

Summary of Monitoring and Control for the Mosquito Program for the Week ending August 28, 2015

West Nile Virus (WNV) in and Around Boulder County

Mosquito activity remains low in the city and throughout Boulder County. Longmont had mosquito samples test positive for WNV for the third consecutive week, and their WNV risk estimate is slightly elevated this week. Human WNV cases are being reported throughout the state, including three in Boulder County – one each in Superior, Longmont and Gunbarrel with another likely case currently being investigated. Although these individuals contracted WNV earlier this summer and mosquito activity is currently low, there is still the possibility of being bitten by an infected mosquito and becoming ill. Therefore, people need to take precautions to avoid mosquito bites.

There are currently 19 confirmed human cases in Colorado from the following counties: Adams (2); Arapahoe (3); Boulder (3); Costilla (1); Denver (2); Fremont (1); Larimer (4); Mesa (1); and Pueblo (2).

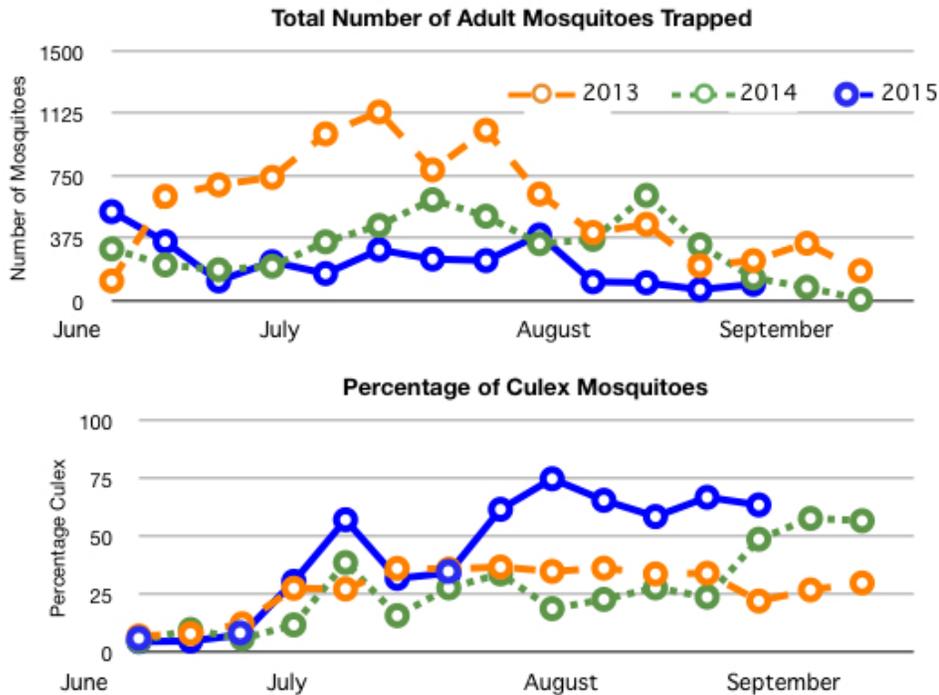
More information is available for prevention of WNV at the [Fight the Bite website](#).

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 2	541	26	4.8%	Not yet testing
June 9	361	20	5.5%	Negative
June 16	125	14	7.8%	Negative
June 23	240	74	30.8%	Negative
June 30	169	97	57.4%	Negative
July 7	312	100	32.1%	Negative
July 14	256	88	34.4%	Positive
July 21	247	153	61.9%	Negative
July 28	401	301	75.1%	Positive
August 4	120	79	65.8%	Negative
August 11	114	67	58.8%	Negative
August 18	73	49	67.1%	Negative
August 25	105	67	63.8%	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>)
Tom Watson Park	24 (11)
Greenbelt Meadows*	10 (1)*
Papini	9 (6)

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
Broadway and Alpine	2 (2)
Locust and 10th	1 (0)
East Boulder Community Center*	0 (3)*
Thorne Institute*	0 (3)*

* Trap is from nuisance mosquito control program

Mosquito Larval Control Treatments

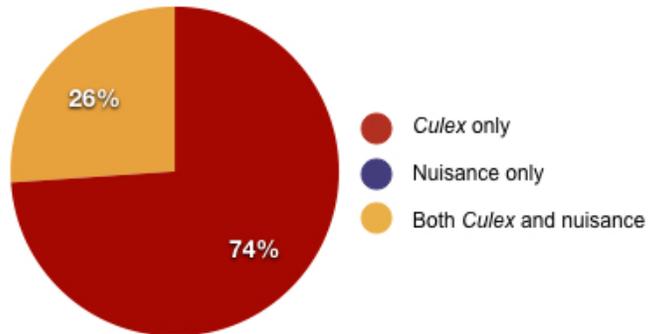
A total of 421 site inspections occurred and 23 were treated.

Sites treated with *Culex*-only larvae: 17

Sites treated with nuisance-only larvae: 0

Sites treated with both *Culex* with nuisance larvae: 6

Percentage of sites treated for *Culex* and nuisance mosquitoes



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