4)</td>
<td>4,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>316</td>
<td>644,000</td>
<td>923</td>
<td>2,130,000</td>
</tr>
<tr>
<td><strong>Unwrought, other:</strong></td>
<td>8111.00.4990</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>China</td>
<td></td>
<td>3,560</td>
<td>7,470,000</td>
<td>9,470</td>
<td>17,100,000</td>
</tr>
<tr>
<td>Germany</td>
<td></td>
<td>97</td>
<td>207,000</td>
<td>656</td>
<td>1,350,000</td>
</tr>
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<td>20</td>
<td>43,100</td>
<td>183</td>
<td>423,000</td>
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<td></td>
<td>3,680</td>
<td>7,720,000</td>
<td>10,300</td>
<td>18,900,000</td>
</tr>
<tr>
<td><strong>Other manganese, wrought:</strong></td>
<td>8111.00.6000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
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<td>--</td>
<td>--</td>
<td>(4)</td>
<td>7,540</td>
</tr>
<tr>
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<td></td>
<td>4</td>
<td>16,300</td>
<td>10</td>
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</tr>
<tr>
<td>Germany</td>
<td></td>
<td>19</td>
<td>270,000</td>
<td>93</td>
<td>1,340,000</td>
</tr>
<tr>
<td>Japan (4)</td>
<td></td>
<td>(4)</td>
<td>18,100</td>
<td>(4)</td>
<td>18,100</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td>--</td>
<td>--</td>
<td>45</td>
<td>160,000</td>
</tr>
<tr>
<td>Sweden</td>
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<td>3</td>
<td>45,000</td>
<td>16</td>
<td>245,000</td>
</tr>
<tr>
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<td></td>
<td>--</td>
<td>--</td>
<td>(4)</td>
<td>9,720</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>25</td>
<td>350,000</td>
<td>164</td>
<td>1,820,000</td>
</tr>
<tr>
<td><strong>Metallic waste and scrap:</strong> 8111.00.3000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td></td>
<td>36</td>
<td>14,700</td>
<td>208</td>
<td>85,500</td>
</tr>
<tr>
<td>Japan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20,600</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>36</td>
<td>14,700</td>
<td>212</td>
<td>106,000</td>
</tr>
<tr>
<td><strong>Grand total</strong></td>
<td></td>
<td>4,610</td>
<td>10,200,000</td>
<td>16,100</td>
<td>32,600,000</td>
</tr>
</tbody>
</table>

---

1 Data rounded to no more than three significant digits; may not add to totals shown.
2 May include revisions to previously published data.
3 Harmonized Tariff Schedule of the United States.
4 Less 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 MAY 2021

(Metric tons, unless otherwise specified)

<table>
<thead>
<tr>
<th>Type and country or locality</th>
<th>HTS(^1) code</th>
<th>Gross weight</th>
<th>Value</th>
<th>Gross weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ore and concentrates with 20% or more manganese:</td>
<td>2602.00.0000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>--</td>
<td>--</td>
<td>20</td>
<td>$57,100</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>389</td>
<td>$202,000</td>
<td>472</td>
<td>287,000</td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>--</td>
<td>--</td>
<td>39</td>
<td>70,000</td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>10</td>
<td>10,000</td>
<td>104</td>
<td>70,500</td>
<td></td>
</tr>
<tr>
<td>Netherlands</td>
<td>14</td>
<td>52,500</td>
<td>14</td>
<td>52,500</td>
<td></td>
</tr>
<tr>
<td>United Kingdom</td>
<td>--</td>
<td>--</td>
<td>25</td>
<td>15,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>412</td>
<td>265,000</td>
<td>673</td>
<td>552,000</td>
<td></td>
</tr>
<tr>
<td>Ferromanganese:</td>
<td>7202.19.0000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2% or less carbon:</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Argentina</td>
<td>--</td>
<td>--</td>
<td>218</td>
<td>427,000</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>516</td>
<td>998,000</td>
<td>2,080</td>
<td>3,400,000</td>
<td></td>
</tr>
<tr>
<td>Chile</td>
<td>--</td>
<td>--</td>
<td>20</td>
<td>33,900</td>
<td></td>
</tr>
<tr>
<td>Romania</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>4,490</td>
<td></td>
</tr>
<tr>
<td>Uruguay</td>
<td>--</td>
<td>--</td>
<td>5</td>
<td>8,620</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>516</td>
<td>998,000</td>
<td>2,330</td>
<td>3,880,000</td>
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</tr>
<tr>
<td>More than 2% carbon:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Australia</td>
<td>--</td>
<td>--</td>
<td>1</td>
<td>3,960</td>
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</tr>
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<td>Canada</td>
<td>184</td>
<td>172,000</td>
<td>3,410</td>
<td>3,740,000</td>
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<td>Chile</td>
<td>--</td>
<td>--</td>
<td>10</td>
<td>28,000</td>
<td></td>
</tr>
<tr>
<td>China</td>
<td>--</td>
<td>--</td>
<td>15</td>
<td>42,200</td>
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</tr>
<tr>
<td>Costa Rica</td>
<td>1</td>
<td>3,030</td>
<td>1</td>
<td>3,030</td>
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</tr>
<tr>
<td>Finland</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>6,930</td>
<td></td>
</tr>
<tr>
<td>Indonesia</td>
<td>--</td>
<td>--</td>
<td>3</td>
<td>9,200</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>185</td>
<td>175,000</td>
<td>3,440</td>
<td>3,830,000</td>
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</tr>
<tr>
<td>Ferrosilicon manganese</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>20</td>
<td>39,200</td>
<td>2,060</td>
<td>2,520,000</td>
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</tr>
<tr>
<td>Colombia</td>
<td>--</td>
<td>--</td>
<td>203</td>
<td>299,000</td>
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<tr>
<td>Honduras</td>
<td>--</td>
<td>--</td>
<td>2</td>
<td>5,100</td>
<td></td>
</tr>
<tr>
<td>Peru</td>
<td>--</td>
<td>--</td>
<td>190</td>
<td>279,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>20</td>
<td>39,200</td>
<td>2,460</td>
<td>3,100,000</td>
<td></td>
</tr>
<tr>
<td>Metal, including alloys and waste and scrap(^4,(^5)</td>
<td>8111.00.0000</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>191</td>
<td>748,000</td>
<td>379</td>
<td>1,450,000</td>
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</tr>
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<td>Dominican Republic</td>
<td>--</td>
<td>--</td>
<td>48</td>
<td>130,000</td>
<td></td>
</tr>
<tr>
<td>Germany</td>
<td>--</td>
<td>--</td>
<td>67</td>
<td>385,000</td>
<td></td>
</tr>
<tr>
<td>India</td>
<td>--</td>
<td>--</td>
<td>20</td>
<td>12,300</td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>40</td>
<td>150,000</td>
<td>50</td>
<td>185,000</td>
<td></td>
</tr>
<tr>
<td>Korea, Republic of</td>
<td>--</td>
<td>--</td>
<td>25</td>
<td>9,140</td>
<td></td>
</tr>
<tr>
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<td>288,000</td>
<td>1,460</td>
<td>593,000</td>
<td></td>
</tr>
<tr>
<td>Netherlands</td>
<td>13</td>
<td>640,000</td>
<td>25</td>
<td>658,000</td>
<td></td>
</tr>
<tr>
<td>Turkey</td>
<td>--</td>
<td>--</td>
<td>29</td>
<td>10,600</td>
<td></td>
</tr>
<tr>
<td>Vietnam</td>
<td>--</td>
<td>--</td>
<td>100</td>
<td>80,000</td>
<td></td>
</tr>
<tr>
<td>Other [10 countries and (or) localities]</td>
<td>14</td>
<td>89,500</td>
<td>31</td>
<td>615,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>930</td>
<td>1,920,000</td>
<td>2,230</td>
<td>4,130,000</td>
<td></td>
</tr>
<tr>
<td>Grand total</td>
<td>2,060</td>
<td>3,390,000</td>
<td>11,100</td>
<td>15,500,000</td>
<td></td>
</tr>
</tbody>
</table>

---

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

\(^2\)May include revisions to previously published data.

\(^3\)Harmonized Tariff Schedule of the United States.

\(^4\)Presentation of monthly data is based on the January–May quantities (gross weight) of the leading countries.

\(^5\)Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.
### TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 2021

<table>
<thead>
<tr>
<th>Compound</th>
<th>HTS Code</th>
<th>Gross Weight (metric tons)</th>
<th>Value (thousands)</th>
<th>January–May</th>
<th>Gross Weight (metric tons)</th>
<th>Value (thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese oxides other than dioxide</td>
<td>2820.90.0000</td>
<td>1,950</td>
<td>$1,390</td>
<td>India 1,300; $915</td>
<td>12,400</td>
<td>$8,660</td>
</tr>
<tr>
<td>Manganites, manganates, and other permanganates</td>
<td>2841.69.0090</td>
<td>3</td>
<td>50</td>
<td>Korea, Republic of 3; $50.</td>
<td>18</td>
<td>300</td>
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<tr>
<td>Potassium permanganate</td>
<td>2841.61.0000</td>
<td>3</td>
<td>265</td>
<td>India 123; $259</td>
<td>341</td>
<td>761</td>
</tr>
<tr>
<td>Sodium permanganate</td>
<td>2841.69.0010</td>
<td>113</td>
<td>159</td>
<td>China 113; $159</td>
<td>478</td>
<td>751</td>
</tr>
<tr>
<td>Other sulfates, including manganese sulfate</td>
<td>2833.29.1000</td>
<td>7,360</td>
<td>5,820</td>
<td>China 2,400; $1,280</td>
<td>31,100</td>
<td>24,100</td>
</tr>
<tr>
<td>Exports:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manganese dioxide</td>
<td>2820.10.0000</td>
<td>1,050</td>
<td>1,250</td>
<td>Canada 555; $411</td>
<td>3,830</td>
<td>4,440</td>
</tr>
<tr>
<td>Manganese oxides other than dioxide</td>
<td>2820.90.0000</td>
<td>695</td>
<td>1,270</td>
<td>United Arab Emirates 342; $489.</td>
<td>2,850</td>
<td>5,660</td>
</tr>
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<td>Manganites, manganates, and other permanganates</td>
<td>2841.69.0090</td>
<td>38</td>
<td>110</td>
<td>Canada 38; $85.</td>
<td>82</td>
<td>227</td>
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<td>Potassium permanganate</td>
<td>2841.61.0000</td>
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<td>1,200</td>
<td>Belgium 181; $464.</td>
<td>1,250</td>
<td>3,650</td>
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<tr>
<td>Sodium permanganate</td>
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<td>62</td>
<td>183</td>
<td>Belgium 58; $131.</td>
<td>221</td>
<td>606</td>
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<tr>
<td>Other sulfates, including manganese sulfate</td>
<td>2833.29.1000</td>
<td>1,650</td>
<td>4,430</td>
<td>Canada 789; $595.</td>
<td>8,130</td>
<td>18,900</td>
</tr>
</tbody>
</table>

1Data are rounded to no more than three significant digits.
2May include revisions to previously published data.
3Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.