

## Summary of Monitoring and Control for the Mosquito Program for the Week ending August 14, 2015

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

Mosquito activity remains extremely low throughout the city. The majority of mosquitoes are *Culex*, and although the proportion is high, the numbers are still low. Last week's mosquito samples also tested negative for WNV. This week's results are still pending. The Zone 3 monitoring area (Superior, Louisville and Lafayette) had positive samples, and the risk of transmission to people is slightly elevated.

Mosquito samples have tested positive from Adams (1), Boulder (4), Delta (1), Denver (5), Jefferson (1), Larimer (7), Mesa (1), Pueblo (7) and Weld Counties (21). Five human WNV cases have been confirmed in Colorado. Two are from Larimer County and one each from Adams, Pueblo, and Mesa Counties. Last year at this point in the season, 10 cases had been reported.

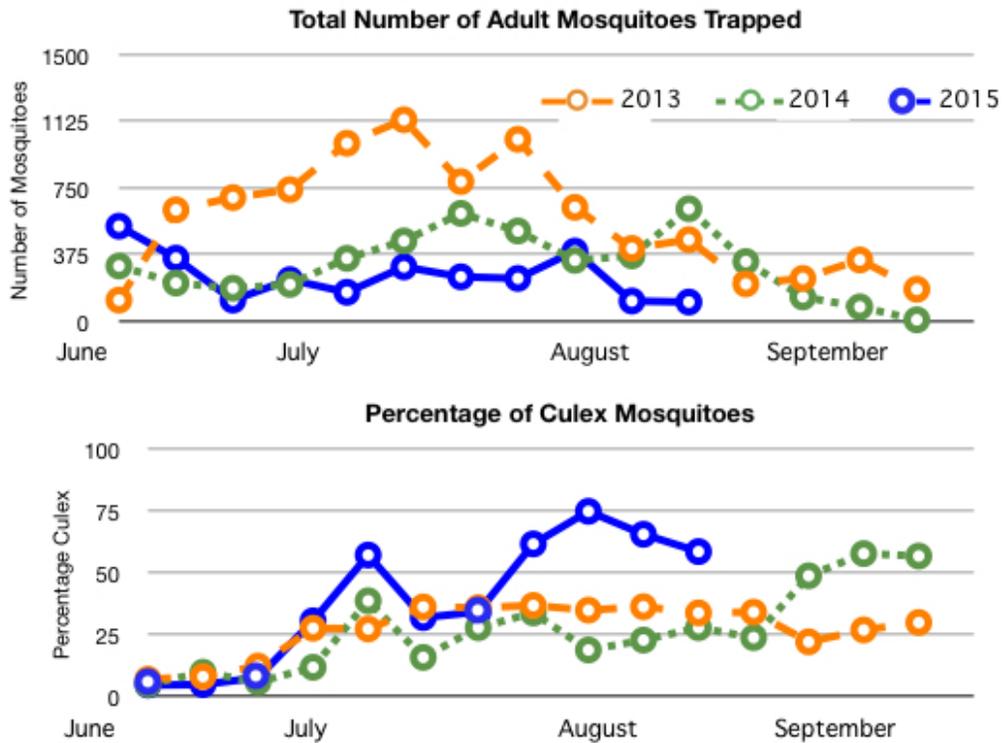
Risk for WNV transmission to humans will continue until the first hard freeze and public health officials urge residents to take precautions to prevent mosquito bites and to continue monitoring their properties for standing water and draining it. More information is available at the [Fight the Bite website](#).

### ***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 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%	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*	25 (0)*
Rolling Rock Ranch	17 (1)

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i> )
Tom Watson Park	15 (13)
Sombrero Marsh	4 (12)
Stazio Ball Fields	3 (4)
Papini	2 (13)
East Boulder Community Center*	0 (5)*
Thorne Institute*	0 (1)*

\* Trap is from nuisance mosquito control program

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

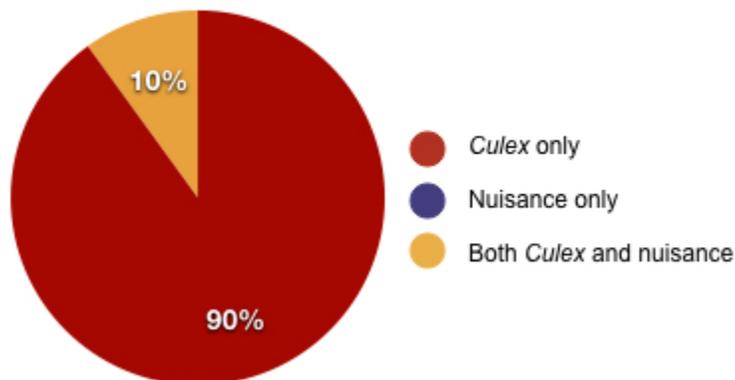
A total of 390 site inspections occurred and 20 were treated.

Sites treated with *Culex*-only larvae: 18

Sites treated with nuisance-only larvae: 0

Sites treated with both *Culex* with nuisance larvae: 2

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



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