

Summary of Monitoring and Control for the Mosquito Program for the Week ending August 12, 2016

West Nile Virus (WNV) in and Around Boulder County

Mosquito activity is low throughout the city. The vast majority of mosquito activity is from *Culex* species, both in Boulder and the rest of the county. Although mosquito samples were negative for WNV last week in Boulder, the other zones (Longmont and the Superior/Lafayette/Louisville area) both reported positive results. Results are still pending from this week for Boulder, but mosquito samples from Longmont tested positive this week and county public health authorities have calculated an elevated risk for WNV transmission to people.

The first human cases have been confirmed in Boulder County, including the City of Boulder and they are a 47-year-old north Boulder man, a 74-year-old Lafayette woman and a 13-year-old Longmont boy. There have been 13 cases reported throughout Colorado and one death. The risk for contracting WNV will remain until the first hard freeze. The public is advised to take steps to remove mosquito breeding sites on their property and take protective measures to prevent mosquito bites. More detailed information is available at the [Fight the Bite website](#).

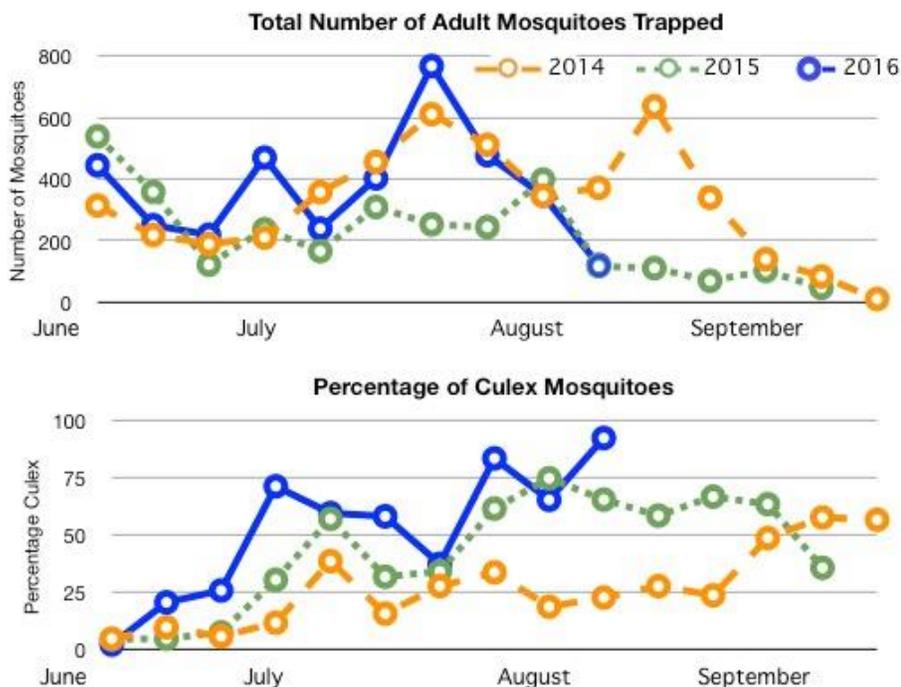
Adult Mosquito Trap Numbers

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%	Negative
June 28	472	338	71.6%	Negative
July 5	242	145	59.9%	Negative
July 12	405	237	58.5%	Negative
July 19	769	290	37.7%	Negative
July 26	480	424	88.3%	Positive

August 2	350	230	65.7%	Negative
August 9	124	115	92.7%	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*	8 (4)
Rolling Rock	3 (0)
Stazio Ball Fields	2 (27)
South Boulder Rec Center	2 (8)
Christensen Park	1 (10)
Locust and 10 th Street	1 (6)
East Boulder Community Center*	0 (0)*
Thorne Institute*	0 (0)*

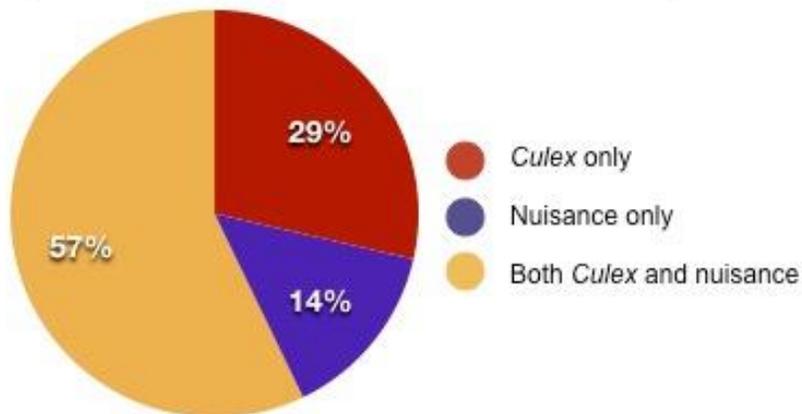
* Trap is from nuisance mosquito control program

Mosquito Larval Control Treatments

The week ending August 5, a total of 232 site inspections occurred and 7 were treated.

- Sites treated with *Culex*-only larvae: 2
- Sites treated with nuisance-only larvae: 1
- Sites treated with both *Culex* with nuisance larvae: 4

Percentage of sites treated for *Culex* and nuisance mosquitoes



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