

Title: Arbovirus Activity in Massachusetts: 2014 Season Summary

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Abstract:

2014 Arbovirus activity in Massachusetts included WNV and EEE mosquito isolates; WNV human infections and EEE animal infections. A total of 5039 mosquito pools were tested for the season. Fifty-six mosquito pools were confirmed as WNV (+) and 33 pools were confirmed as EEE (+). Of the 56 WNV mosquito pools, 48 were identified as *Culex pipiens/restuans*. The remaining WNV isolates were identified in *Culex species* (3), *Culex Salinarius* (1), *Culiseta melanura* (2), *Coquilletidia perturbans*(1),and *Ochlerotatus triseriatus*(1). Of the 33 EEEv mosquito pools, 24 were identified in the enzootic vector species, *Culiseta melanura*. The remaining occurred in *Coquilletidia perturbans*(5), *Culex species*(2) and *Uranotaenia sapphirina*(1). 2014 saw a total of 5 WNV human cases. There were 2 EEE positive animals cases confirmed this season; one in Bristol County and one in Worcester County.