

Summary of Monitoring and Control for the Mosquito Program for the Week ending July 10, 2015

West Nile Virus (WNV) in and Around Boulder County

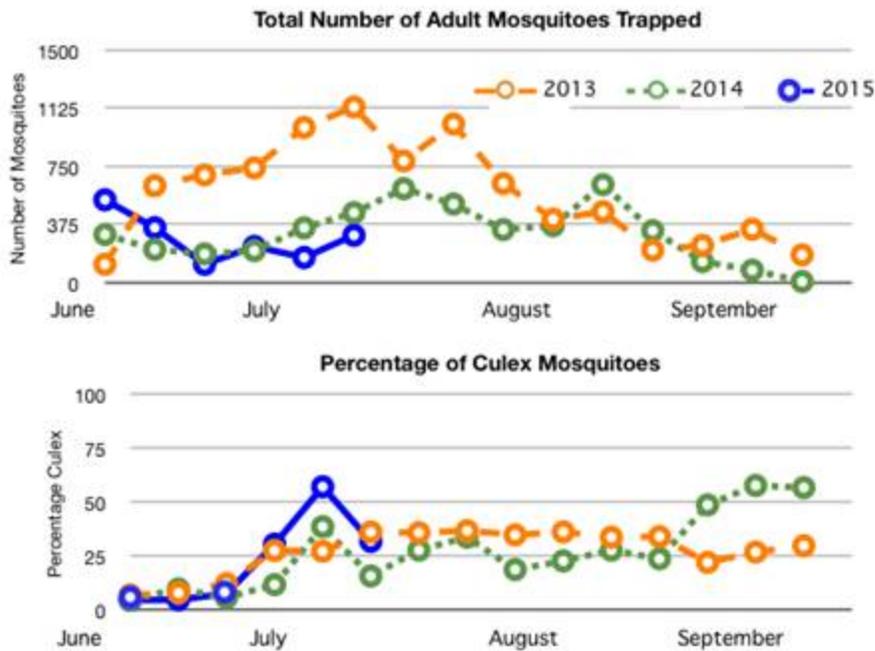
Mosquito activity, including *Culex*, was close to average in Boulder County this week. Overall mosquito activity remained relatively low throughout the majority of the City of Boulder and the proportion of *Culex* is typical for this time in the season. The first positive results for WNV-infected mosquitoes have been reported. Denver had one positive sample and Larimer County had two. The first human case has also been verified and it occurred in Mesa County. This person is suffering from the most serious neuroinvasive form of the disease, but is recovering. No positive mosquito samples or human cases have been reported in Boulder County so far this season. However, since WNV is known to be present in the region, it is strongly recommended that the public take action to reduce mosquito breeding sites by draining standing water and people should also take precautions to avoid mosquito bites. More information is available about 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%	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>)
Stazio Ball Fields	88 (32)
Greenbelt Meadows*	84 (1)*
Rolling Rock Ranch	69 (18)
East Boulder Community Center*	53 (22)*

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i>)
Sawhill Ponds	35 (7)
Tom Watson Park	9 (0)
Sombrero Marsh	8 (6)
Thorne Institute*	2 (17)*

* Trap is from nuisance mosquito control program

Mosquito Larval Control Treatments

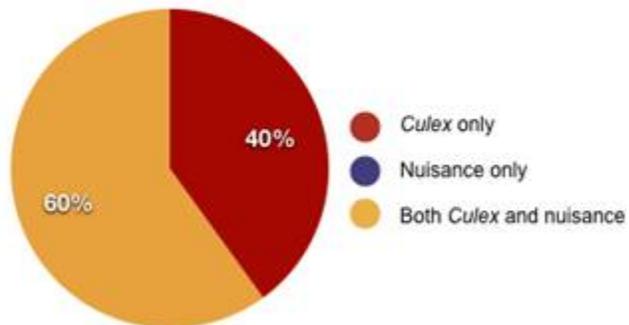
A total of 260 site inspections occurred and 10 were treated.

Sites treated with *Culex*-only larvae: 4

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.