Summary of Monitoring and Control for the Mosquito Program for the Week ending August 30, 2019

**West Nile Virus (WNv) in and Around Boulder County**
Boulder County-wide mosquito activity is much higher this week than the average for this point in the season. Overall mosquito numbers are 2.5 times greater than average and *Culex* numbers are 4 times greater. Mosquito activity in the City of Boulder is similar to previous years.

Mosquito samples from the City of Boulder tested negative for WNv this week. However, samples collected in other areas of the county—Longmont and Lafayette—were positive. The vector index or estimated risk for WNv transmission to people is slightly elevated in these areas.

WNv-positive mosquitoes have been reported from Adams (3), Boulder (8), Delta (4), La Plata (4), Larimer (31), Mesa (3), Pueblo (3) and Weld (23) counties. So far this year, the state has confirmed six cases of WNv in people—all were West Nile fever cases. In addition to these cases, which includes one case in Boulder where the person was exposed out of state, the Boulder County Health Department reported two new cases this week. No details on severity of the illness or city of origin are available at this time.

The risk for WNv will remain until the first hard frost and residents are strongly advised to take precautions to avoid mosquito bites. More information is available at the [Fight the Bite website](#).

The public is encouraged to report issues concerning mosquitoes with [Inquire Boulder](#), to ensure the problem gets routed to the appropriate staff member and the complaint is tracked.

**Adult Mosquito Trap Numbers**

**West Nile Virus Monitoring Trap Grid**
Adult mosquitoes are monitored from a grid of 16 traps located throughout the city. The mosquitoes are sorted and identified to species. *Culex* species samples are sent to the Colorado Department of Public Health and Environment to be tested for the presence of WNv. The following table shows the results from surveillance traps.

<table>
<thead>
<tr>
<th>Date</th>
<th>Total Mosquitoes</th>
<th>Number of <em>Culex</em> Mosquitoes</th>
<th>Percent <em>Culex</em> Mosquitoes</th>
<th>WNv Testing Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 4</td>
<td>204</td>
<td>17</td>
<td>8.3%</td>
<td>Not yet testing</td>
</tr>
<tr>
<td>June 12</td>
<td>484</td>
<td>48</td>
<td>9.9%</td>
<td>Negative</td>
</tr>
<tr>
<td>June 18</td>
<td>692</td>
<td>16</td>
<td>2.3%</td>
<td>Negative</td>
</tr>
</tbody>
</table>
Weekly mosquito trap results will be charted throughout the season and the results from the previous two years are included for comparison.
Additional Monitoring for Nuisance Mosquitoes

In addition to the WNv surveillance trap grid, additional traps are set in areas with high nuisance mosquito activity. These traps are located at the East Boulder Recreation Center, Old Tale Road and Greenbelt Meadows. The map below shows the number of mosquitoes caught in city traps that are part of the WNv grid, as well as these additional traps that are marked with an “N.”
**High Activity Areas**
The Greenbelt Meadows neighborhood regularly experiences high mosquito activity, and this is an area of special focus for staff and contractor efforts.

Each week, the Greenbelt Meadows trap will be compared to trap counts for the same week back to 2010. Mosquito activity in Greenbelt Meadows has historically followed the pattern of regional mosquito activity and this information will continue to be tracked.

At the end of the season, the information collected from the “floating” or extra traps that were set in and around the Greenbelt Meadows neighborhood, the larval mosquito field
data and the biodiversity data collected by an ecological consultant will be analyzed to better understand and address mosquito issues.

**Mosquito Larval Control Treatments**
The week ending August 24, a total of 70 site inspections occurred and 17 were treated.

- Sites treated with *Culex*-only larvae: 3
- Sites treated with nuisance-only larvae: 7
- Sites treated with both *Culex* with nuisance larvae: 7

If you have any questions, please contact Rella Abernathy at AbernathyR@BoulderColorado.gov or 303-441-1901.