

Summary of Monitoring and Control for the Mosquito Program for the Week ending July 1, 2016

West Nile Virus (WNV) in and Around Boulder County

Mosquito activity has increased throughout most areas of the city, but it is mostly due to an early increase in *Culex* mosquitoes. Most years, *Culex* don't reach this level until a few weeks later in the season. *Culex* mosquitoes can breed in tiny volumes of standing water and with recent rainstorm activity, city residents need to be vigilant about draining any standing water outside, including small containers and lids and making sure that gutters are flowing freely. The city inspects and treats breeding sites on city-owned properties, but *Culex* tend to remain within close proximity of where they emerge, making it important that the community shares in the responsibility of reducing potential breeding sites.

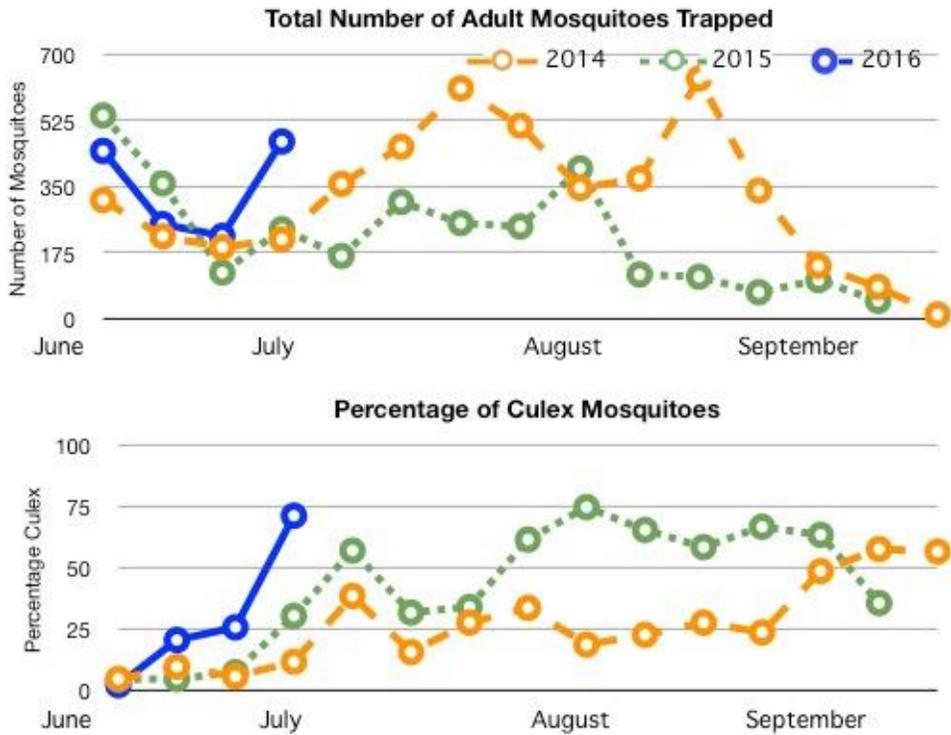
No new cases of WNV have been reported in Colorado and mosquito samples that are being tested for WNV have been negative. Results are still pending for samples that were submitted this and last week.

More information is available about reducing mosquito breeding sites and taking personal protective measure to prevent mosquito bites at the [Fight the Bite website](#).

Adult Mosquito Trap Numbers

Adult mosquitoes are monitored from a grid of 16 traps located throughout the city. The mosquitoes are sorted and identified to species. *Culex* species from designated sentinel traps 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.

Date	Total Mosquitoes	Number of <i>Culex</i> Mosquitoes	Percent <i>Culex</i> Mosquitoes	WNV Testing Results
June 7	477	12	2.5%	Not yet testing
June 14	253	53	29.9%	Negative
June 21	222	58	26.1%	Results pending
June 28	472	338	71.6%	Results pending



Weekly mosquito trap results will be charted throughout the season and the results from the previous two years will be included for comparison.

Nuisance Mosquito Program

Nuisance mosquito abundance and species composition can be compiled from 12 of the 16 WNV surveillance traps (four traps are specific for *Culex* mosquitoes), providing information about nuisance mosquito activity throughout the city. Two additional traps are placed in areas with high nuisance mosquito activity. These are located at the East Boulder Recreation Center and the Thorne Institute at the east side of Sombrero Marsh. “Floating” traps may also be set up to monitor areas of high mosquito activity. One is currently installed at the Greenbelt Meadows neighborhood.

The table below shows the adult nuisance mosquito counts in the three traps that are used for additional monitoring of nuisance mosquitoes, as well as the top five nuisance mosquito counts in WNV surveillance traps throughout the city.

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
Greenbelt Meadows*	668 (112)*
Stazio Ball Fields	66 (22)
Tom Watson Park	26 (8)

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
Sawhill Ponds	14 (154)
East Boulder Community Center*	13 (9)*
Papini	9 (62)
Christiansen Park	9 (8)
Thorne Institute*	7 (12)*

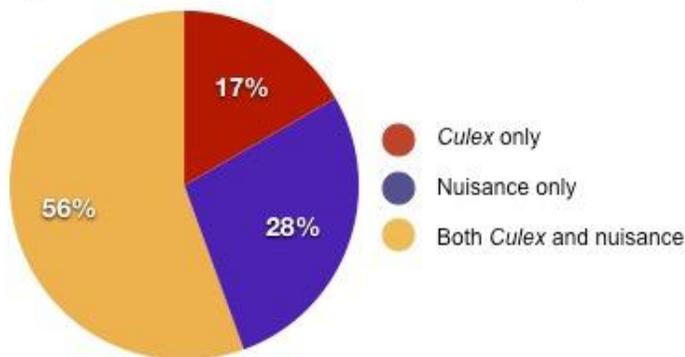
* Trap is from nuisance mosquito control program

Mosquito Larval Control Treatments

The week of June 24, a total of 317 site inspections occurred and 18 were treated.

- Sites treated with *Culex*-only larvae: 3
- Sites treated with nuisance-only larvae: 5
- Sites treated with both *Culex* with nuisance larvae: 10

Percentage of sites treated for *Culex* and nuisance mosquitoes



If you have any questions, please contact Rella Abernathy at 303-441-1901.