In November 2023, mine production of recoverable copper in the United States was 91,400 metric tons (t). The average daily mine output was 3,050 t, essentially unchanged from that in October and 8% less than that in November 2022 (fig. 1). Year-to-date mine production through November 2023 was 1.02 million metric tons, a decrease of 10% compared with that in the same time period in 2022 (table 2). Production declined at a majority of U.S. copper mines in 2023 because of reduced copper ore grades, lower mining rates, and (or) unplanned maintenance.

Total U.S. refinery production of copper in November 2023 was 60,700 t; data for electrolytic and electrowon output, as well as refined production from scrap, are reported in table 4. The average daily refinery production was 2,020 t, 5% less than that in October and a decrease of 21% compared with that in November 2022 (fig. 1). Year-to-date refinery output through November 2023 was 788,000 t, a decline of 10% relative to the same time period in 2022. Domestic refined copper production in 2023 was affected by a major rebuild of the Rio Tinto Group smelter and electrolytic refinery near Salt Lake City, UT, that began in May and was completed in October (Rio Tinto Group, 2023a, p. 14; 2023b, p. 13).

Prices

In November 2023, the average Commodity Exchange Inc. (COMEX) copper price was $3.72 per pound, 3% higher than $3.60 per pound in October and essentially unchanged from $3.68 per pound in November 2022 (fig. 2, table 11). The average U.S. dealers buying price of number 2 copper scrap was $2.80 per pound in November 2023, a slight decrease from $2.85 per pound in October and 7% greater than $2.62 per pound in November 2022 (fig. 2, table 12).
Stocks
Refined copper stocks in the United States totaled 145,000 t as of the end of November 2023, essentially unchanged compared with those in October and an increase of 52% from those in November 2022. Total stocks at producers and fabricators (brass mills, refineries, wire-rod mills, and other manufacturers) decreased by 5,340 t (13%) and total stocks at exchanges (COMEX and London Metal Exchange Ltd.) increased by 6,150 t (6%) from those at the end of October (fig. 3, table 10).

Figure 3. Domestic refined copper stocks at end of month, by type, from November 2021 through November 2023. Sources: London Metal Exchange Ltd., S&P Global Platts Metals Week, and U.S. Geological Survey.

Industry News
Panama.—On November 28, the Government of Panama ordered the closure of the Cobre Panama Mine, majority-owned by First Quantum Minerals Ltd., following a ruling by the Supreme Court that voided the concession contract. It was unclear if the shutdown would be permanent or if the Government would be willing to renegotiate the agreement (Keen, 2023). First Quantum also announced on November 28 that it had suspended production at Cobre Panama in response to blockades of mine access roads and the Punta Rincon port, which had disrupted operations since late September (Carino, Jr., 2023; First Quantum Minerals Ltd., 2023a). In 2022, Cobre Panama was one of the leading copper mines in the world and produced 350,000 t of copper in concentrates (First Quantum Minerals Ltd., 2023b, p. 61).

References Cited
Keen, Kip, 2023, Panama plan to shutter First Quantum mine puts debt, copper supply in crosshairs: S&P Capital IQ, November 30. (Accessed December 1, 2023, via https://www.capitaliq.spglobal.com/.)

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<table>
<thead>
<tr>
<th>Source</th>
<th>2023</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Jan–Nov</td>
<td>Sep</td>
</tr>
<tr>
<td><strong>Production:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Primary (from ore):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine, recoverable&lt;sup&gt;3&lt;/sup&gt;</td>
<td>912,000</td>
<td>62,400</td>
</tr>
<tr>
<td>Smelter&lt;sup&gt;4&lt;/sup&gt;</td>
<td>912,000</td>
<td>62,400</td>
</tr>
<tr>
<td><strong>Refinery:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrolytic</td>
<td>357,000</td>
<td>20,000</td>
</tr>
<tr>
<td>Electrowon</td>
<td>555,000</td>
<td>42,400</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>912,000</td>
<td>62,400</td>
</tr>
<tr>
<td><strong>Secondary (from copper-base scrap):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refineries&lt;sup&gt;6&lt;/sup&gt;</td>
<td>40,000</td>
<td>3,300</td>
</tr>
<tr>
<td>Ingot makers&lt;sup&gt;7&lt;/sup&gt;</td>
<td>39,500</td>
<td>3,290</td>
</tr>
<tr>
<td>Brass and wire-rod mills</td>
<td>650,000</td>
<td>54,700</td>
</tr>
<tr>
<td>Foundries, etc.&lt;sup&gt;6&lt;/sup&gt;</td>
<td>40,000</td>
<td>3,330</td>
</tr>
<tr>
<td><strong>Consumption:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reported, refined copper</td>
<td>1,720,000</td>
<td>135,000</td>
</tr>
<tr>
<td>Apparent, primary refined copper and copper from old scrap&lt;sup&gt;8&lt;/sup&gt;</td>
<td>1,800,000</td>
<td>110,000</td>
</tr>
<tr>
<td>Reported, purchased copper-base scrap (gross weight)</td>
<td>890,000</td>
<td>74,500</td>
</tr>
<tr>
<td><strong>Stocks at end of period:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blister and anodes</td>
<td>13,300</td>
<td>15,000</td>
</tr>
<tr>
<td>Refined&lt;sup&gt;9&lt;/sup&gt;</td>
<td>82,800</td>
<td>126,000</td>
</tr>
<tr>
<td>Price, U.S. producers cathode (cents per pound)&lt;sup&gt;10&lt;/sup&gt;</td>
<td>410.775</td>
<td>382.360</td>
</tr>
<tr>
<td>Imports for consumption&lt;sup&gt;11&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ore and concentrates</td>
<td>11,700</td>
<td>--</td>
</tr>
<tr>
<td>Refined</td>
<td>732,000</td>
<td>59,700</td>
</tr>
<tr>
<td>Exports&lt;sup&gt;11&lt;/sup&gt;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ore and concentrates</td>
<td>353,000</td>
<td>23,000</td>
</tr>
<tr>
<td>Refined</td>
<td>27,600</td>
<td>3,650</td>
</tr>
</tbody>
</table>

<sup>1</sup> Data are rounded to no more than three significant digits, except prices; may not add to totals shown.
<sup>2</sup> Numbers in parentheses refer to the tables where these data are located.
<sup>3</sup> Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.
<sup>4</sup> Consists of primary production in 2022 and primary and secondary production in 2023.
<sup>5</sup> Copper recovered from copper-base scrap and converted to refined metal, alloys, and other forms. Does not include copper recovered from scrap other than copper-base.
<sup>6</sup> Electrolytically refined and fire-refined copper.
<sup>7</sup> Plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2021 not yet available. Monthly data are estimated based on the monthly average of 2021 annual data.
<sup>8</sup> Primary refined copper production plus copper recovered from old scrap (of copper-base and non-copper-base) plus refined imports for consumption minus refined exports, including adjustments for refined stock changes. Old scrap consists of copper items used by consumers.
<sup>9</sup> Stocks of refined copper at brass mills, exchanges, refineries, wire-rod mills, and other manufacturers.
<sup>10</sup> Source: S&P Global Platts Metals Week. Sum of the monthly average Commodity Exchange Inc. (COMEX) price and monthly average New York dealers cathode premium; reflects the delivered spot price of copper cathode to U.S. consumers by U.S. producers.
<sup>11</sup> Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.

---

**SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES**

(Metric tons, copper content, unless otherwise specified)


<table>
<thead>
<tr>
<th>Period</th>
<th>Recoverable copper</th>
<th>Contained copper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arizona</td>
<td>Others</td>
</tr>
<tr>
<td><strong>2022:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–November</td>
<td>784,000</td>
<td>347,000</td>
</tr>
<tr>
<td>November</td>
<td>66,800</td>
<td>32,400</td>
</tr>
<tr>
<td>December</td>
<td>71,400</td>
<td>31,200</td>
</tr>
<tr>
<td>January–December</td>
<td>855,000</td>
<td>378,000</td>
</tr>
<tr>
<td><strong>2023:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>67,900</td>
<td>25,000</td>
</tr>
<tr>
<td>February</td>
<td>62,400</td>
<td>23,200</td>
</tr>
<tr>
<td>March</td>
<td>66,100</td>
<td>24,100</td>
</tr>
<tr>
<td>April</td>
<td>68,000</td>
<td>23,000</td>
</tr>
<tr>
<td>May</td>
<td>66,800</td>
<td>24,800</td>
</tr>
<tr>
<td>June</td>
<td>69,300</td>
<td>23,600</td>
</tr>
<tr>
<td>July</td>
<td>69,200</td>
<td>31,400</td>
</tr>
<tr>
<td>August</td>
<td>67,400</td>
<td>29,500</td>
</tr>
<tr>
<td>September</td>
<td>65,000</td>
<td>28,100</td>
</tr>
<tr>
<td>October</td>
<td>64,500</td>
<td>28,700</td>
</tr>
<tr>
<td>November</td>
<td>63,400</td>
<td>28,000</td>
</tr>
<tr>
<td><strong>January–November</strong></td>
<td>730,000</td>
<td>289,000</td>
</tr>
</tbody>
</table>

---

1Preliminary. 2Revised.

1Data are rounded to no more than three significant digits; may not add to totals shown.
2Includes the recoverable copper content of concentrates (of copper and other metals), copper produced by solvent extraction and electrowinning, and copper recovered as precipitates.
3Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.
4Also includes copper recovered as precipitates.
TABLE 3
COPPER PRODUCED AT SMELTERS IN THE UNITED STATES\(^{1,2}\)

(Metric tons, copper content)

<table>
<thead>
<tr>
<th>Period</th>
<th>Anode production(^{5,3})</th>
</tr>
</thead>
<tbody>
<tr>
<td>January–November</td>
<td>328,000</td>
</tr>
<tr>
<td>November</td>
<td>29,400</td>
</tr>
<tr>
<td>December</td>
<td>29,400</td>
</tr>
<tr>
<td>January–December</td>
<td>357,000</td>
</tr>
<tr>
<td>2023: January</td>
<td>40,000</td>
</tr>
<tr>
<td>February</td>
<td>40,000</td>
</tr>
<tr>
<td>March</td>
<td>40,000</td>
</tr>
<tr>
<td>April</td>
<td>30,000</td>
</tr>
<tr>
<td>May</td>
<td>30,000</td>
</tr>
<tr>
<td>June</td>
<td>30,000</td>
</tr>
<tr>
<td>July</td>
<td>25,000</td>
</tr>
<tr>
<td>August</td>
<td>25,000</td>
</tr>
<tr>
<td>September</td>
<td>25,000</td>
</tr>
<tr>
<td>October</td>
<td>25,000</td>
</tr>
<tr>
<td>November</td>
<td>25,000</td>
</tr>
<tr>
<td>January–November</td>
<td>335,000</td>
</tr>
</tbody>
</table>

\(^{5}\)Estimated. \(^{6}\)Preliminary.

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

\(^{2}\)Data reflect primary production in 2022 and primary and secondary production in 2023.

\(^{3}\)To avoid disclosing company proprietary data, anode production data are estimated based on public information and do not reflect output reported to the U.S. Geological Survey.
TABLE 4
U.S. PRODUCTION OF REFINED COPPER\(^1\)

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Total From primary materials</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2022:</td>
<td>From primary materials</td>
<td>Electrolytic(^2)</td>
<td>Electrowon</td>
<td>Total</td>
<td>From</td>
</tr>
<tr>
<td>January–November</td>
<td></td>
<td>328,000</td>
<td>508,000</td>
<td>836,000</td>
<td>36,800</td>
</tr>
<tr>
<td>November</td>
<td></td>
<td>29,400</td>
<td>44,500</td>
<td>73,900</td>
<td>3,280</td>
</tr>
<tr>
<td>December</td>
<td></td>
<td>29,400</td>
<td>46,900</td>
<td>76,300</td>
<td>3,240</td>
</tr>
<tr>
<td>January–December</td>
<td></td>
<td>357,000</td>
<td>555,000</td>
<td>912,000</td>
<td>40,000</td>
</tr>
<tr>
<td>2023:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td></td>
<td>35,000</td>
<td>45,400</td>
<td>80,400</td>
<td>3,220</td>
</tr>
<tr>
<td>February</td>
<td></td>
<td>35,000</td>
<td>37,700</td>
<td>72,700</td>
<td>3,230</td>
</tr>
<tr>
<td>March</td>
<td></td>
<td>35,000</td>
<td>43,300</td>
<td>78,300</td>
<td>3,220</td>
</tr>
<tr>
<td>April</td>
<td></td>
<td>25,000</td>
<td>43,300</td>
<td>68,300</td>
<td>3,220</td>
</tr>
<tr>
<td>May</td>
<td></td>
<td>25,000</td>
<td>42,100</td>
<td>67,100</td>
<td>3,260</td>
</tr>
<tr>
<td>June</td>
<td></td>
<td>25,000</td>
<td>45,800</td>
<td>70,800</td>
<td>3,230</td>
</tr>
<tr>
<td>July</td>
<td></td>
<td>20,000</td>
<td>47,500</td>
<td>67,500</td>
<td>3,270</td>
</tr>
<tr>
<td>August</td>
<td></td>
<td>20,000</td>
<td>44,300</td>
<td>64,300</td>
<td>3,220</td>
</tr>
<tr>
<td>September</td>
<td></td>
<td>20,000</td>
<td>42,400</td>
<td>62,400</td>
<td>3,300</td>
</tr>
<tr>
<td>October</td>
<td></td>
<td>20,000</td>
<td>42,900</td>
<td>62,900</td>
<td>3,250</td>
</tr>
<tr>
<td>November</td>
<td></td>
<td>20,000</td>
<td>37,500</td>
<td>57,500</td>
<td>3,220</td>
</tr>
<tr>
<td>January–November</td>
<td></td>
<td>280,000</td>
<td>472,000</td>
<td>752,000</td>
<td>35,600</td>
</tr>
</tbody>
</table>

\(^{\text{a}}\)Estimated. \(^{\text{b}}\)Preliminary.

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

\(^2\)Electrolytic production data in 2022 are sourced from quarterly company reports. To avoid disclosing company proprietary data, electrolytic production data in 2023 are estimated based on public information and do not reflect output reported to the U.S. Geological Survey.

\(^3\)Electrolytically refined and fire-refined copper.
TABLE 5
COPPER RECOVERED AS REFINED COPPER AND IN ALLOYS AND OTHER FORMS FROM PURCHASED COPPER-BASE SCRAP IN THE UNITED STATES\(^1,2\)

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Refineries(^3)</th>
<th>Ingot makers(^4)</th>
<th>Brass and wire-rod mills</th>
<th>Foundries, etc.(^{e,4})</th>
<th>Total(^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New scrap(^5)</td>
<td>Old scrap</td>
<td>New scrap</td>
<td>Old scrap</td>
<td>New scrap</td>
</tr>
<tr>
<td>2022:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–November</td>
<td>18,400</td>
<td>18,400</td>
<td>3,850</td>
<td>32,300</td>
<td>8,140</td>
</tr>
<tr>
<td>November</td>
<td>1,680</td>
<td>1,600</td>
<td>350</td>
<td>2,940</td>
<td>51,800</td>
</tr>
<tr>
<td>December</td>
<td>1,680</td>
<td>1,560</td>
<td>350</td>
<td>2,940</td>
<td>51,800</td>
</tr>
<tr>
<td>January–December</td>
<td>20,100</td>
<td>19,900</td>
<td>4,200</td>
<td>35,300</td>
<td>608,000</td>
</tr>
<tr>
<td>2023:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>1,680</td>
<td>1,540</td>
<td>350</td>
<td>2,940</td>
<td>54,300</td>
</tr>
<tr>
<td>February</td>
<td>1,680</td>
<td>1,550</td>
<td>350</td>
<td>2,940</td>
<td>53,000</td>
</tr>
<tr>
<td>March</td>
<td>1,680</td>
<td>1,540</td>
<td>350</td>
<td>2,940</td>
<td>53,400</td>
</tr>
<tr>
<td>April</td>
<td>1,680</td>
<td>1,540</td>
<td>350</td>
<td>2,940</td>
<td>52,500</td>
</tr>
<tr>
<td>May</td>
<td>1,680</td>
<td>1,580</td>
<td>350</td>
<td>2,940</td>
<td>51,900</td>
</tr>
<tr>
<td>June</td>
<td>1,680</td>
<td>1,550</td>
<td>350</td>
<td>2,940</td>
<td>49,900</td>
</tr>
<tr>
<td>July</td>
<td>1,680</td>
<td>1,590</td>
<td>350</td>
<td>2,940</td>
<td>52,600</td>
</tr>
<tr>
<td>August</td>
<td>1,680</td>
<td>1,540</td>
<td>350</td>
<td>2,940</td>
<td>53,500</td>
</tr>
<tr>
<td>September</td>
<td>1,680</td>
<td>1,620</td>
<td>350</td>
<td>2,940</td>
<td>51,800</td>
</tr>
<tr>
<td>October</td>
<td>1,680</td>
<td>1,570</td>
<td>350</td>
<td>2,940</td>
<td>51,700</td>
</tr>
<tr>
<td>November</td>
<td>1,680</td>
<td>1,540</td>
<td>350</td>
<td>2,940</td>
<td>42,300</td>
</tr>
<tr>
<td>January–November</td>
<td>18,400</td>
<td>17,200</td>
<td>3,850</td>
<td>32,300</td>
<td>567,000</td>
</tr>
</tbody>
</table>

\(^{a}\) Estimated. \(^{b}\) Preliminary.

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

\(^{2}\) New scrap refers to material generated during the manufacturing process. Old scrap consists of copper items used by consumers.

\(^{3}\) Electrolytically refined and fire refined from scrap based on source of material at smelter or refinery level.

\(^{4}\) Plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2021 not yet available. Monthly data are estimated based on the monthly average of 2021 annual data.

\(^{5}\) Does not include an estimate, based on 2021 annual data, of 2,970 tons per month from new scrap and 1,700 tons per month from old scrap of copper recovered from scrap other than copper-base.
<table>
<thead>
<tr>
<th>Period</th>
<th>Production</th>
<th></th>
<th></th>
<th>Stocks, end of period</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Brass mills</td>
<td>Wire-rod mills</td>
<td>Brass mills</td>
<td>Wire-rod mills</td>
<td>Brass mills</td>
</tr>
<tr>
<td>2022, Preliminary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–November</td>
<td>833,000</td>
<td>1,230,000</td>
<td>832,000</td>
<td>1,240,000</td>
<td>30,200</td>
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<td>November</td>
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<td>94,800</td>
<td>74,800</td>
<td>94,700</td>
<td>30,200</td>
</tr>
<tr>
<td>December</td>
<td>74,800</td>
<td>90,300</td>
<td>74,300</td>
<td>88,400</td>
<td>30,700</td>
</tr>
<tr>
<td>January–December</td>
<td>908,000</td>
<td>1,330,000</td>
<td>906,000</td>
<td>1,330,000</td>
<td>30,700</td>
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<tr>
<td>2023:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>76,400</td>
<td>95,600</td>
<td>75,400</td>
<td>95,600</td>
<td>31,700</td>
</tr>
<tr>
<td>February</td>
<td>75,300</td>
<td>98,500</td>
<td>74,500</td>
<td>102,000</td>
<td>32,500</td>
</tr>
<tr>
<td>March</td>
<td>77,000</td>
<td>108,000</td>
<td>75,000</td>
<td>105,000</td>
<td>34,500</td>
</tr>
<tr>
<td>April</td>
<td>73,500</td>
<td>97,500</td>
<td>74,700</td>
<td>91,700</td>
<td>33,400</td>
</tr>
<tr>
<td>May</td>
<td>72,900</td>
<td>100,000</td>
<td>74,000</td>
<td>101,000</td>
<td>32,300</td>
</tr>
<tr>
<td>June</td>
<td>73,100</td>
<td>85,200</td>
<td>73,000</td>
<td>93,500</td>
<td>32,400</td>
</tr>
<tr>
<td>July</td>
<td>73,700</td>
<td>101,000</td>
<td>73,200</td>
<td>97,000</td>
<td>32,800</td>
</tr>
<tr>
<td>August</td>
<td>74,800</td>
<td>103,000</td>
<td>74,900</td>
<td>101,000</td>
<td>32,700</td>
</tr>
<tr>
<td>September</td>
<td>74,100</td>
<td>103,000</td>
<td>73,900</td>
<td>101,000</td>
<td>32,900</td>
</tr>
<tr>
<td>October</td>
<td>74,700</td>
<td>100,000</td>
<td>74,600</td>
<td>108,000</td>
<td>33,000</td>
</tr>
<tr>
<td>November</td>
<td>63,600</td>
<td>93,500</td>
<td>64,200</td>
<td>94,600</td>
<td>29,700</td>
</tr>
<tr>
<td>January–November</td>
<td>809,000</td>
<td>1,090,000</td>
<td>807,000</td>
<td>1,090,000</td>
<td>29,700</td>
</tr>
</tbody>
</table>

1Preliminary. Revised. 
1Data are rounded to no more than three significant digits; may not add to totals shown.
**TABLE 7**

U.S. CONSUMPTION OF REFINED COPPER

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Brass mills</th>
<th>Wire-rod mills</th>
<th>Other plants</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022:p</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–November</td>
<td>385,000</td>
<td>1,160,000</td>
<td>39,400</td>
<td>1,590,000</td>
</tr>
<tr>
<td>November</td>
<td>35,000</td>
<td>83,700</td>
<td>3,590</td>
<td>122,000</td>
</tr>
<tr>
<td>December</td>
<td>35,200</td>
<td>88,700</td>
<td>3,590</td>
<td>127,000</td>
</tr>
<tr>
<td>January–December</td>
<td>420,000</td>
<td>1,250,000</td>
<td>43,000</td>
<td>1,720,000</td>
</tr>
<tr>
<td>2023:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>34,700</td>
<td>91,100</td>
<td>3,590</td>
<td>129,000</td>
</tr>
<tr>
<td>February</td>
<td>36,200</td>
<td>91,200</td>
<td>3,590</td>
<td>131,000</td>
</tr>
<tr>
<td>March</td>
<td>34,100</td>
<td>104,000</td>
<td>3,590</td>
<td>142,000</td>
</tr>
<tr>
<td>April</td>
<td>35,800</td>
<td>92,400</td>
<td>3,590</td>
<td>132,000</td>
</tr>
<tr>
<td>May</td>
<td>35,900</td>
<td>96,600</td>
<td>3,590</td>
<td>136,000</td>
</tr>
<tr>
<td>June</td>
<td>35,200</td>
<td>86,400</td>
<td>3,590</td>
<td>125,000</td>
</tr>
<tr>
<td>July</td>
<td>35,500</td>
<td>94,400</td>
<td>3,590</td>
<td>133,000</td>
</tr>
<tr>
<td>August</td>
<td>35,200</td>
<td>99,800</td>
<td>3,590</td>
<td>139,000</td>
</tr>
<tr>
<td>September</td>
<td>35,000</td>
<td>96,000</td>
<td>3,590</td>
<td>135,000</td>
</tr>
<tr>
<td>October</td>
<td>35,300</td>
<td>90,300</td>
<td>3,590</td>
<td>129,000</td>
</tr>
<tr>
<td>November</td>
<td>29,700</td>
<td>84,700</td>
<td>3,590</td>
<td>118,000</td>
</tr>
<tr>
<td>January–November</td>
<td>383,000</td>
<td>1,030,000</td>
<td>39,400</td>
<td>1,450,000</td>
</tr>
</tbody>
</table>

1Estimated. 2Preliminary.

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

2Chemical plants, foundries, ingot makers, and miscellaneous manufacturers. These plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2021 not yet available. Monthly data are estimated based on the monthly average of 2021 annual data.
### TABLE 8

U.S. APPARENT CONSUMPTION OF COPPER

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Primary refined copper production</th>
<th>Copper in old scrap</th>
<th>Refined imports for consumption</th>
<th>Refined exports</th>
<th>Refined stock change during period</th>
<th>Apparent consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2022</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–November</td>
<td>836,000</td>
<td>137,000</td>
<td>693,000</td>
<td>25,500</td>
<td>-21,500</td>
<td>1,660,000</td>
</tr>
<tr>
<td>November</td>
<td>73,900</td>
<td>12,100</td>
<td>37,900</td>
<td>1,430</td>
<td>-10,800</td>
<td>133,000</td>
</tr>
<tr>
<td>December</td>
<td>76,300</td>
<td>11,400</td>
<td>38,800</td>
<td>2,100</td>
<td>-12,300</td>
<td>137,000</td>
</tr>
<tr>
<td>January–December</td>
<td>912,000</td>
<td>149,000</td>
<td>732,000</td>
<td>27,600</td>
<td>-33,800</td>
<td>1,800,000</td>
</tr>
<tr>
<td><strong>2023</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>80,400</td>
<td>13,100</td>
<td>39,000</td>
<td>1,190</td>
<td>-5,510</td>
<td>137,000</td>
</tr>
<tr>
<td>February</td>
<td>72,700</td>
<td>12,100</td>
<td>48,700</td>
<td>2,000</td>
<td>-16,800</td>
<td>148,000</td>
</tr>
<tr>
<td>March</td>
<td>78,300</td>
<td>12,400</td>
<td>126,000</td>
<td>1,290</td>
<td>5,250</td>
<td>210,000</td>
</tr>
<tr>
<td>April</td>
<td>68,300</td>
<td>12,100</td>
<td>97,900</td>
<td>2,020</td>
<td>8,080</td>
<td>166,000</td>
</tr>
<tr>
<td>May</td>
<td>67,100</td>
<td>11,800</td>
<td>86,700</td>
<td>1,910</td>
<td>587</td>
<td>163,000</td>
</tr>
<tr>
<td>June</td>
<td>70,800</td>
<td>11,700</td>
<td>92,800</td>
<td>1,770</td>
<td>29,200</td>
<td>144,000</td>
</tr>
<tr>
<td>July</td>
<td>67,500</td>
<td>12,100</td>
<td>60,300</td>
<td>4,700</td>
<td>-2,990</td>
<td>138,000</td>
</tr>
<tr>
<td>August</td>
<td>64,300</td>
<td>12,000</td>
<td>54,300</td>
<td>3,580</td>
<td>4,450</td>
<td>123,000</td>
</tr>
<tr>
<td>September</td>
<td>62,400</td>
<td>11,800</td>
<td>59,700</td>
<td>3,650</td>
<td>20,700</td>
<td>110,000</td>
</tr>
<tr>
<td>October</td>
<td>62,900</td>
<td>12,000</td>
<td>48,800</td>
<td>3,910</td>
<td>18,000</td>
<td>102,000</td>
</tr>
<tr>
<td>November</td>
<td>57,500</td>
<td>11,500</td>
<td>30,000</td>
<td>4,870</td>
<td>810</td>
<td>93,300</td>
</tr>
<tr>
<td>January–November</td>
<td>752,000</td>
<td>133,000</td>
<td>744,000</td>
<td>30,900</td>
<td>61,800</td>
<td>1,540,000</td>
</tr>
</tbody>
</table>

1<sup>Preliminary.  2Revised.</sup>
2Data are rounded to no more than three significant digits; may not add to totals shown.
3Copper recovered from old scrap (of copper-base and non-copper-base) and converted to refined metal, alloys, and other forms. Includes reported monthly production and estimates for annual reporters based on the monthly average of 2021 annual data. Old scrap consists of copper items used by consumers.
4Source: U.S. Census Bureau. Includes Harmonized Tariff Schedule (imports) and Schedule B (exports) codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.
5Primary refined copper production plus copper in old scrap plus refined imports for consumption minus refined exports minus refined stock change during period.
### TABLE 9
U.S. CONSUMPTION OF PURCHASED COPPER-BASE SCRAP¹, ²

(Metric tons, gross weight)

<table>
<thead>
<tr>
<th>Period</th>
<th>Smelters and refineries</th>
<th>Ingot makerse, ³</th>
<th>Brass and wire-rod mills¹</th>
<th>Foundries, etce, ³</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New scrap²</td>
<td>Old scrap</td>
<td>New scrap</td>
<td>Old scrap</td>
<td>New scrap</td>
</tr>
<tr>
<td>January–November</td>
<td>19,000</td>
<td>18,900</td>
<td>10,300</td>
<td>38,000</td>
<td>645,000</td>
</tr>
<tr>
<td>November</td>
<td>1,730</td>
<td>1,650</td>
<td>933</td>
<td>3,450</td>
<td>59,800</td>
</tr>
<tr>
<td>December</td>
<td>1,730</td>
<td>1,610</td>
<td>933</td>
<td>3,450</td>
<td>59,900</td>
</tr>
<tr>
<td>January–December</td>
<td>20,700</td>
<td>20,500</td>
<td>11,200</td>
<td>41,400</td>
<td>705,000</td>
</tr>
<tr>
<td>2023:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>1,730</td>
<td>1,590</td>
<td>933</td>
<td>3,450</td>
<td>62,400</td>
</tr>
<tr>
<td>February</td>
<td>1,730</td>
<td>1,600</td>
<td>933</td>
<td>3,450</td>
<td>61,100</td>
</tr>
<tr>
<td>March</td>
<td>1,730</td>
<td>1,590</td>
<td>933</td>
<td>3,450</td>
<td>61,500</td>
</tr>
<tr>
<td>April</td>
<td>1,730</td>
<td>1,590</td>
<td>933</td>
<td>3,450</td>
<td>60,600</td>
</tr>
<tr>
<td>May</td>
<td>1,730</td>
<td>1,630</td>
<td>933</td>
<td>3,450</td>
<td>59,900</td>
</tr>
<tr>
<td>June</td>
<td>1,730</td>
<td>1,600</td>
<td>933</td>
<td>3,450</td>
<td>57,900</td>
</tr>
<tr>
<td>July</td>
<td>1,730</td>
<td>1,640</td>
<td>933</td>
<td>3,450</td>
<td>60,600</td>
</tr>
<tr>
<td>August</td>
<td>1,730</td>
<td>1,590</td>
<td>933</td>
<td>3,450</td>
<td>61,500</td>
</tr>
<tr>
<td>September</td>
<td>1,730</td>
<td>1,670</td>
<td>933</td>
<td>3,450</td>
<td>59,800</td>
</tr>
<tr>
<td>October</td>
<td>1,730</td>
<td>1,620</td>
<td>933</td>
<td>3,450</td>
<td>59,800</td>
</tr>
<tr>
<td>November</td>
<td>1,730</td>
<td>1,590</td>
<td>933</td>
<td>3,450</td>
<td>48,500</td>
</tr>
<tr>
<td>January–November</td>
<td>19,000</td>
<td>17,700</td>
<td>10,300</td>
<td>38,000</td>
<td>654,000</td>
</tr>
</tbody>
</table>

¹Data are rounded to no more than three significant digits; may not add to totals shown.
²New scrap refers to material generated during the manufacturing process. Old scrap consists of copper items used by consumers.
³Plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2021 not yet available. Monthly data are estimated based on the monthly average of 2021 annual data.

Estimated. Preliminary.
### TABLE 10
COPPER STOCKS IN THE UNITED STATES AT END OF PERIOD

(Metric tons, copper content)

<table>
<thead>
<tr>
<th>Period</th>
<th>Blister and wire-rod total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Refineries</td>
</tr>
<tr>
<td><strong>2022</strong></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>14,600</td>
</tr>
<tr>
<td>December</td>
<td>13,300</td>
</tr>
<tr>
<td><strong>2023</strong></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>13,600</td>
</tr>
<tr>
<td>February</td>
<td>13,000</td>
</tr>
<tr>
<td>March</td>
<td>14,300</td>
</tr>
<tr>
<td>April</td>
<td>35,100</td>
</tr>
<tr>
<td>May</td>
<td>39,900</td>
</tr>
<tr>
<td>June</td>
<td>34,500</td>
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<tr>
<td>July</td>
<td>20,400</td>
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<td>September</td>
<td>15,000</td>
</tr>
<tr>
<td>October</td>
<td>14,300</td>
</tr>
<tr>
<td>November</td>
<td>14,000</td>
</tr>
</tbody>
</table>

*Estimated.  †Preliminary.  ‡Revised.  
1Data are rounded to no more than three significant digits; may not add to totals shown.  
2Chemical plants, foundries, ingot makers, and miscellaneous manufacturers. These plants are surveyed by the U.S. Geological Survey on an annual basis; data after 2021 not yet available. Monthly data are estimated based on yearend 2021 stocks.  
3Commodity Exchange Inc.  
4London Metal Exchange Ltd., U.S. warehouses.
### TABLE 11
AVERAGE PRICES FOR REFINED COPPER IN THE UNITED STATES AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

<table>
<thead>
<tr>
<th>Period</th>
<th>COMEX first position</th>
<th>U.S. producers cathode</th>
<th>LME grade A cash</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>367.683</td>
<td>378.483</td>
<td>364.184</td>
</tr>
<tr>
<td>December</td>
<td>381.645</td>
<td>391.895</td>
<td>379.511</td>
</tr>
<tr>
<td>Year</td>
<td>400.719</td>
<td>410.775</td>
<td>399.791</td>
</tr>
<tr>
<td>2023:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>412.233</td>
<td>423.233</td>
<td>408.200</td>
</tr>
<tr>
<td>February</td>
<td>408.824</td>
<td>418.824</td>
<td>406.165</td>
</tr>
<tr>
<td>March</td>
<td>404.915</td>
<td>414.915</td>
<td>400.734</td>
</tr>
<tr>
<td>April</td>
<td>400.037</td>
<td>410.037</td>
<td>399.767</td>
</tr>
<tr>
<td>May</td>
<td>374.173</td>
<td>384.173</td>
<td>373.469</td>
</tr>
<tr>
<td>June</td>
<td>379.598</td>
<td>389.598</td>
<td>380.362</td>
</tr>
<tr>
<td>July</td>
<td>383.570</td>
<td>393.570</td>
<td>383.041</td>
</tr>
<tr>
<td>August</td>
<td>376.330</td>
<td>386.330</td>
<td>378.804</td>
</tr>
<tr>
<td>September</td>
<td>372.360</td>
<td>382.360</td>
<td>375.129</td>
</tr>
<tr>
<td>October</td>
<td>359.964</td>
<td>368.664</td>
<td>360.118</td>
</tr>
<tr>
<td>November</td>
<td>371.836</td>
<td>379.211</td>
<td>370.743</td>
</tr>
<tr>
<td>January–November</td>
<td>385.804</td>
<td>395.538</td>
<td>385.139</td>
</tr>
</tbody>
</table>

1Listed as “COMEX high grade first position.” COMEX refers to the Commodity Exchange Inc.
2Sum of “COMEX high grade first position” and “NY dealer premium cathode.” Reflects the delivered spot price of copper cathode to U.S. consumers by U.S. producers.
3LME refers to the London Metal Exchange Ltd.

Source: S&P Global Platts Metals Week.
TABLE 12
AVERAGE BUYING PRICES FOR COPPER SCRAP IN THE UNITED STATES

(Cents per pound)

<table>
<thead>
<tr>
<th>Period</th>
<th>Brass mills No. 1 scrap</th>
<th>Refiners No. 2 scrap</th>
<th>Red brass turnings and borings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2022:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>356.15</td>
<td>332.15</td>
<td>261.50</td>
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<tr>
<td>December</td>
<td>371.67</td>
<td>348.57</td>
<td>270.50</td>
</tr>
<tr>
<td>Year</td>
<td>390.04</td>
<td>358.05</td>
<td>296.29</td>
</tr>
<tr>
<td><strong>2023:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>401.30</td>
<td>379.30</td>
<td>289.00</td>
</tr>
<tr>
<td>February</td>
<td>397.03</td>
<td>374.29</td>
<td>321.50</td>
</tr>
<tr>
<td>March</td>
<td>392.67</td>
<td>369.41</td>
<td>319.00</td>
</tr>
<tr>
<td>April</td>
<td>389.50</td>
<td>365.84</td>
<td>316.50</td>
</tr>
<tr>
<td>May</td>
<td>365.86</td>
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Source: Fastmarkets-AMM.
TABLE 13
U.S. IMPORTS FOR CONSUMPTION OF UNMANUFACTURED COPPER1
(Metric tons, copper content)

<table>
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<tr>
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<th>2023</th>
<th>January–November</th>
<th>2023</th>
<th>January–November</th>
<th>2023</th>
<th>January–November</th>
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<th>January–November</th>
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<td>3</td>
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</table>

1Data are rounded to no more than three significant digits; may not add to totals shown.
2Harmonized Tariff Schedule of the United States (HTS) code 2603.00.0000. Includes copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.
3HTS codes 2620.30.0000 and 7401.00.0000. Includes copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.
4HTS code 7402.00.0000.
5HTS codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.
6Less than ½ unit.

Source: U.S. Census Bureau.
### TABLE 14
U.S. EXPORTS OF UNMANUFACTURED COPPER

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<th>Country or locality</th>
<th>Ore and concentrates(^2) 2023</th>
<th>Matte, ash, and precipitates(^3) 2023</th>
<th>Blister and anodes(^4) 2023</th>
<th>Refined(^5) 2023</th>
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<td>2022 -- November</td>
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<td>-- 14 25 (6)</td>
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<td>98 -- 33</td>
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<td>23 (6) 4</td>
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<td>20 -- 40 20</td>
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</tbody>
</table>

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

\(^2\)Schedule B of the United States code 2603.00.0000. Includes copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

\(^3\)Schedule B codes 2620.30.0000, 7401.00.0010, and 7401.00.0050. Includes copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

\(^4\)Schedule B code 7402.00.0000.

\(^5\)Schedule B codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.

\(^6\)Less than ½ unit.

Source: U.S. Census Bureau.
TABLE 15
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP¹
(Metric tons, gross weight)

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<td>2023</td>
<td>November</td>
<td>October</td>
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<td>November</td>
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¹Data are rounded to no more than three significant digits; may not add to totals shown.
²Harmonized Tariff Schedule of the United States (HTS) codes 7404.00.3020 and 7404.00.6020.
³HTS codes 7404.00.3045, 7404.00.3055, 7404.00.3065, 7404.00.3090, 7404.00.6045, 7404.00.6055, 7404.00.6065, and 7404.00.6090.
⁴Less than ½ unit.

Source: U.S. Census Bureau.
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1Data are rounded to no more than three significant digits; may not add to totals shown.
2Schedule B of the United States codes 7404.00.0010 and 7404.00.0015 (no. 1), 7404.00.0025 (no. 2), and 7404.00.0030 (other).
3Schedule B codes for segregated alloyed copper scrap are 7404.00.0041, 7404.00.0046, 7404.00.0051, 7404.00.0056, 7404.00.0061, 7404.00.0066, and 7404.00.0075. Schedule B codes for unsegregated alloyed copper scrap are 7404.00.0085 and 7404.00.0095.
4Less than ½ unit.

Source: U.S. Census Bureau.