What indicator plant is in bloom at the Arboretum?
Korean spice viburnum (Viburnum carlesii) is in full bloom.

Accumulated Growing Degree Days (Base 50): 81.5 (as of April 25)

Pest updates: Viburnum leaf beetle larvae are out and feeding on half-expanded leaves. Early-emerging cicadas up in the upper soil levels, can the main brood be far behind? Boxwood psyllid nymphs are active.

Degree Days
As of April 25, we have 81.5 base-50 growing degree days (GDD) at The Morton Arboretum. The historical average (1937-2023) for this date is 21 GDD50.

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbondale, IL*</td>
<td>474</td>
<td>332</td>
<td>281</td>
<td>173</td>
</tr>
<tr>
<td>Champaign, IL*</td>
<td>238</td>
<td>191</td>
<td>153</td>
<td>82</td>
</tr>
<tr>
<td>Chicago Botanic Garden**</td>
<td>120.4</td>
<td>160</td>
<td>60 (4/24)</td>
<td>8.5</td>
</tr>
<tr>
<td>Glencoe*</td>
<td>41</td>
<td>60</td>
<td>No report</td>
<td>No report</td>
</tr>
<tr>
<td>Chicago O'Hare*</td>
<td>175</td>
<td>161</td>
<td>116</td>
<td>24</td>
</tr>
<tr>
<td>Kankakee, IL*</td>
<td>162</td>
<td>150</td>
<td>120</td>
<td>45</td>
</tr>
<tr>
<td>Lisle, IL*</td>
<td>179</td>
<td>155</td>
<td>120</td>
<td>24</td>
</tr>
<tr>
<td>The Morton Arboretum</td>
<td>81.5</td>
<td>100</td>
<td>65 (4/24)</td>
<td>19.5 (4/25)</td>
</tr>
<tr>
<td>Quincy, IL*</td>
<td>295</td>
<td>218</td>
<td>205</td>
<td>117</td>
</tr>
<tr>
<td>Rockford, IL*</td>
<td>127</td>
<td>121</td>
<td>89</td>
<td>22</td>
</tr>
<tr>
<td>Springfield, IL*</td>
<td>292</td>
<td>219</td>
<td>181</td>
<td>107</td>
</tr>
<tr>
<td>Waukegan, IL* (60087)</td>
<td>118</td>
<td>131</td>
<td>67</td>
<td>6</td>
</tr>
<tr>
<td>Waukegan, IL* (60085)</td>
<td>143</td>
<td>147</td>
<td>No report</td>
<td>No report</td>
</tr>
</tbody>
</table>

*We obtain most of our degree day information from the GDD Tracker from Michigan State University web site. **Thanks to Elizabeth Cullison, Chicago Botanic Garden, for supplying us with this information.

Seasonal precipitation (rain and melted snow) in inches.

<table>
<thead>
<tr>
<th></th>
<th>2024</th>
<th>2023</th>
<th>Historical average (1937-2023)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan</td>
<td>3.9</td>
<td>2.85</td>
<td>1.95</td>
</tr>
<tr>
<td>Feb</td>
<td>.56</td>
<td>4.88</td>
<td>1.81</td>
</tr>
<tr>
<td>Mar</td>
<td>2.64</td>
<td>2.29</td>
<td>2.53</td>
</tr>
<tr>
<td>April</td>
<td>2.65 (thru 4/25)</td>
<td>2.23</td>
<td>3.65</td>
</tr>
<tr>
<td>Year to date</td>
<td>9.75</td>
<td>12.25 (thru April)</td>
<td>9.94 (thru April)</td>
</tr>
</tbody>
</table>
Examples of insects that may emerge soon in northern Illinois (based on growing degree days)

<table>
<thead>
<tr>
<th>GDD (base 50)</th>
<th>insect</th>
<th>Life stage present at this GDD</th>
<th>Type of damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-200</td>
<td><em>Eastern tent caterpillar</em></td>
<td>Caterpillars</td>
<td>Chewing leaves</td>
</tr>
<tr>
<td>145-200</td>
<td><em>spongy moth</em> (formerly gypsy moth)</td>
<td>Caterpillars emerging</td>
<td>Chewing leaves</td>
</tr>
<tr>
<td>100-200</td>
<td>Zimmerman pine moth</td>
<td>Larvae emerging from overwintering sites on trunk</td>
<td>Tunneling into bark</td>
</tr>
<tr>
<td>300-700</td>
<td>Oystershell scale</td>
<td>Crawlers emerging</td>
<td>Feeding on sap</td>
</tr>
<tr>
<td>400-600</td>
<td>Bronze birch borer</td>
<td>Larvae hatching out and beginning to enter bark</td>
<td>Tunneling under bark</td>
</tr>
<tr>
<td>400-500</td>
<td>Pine needle scale</td>
<td>Crawlers emerging</td>
<td>Feeding on sap</td>
</tr>
</tbody>
</table>

Soil temperatures around Illinois (from Illinois State Water Survey)
This information will be provided all season. For data from other reporting stations, go to https://www.isws.illinois.edu/warm/soil/ (you will need to set up an account to access data.) Root growth on trees/shrubs occurs when soil temps are above 45 degrees. Cicadas should begin to emerge when soil temp is 64 degrees at the 8-inch level (we already have some early emergers).

<table>
<thead>
<tr>
<th>Max. Soil temps For April 25, 2024*</th>
<th>St. Charles reporting station (north)</th>
<th>Champaign reporting station (central)</th>
<th>Carbondale reporting station (south)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-inch, bare soil</td>
<td>70.7</td>
<td>75.2</td>
<td>71.4</td>
</tr>
<tr>
<td>4-inch, bare soil</td>
<td>69.2</td>
<td>67.3</td>
<td>64</td>
</tr>
<tr>
<td>4-inch, under sod</td>
<td>56.8</td>
<td>63.6</td>
<td>61</td>
</tr>
<tr>
<td>8-inch, under sod</td>
<td>52.9</td>
<td>58.5</td>
<td>60.7</td>
</tr>
</tbody>
</table>

* This is the maximum soil temperature recorded the day prior to publication of PHCR.