

## Summary of Monitoring and Control for the Mosquito Program for the Week ending August 26, 2016

### **West Nile Virus (WNV) in and Around Boulder County**

Overall mosquito activity is declining, as is typical for this point in the year. *Culex* species are the majority of mosquitoes in most parts of the city. The city's mosquito samples were negative for WNV last week, but the other two zones in Boulder County reported positive results with the risk of transmission elevated in the Longmont area. Longmont again reported positive results this week, but with a lower estimate of risk for transmission to people. However, both Boulder and the results from the rest of the county are pending for this week. The public should assume that WNV will be present in the region until the first hard frost.

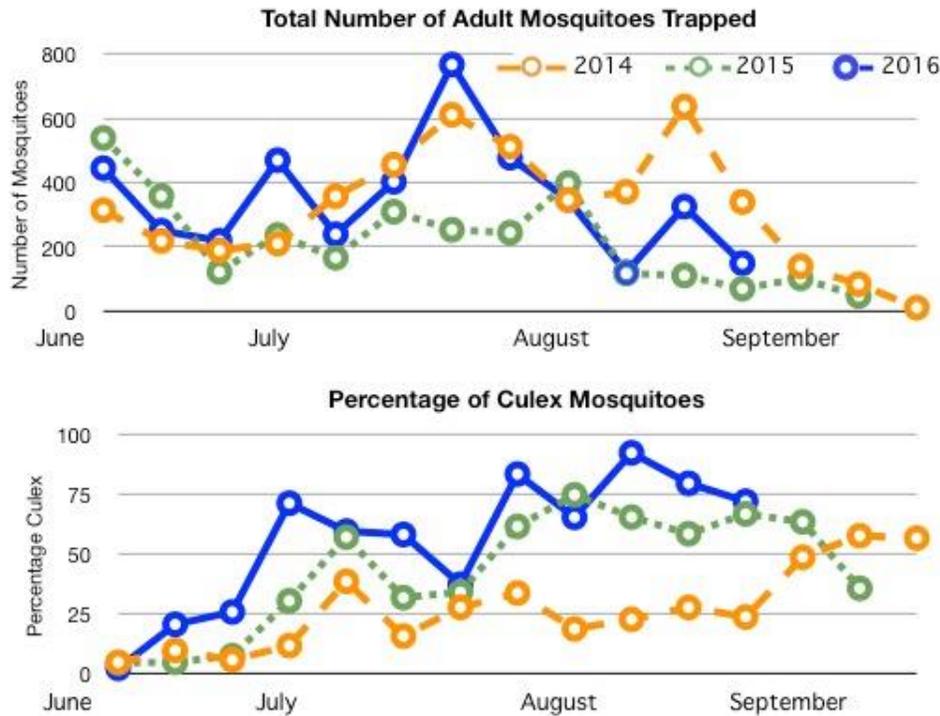
Two more human cases were reported in Boulder County. So far in Colorado this year, 34 WNV cases have been reported and one death. More cases are likely to be reported in coming weeks. People should take precautions to avoid mosquito bites and drain standing water. Details are available at the [Fight 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%	Positive
August 16	328	262	79.9%	Negative
August 23	152	110	72.4%	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*	180 (44)
Stazio Ball Fields	27 (22)
East Boulder Community Center*	27 (14)*

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i> )
Christiansen Park	4 (34)
Rolling Rock	3 (10)
Papini	2 (6)
Tom Watson Park	2 (1)
Thorne Institute*	0 (5)*

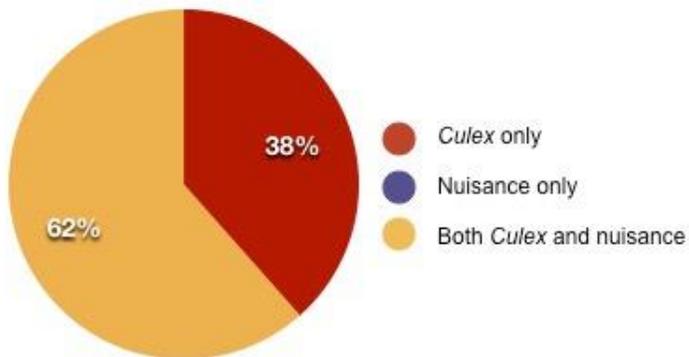
\* Trap is from nuisance mosquito control program

### ***Mosquito Larval Control Treatments***

The week ending August 19, a total of 276 site inspections occurred and 13 were treated.

- Sites treated with *Culex*-only larvae: 5
- Sites treated with nuisance-only larvae: 0
- Sites treated with both *Culex* with nuisance larvae: 8

***Percentage of sites treated for *Culex* and nuisance mosquitoes***



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