

# NEW JERSEY ADULT MOSQUITO SURVEILLANCE

Report for 21 October to 10 November 2012, CDC Weeks 43-45

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This New Jersey Agricultural Experiment Station report is supported by Rutgers University, Hatch funds, funding from the NJ State Mosquito Control Commission and with the participation of the 21 county mosquito control agencies of New Jersey.

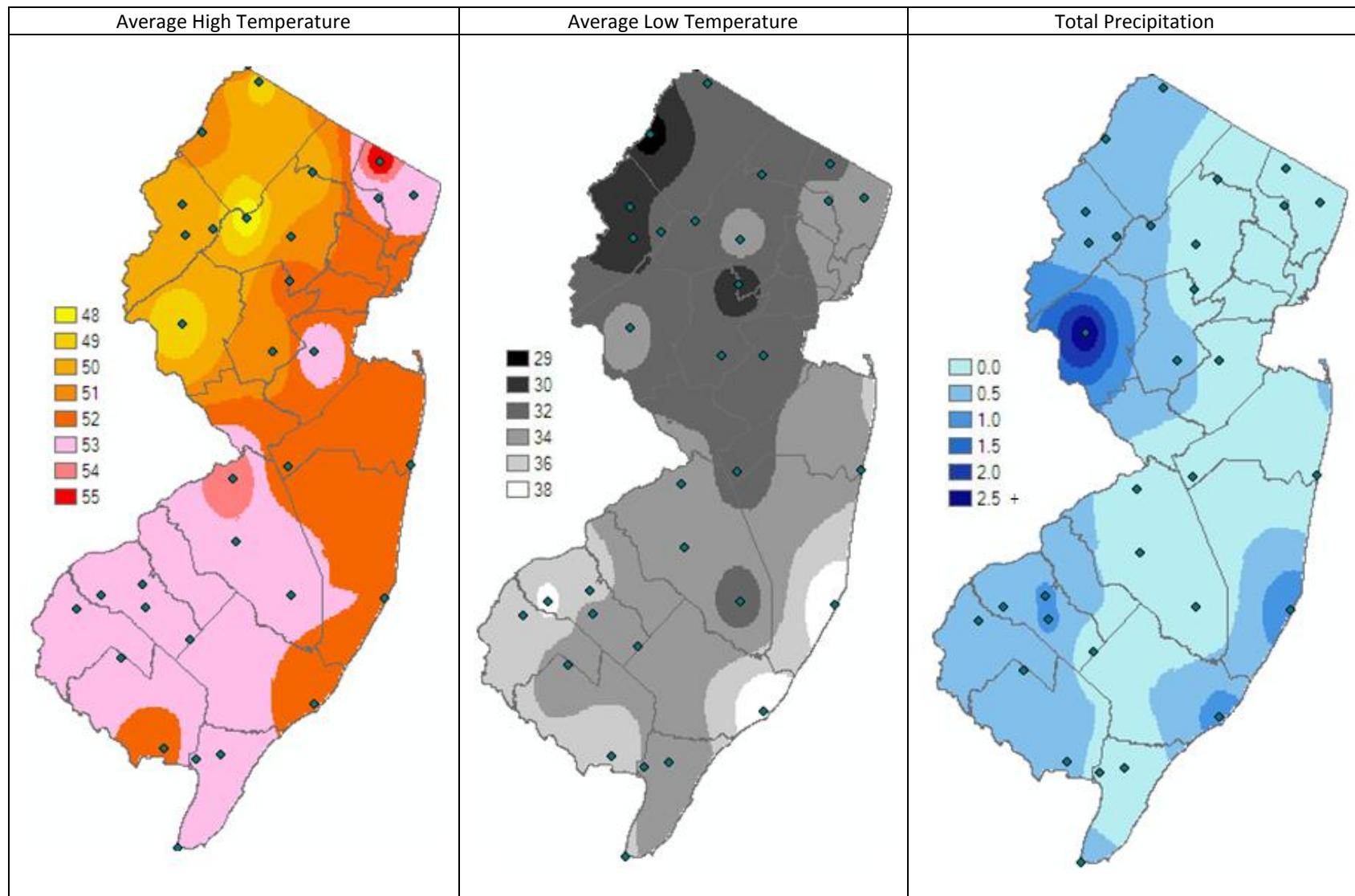
## Summary Table – Week 43-45

Region	<i>Aedes vexans</i>			<i>Culex Mix</i>			<i>Coquillettidia perturbans</i>			<i>Aedes sollicitans</i>		
	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase
Agricultural												
Coastal												
Delaware Bayshore												
Delaware River Basin												
New York Metro												
North Central Rural												
Northwest Rural												
Philadelphia Metro												
Pinelands												
Suburban Corridor												

\*Averages represent data from, at most, the previous 5 years. Increase is a scale of current values from historical values where no difference or a decrease is represented by 0 (blue), up to 50% greater difference by 1 (green), up to 100% greater difference by 2 (yellow), up to 150% greater difference by 3 (orange) and greater than 150% increase by 4 (red). White cells in the increase column denote increases from an historic zero and thus no value can be appropriately given. nd=no data reported.

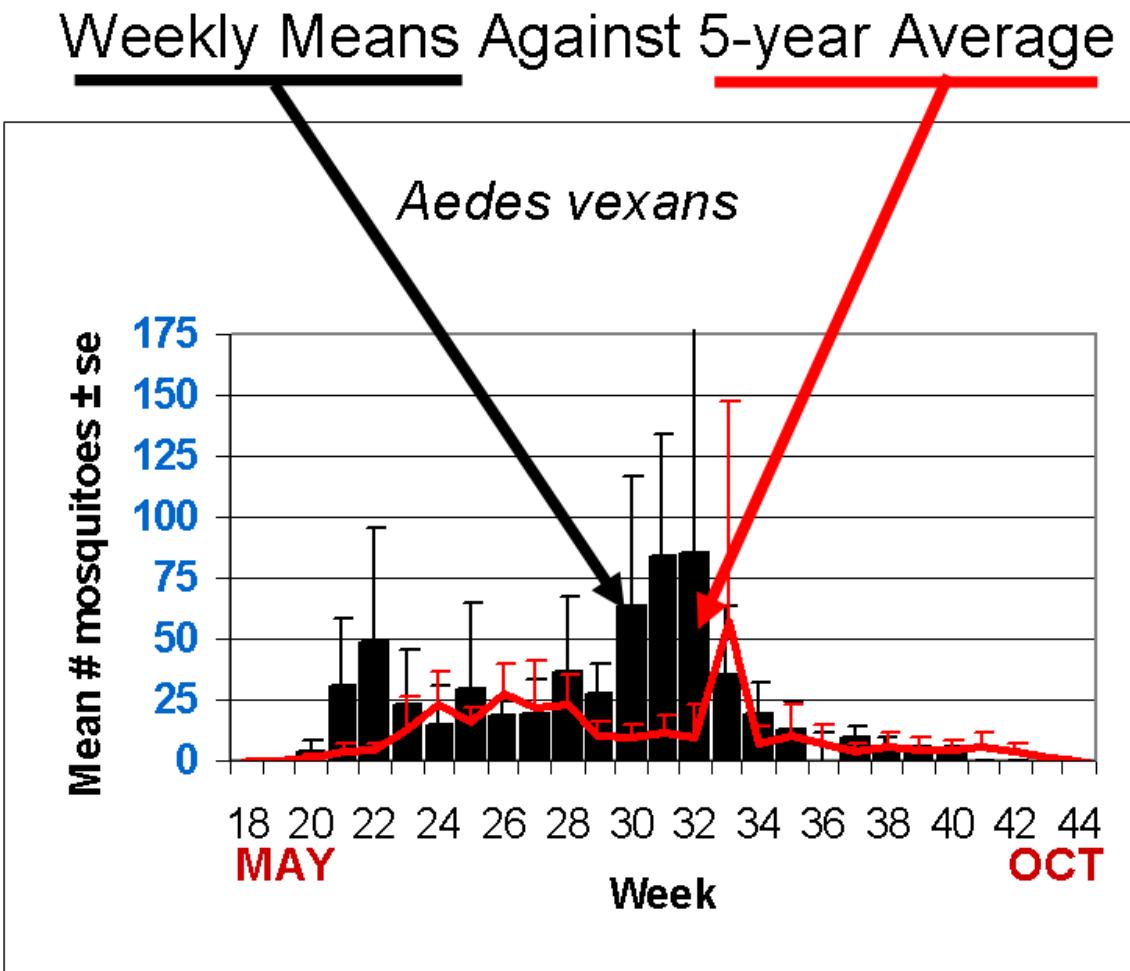
State Summary: Most adult mosquitoes on the wing have gone with the winds of Hurricane Sandy and the following nor'easter effectively ended the mosquito season for New Jersey. Although a few numbers were reported in Week 44, interpretation is difficult given that most counties ended their surveillance prior to the arrival of Sandy. Given that, no numbers are reported in the above table. This is the last report of the 2012 season.

## Climate Factors



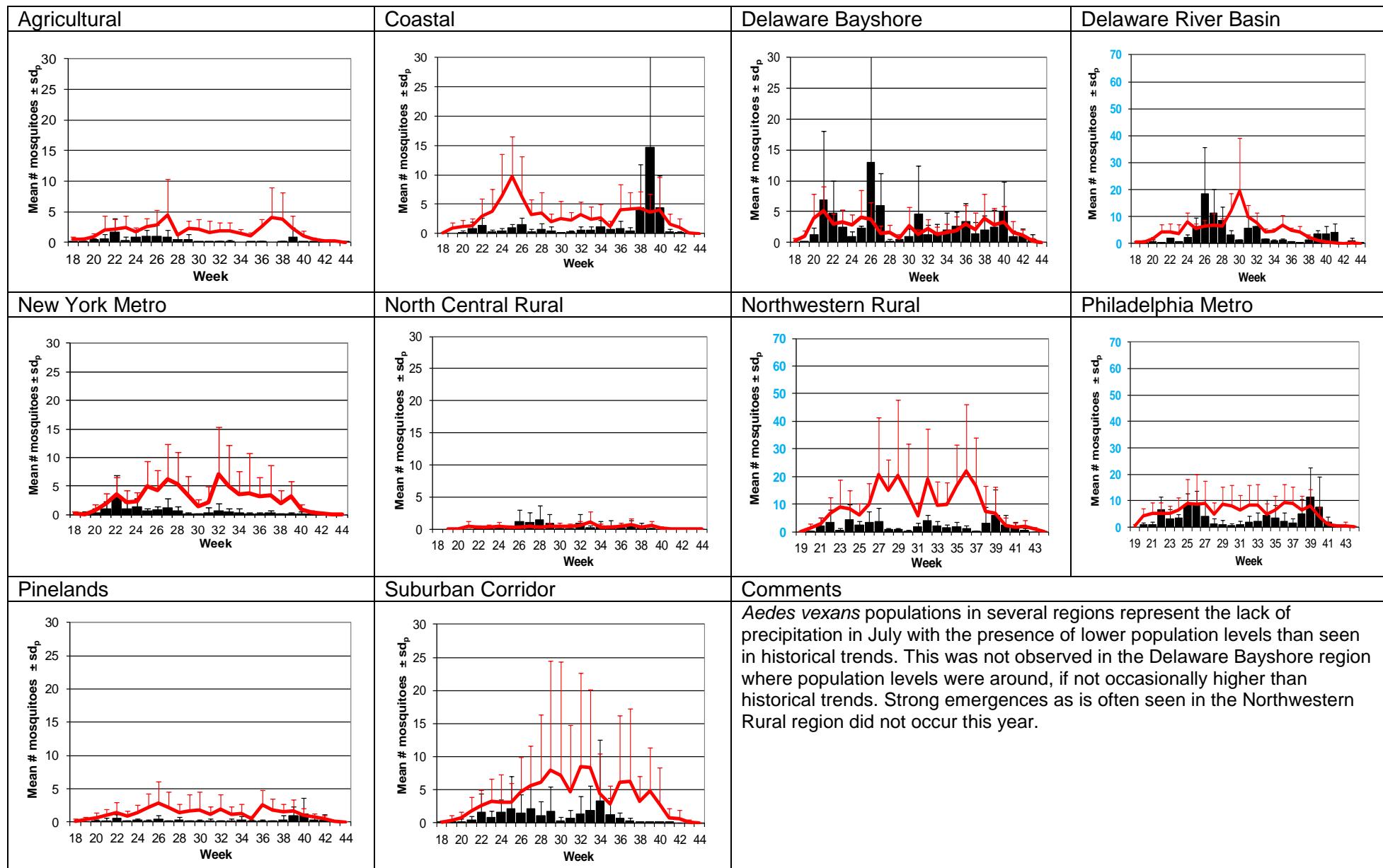
The three figures show the interpolation of average maximum and minimum temperature and total precipitation for Nov 1-13, 2012 in New Jersey. Data points are from about 34 weather stations maintained through the New Jersey Weather & Climate Network and the State Climatologist. Interpolation between points was performed using ArcMap 10.1.

**The Species Graphs:** The species graph pages include a graph with two plots for each of the ten regions defined on the first page (Agricultural, Coastal, Delaware Bayshore, Delaware River, New York Metro, North-Central, Northwestern, Philadelphia Metro, Pinelands, and Suburban Corridor). Below is an example of one graph from one species within one region. The bar plot show the average number of mosquitoes per trap within the region (weekly means) and line plots show the historical trend as the average number of mosquitoes from the previous 5 years (5-year average). In general, historical data are running means from the previous 5 years, but on occasion, will include data from fewer years. Adjustments are made to account for year discrepancies. Data for this report are from Atlantic, Bergen, Camden, Cape May, Cumberland, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Ocean, Salem, Somerset, Sussex, Union and Warren counties. Counties have discontinued their traps for the season beginning mid to late October.



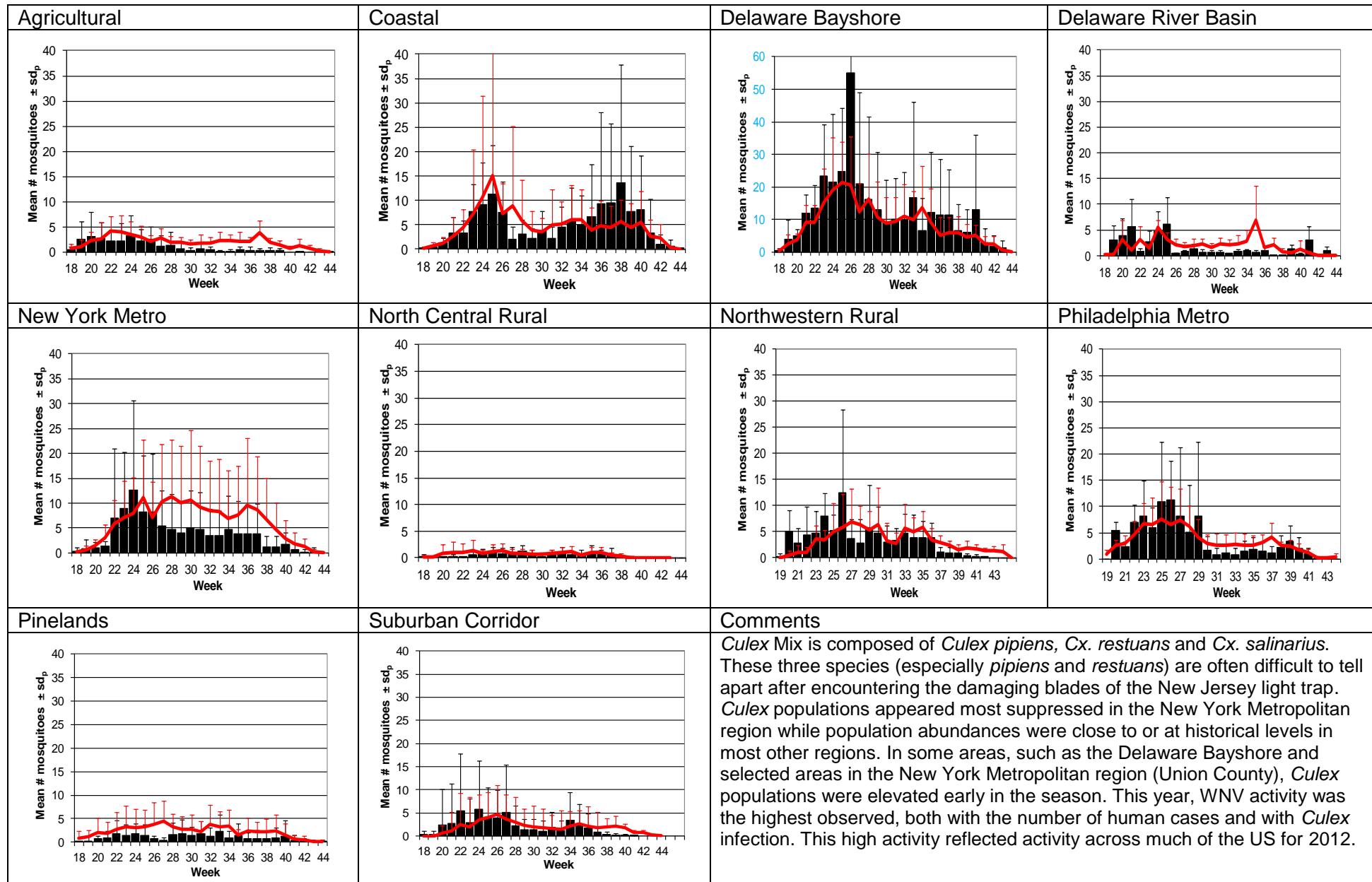
# *Aedes vexans* - Fresh Floodwater Species

## Multivoltine Aedine (*Ae. vexans* Type)



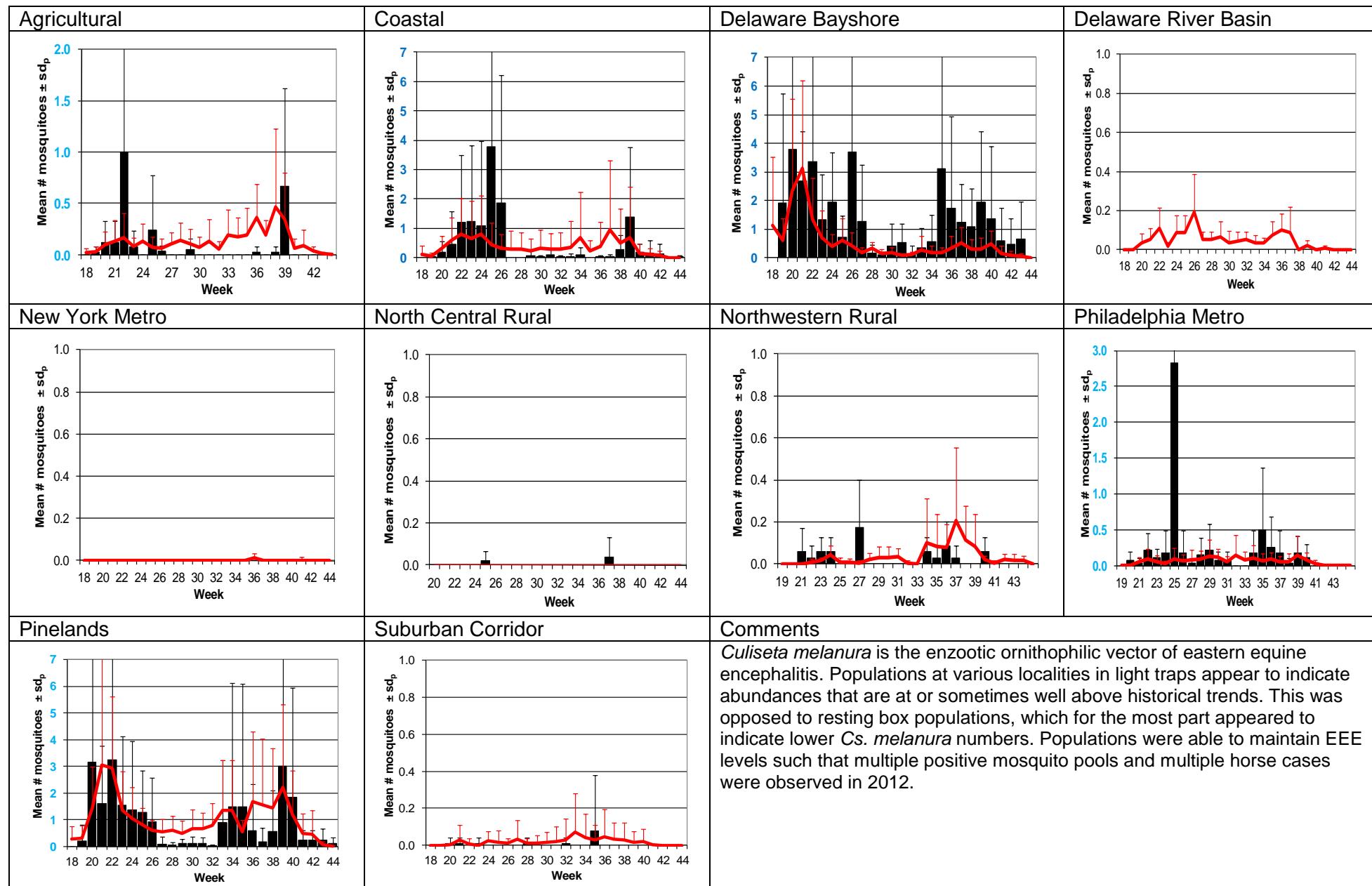
# Culex Mix – Permanent Water Species

## Multivoltine *Culex/Anopheles* (Cx. *pipiens* Type)



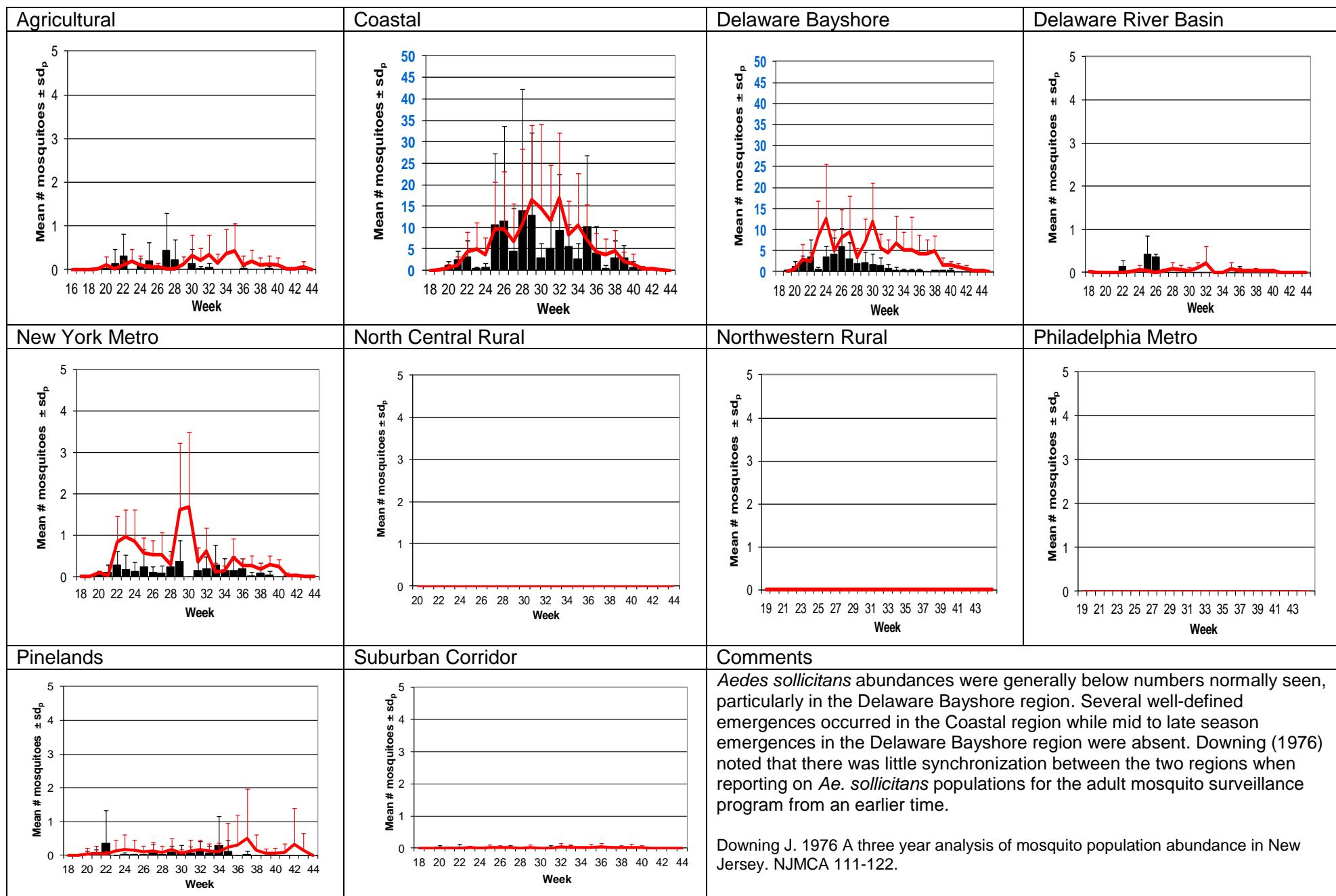
# *Culiseta melanura* – Miscellaneous Group

## Unique (*Cs. melanura* Type)



# *Aedes sollicitans* - Salt Floodwater Species

## Multivoltine Aedine (*Ae. sollicitans* Type)

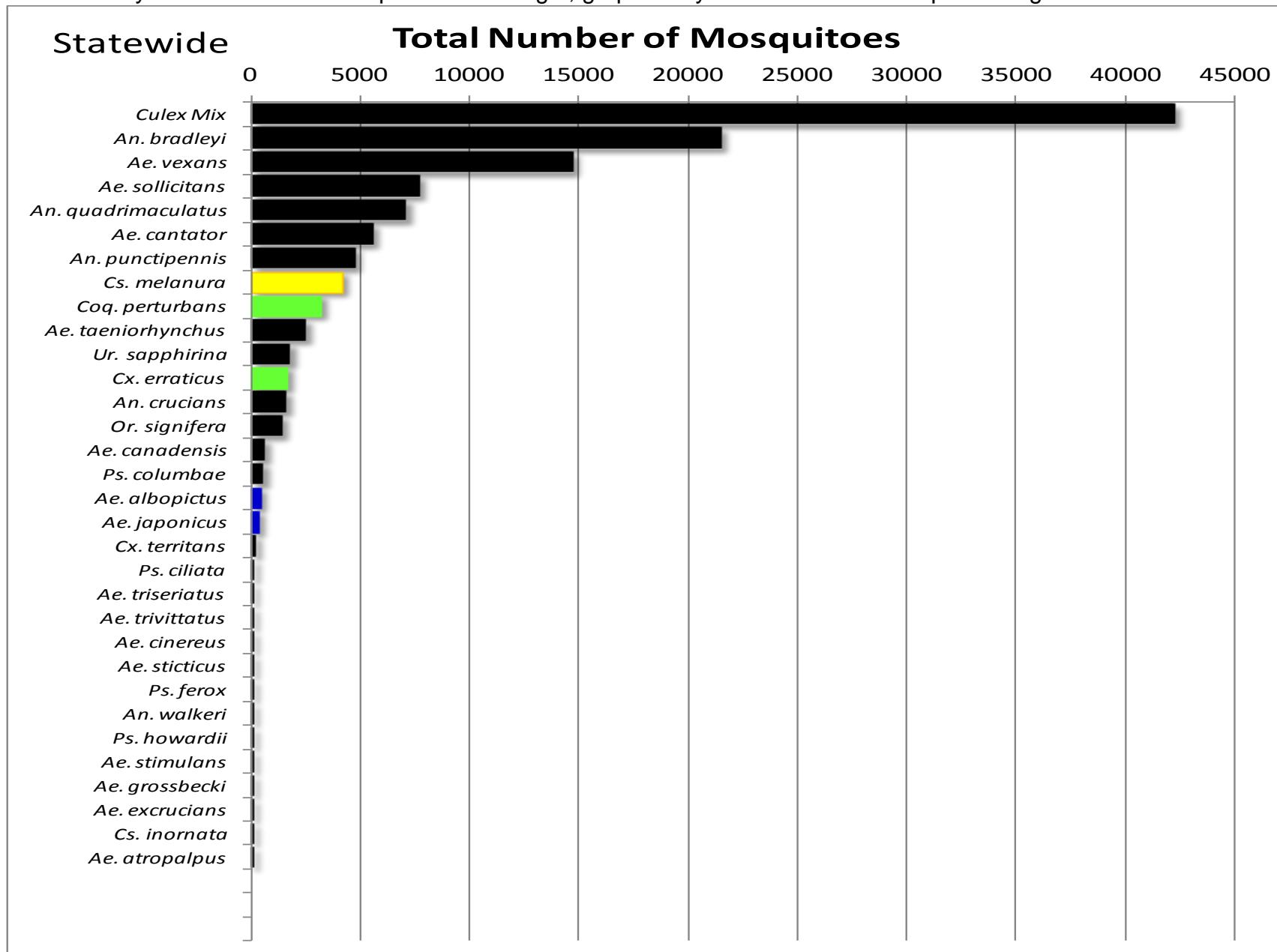


WNV

EEE

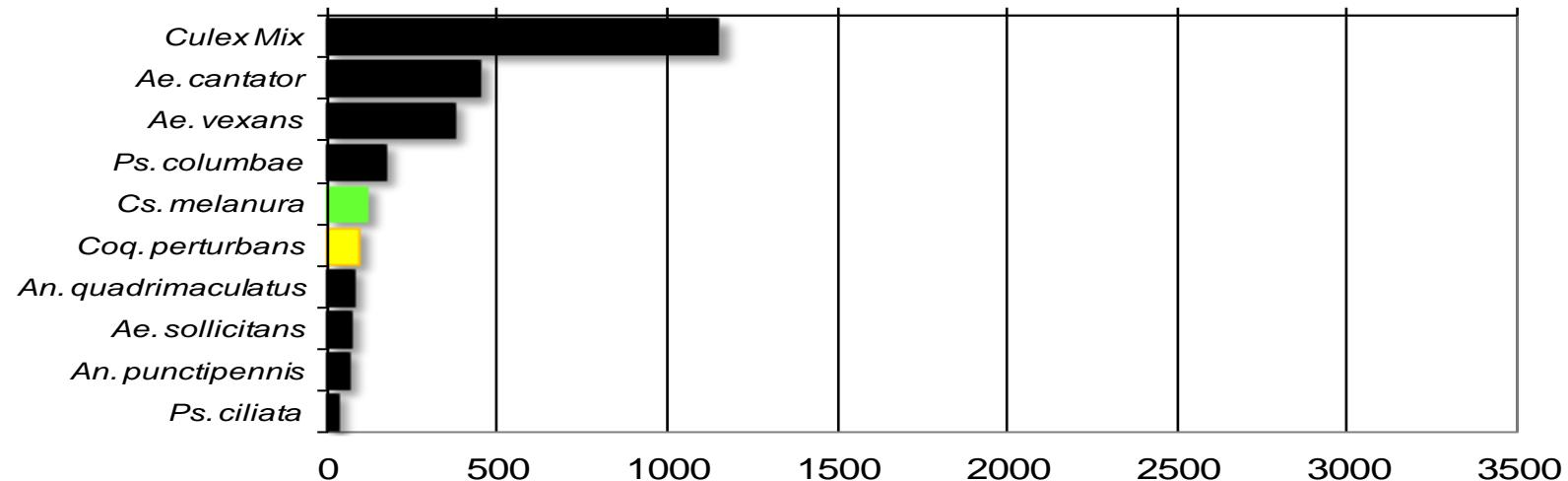
**Top Ten Mosquito Species/Region** - ■ Ae. albopictus, ■ Ae. japonicus (invasives); ■ Cs. melanura or Cx. erraticus ■ Coq. perturbans

Note: In early season when fewer species are caught, graphs may show less than ten species/region or 25 statewide.



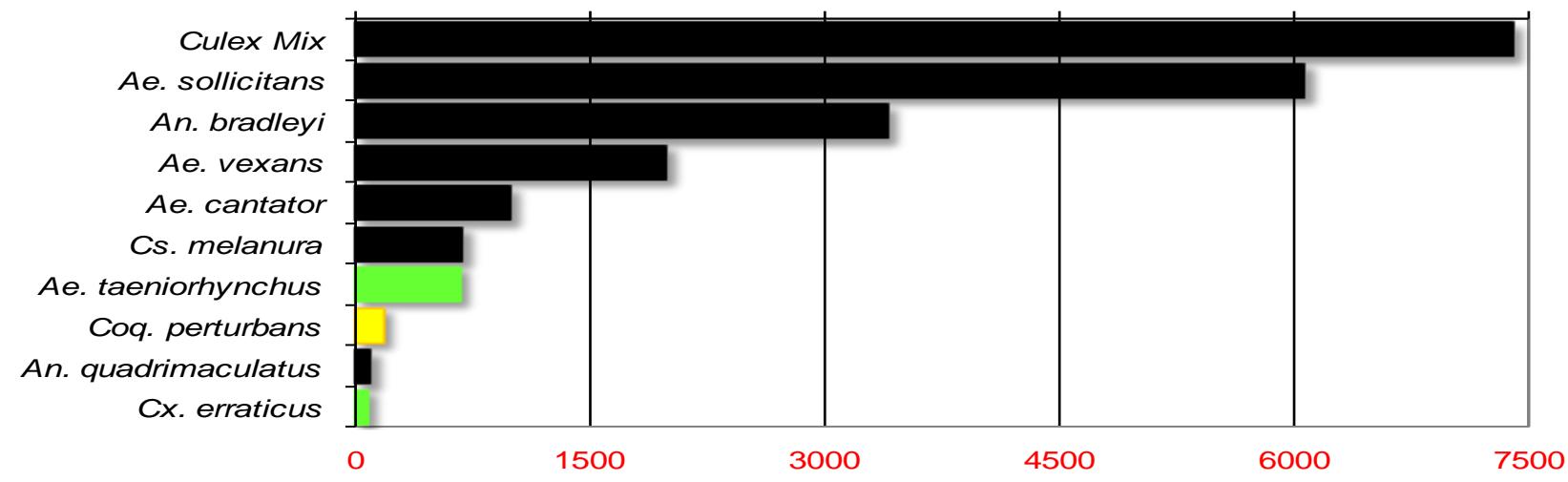
## Agricultural

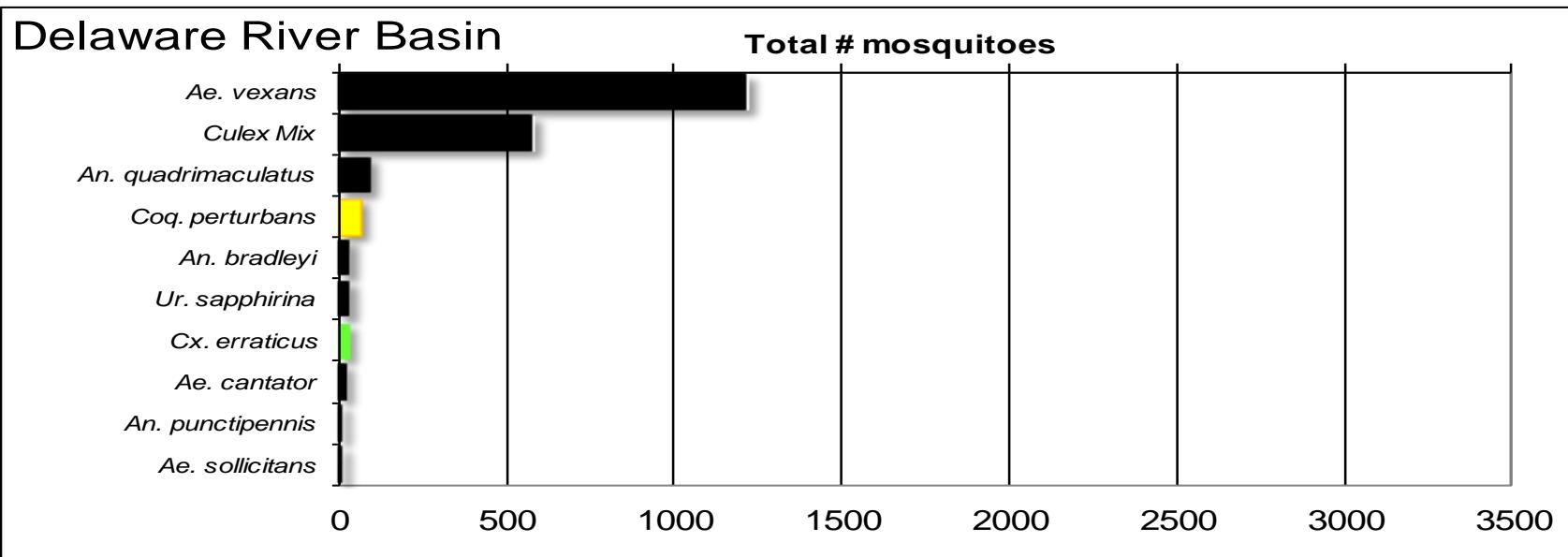
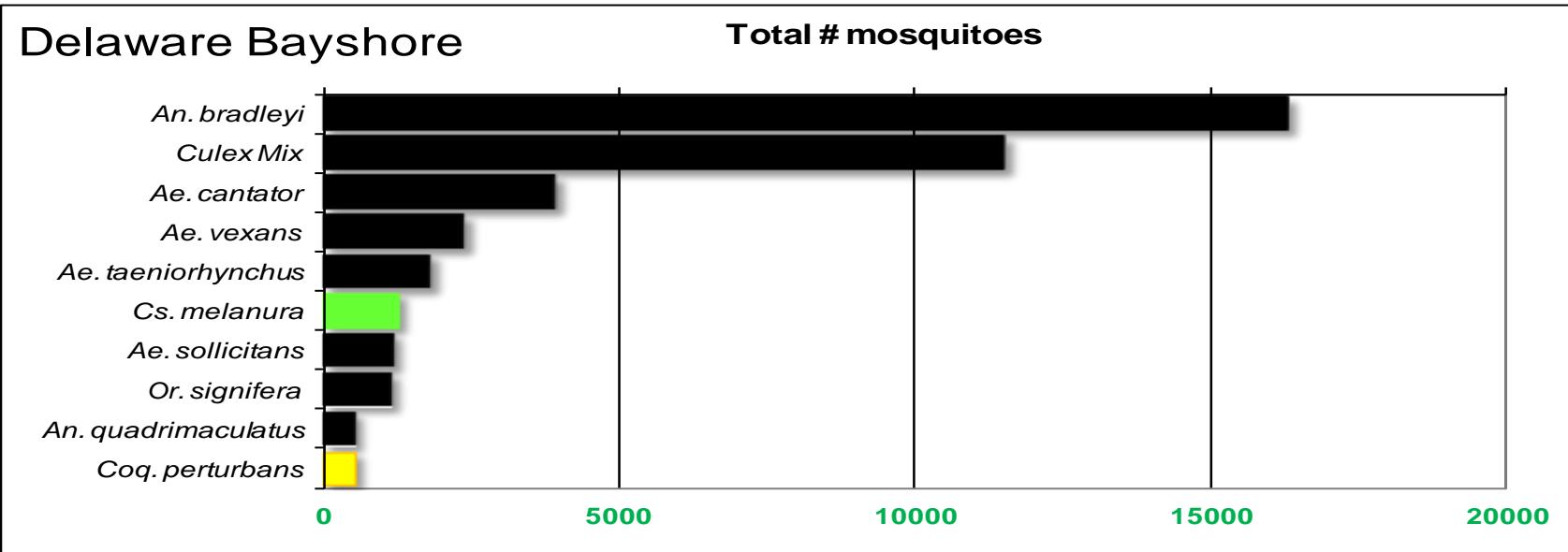
**Total # mosquitoes**



## Coastal

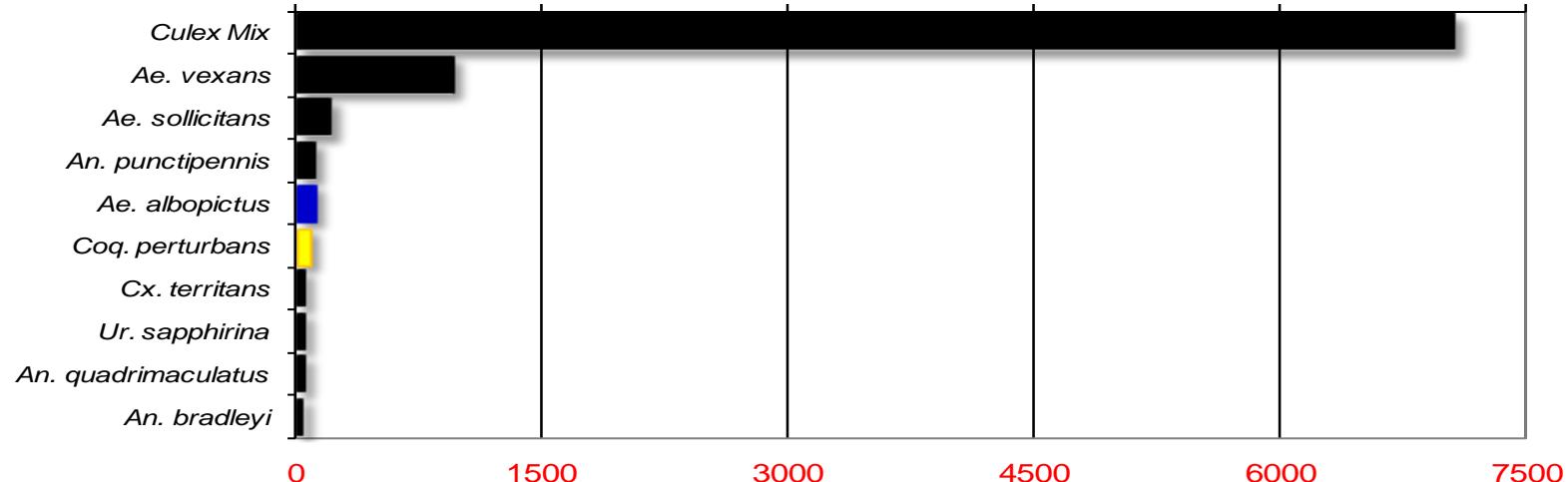
**Total # mosquitoes**





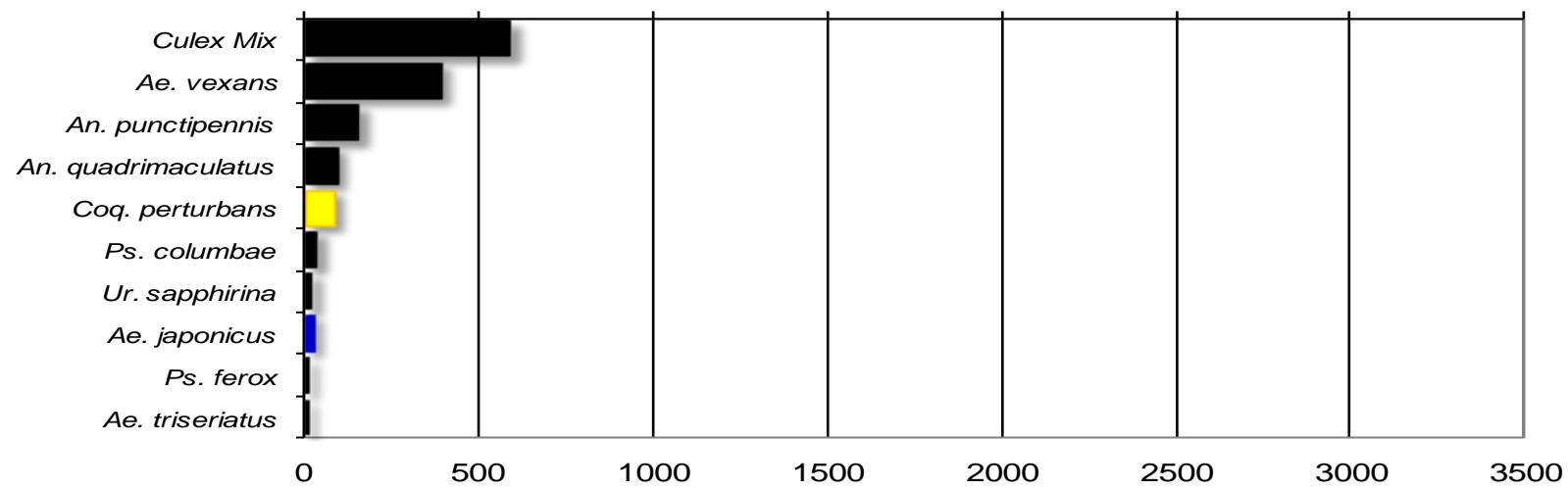
## New York Metropolitan

### Total # mosquitoes



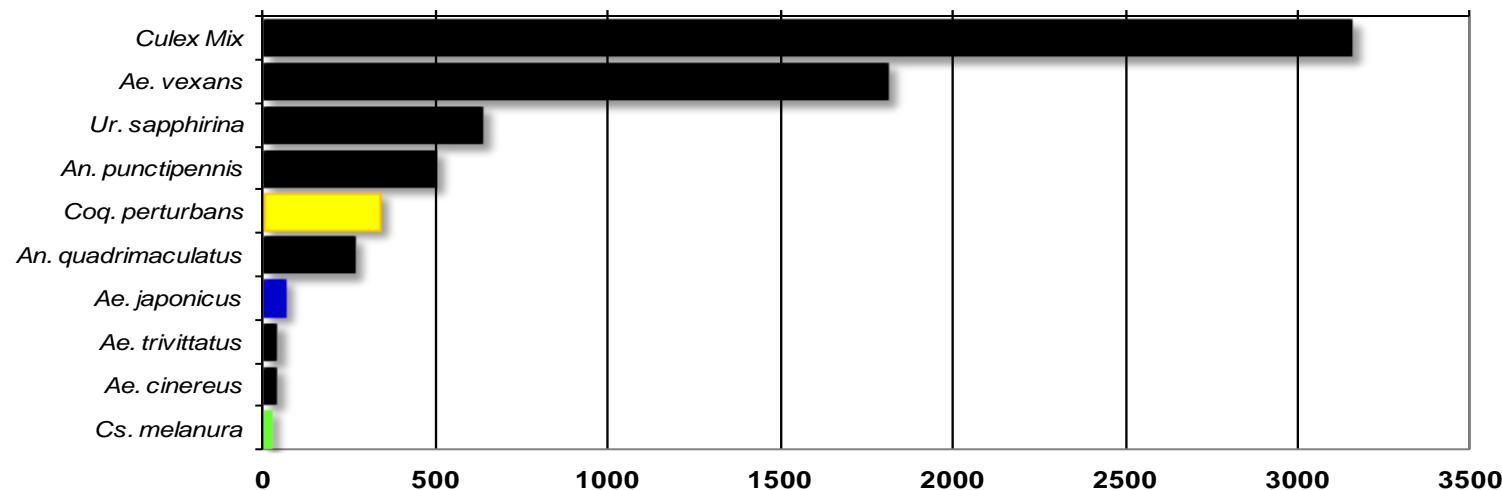
## North Central Rural

### Total # mosquitoes



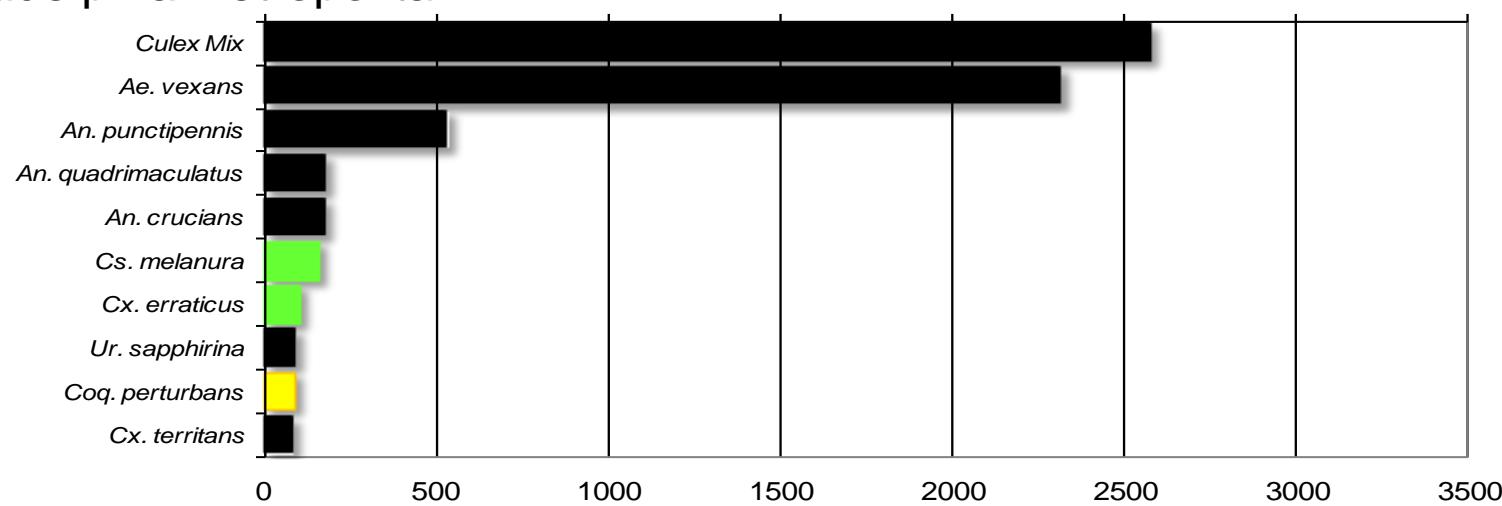
## Northwest Rural

### Total # mosquitoes



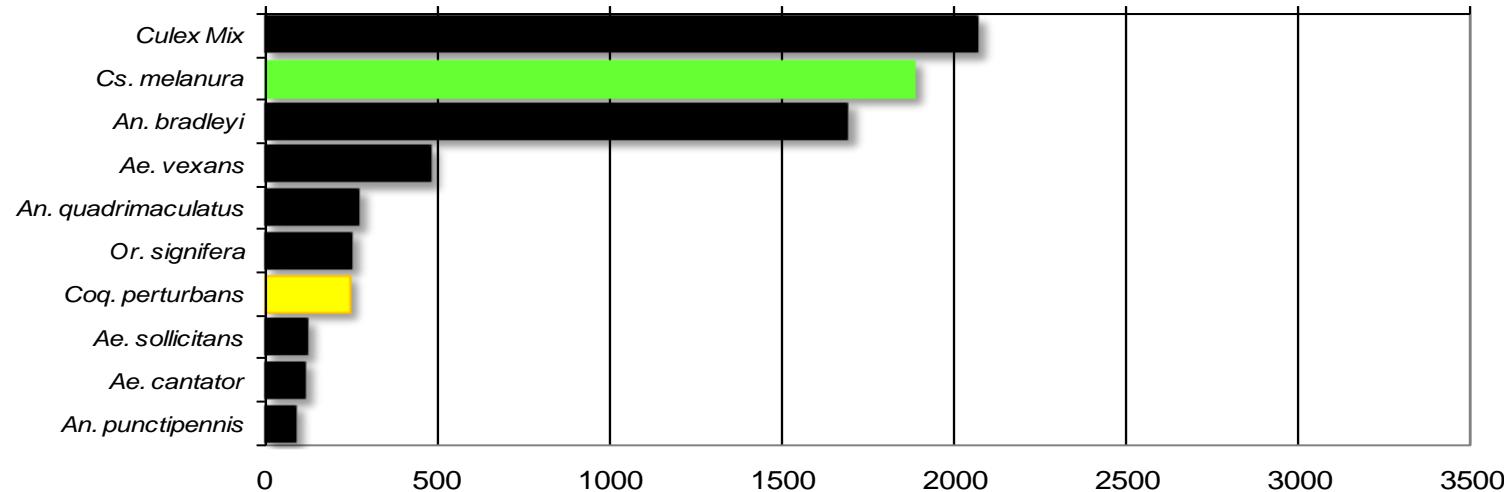
## Philadelphia Metropolitan

### Total # mosquitoes



## Pinelands

Total # mosquitoes



## Suburban Corridor

Total # mosquitoes

