

## Summary of Monitoring and Control for the Mosquito Program for the Week ending July 17, 2015

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

Mosquito activity was below average for the City of Boulder this week, while the percentage that were *Culex* was close to average. Overall mosquito activity for the rest of Boulder County was slightly higher than average, including the number of *Culex*. Currently, no mosquito samples have tested positive for WNV in Boulder County. However, other areas of the state have confirmed positive results for mosquito infection, including Weld, Larimer, Denver and Pueblo Counties. Greeley is currently experiencing an elevated risk for WNV transmission to people. Risk levels this high this early in the season could result in higher human cases than average for this year.

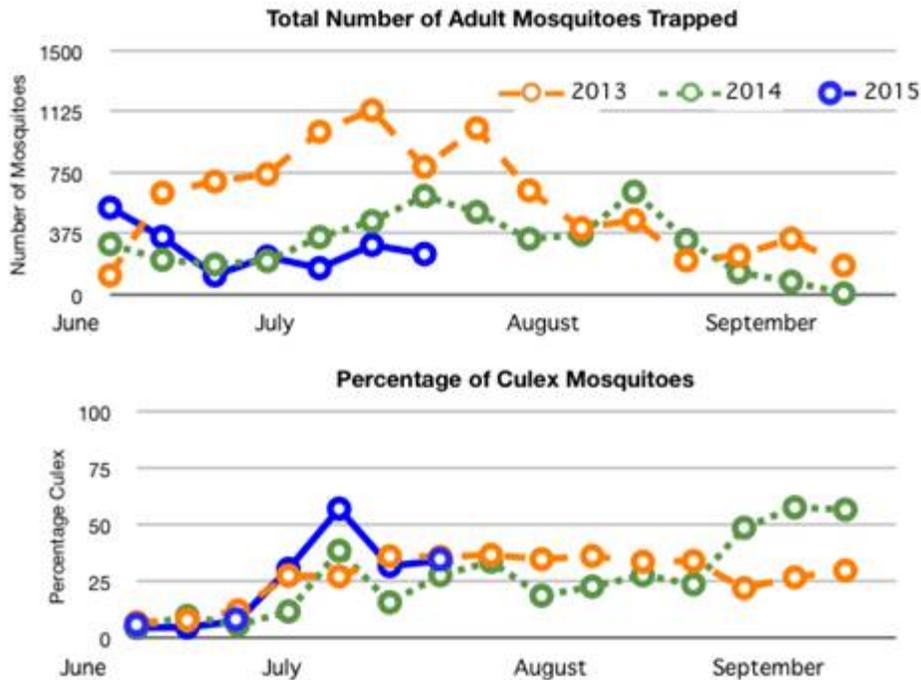
Only one human case has been confirmed in Colorado so far this season. Most human cases occur and are verified later in the summer. The majority of people (80%) who contract WNV will show no symptoms. Approximately 9% suffer from severe flu symptoms and about 1% of those who are infected with WNV will experience the severe form of the disease, which can present as meningitis, encephalitis or flaccid paralysis. Although the majority of public will not contract WNV or become seriously ill, this is a preventable disease and contracting WNV can result in lifelong impairment or death. Therefore, it is strongly recommended that all residents take precautions while outdoors to prevent mosquito bites. Private property owners should also drain all standing water in their yards and inspect window screens and repair any holes. No positive mosquito samples or human cases have been reported in Boulder County so far this season. 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%	Negative
July 14	256	88	34.4	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*	93 (0)*
Sawhill Ponds	76 (7)
Stazio Ball Fields	28 (11)

Trap location	Number of Nuisance Mosquitoes (Number of <i>Culex</i> )
Tom Watson Park	22 (13)
Rolling Rock Ranch	19 (0)
Christensen Park	13 (29)
East Boulder Community Center*	13 (9)*
Thorne Institute*	2 (3)*

\* Trap is from nuisance mosquito control program

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

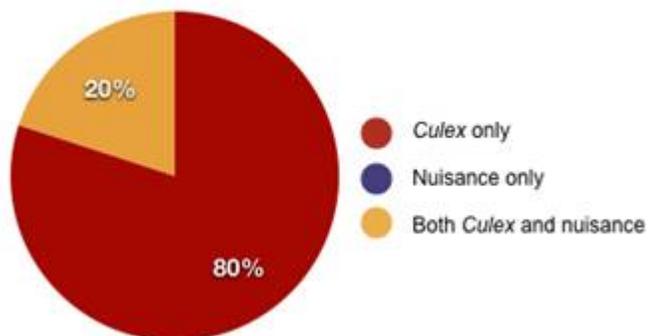
A total of 251 site inspections occurred and 5 were treated.

Sites treated with *Culex*-only larvae: 4

Sites treated with nuisance-only larvae: 0

Sites treated with both *Culex* with nuisance larvae: 1

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



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