Domestic primary aluminum production in July 2022 was 64,000 metric tons (t). The average daily production in July 2022 was 2,070 t, 21% less than that in June 2022, 12% less than that in July 2021, and 22% less than that in July 2020 (fig. 1, table 1). The decreased production rate in July was attributed to the shutdown of Century Aluminum Co.’s smelter in Hawesville, KY. (See Aluminum in April 2022.)

Total aluminum recovered from scrap in July 2022 was 284,000 t, essentially unchanged from that in June 2022, a slight increase from that in July 2021, and 11% more than that in July 2020. Of this, 150,000 t of aluminum was recovered from new scrap, and 134,000 t was recovered from old scrap (fig. 1, table 1).

### Prices and Stocks

The July 2022 average U.S. spot market price of primary aluminum ingot was $1.38 per pound, 7% less than that in June 2022, 4% less than that in July 2021, and 62% more than that in July 2020. The average cash price in July 2022 of primary aluminum ingot on the London Metal Exchange (LME) was $1.09 per pound, 6% less than that in June 2022, 4% less than that in July 2021, and 46% more than that in July 2020 (fig. 2, table 6).

Inventories of primary aluminum in LME-approved warehouses, including off-warrant inventories, in the United States decreased to 20,110 t at the end of July 2022 from 23,302 t at the end of June 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 6,027 t at the end of July 2022 from 6,332 t at the end of June 2022 (London Metal Exchange Ltd., 2022a, b, c, d).

### Updates

On September 7, the Kaiser Aluminum Corp. announced that it had lifted force majeure at its Warrick Rolling Mill. Kaiser declared the action in July because US Magnesium, LLC, the company’s supplier of magnesium, had declared force majeure in September 2021. Although Kaiser does not anticipate receiving any more shipments of magnesium this year from US Magnesium, the company has found alternative sources that will supply its needs through the remainder of 2022 (Kaiser Aluminum Corp., 2022).

On September 9, MetalX, Inc., an Indiana based scrap metal recycler, announced the acquisition of secondary aluminum smelter SRT Aluminum, LLC in Wabash, IN. The newly
acquired facility includes electric induction and reverb furnaces capable of producing remelt scrap ingot. In the near-term, the company plans to increase the current rate of scrap metal recycling at the facility to over 81,000 t/yr from nearly 60,000 t/yr (MetalX Inc., 2022).

On August 24, labor strikes at Norwegian smelters owned by Alcoa Corp. and Norsk Hydro ASA, were resolved. The strikes were initiated by Industri Energi, a trade union that represents energy workers in Norway, on August 22. Normal operations have resumed at Alcoa’s Mosjøen smelter and Norsk Hydro’s Sunndal smelter (Alcoa Corp. 2022a, c; Norsk Hydro ASA, 2022a, c).

Several European aluminum producers have announced production curtailments due to high energy costs. On August 17, Norsk Hydro announced that it will cease primary aluminum production at its Slovenko aluminum facility in Slovakia. The facility has a primary aluminum capacity of 175,000 metric tons per year (t/yr). The cast house remains operational, producing 75,000 t/yr of recycled aluminum (Norsk Hydro ASA, 2022b). On August 30, Alcoa announced curtailment of a single potline at its Lista smelter in Norway. Primary aluminum production at the 94,000 t/yr capacity smelter will be reduced by one-third (Alcoa Corp., 2022b). On September 7, Speira GmbH, producer of rolled aluminum products, announced that it would reduce primary smelter production at its Rheinwerk plant in Germany by 50% of its current 70,000 t/yr capacity (Speira GmbH, 2022). In September, Aluminum Dunkerque will reportedly reduce production at its primary smelter located in northern France by 22% from last year’s production of 290,000 t (Perez and Farchy, 2022).

References Cited


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## TABLE 1
COMPONENTS OF ALUMINUM SUPPLY

(Thousand metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Primary production</th>
<th>Secondary recovery</th>
<th>Metals and alloys, crude</th>
<th>Plates, sheets, bars, etc.</th>
<th>Total supply</th>
<th>Stocks, end of period</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2021¹</td>
<td>889</td>
<td>1,780</td>
<td>1,520</td>
<td>3,300</td>
<td>3,630</td>
<td>1,290</td>
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<tr>
<td>2021:</td>
<td></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>
<td>112</td>
</tr>
<tr>
<td>February</td>
<td>75</td>
<td>159</td>
<td>126</td>
<td>285</td>
<td>341</td>
<td>129</td>
</tr>
<tr>
<td>March</td>
<td>84</td>
<td>159</td>
<td>132</td>
<td>290</td>
<td>331</td>
<td>125</td>
</tr>
<tr>
<td>April</td>
<td>82</td>
<td>155</td>
<td>132</td>
<td>288</td>
<td>331</td>
<td>125</td>
</tr>
<tr>
<td>May</td>
<td>84</td>
<td>162</td>
<td>130</td>
<td>292</td>
<td>404</td>
<td>144</td>
</tr>
<tr>
<td>June</td>
<td>78</td>
<td>154</td>
<td>132</td>
<td>286</td>
<td>460</td>
<td>124</td>
</tr>
<tr>
<td>July</td>
<td>64</td>
<td>150</td>
<td>134</td>
<td>284</td>
<td>345</td>
<td>129</td>
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<td>January–July</td>
<td>513</td>
<td>1,030</td>
<td>878</td>
<td>1,910</td>
<td>2,030</td>
<td>727</td>
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<td>2022:</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>82</td>
<td>152</td>
<td>115</td>
<td>267</td>
<td>343</td>
<td>112</td>
</tr>
<tr>
<td>February</td>
<td>75</td>
<td>159</td>
<td>126</td>
<td>285</td>
<td>341</td>
<td>129</td>
</tr>
<tr>
<td>March</td>
<td>84</td>
<td>159</td>
<td>132</td>
<td>290</td>
<td>331</td>
<td>125</td>
</tr>
<tr>
<td>April</td>
<td>82</td>
<td>155</td>
<td>132</td>
<td>288</td>
<td>331</td>
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</tr>
<tr>
<td>May</td>
<td>84</td>
<td>162</td>
<td>130</td>
<td>292</td>
<td>404</td>
<td>144</td>
</tr>
<tr>
<td>June</td>
<td>78</td>
<td>154</td>
<td>132</td>
<td>286</td>
<td>460</td>
<td>124</td>
</tr>
<tr>
<td>July</td>
<td>64</td>
<td>150</td>
<td>134</td>
<td>284</td>
<td>345</td>
<td>129</td>
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<tr>
<td>January–July</td>
<td>549</td>
<td>1,090</td>
<td>901</td>
<td>1,990</td>
<td>2,490</td>
<td>870</td>
</tr>
</tbody>
</table>

¹Preliminary. ²Revised. ³NA Not Available.

¹Data are rounded to no more than three significant digits, except “Primary production”; may not add to totals shown.
²Metallic recovery from purchased, tolled, or imported scrap, expanded for full coverage of industry.
³Primary production, secondary recovery, and imports for consumption.
⁴Inventory levels reflect total for U.S. and Canadian producers; data from the Aluminum Association Inc.
## TABLE 2

**ESTIMATED FULL COVERAGE CONSUMPTION OF AND METALLIC RECOVERY FROM PURCHASED NEW AND OLD ALUMINUM SCRAP**

(Thousand metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Independent mill fabricators</th>
<th>Foundries</th>
<th>Other consumers</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consumption</td>
<td>Metal recovery</td>
<td>Consumption</td>
<td>Metal recovery</td>
</tr>
<tr>
<td>2021&lt;sup&gt;p&lt;/sup&gt;</td>
<td>2,320</td>
<td>1,750</td>
<td>1,590</td>
<td>1,450</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>192</td>
<td>145</td>
<td>139</td>
<td>127</td>
</tr>
<tr>
<td>August</td>
<td>196</td>
<td>147</td>
<td>136</td>
<td>124</td>
</tr>
<tr>
<td>September</td>
<td>194</td>
<td>146</td>
<td>139</td>
<td>127</td>
</tr>
<tr>
<td>October</td>
<td>195</td>
<td>146</td>
<td>134</td>
<td>122</td>
</tr>
<tr>
<td>November</td>
<td>196</td>
<td>147</td>
<td>133</td>
<td>122</td>
</tr>
<tr>
<td>December</td>
<td>194</td>
<td>146</td>
<td>130</td>
<td>119</td>
</tr>
<tr>
<td>January–July</td>
<td>1,350&lt;sup&gt;r&lt;/sup&gt;</td>
<td>1,010&lt;sup&gt;r&lt;/sup&gt;</td>
<td>921&lt;sup&gt;r&lt;/sup&gt;</td>
<td>841&lt;sup&gt;r&lt;/sup&gt;</td>
</tr>
<tr>
<td>2022:</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>
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<td>March</td>
<td>200</td>
<td>149</td>
<td>145</td>
<td>133</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>
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<tr>
<td>June</td>
<td>202</td>
<td>151</td>
<td>140</td>
<td>127</td>
</tr>
<tr>
<td>July</td>
<td>199</td>
<td>148</td>
<td>141</td>
<td>128</td>
</tr>
<tr>
<td>January–July</td>
<td>1,390</td>
<td>1,040</td>
<td>981</td>
<td>896</td>
</tr>
</tbody>
</table>

<sup>p</sup>Preliminary.  <sup>r</sup>Revised.

1. Data are rounded to no more than three significant digits; may not add to totals shown.
2. Less than ½ unit.
<table>
<thead>
<tr>
<th></th>
<th>Consumption</th>
<th>Calculated metallic recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tabulated</td>
<td>Estimated full coverage</td>
</tr>
<tr>
<td></td>
<td>reports</td>
<td>full coverage</td>
</tr>
<tr>
<td>Secondary smelters</td>
<td>166,000</td>
<td>199,000</td>
</tr>
<tr>
<td>Independent mill fabricators</td>
<td>126,000</td>
<td>141,000</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>299,000</td>
<td>348,000</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 JULY 2022¹

(Metric tons)

<table>
<thead>
<tr>
<th></th>
<th>July</th>
<th>January–July²</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stocks, opening³</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>35,100</td>
</tr>
<tr>
<td>Can stock clippings</td>
<td>10,500</td>
<td>31,900</td>
</tr>
<tr>
<td>Other wrought sheet/clippings</td>
<td>11,600</td>
<td>33,400</td>
</tr>
<tr>
<td>Casting</td>
<td>5,920</td>
<td>7,900</td>
</tr>
<tr>
<td>Borings and turnings</td>
<td>5,270</td>
<td>12,900</td>
</tr>
<tr>
<td>Dross and skimmings⁴</td>
<td>18,500</td>
<td>45,100</td>
</tr>
<tr>
<td>Total new scrap</td>
<td>70,400</td>
<td>166,000</td>
</tr>
<tr>
<td>Old scrap:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used castings</td>
<td>8,160</td>
<td>28,100</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>49,200</td>
</tr>
<tr>
<td>Other wrought products</td>
<td>19,100</td>
<td>25,000</td>
</tr>
<tr>
<td>Fragmentized shredder (auto shredder)</td>
<td>5,970</td>
<td>12,100</td>
</tr>
<tr>
<td>Total old scrap</td>
<td>48,900</td>
<td>131,000</td>
</tr>
<tr>
<td>Total all classes</td>
<td>119,000</td>
<td>297,000</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 5
ALUMINUM ALLOYS PRODUCED AT SECONDARY SMELTERS IN THE UNITED STATES IN JULY 2022<sup>1,2</sup>

(Metric tons)

<table>
<thead>
<tr>
<th></th>
<th>July</th>
<th>January–July</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stocks, opening&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Production</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&lt;sup&gt;4&lt;/sup&gt;</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&lt;sup&gt;5&lt;/sup&gt;</td>
<td>XX</td>
<td>71,600</td>
</tr>
</tbody>
</table>

XX Not applicable.

1 Excludes integrated aluminum companies.
2 Data are rounded to no more than three significant digits; may not add to totals shown.
3 May include revisions to previously published data.
4 Includes alloys No. 12, Al-Mg, Al-Zn, Al-Cu, Al-Si-Cu-Ni, aluminum-base hardeners, variations of these alloys, plus other aluminum alloys.
5 No 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>July</td>
<td>144.205</td>
<td>113.033</td>
</tr>
<tr>
<td>August</td>
<td>152.055</td>
<td>118.417</td>
</tr>
<tr>
<td>September</td>
<td>163.420</td>
<td>128.794</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>
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<tr>
<td>July</td>
<td>137.994</td>
<td>108.911</td>
</tr>
<tr>
<td>January–July</td>
<td>170.004</td>
<td>135.078</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>July</td>
<td>71.40</td>
<td>73.90</td>
<td>67.20</td>
<td>67.40</td>
<td>67.60</td>
</tr>
<tr>
<td>August</td>
<td>77.63</td>
<td>73.50</td>
<td>66.00</td>
<td>66.63</td>
<td>66.25</td>
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<tr>
<td>September</td>
<td>83.30</td>
<td>75.70</td>
<td>66.80</td>
<td>67.60</td>
<td>66.20</td>
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<tr>
<td>October</td>
<td>87.50</td>
<td>80.63</td>
<td>72.25</td>
<td>71.25</td>
<td>67.75</td>
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<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>
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<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>
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<td><strong>2022:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>99.38</td>
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'Revised.

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

Source: U.S. Census Bureau.
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*Zero.

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.