ALUMINUM IN OCTOBER 2022

Domestic primary aluminum production in October 2022 was 64,000 metric tons (t). The average daily production in October 2022 was 2,050 t, slightly more than that in September 2022, 17% less than that in October 2021, and 15% less than that in October 2020 (fig. 1, table 1).

Total aluminum recovered from scrap in October 2022 was 283,000 t, essentially unchanged than that in September 2022, slightly more than that in October 2021, and 6% more than that in October 2020. Of this, 154,000 t of aluminum was recovered from new scrap, and 129,000 t was recovered from old scrap (fig. 1, table 1).

![Figure 1. Monthly domestic primary and secondary aluminum production from October 2020 through October 2022.](image)

Prices and Stocks

The October 2022 average U.S. spot market price of primary aluminum ingot was $1.23 per pound, slightly less than that in September 2022, 27% less than that in October 2021, and 30% more than that in October 2020. The average cash price in October 2022 of primary aluminum ingot on the London Metal Exchange (LME) was $1.02 per pound, essentially unchanged than that in September 2022, 24% less than that in October 2021, and 24% more than that in October 2020 (fig. 2, table 6).

![Figure 2. Average monthly prices for primary aluminum from October 2020 through October 2022. Source: S&P Global Platts Metals Week.](image)

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 12,532 t at the end of October 2022 from 15,587 t at the end of September 2022. Inventories of secondary aluminum (North American Secondary Aluminum Alloy Contract) in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 3,917 t at the end of October 2022 from 4,277 t at the end of September 2022 (London Metal Exchange Ltd., 2022a, b, c, d).

References Cited

London Metal Exchange Ltd., 2022d, Off-warrant stock reporting—October 2022: London, United Kingdom, London Metal Exchange Ltd., December
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### TABLE 1
**COMPONENTS OF ALUMINUM SUPPLY**

(Thousand metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Imports for consumption</th>
<th>Metals and alloys, crude</th>
<th>Plates, sheets, bars, etc.</th>
<th>Total new supply</th>
<th>Stocks, end of period</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Primary production</td>
<td>Secondary recovery</td>
<td></td>
<td>Total stocks</td>
<td></td>
</tr>
<tr>
<td>2021&lt;sup&gt;p&lt;/sup&gt;</td>
<td>889</td>
<td>1,780</td>
<td>1,520</td>
<td>3,300</td>
<td>3,630</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>76</td>
<td>149</td>
<td>127</td>
<td>277</td>
<td>339</td>
</tr>
<tr>
<td>November</td>
<td>75</td>
<td>151</td>
<td>126</td>
<td>277</td>
<td>338</td>
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<tr>
<td>December</td>
<td>79</td>
<td>146</td>
<td>127</td>
<td>273</td>
<td>316</td>
</tr>
<tr>
<td>January–October</td>
<td>734</td>
<td>1,480</td>
<td>1,260</td>
<td>2,750</td>
<td>2,970</td>
</tr>
<tr>
<td>2022:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>82</td>
<td>152</td>
<td>115</td>
<td>267</td>
<td>343</td>
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<tr>
<td>February</td>
<td>75</td>
<td>159</td>
<td>126</td>
<td>285</td>
<td>262</td>
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<tr>
<td>March</td>
<td>84</td>
<td>159</td>
<td>132</td>
<td>290</td>
<td>341</td>
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<tr>
<td>April</td>
<td>82</td>
<td>155</td>
<td>132</td>
<td>288</td>
<td>331</td>
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<tr>
<td>May</td>
<td>84</td>
<td>162</td>
<td>130</td>
<td>292</td>
<td>404</td>
</tr>
<tr>
<td>June</td>
<td>78</td>
<td>154</td>
<td>132</td>
<td>286</td>
<td>460</td>
</tr>
<tr>
<td>July</td>
<td>64</td>
<td>150</td>
<td>134</td>
<td>284</td>
<td>345</td>
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<tr>
<td>August</td>
<td>61</td>
<td>162</td>
<td>132</td>
<td>295</td>
<td>360</td>
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<tr>
<td>September</td>
<td>61</td>
<td>152</td>
<td>128</td>
<td>280</td>
<td>317</td>
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<tr>
<td>October</td>
<td>64</td>
<td>153</td>
<td>129</td>
<td>283</td>
<td>322</td>
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<tr>
<td>January–October</td>
<td>735</td>
<td>1,560</td>
<td>1,290</td>
<td>2,850</td>
<td>3,480</td>
</tr>
</tbody>
</table>

<sup>p</sup>Preliminary. <sup>r</sup>Revised. NA Not Available.

1Data are rounded to no more than three significant digits, except “Primary production”; may not add to totals shown.

2Primary production, secondary recovery, and imports for consumption.

3Inventory levels reflect total for U.S. and Canadian producers; data from the Aluminum Association Inc.

4Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.
TABLE 2
ESTIMATED FULL COVERAGE CONSUMPTION OF AND METALLIC RECOVERY FROM PURCHASED NEW AND OLD ALUMINUM SCRAP¹

(Thousand metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Secondary smelters Consumption</th>
<th>Independent mill fabricators Consumption</th>
<th>Foundries Consumption</th>
<th>Other consumers Consumption</th>
<th>Total Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metal recovery</td>
<td>Metal recovery</td>
<td>Metal recovery</td>
<td>Metal recovery</td>
<td>Metal recovery</td>
</tr>
<tr>
<td>2021</td>
<td>2,320</td>
<td>1,750</td>
<td>1,590</td>
<td>1,450</td>
<td>101</td>
</tr>
<tr>
<td>October</td>
<td>195</td>
<td>146</td>
<td>134</td>
<td>122</td>
<td>8</td>
</tr>
<tr>
<td>November</td>
<td>196</td>
<td>147</td>
<td>133</td>
<td>122</td>
<td>8</td>
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<tr>
<td>December</td>
<td>194</td>
<td>146</td>
<td>130</td>
<td>119</td>
<td>8</td>
</tr>
<tr>
<td>January–October</td>
<td>1,930 '</td>
<td>1,450 '</td>
<td>1,330</td>
<td>1,210</td>
<td>84</td>
</tr>
<tr>
<td>2022</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>195</td>
<td>146</td>
<td>123</td>
<td>113</td>
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<tr>
<td>February</td>
<td>193</td>
<td>145</td>
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<tr>
<td>March</td>
<td>200</td>
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<tr>
<td>April</td>
<td>199</td>
<td>149</td>
<td>143</td>
<td>130</td>
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<tr>
<td>May</td>
<td>201</td>
<td>150</td>
<td>146</td>
<td>134</td>
<td>8</td>
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<tr>
<td>June</td>
<td>202</td>
<td>151</td>
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<tr>
<td>July</td>
<td>199</td>
<td>148</td>
<td>141</td>
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<td>8</td>
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<tr>
<td>August</td>
<td>202</td>
<td>152</td>
<td>148</td>
<td>135</td>
<td>8</td>
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<tr>
<td>September</td>
<td>201</td>
<td>149</td>
<td>137</td>
<td>125</td>
<td>8</td>
</tr>
<tr>
<td>October</td>
<td>205</td>
<td>152</td>
<td>136</td>
<td>124</td>
<td>8</td>
</tr>
<tr>
<td>January–October</td>
<td>2,000</td>
<td>1,490</td>
<td>1,400</td>
<td>1,280</td>
<td>84</td>
</tr>
</tbody>
</table>

¹Preliminary. ¹Revised.
¹Data are rounded to no more than three significant digits; may not add to totals shown.
¹Less than ½ unit.
TABLE 3
CONSUMPTION OF AND RECOVERY FROM PURCHASED NEW AND OLD ALUMINUM SCRAP IN OCTOBER 2022

(Metric tons)

<table>
<thead>
<tr>
<th></th>
<th>Consumption</th>
<th>Calculated metallic recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tabulated reports</td>
<td>Estimated full coverage</td>
</tr>
<tr>
<td>Secondary smelters</td>
<td>171,000</td>
<td>205,000</td>
</tr>
<tr>
<td>Independent mill fabricators</td>
<td>123,000</td>
<td>136,000</td>
</tr>
<tr>
<td>Foundries</td>
<td>7,040</td>
<td>8,450</td>
</tr>
<tr>
<td>Other consumers</td>
<td>273</td>
<td>328</td>
</tr>
<tr>
<td>Total</td>
<td>300,000</td>
<td>349,000</td>
</tr>
</tbody>
</table>

¹Data are rounded to no more than three significant digits; may not add to totals shown.
TABLE 4
PURCHASED AND TOLL-TREATED ALUMINUM-BASE SCRAP IN OCTOBER 2022

(Metric tons)

<table>
<thead>
<tr>
<th></th>
<th>October</th>
<th>January–October2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stocks, opening2</td>
<td>Net receipts3</td>
</tr>
<tr>
<td>New scrap:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extrusion</td>
<td>18,700</td>
<td>36,100</td>
</tr>
<tr>
<td>Can stock clippings</td>
<td>10,500</td>
<td>27,900</td>
</tr>
<tr>
<td>Other wrought sheet/clippings</td>
<td>8,110</td>
<td>39,200</td>
</tr>
<tr>
<td>Casting</td>
<td>5,920</td>
<td>7,410</td>
</tr>
<tr>
<td>Borings and turnings</td>
<td>5,270</td>
<td>14,200</td>
</tr>
<tr>
<td>Dross and skimmings4</td>
<td>18,500</td>
<td>47,600</td>
</tr>
<tr>
<td>Total new scrap</td>
<td>67,000</td>
<td>172,000</td>
</tr>
<tr>
<td>Old scrap:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used castings</td>
<td>8,160</td>
<td>27,300</td>
</tr>
<tr>
<td>Used extrusion</td>
<td>7,840</td>
<td>16,700</td>
</tr>
<tr>
<td>Used cans (shredded, loose, baled)</td>
<td>7,850</td>
<td>45,500</td>
</tr>
<tr>
<td>Other wrought products</td>
<td>19,100</td>
<td>25,000</td>
</tr>
<tr>
<td>Fragmented shredder (auto shredder)</td>
<td>5,970</td>
<td>12,200</td>
</tr>
<tr>
<td>Total old scrap</td>
<td>48,900</td>
<td>127,000</td>
</tr>
<tr>
<td>Total all classes</td>
<td>116,000</td>
<td>299,000</td>
</tr>
</tbody>
</table>

1Data are rounded to no more than three significant digits; may not add to totals shown.
2May include revisions to previously published data.
3Includes data on imported aluminum-base scrap.
4Gross volume of dross and skimmings. Recoverable aluminum content ranges from 15% to 50% of gross weight.
<table>
<thead>
<tr>
<th>Aluminum Alloys Produced at Secondary Smelters in the United States in October 2022</th>
<th>October</th>
<th>January–October</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stocks,</td>
<td>Net Stocks, Net opening</td>
</tr>
<tr>
<td>Die-cast alloys:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13% Si, 360, etc. (0.6% Cu, max.)</td>
<td>2,570</td>
<td>2,870</td>
</tr>
<tr>
<td>380 and variations</td>
<td>7,970</td>
<td>18,900</td>
</tr>
<tr>
<td>Sand and permanent mold:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>95/5 Al-Si, 356, etc. (0.6% Cu, max.)</td>
<td>1,950</td>
<td>2,830</td>
</tr>
<tr>
<td>No. 319 and variations</td>
<td>2,230</td>
<td>2,000</td>
</tr>
<tr>
<td>F-132 alloy and variations</td>
<td>143</td>
<td>221</td>
</tr>
<tr>
<td>Al-Zn alloys</td>
<td>172</td>
<td>85</td>
</tr>
<tr>
<td>Al-Si alloys (0.6% to 2.0% Cu)</td>
<td>101</td>
<td>166</td>
</tr>
<tr>
<td>Al-Cu alloys (1.5% Si, max.)</td>
<td>405</td>
<td>564</td>
</tr>
<tr>
<td>Other</td>
<td>7,250</td>
<td>8,250</td>
</tr>
<tr>
<td>Wrought alloys, extrusion billets</td>
<td>10,700</td>
<td>54,800</td>
</tr>
<tr>
<td>Total all alloys</td>
<td>33,400</td>
<td>90,700</td>
</tr>
<tr>
<td>Less:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary aluminum consumed</td>
<td>XX</td>
<td>16,600</td>
</tr>
<tr>
<td>Primary silicon consumed</td>
<td>XX</td>
<td>1,680</td>
</tr>
<tr>
<td>Other alloying ingredients consumed</td>
<td>XX</td>
<td>791</td>
</tr>
<tr>
<td>Net metallic recovery from aluminum scrap consumed in production of secondary aluminum ingot</td>
<td>XX</td>
<td>71,600</td>
</tr>
</tbody>
</table>

XX Not applicable.

1Excludes integrated aluminum companies.
2Data are rounded to no more than three significant digits; may not add to totals shown.
3May include revisions to previously published data.
4Includes alloys No. 12, Al-Mg, Al-Zn, Al-Cu, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.
5No allowance made for melt-loss of primary aluminum and alloying ingredients.
### TABLE 6
AVERAGE PRICE OF ALUMINUM IN THE UNITED STATES AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

<table>
<thead>
<tr>
<th>Period</th>
<th>Midwest U.S. market price</th>
<th>LME cash price Grade A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>168.110</td>
<td>134.028</td>
</tr>
<tr>
<td>November</td>
<td>147.557</td>
<td>119.796</td>
</tr>
<tr>
<td>December</td>
<td>149.417</td>
<td>122.237</td>
</tr>
<tr>
<td>January–December</td>
<td>138.511</td>
<td>112.281</td>
</tr>
<tr>
<td>2022:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>169.020</td>
<td>136.197</td>
</tr>
<tr>
<td>February</td>
<td>182.873</td>
<td>147.883</td>
</tr>
<tr>
<td>March</td>
<td>198.185</td>
<td>160.448</td>
</tr>
<tr>
<td>April</td>
<td>187.079</td>
<td>147.693</td>
</tr>
<tr>
<td>May</td>
<td>165.795</td>
<td>128.182</td>
</tr>
<tr>
<td>June</td>
<td>149.085</td>
<td>116.235</td>
</tr>
<tr>
<td>July</td>
<td>137.994</td>
<td>108.911</td>
</tr>
<tr>
<td>August</td>
<td>136.691</td>
<td>110.264</td>
</tr>
<tr>
<td>September</td>
<td>125.275</td>
<td>101.129</td>
</tr>
<tr>
<td>October</td>
<td>122.548</td>
<td>101.737</td>
</tr>
<tr>
<td>January–October</td>
<td>157.455</td>
<td>125.868</td>
</tr>
</tbody>
</table>

Source: S&P Global Platts Metals Week.
### TABLE 7
AVERAGE BUYING PRICES FOR ALUMINUM SCRAP

(Cents per pound)

<table>
<thead>
<tr>
<th>Month</th>
<th>Used beverage cans</th>
<th>Mixed low copper clips</th>
<th>Old sheet</th>
<th>Old cast</th>
<th>Turnings (clean and dry)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2021:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>87.50</td>
<td>80.63</td>
<td>72.25</td>
<td>71.25</td>
<td>67.75</td>
</tr>
<tr>
<td>November</td>
<td>84.00</td>
<td>78.00</td>
<td>70.50</td>
<td>70.00</td>
<td>68.00</td>
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<tr>
<td>December</td>
<td>85.70</td>
<td>74.60</td>
<td>70.50</td>
<td>70.00</td>
<td>70.40</td>
</tr>
<tr>
<td>January–December</td>
<td>76.50</td>
<td>73.03</td>
<td>67.87</td>
<td>68.39</td>
<td>67.16</td>
</tr>
<tr>
<td><strong>2022:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>99.38</td>
<td>77.75</td>
<td>72.75</td>
<td>72.13</td>
<td>71.75</td>
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<tr>
<td>February</td>
<td>111.63</td>
<td>81.75</td>
<td>78.50</td>
<td>76.13</td>
<td>74.00</td>
</tr>
<tr>
<td>March</td>
<td>129.30</td>
<td>86.10</td>
<td>86.20</td>
<td>83.70</td>
<td>79.20</td>
</tr>
<tr>
<td>April</td>
<td>122.38</td>
<td>87.50</td>
<td>89.50</td>
<td>85.50</td>
<td>80.75</td>
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<tr>
<td>May</td>
<td>106.25</td>
<td>81.00</td>
<td>76.75</td>
<td>77.63</td>
<td>73.13</td>
</tr>
<tr>
<td>June</td>
<td>93.70</td>
<td>74.70</td>
<td>69.60</td>
<td>70.60</td>
<td>66.60</td>
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<tr>
<td>July</td>
<td>76.88</td>
<td>68.50</td>
<td>63.75</td>
<td>65.25</td>
<td>59.38</td>
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<tr>
<td>August</td>
<td>77.50</td>
<td>67.13</td>
<td>61.88</td>
<td>62.63</td>
<td>56.88</td>
</tr>
<tr>
<td>September</td>
<td>72.80</td>
<td>65.60</td>
<td>63.30</td>
<td>63.20</td>
<td>52.40</td>
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<tr>
<td>October</td>
<td>73.00</td>
<td>65.75</td>
<td>61.25</td>
<td>61.00</td>
<td>48.50</td>
</tr>
</tbody>
</table>

Source: Fastmarkets–AMM.
TABLE 8
U.S. IMPORTS FOR CONSUMPTION OF ALUMINUM IN OCTOBER 2022¹

(Metric tons)

<table>
<thead>
<tr>
<th>Country or locality</th>
<th>January–October</th>
<th>January–October</th>
<th>January–October</th>
<th>January–October</th>
<th>January–October</th>
<th>January–October</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>17,200</td>
<td>132,000</td>
<td>65</td>
<td>292</td>
<td>--</td>
<td>17,300</td>
</tr>
<tr>
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¹Data are rounded to no more than three significant digits; may not add to totals shown.
²Includes Hong Kong.
³Less than ½ unit.

Source: U.S. Census Bureau.
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1 Data are rounded to no more than three significant digits; may not add to totals shown.
2 Includes Hong Kong.
3 Less than ½ unit.

Source: U.S. Census Bureau.