## Berthoud

### Adult Trap Data - Detail

**Start Date:** 07/31/2024    **End Date:** 07/31/2024

<table>
<thead>
<tr>
<th>Trap #</th>
<th>Date</th>
<th>Species</th>
<th>Count</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-001</td>
<td>07/31/2024</td>
<td><em>Aedes dorsalis</em></td>
<td>26</td>
<td>8.4%</td>
</tr>
<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Aedes melaninon</em></td>
<td>7</td>
<td>2.3%</td>
</tr>
<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Aedes trivittatus</em></td>
<td>37</td>
<td>12.0%</td>
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<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Aedes vexans</em></td>
<td>84</td>
<td>27.2%</td>
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<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Culex pipiens</em></td>
<td>8</td>
<td>2.6%</td>
</tr>
<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Culex tarsalis</em></td>
<td>147</td>
<td>47.6%</td>
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<td></td>
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<td><strong>Total</strong></td>
<td>309</td>
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</tbody>
</table>

| LC-049   | 07/31/2024    | *Aedes dorsalis*  | 28    | 23.0%   |
|          | 07/31/2024    | *Aedes melaninon* | 10    | 8.2%    |
|          | 07/31/2024    | *Aedes vexans*    | 17    | 13.9%   |
|          | 07/31/2024    | *Culex tarsalis*  | 67    | 54.9%   |
|          |               | **Total**         | 122   |         |

| LC-053   | 07/31/2024    | *Aedes dorsalis*  | 1     | 1.8%    |
|          | 07/31/2024    | *Aedes vexans*    | 8     | 14.5%   |
|          | 07/31/2024    | *Anopheles freeborni* | 4  | 7.3%    |
|          | 07/31/2024    | *Culex tarsalis*  | 42    | 76.4%   |
|          |               | **Total**         | 55    |         |

<table>
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<th>LC-054</th>
<th>Date</th>
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<th>Percent</th>
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<td><em>Aedes dorsalis</em></td>
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<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Aedes vexans</em></td>
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<td></td>
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<tr>
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<td>07/31/2024</td>
<td><em>Anopheles freeborni</em></td>
<td>4</td>
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<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Culex tarsalis</em></td>
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<td></td>
<td><strong>Total</strong></td>
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<td>Date</td>
<td>Species</td>
<td>Count</td>
<td>Percent</td>
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<td>-------</td>
<td>---------</td>
</tr>
<tr>
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<td>07/31/2024</td>
<td><em>Aedes vexans</em></td>
<td>7</td>
<td>10.4%</td>
</tr>
<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Anopheles freeborni</em></td>
<td>1</td>
<td>1.5%</td>
</tr>
<tr>
<td></td>
<td>07/31/2024</td>
<td><em>Culex pipiens</em></td>
<td>3</td>
<td>4.5%</td>
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<tr>
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<td>07/31/2024</td>
<td><em>Culex tarsalis</em></td>
<td>56</td>
<td>83.6%</td>
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<tr>
<td></td>
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<td><strong>Total</strong></td>
<td>67</td>
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</table>

**WC-055 CDC Light Trap**

<table>
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<th>WC-055</th>
<th>Date</th>
<th>Species</th>
<th>Count</th>
<th>Percent</th>
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</thead>
<tbody>
<tr>
<td>Weld</td>
<td>07/31/2024</td>
<td><em>Aedes dorsalis</em></td>
<td>7</td>
<td>6.3%</td>
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<tr>
<td>Weld</td>
<td>07/31/2024</td>
<td><em>Aedes melanimon</em></td>
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<td>81.1%</td>
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<tr>
<td>Weld</td>
<td>07/31/2024</td>
<td><em>Aedes vexans</em></td>
<td>3</td>
<td>2.7%</td>
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<tr>
<td>Weld</td>
<td>07/31/2024</td>
<td><em>Culex tarsalis</em></td>
<td>11</td>
<td>9.9%</td>
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<tr>
<td>Weld</td>
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<td><strong>Total</strong></td>
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</table>

**TOTAL**

- *Aedes-Oc*: 325 (48.9%)
- *Anopheles*: 5 (0.8%)
- *Culex*: 334 (50.3%)
- *Culiseta*: 0 (0.0%)
- *Other*: 0 (0.0%)
D. Reporting templates
Based on the need to now report data not only for FC citywide but also separately for each of the four zones (NW, NE, SE, SW; broken down using College and Drake) the city has been divided into for the purpose of WNV surveillance and mosquito control, CSU had to generate a new reporting template. This new reporting template is tailored to provide data relevant to the Level III and IV entomological triggers (see below) for control measures in the “City of Fort Collins Program Response Guidelines to Mosquito Borne Arboviral Activity (July 2008 edition)”.

Level III
• Vector index > 0.5 and increasing
• *Culex* mosquito populations increasing and at or above historical average for that time period
• Mosquito infection rates of > 3.0 per thousand (0.3%) and increasing

Level IV
• Vector index > 0.75.
• *Culex* mosquito population above historical average for that time period
• Sustained mosquito infection rates of > 5.0 per thousand (0.5%)

The new reporting format comprises a set of 6 tables to address the current week (1a, 2a, 3a) and to provide seasonal and historical context (1b, 2b, 3b) (see full table formats on following pages)
• Table 1a. Vector Index for current week
• Table 1b. Vector Index for All *Culex* by week from June-August
• Table 2a. Vector abundance for current week
• Table 2b. Vector abundance for All *Culex* by week from June-August
• Table 3a. WNV infection rate per 1,000 females for current week
• Table 3b. WNV infection rate per 1,000 females for All *Culex* by week from June-August
### Table 1a. Vector Index for current week

<table>
<thead>
<tr>
<th>Week: 31</th>
<th>Mean abundance of females per trap night&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Estimate for proportion of females infected with WNV&lt;sup&gt;2&lt;/sup&gt;</th>
<th>Vector Index</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cx. pipiens</td>
<td>Cx. tarsalis</td>
<td>Cx. pipiens&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>FC – Zone NW</td>
<td>5.33</td>
<td>13.00</td>
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<tr>
<td>FC – Zone NE</td>
<td>6.10</td>
<td>23.30</td>
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<tr>
<td>FC – Zone SE</td>
<td>5.87</td>
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<tr>
<td>FC – Zone SW</td>
<td>3.44</td>
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<td>FC – Citywide</td>
<td>5.30</td>
<td>23.00</td>
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<tr>
<td>LV</td>
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<td>43.83</td>
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<td>BE</td>
<td>1.10</td>
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<tr>
<td>BC</td>
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</tbody>
</table>

<sup>1</sup>From Table 2a (CDC light trap catches only).
<sup>2</sup>Derived from the data presented in Table 3a for estimated infection rate per 1,000 females (CDC light trap and gravid trap catches combined).
<sup>3</sup>Vector Index for Cx. pipiens = (Mean abundance of Cx. pipiens females per trap night) x (Estimate for proportion of all Cx. pipiens females infected with WNV).
<sup>4</sup>Vector Index for Cx. tarsalis = (Mean abundance of Cx. tarsalis females per trap night) x (Estimate for proportion of all Cx. tarsalis females infected with WNV).
<sup>5</sup>Vector Index for All Culex = (Vector Index for Cx. pipiens) + (Vector Index for Cx. tarsalis).

### Table 1b. Vector Index for All Culex by week from June-August

<p>| FC – Zone NW | 5.33 | 13.00 | 0.000 | 0.000 | 0.000 | 0.000 |
| FC – Zone NE | 6.10 | 23.30 | 0.000 | 0.004 | 0.000 | 0.103 | 0.103 |
| FC – Zone SE | 5.87 | 37.33 | 0.000 | 0.006 | 0.000 | 0.213 | 0.213 |
| FC – Zone SW | 3.44 | 8.78 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| FC – Citywide | 5.30 | 23.00 | 0.000 | 0.004 | 0.000 | 0.099 | 0.099 |
| LV | 2.33 | 43.83 | 0.000 | 0.004 | 0.000 | 0.153 | 0.153 |
| BE | 1.10 | 32.30 | 0.000 | 0.003 | 0.000 | 0.100 | 0.100 |
| BC | 49.00 | | 0.000 | 0.000 | 0.000 | 0.000 |</p>
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<th>FC – Citywide</th>
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</tbody>
</table>

¹ The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.
Table 2a. Vector abundance for current week (CDC light trap catches only)

<table>
<thead>
<tr>
<th>Week: 31</th>
<th>Total number females collected</th>
<th>Mean abundance of females per CDC light trap night</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cx. pipiens</td>
<td>Cx. tarsalis</td>
</tr>
<tr>
<td>FC – Zone NW</td>
<td>48</td>
<td>117</td>
</tr>
<tr>
<td>FC – Zone NE</td>
<td>61</td>
<td>233</td>
</tr>
<tr>
<td>FC – Zone SE</td>
<td>88</td>
<td>560</td>
</tr>
<tr>
<td>FC – Zone SW</td>
<td>31</td>
<td>79</td>
</tr>
<tr>
<td>FC – Citywide</td>
<td>228</td>
<td>989</td>
</tr>
<tr>
<td>LV</td>
<td>14</td>
<td>263</td>
</tr>
<tr>
<td>BE</td>
<td>11</td>
<td>323</td>
</tr>
<tr>
<td>BC</td>
<td>0</td>
<td>245</td>
</tr>
</tbody>
</table>

1Mean abundance of Cx. pipiens females per CDC light trap night = (Total number Cx. pipiens females collected) / (Number CDC light trap nights).

2Mean abundance of Cx. tarsalis females per CDC light trap night = (Total number Cx. tarsalis females collected) / (Number CDC light trap nights).

3Mean abundance of All Culex females per CDC light trap night = (Total number All Culex females collected) / (Number CDC light trap nights).

Table 2b. Vector abundance for All Culex by week from June-August

<table>
<thead>
<tr>
<th>Week</th>
<th>FC – Zone NW</th>
<th>FC – Zone NE</th>
<th>FC – Zone SE</th>
<th>FC – Zone SW</th>
<th>FC – Citywide</th>
<th>LV</th>
<th>BE</th>
<th>BC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current year</td>
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<tr>
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</tr>
<tr>
<td>23</td>
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The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

### Table 3a. WNV infection rate per 1,000 females for current week (CDC light trap and gravid trap catches combined)

<table>
<thead>
<tr>
<th>Week</th>
<th>FC – Zone NW</th>
<th>FC – Zone NE</th>
<th>FC – Zone SE</th>
<th>FC – Zone SW</th>
<th>FC – Citywide</th>
<th>LV</th>
<th>BE</th>
<th>BC</th>
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1Maximum likelihood estimate (MLE) for WNV infection rate per 1,000 females calculated using the CDC PooledInfRate 4.0 plug-in for Excel.

### Table 3b. WNV infection rate per 1,000 females for All *Culex* by week from June-August

<table>
<thead>
<tr>
<th>Week</th>
<th>FC – Zone NW</th>
<th>FC – Zone NE</th>
<th>FC – Zone SE</th>
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</table>
The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.

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\(^1\) The historical average for Week 23 is calculated from 2006-2014 data. The historical average for Week 24 uses 2006-2020 historical data. The historical average for Week 25-35 uses 2006-2022 historical data. Week 36 historical average is calculated from 2015-2022 data (2015 is the first year to have surveillance data collected into weeks 36 & 37). Week 37 historical average is calculated from 2015-2016 and 2018-2019 data. 2003-2005 surveillance data were excluded due to changes in trap locations from 2006 onwards.