IRON ORE IN NOVEMBER 2022

Data are reported as gross weight unless otherwise noted and do not include iron metallics such as direct-reduced iron, hot-briquetted iron, iron nuggets, or pig iron.

U.S. mine production and shipments of iron ore in November 2022 were estimated to be 3.7 million metric tons (Mt) and 3.2 Mt, respectively (fig. 1, table 1). Average daily production of iron ore was 124,000 metric tons (t), an 8% increase from that in October and a 4% increase from that in November 2021. Average daily shipments of iron ore were 106,000 t, a 7% decrease from those in October and a 24% decrease from those in November 2021. Mine stocks were estimated to be 3.0 Mt at the end of November 2022, a 22% increase from those held at the end of October 2022, and a 37% increase from those held at the end of November 2021 (fig. 1, table 1).

U.S. exports of iron ore were 1.2 Mt in November 2022, a slight increase from those in October and a 20% decrease from those in November 2021 (fig. 2, tables 3, 6). U.S. imports of iron ore were 199,000 t in November 2022, a 29% increase from those in October and a 4% decrease from those in November 2021 (fig. 2, tables 4, 6). The spot price for imported iron ore fines, 62% iron content, cost and freight, at Tianjin Port, China, was $93.34 per dry metric ton in November 2022, essentially unchanged from $92.56 per dry metric ton in October 2022 (fig. 2).

Figure 1. Monthly domestic production, shipments, and stocks of iron ore from November 2020 through November 2022.

Figure 2. Monthly domestic imports and exports of iron ore and spot prices for imported iron ore fines, 62% iron content, cost and freight (CFR), at Tianjin Port, China, from November 2020 through November 2022. Source: U.S. Census Bureau and IndexMundi, undated.

List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe, go to https://www.usgs.gov/centers/national-minerals-information-center/minerals-information-publication-list-services
<table>
<thead>
<tr>
<th>Period</th>
<th>Production Monthly</th>
<th>Production Year to date</th>
<th>Shipments Monthly</th>
<th>Shipments Year to date</th>
<th>Stocks End of Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>3,600</td>
<td>45,200</td>
<td>4,170</td>
<td>46,300</td>
<td>2,170</td>
</tr>
<tr>
<td>December</td>
<td>3,510</td>
<td>48,700</td>
<td>4,340</td>
<td>50,600</td>
<td>1,340</td>
</tr>
<tr>
<td>2022:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>3,400</td>
<td>3,400</td>
<td>1,690</td>
<td>1,690</td>
<td>3,170</td>
</tr>
<tr>
<td>February</td>
<td>3,440</td>
<td>6,840</td>
<td>510</td>
<td>2,200</td>
<td>6,100</td>
</tr>
<tr>
<td>March</td>
<td>3,690</td>
<td>10,500</td>
<td>1,930</td>
<td>4,130</td>
<td>7,860</td>
</tr>
<tr>
<td>April</td>
<td>3,820</td>
<td>14,400</td>
<td>4,350</td>
<td>8,480</td>
<td>7,330</td>
</tr>
<tr>
<td>May</td>
<td>4,110</td>
<td>18,500</td>
<td>5,140</td>
<td>13,600</td>
<td>6,300</td>
</tr>
<tr>
<td>June</td>
<td>4,150</td>
<td>22,600</td>
<td>5,410</td>
<td>19,000</td>
<td>5,040</td>
</tr>
<tr>
<td>July</td>
<td>4,190</td>
<td>26,800</td>
<td>5,690</td>
<td>24,700</td>
<td>3,540</td>
</tr>
<tr>
<td>August</td>
<td>3,910</td>
<td>30,700</td>
<td>4,300</td>
<td>29,000</td>
<td>3,150</td>
</tr>
<tr>
<td>September</td>
<td>3,510</td>
<td>34,200</td>
<td>4,230</td>
<td>33,300</td>
<td>2,430</td>
</tr>
<tr>
<td>October</td>
<td>3,570</td>
<td>37,800</td>
<td>3,560</td>
<td>36,800</td>
<td>2,440</td>
</tr>
<tr>
<td>November</td>
<td>3,730</td>
<td>41,500</td>
<td>3,190</td>
<td>40,000</td>
<td>2,980</td>
</tr>
</tbody>
</table>

1Data are rounded to no more than three significant digits.
2Data are estimated based on publicly reported data, employment hours, and historical ratios. Excludes byproduct ores and iron metallics.
3Includes rail and vessel.
## TABLE 2
U.S. PRODUCTION OF PIG IRON AND RAW STEEL, BY TYPE OF FURNACE

(Thousand metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Pig iron production</th>
<th>Raw steel production</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Monthly</td>
<td>Year to date</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>1,930</td>
<td>21,500</td>
</tr>
<tr>
<td>December</td>
<td>1,940</td>
<td>23,400</td>
</tr>
<tr>
<td>2022:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>1,740</td>
<td>1,740</td>
</tr>
<tr>
<td>February</td>
<td>1,640</td>
<td>3,380</td>
</tr>
<tr>
<td>March</td>
<td>1,820</td>
<td>5,200</td>
</tr>
<tr>
<td>April</td>
<td>1,840</td>
<td>7,040</td>
</tr>
<tr>
<td>May</td>
<td>1,850</td>
<td>8,890</td>
</tr>
<tr>
<td>June</td>
<td>1,750</td>
<td>10,600</td>
</tr>
<tr>
<td>July</td>
<td>1,710</td>
<td>12,400</td>
</tr>
<tr>
<td>August</td>
<td>1,720</td>
<td>14,100</td>
</tr>
<tr>
<td>September</td>
<td>1,630</td>
<td>15,700</td>
</tr>
<tr>
<td>October</td>
<td>1,650</td>
<td>17,400</td>
</tr>
<tr>
<td>November</td>
<td>1,550</td>
<td>18,900</td>
</tr>
</tbody>
</table>

¹Data are rounded to no more than three significant digits.
²Pig iron data are estimated based on historical ratios.

<table>
<thead>
<tr>
<th>Country or locality and type of product</th>
<th>2021 - January–November</th>
<th>2021 - November</th>
<th>2022 - January–November</th>
<th>2022 - November</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity (thousand metric tons)</td>
<td>Value (thousand dollars)</td>
<td>Quantity (thousand metric tons)</td>
<td>Value (thousand dollars)</td>
</tr>
<tr>
<td>Canada</td>
<td>7,770 '</td>
<td>917</td>
<td>87,900</td>
<td>7,070</td>
</tr>
<tr>
<td>China</td>
<td>1,450</td>
<td>142</td>
<td>21,800</td>
<td>1,400</td>
</tr>
<tr>
<td>France</td>
<td>--</td>
<td>54</td>
<td>4,600</td>
<td>351</td>
</tr>
<tr>
<td>Netherlands</td>
<td>324</td>
<td>93</td>
<td>7,910</td>
<td>479</td>
</tr>
<tr>
<td>Other</td>
<td>3,490 '</td>
<td>(4)</td>
<td>94</td>
<td>117</td>
</tr>
<tr>
<td>Total</td>
<td>13,000 '</td>
<td>1,210</td>
<td>122,000</td>
<td>10,600</td>
</tr>
<tr>
<td>Concentrates</td>
<td>1,550</td>
<td>145</td>
<td>23,300</td>
<td>1,710</td>
</tr>
<tr>
<td>Fine ores</td>
<td>2</td>
<td>(4)</td>
<td>42</td>
<td>2</td>
</tr>
<tr>
<td>Pellets</td>
<td>11,000 '</td>
<td>1,060</td>
<td>99,000</td>
<td>8,700</td>
</tr>
<tr>
<td>Other</td>
<td>492</td>
<td>(4)</td>
<td>9</td>
<td>194</td>
</tr>
<tr>
<td>Total</td>
<td>13,000 '</td>
<td>1,210</td>
<td>122,000</td>
<td>10,600</td>
</tr>
</tbody>
</table>

1Revised. -- Zero.  
2Data are rounded to no more than three significant digits; may not add to totals shown.  
3All countries with quantities less than 5,000 metric tons for the month included in “Other.”  
4Free alongside ship (FAS) value.  
5Less than ½ unit.  

Source: U.S. Census Bureau.
### TABLE 4

**U.S. IMPORTS FOR CONSUMPTION OF IRON ORE, BY COUNTRY OR LOCALITY AND TYPE**

<table>
<thead>
<tr>
<th>Country or locality of origin and type of product</th>
<th>2021 January–November</th>
<th>2021 November</th>
<th>2022 January–November</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity (thousand metric tons)</td>
<td>Value (thousand dollars)</td>
<td>Quantity (thousand metric tons)</td>
<td>Value (thousand dollars)</td>
</tr>
<tr>
<td>Brazil</td>
<td>1,960 135 24,300 1,590 326,000 205.56</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweden</td>
<td>348 64 7,480 342 64,600 188.92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>1,200 95 963 197,000 204.74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,510 199 31,900 2,890 588,000 203.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentrates</td>
<td>233 12 61 6,840 112.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Ores</td>
<td>231 56 6,600 187 23,100 123.40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pellets</td>
<td>3,020 135 24,300 2,630 555,000 211.33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>26 8 966 14 2,280 164.07</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>3,510 199 31,900 2,890 588,000 203.32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1Revised.
2Data are rounded to no more than three significant digits; may not add to totals shown.
3All countries with quantities less than 5,000 metric tons for the month included in “Other.”
4Customs value. Excludes international freight and insurance charges.
5Less than ½ unit.

Source: U.S. Census Bureau.
### U.S. IMPORTS FOR CONSUMPTION OF IRON ORE, BY CUSTOMS DISTRICT\(^1,2\)

(Thousand metric tons)

<table>
<thead>
<tr>
<th>Customs district (code no.)</th>
<th>Pellets</th>
<th>Total, all products</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>January–November</td>
<td>November</td>
</tr>
<tr>
<td></td>
<td>2021</td>
<td>2022</td>
</tr>
<tr>
<td>Los Angeles, CA (27)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>New Orleans, LA (20)</td>
<td>2,910</td>
<td>2,550</td>
</tr>
<tr>
<td>Tampa, FL (18)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Other</td>
<td>103</td>
<td>76</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,020</td>
<td>2,630</td>
</tr>
</tbody>
</table>

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

\(^{2}\)Customs Districts with less than 5,000 metric tons of imports per month included in “Other.”

\(^{3}\)Less than ½ unit.

Source: U.S. Census Bureau.
TABLE 6
U.S. IRON ORE TRADE SUMMARY1
(Thousand metric tons and thousand dollars)

<table>
<thead>
<tr>
<th>Period</th>
<th>Exports</th>
<th>Imports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>Value2</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–November</td>
<td>13,000</td>
<td>1,170,000</td>
</tr>
<tr>
<td>November</td>
<td>1,500</td>
<td>114,000</td>
</tr>
<tr>
<td>December</td>
<td>1,360</td>
<td>115,000</td>
</tr>
<tr>
<td>January–December</td>
<td>14,400</td>
<td>1,290,000</td>
</tr>
<tr>
<td>2022:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>531</td>
<td>48,200</td>
</tr>
<tr>
<td>February</td>
<td>521</td>
<td>66,800</td>
</tr>
<tr>
<td>March</td>
<td>489</td>
<td>45,900</td>
</tr>
<tr>
<td>April</td>
<td>1,040</td>
<td>85,600</td>
</tr>
<tr>
<td>May</td>
<td>1,410</td>
<td>127,000</td>
</tr>
<tr>
<td>June</td>
<td>860</td>
<td>92,100</td>
</tr>
<tr>
<td>July</td>
<td>1,100</td>
<td>124,000</td>
</tr>
<tr>
<td>August</td>
<td>988</td>
<td>92,400</td>
</tr>
<tr>
<td>September</td>
<td>1,390</td>
<td>140,000</td>
</tr>
<tr>
<td>October</td>
<td>1,180</td>
<td>115,000</td>
</tr>
<tr>
<td>November</td>
<td>1,210</td>
<td>122,000</td>
</tr>
<tr>
<td>January–November</td>
<td>10,600</td>
<td>1,060,000</td>
</tr>
</tbody>
</table>

1Data are rounded to no more than three significant digits; may not add to totals shown.
2Free alongside ship (FAS) value.
3Customs value. Excludes international freight and insurance charges.

Source: U.S. Census Bureau.