

2018 VA Mosquito Activity Report

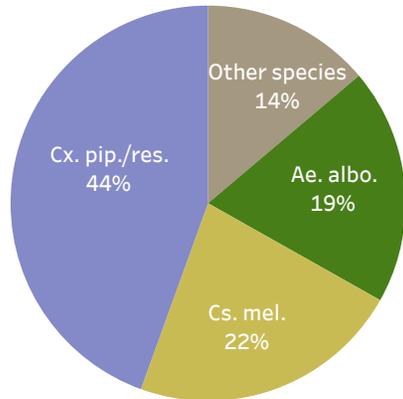
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Surveillance of mosquitoes that transmit disease allows public health officials to identify high risk situations and target interventions when mosquito populations or infection rates are higher than expected. Mosquitoes are trapped, identified, and pooled into groups of ~50 mosquitoes of a single species and tested for West Nile Virus (WNV) or Eastern Equine Encephalitis (EEE).

The VDH Monthly Mosquito Activity Report describes routine mosquito surveillance and testing conducted by local mosquito control jurisdictions and the Division of Consolidated Laboratory (DCLS) in Virginia, as compiled and reported by the Virginia Department of Health (VDH).

430,994 mosquitoes trapped in 13,021 pools since May 1, 2018

Trapped Mosquito Species

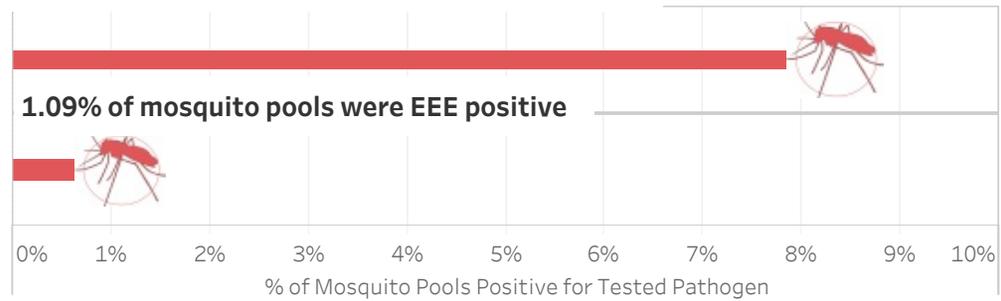


- *Culex pipiens* [Cx. pip.], often grouped with *Culex restuans* [Cx. res.], the Northern house mosquito, is the primary vector of WNV in VA.
- *Culiseta melanura* [Cs. mel.], the black tailed mosquito, is the primary vector of EEE in VA.
- *Aedes albopictus* [Ae. albo.], the Asian tiger mosquito, is known to transmit WNV as well as Chikungunya, Dengue, Zika virus, La Crosse virus, and other viruses.
- Other trapped mosquitoes include *Aedes triseriatus*, *Ae. japonicus*, *Ae. vexans*, *Anopheles punctipennis*, *Coquillettidia perturbans*, *Culex salinarius*, and unknown mosquito species.

Testing Results*^

8.33% of mosquito pools were WNV positive

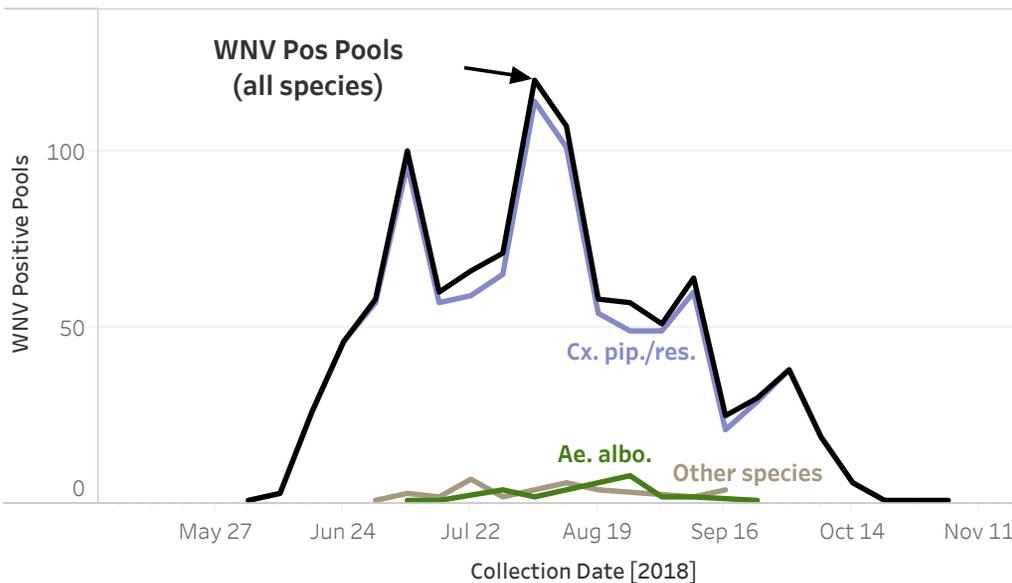
1.09% of mosquito pools were EEE positive



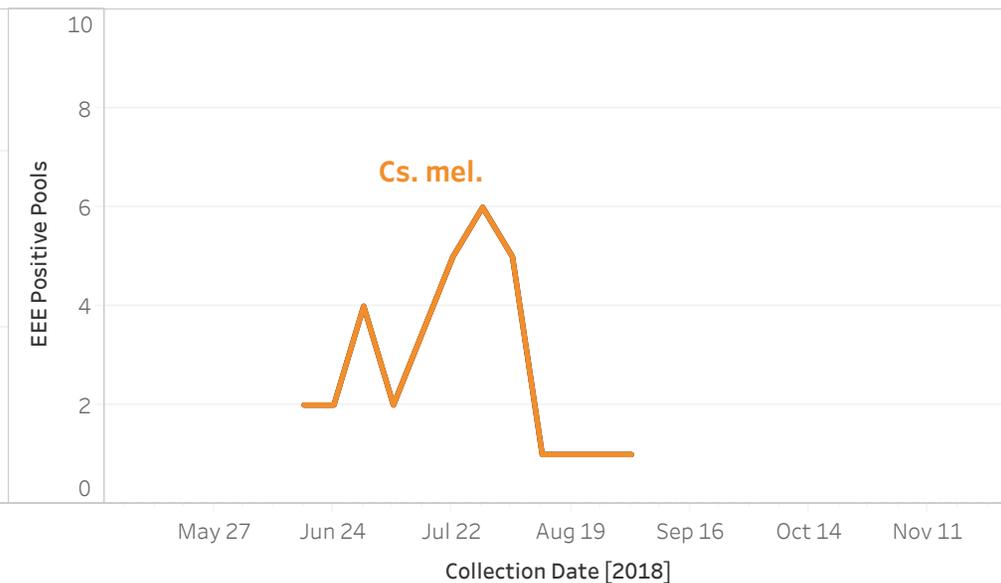
*Pools may be tested for both WNV and EEE.

^A mosquito pool is a group of ~50 mosquitoes of a single species. A positive pool indicates at least one mosquito in the pool was infected with the pathogen.

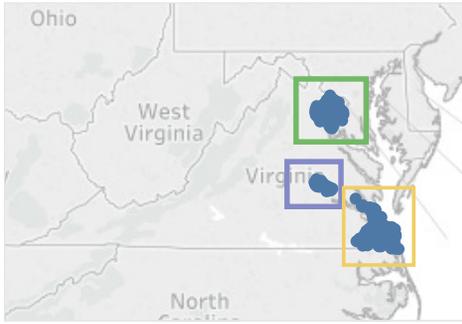
West Nile Virus Positive Mosquito Pools



Eastern Equine Encephalitis Positive Mosquito Pools



In Virginia, there are **10 active mosquito control** jurisdictions that trap and test mosquitoes.



There were **430,994** mosquitoes trapped and tested in **13,021** pools during 2018 surveillance season.

