

**NEW JERSEY ADULT MOSQUITO SURVEILLANCE**  
Report for 17 May to 30 May 2009, CDC Weeks 20 & 21  
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Center for Vector Biology

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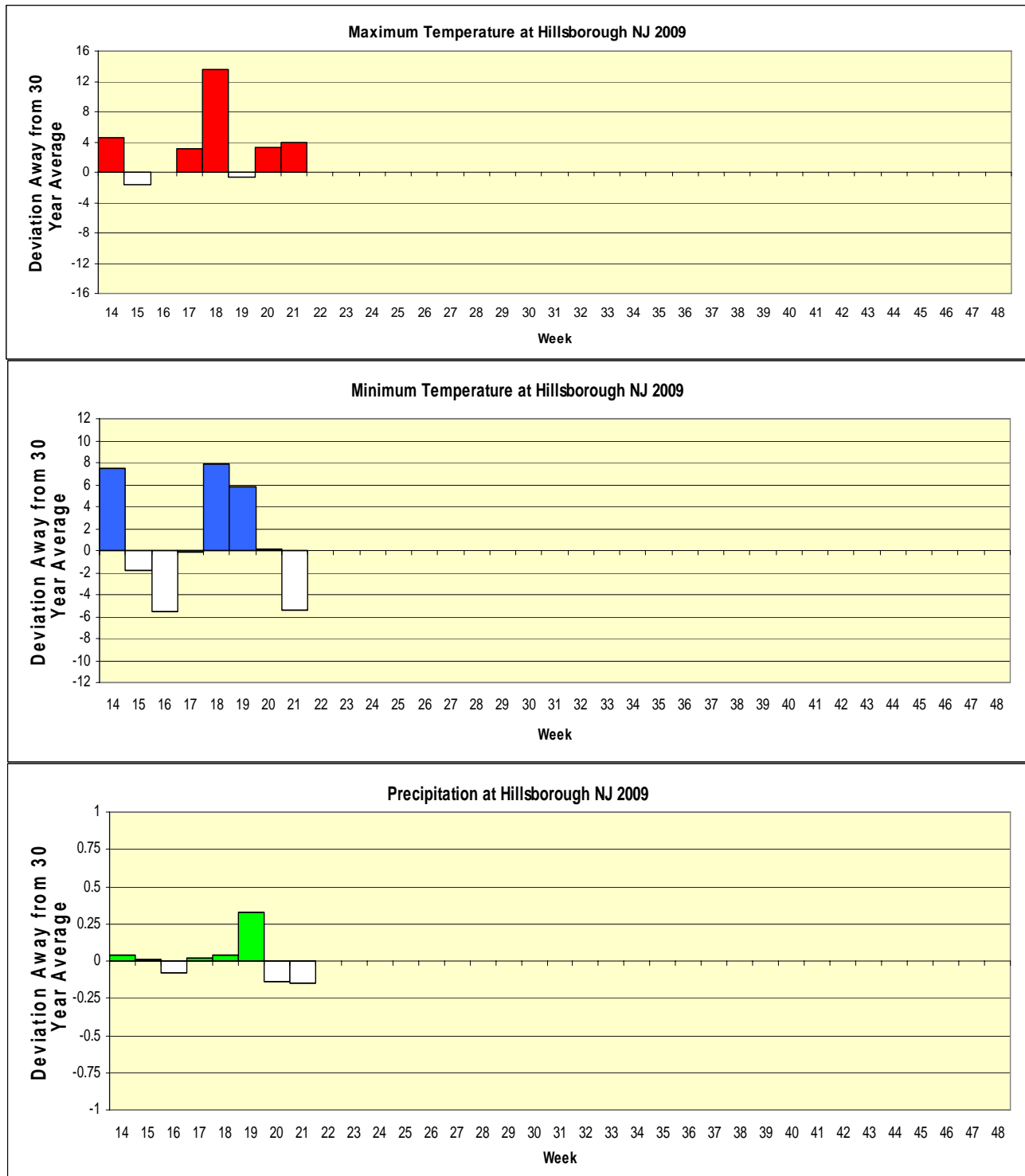
**Summary table – Week 20/21**

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	1.38	1.91	0	1.31	1.64	0	0.00	0.00	0	0.02	0.11	0
Coastal	0.62	2.61	0	1.33	1.17	1	0.00	0.00	0	1.83	0.63	4
Delaware Bayshore	13.00	1.64	4	3.33	2.45	1	0.38	0.00	0	9.57	0.62	4
Delaware River Basin	3.07	1.87	2	1.43	2.95	0	0.00	0.08	0	0.00	0.00	0
New York Metro	2.34	0.83	4	2.71	1.57	2	0.00	0.00	0	0.01	0.04	0
North Central Rural	0.16	0.01	4	0.08	0.10	0	0.00	0.00	0	0.00	0.00	0
Northwest Rural	2.60	1.90	1	1.97	1.23	2	0.06	0.06	0	0.00	0.00	0
Philadelphia Metro	3.29	3.18	1	2.36	1.82	1	0.00	0.00	0	0.00	0.00	0
Pinelands	0.38	1.76	0	1.18	1.43	0	0.00	0.01	0	0.00	0.03	0
Suburban Corridor	1.29	0.95	1	0.19	0.54	0	0.00	0.00	0	0.00	0.00	0

\*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.

**State Summary:** At the beginning of the 2009 mosquito season, three of the four pestiferous species listed above have been active, often in accordance with historical trends. In several regions, however, an increase of activity over historical trends is noted for the fresh floodwater species, *Aedes vexans* as well as for its salt floodwater counterpart, *Aedes sollicitans*. Last year was one of the drier and hotter spring and summer for New Jersey. While this year has also included some dry winter months, rainfall again returned in early spring and an increase in temperatures resulted in favorable conditions for the floodwater species.

# Climate Deviations

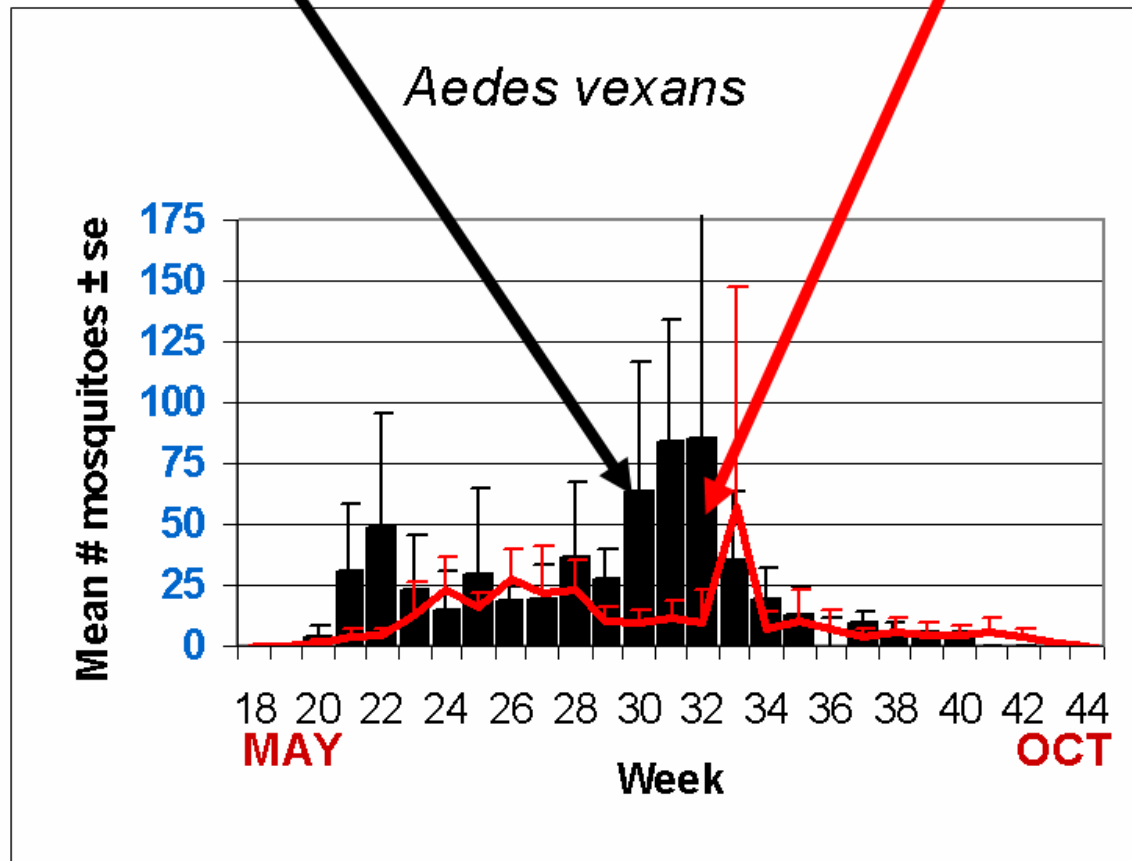


The figures show the average maximum temperature, minimum temperature and precipitation deviations from 30 year averages. Current data are from the Hillsborough NJ weather station (a station close to central NJ which recorded all three parameters and was available online at the NJ state climatologist) while historical data was from the New Brunswick weather station. Color bars above the zero line indicate warmer maximum or minimum temperatures and wetter conditions while white bars indicate cooler temperatures and dryer conditions.

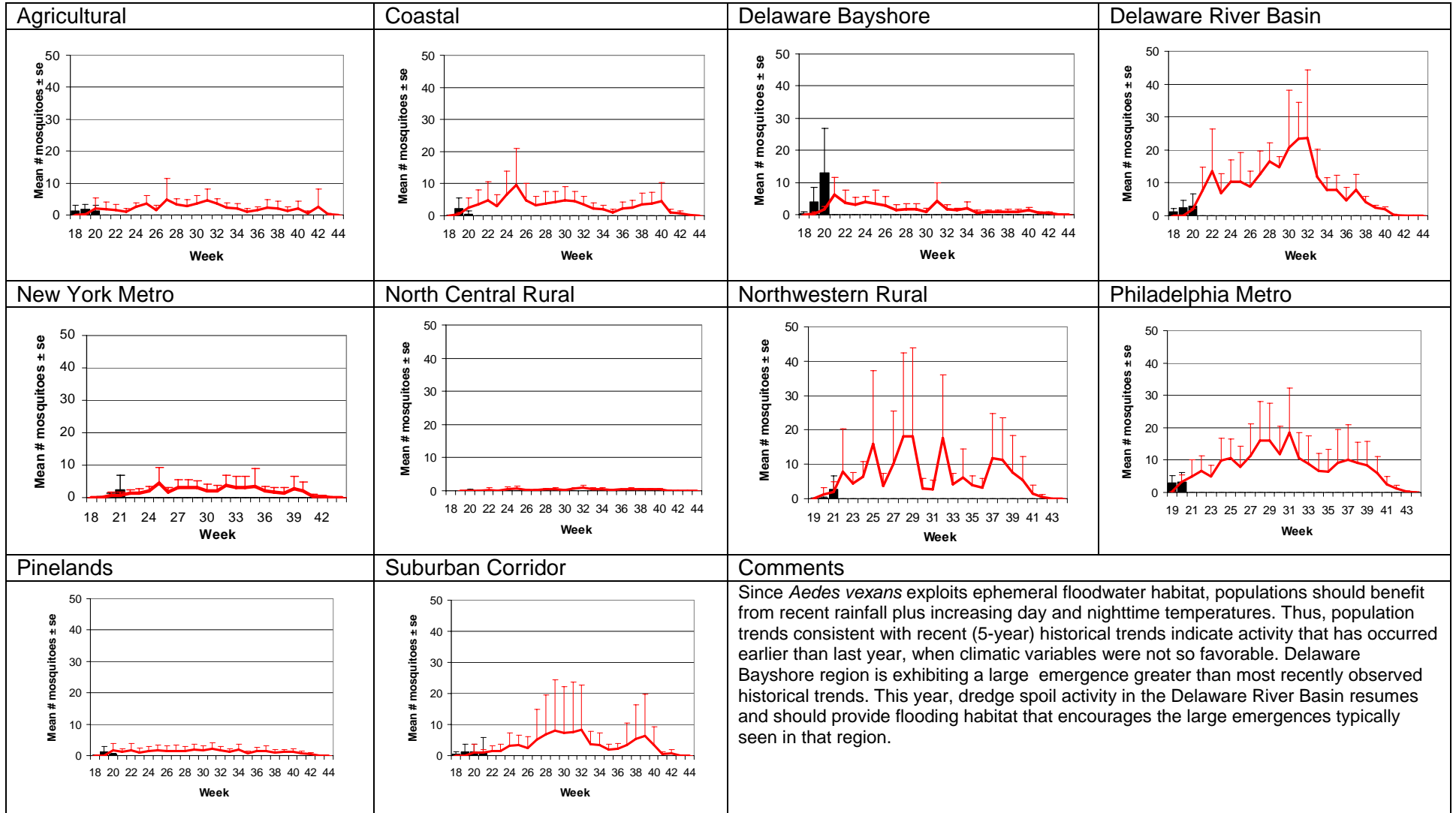
Data from: <http://climate.rutgers.edu/njwxnet/index.php>

**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 week are from Atlantic, Bergen, Burlington, Cape May, Cumberland, Hudson, Mercer, Ocean Salem, Somerset and Sussex counties. Note: County data is sent in at a variety of times during the week, and some counties suspend light trap operation in October.

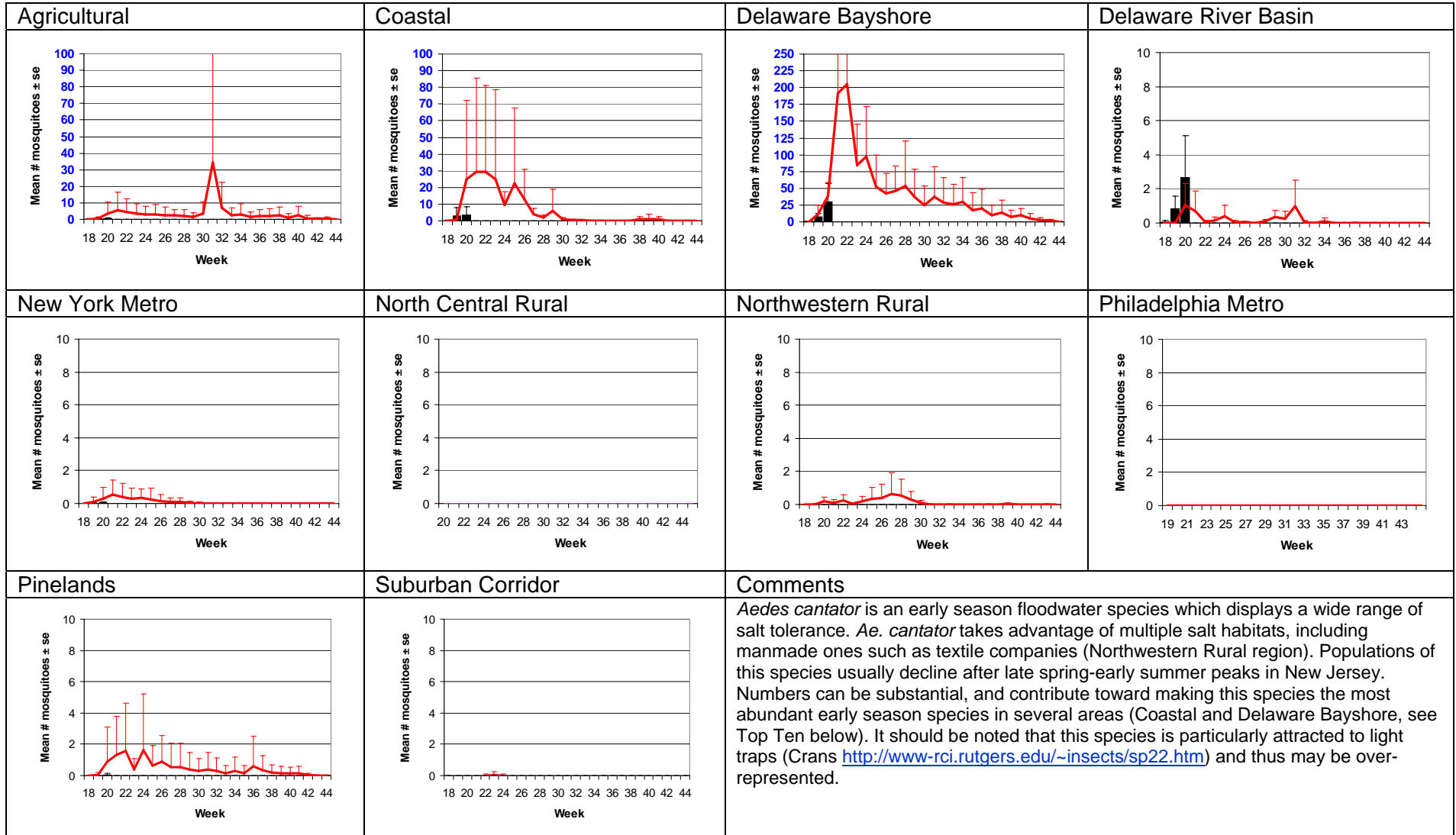
## Weekly Means Against 5-year Average



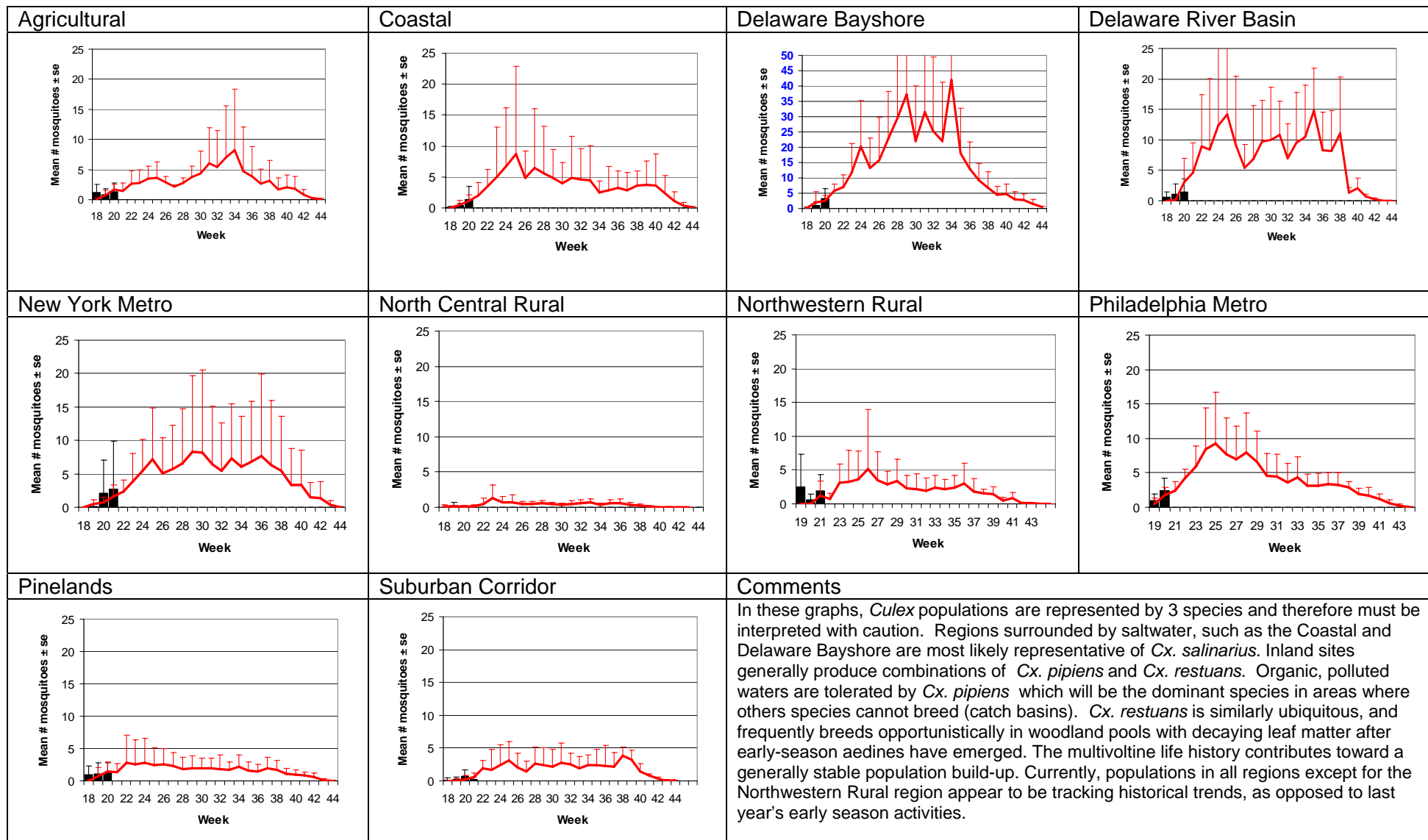
# *Aedes vexans* - Fresh Floodwater Species Multivoltine Aedine (*Ae. vexans* Type)



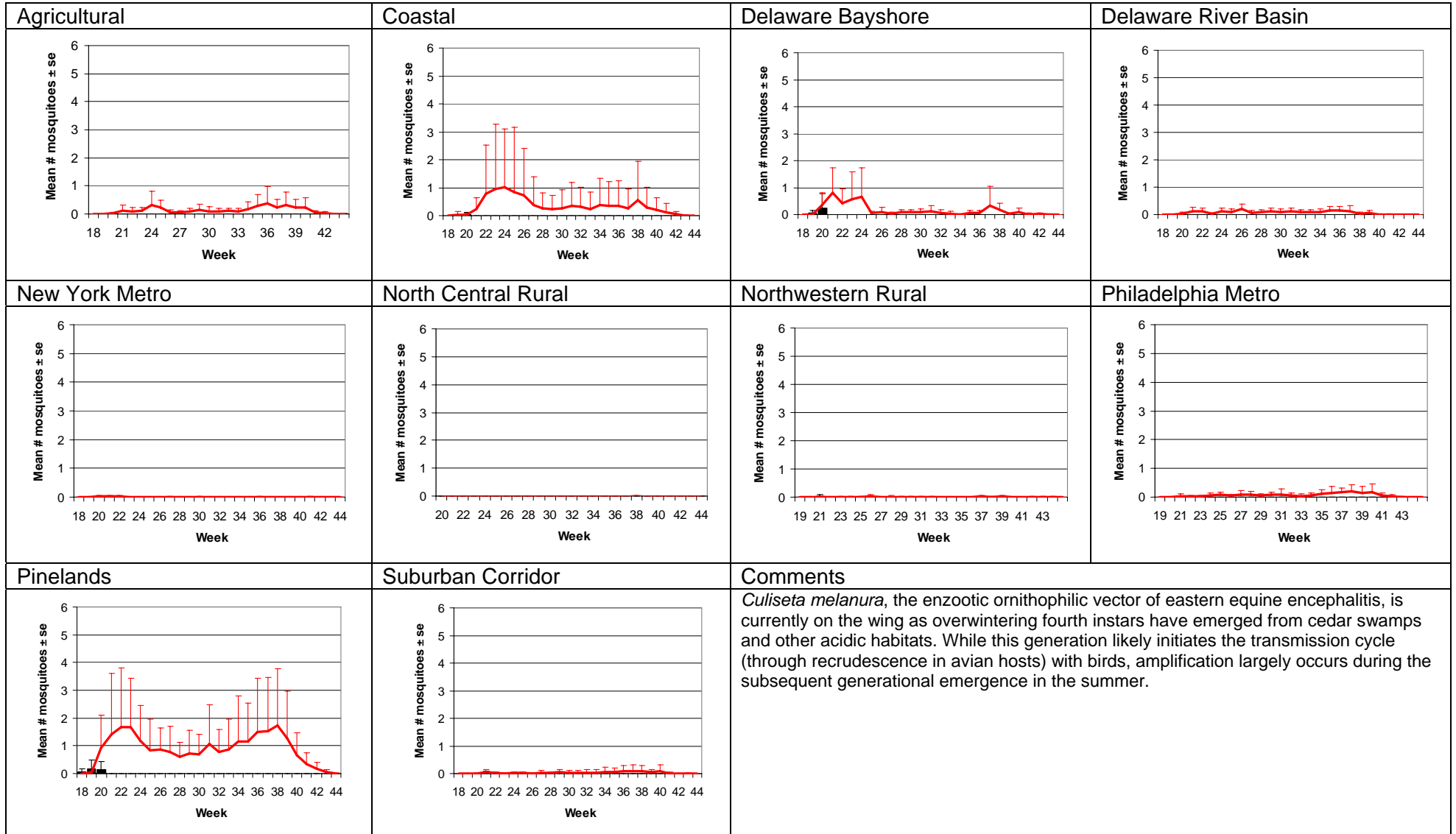
# *Aedes cantator* - Salt Floodwater Species Multivoltine Aedine (*Ae. sollicitans* Type)



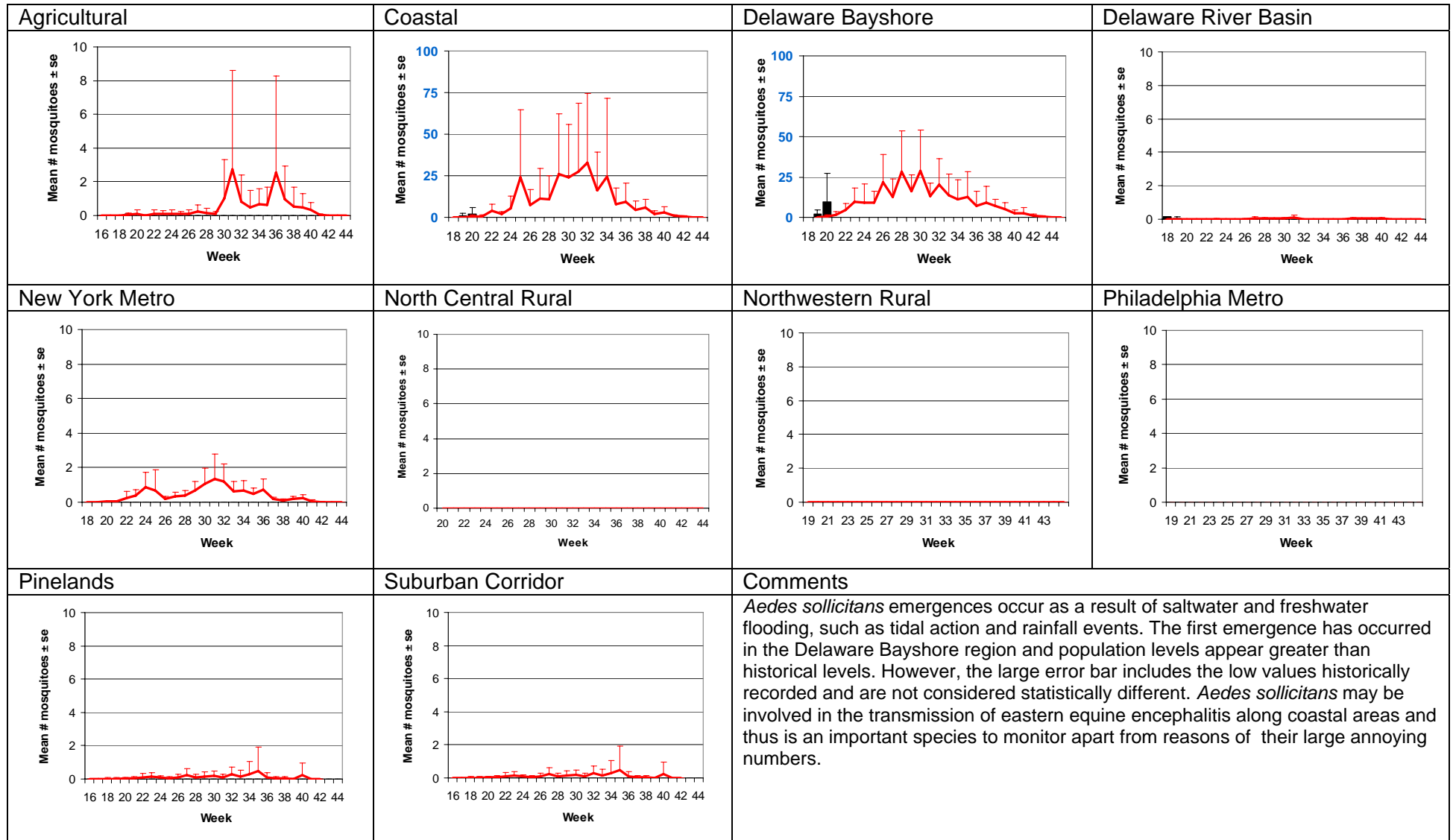
# Culex Mix – Permanent Water Species Multivoltine *Culex/Anopheles* (*Cx. pipiens* Type)



## *Culiseta melanura* – Miscellaneous Group Unique (*Cs. melanura* Type)



# Aedes sollicitans - Salt Floodwater Species Multivoltine Aedine (Ae. sollicitans Type)



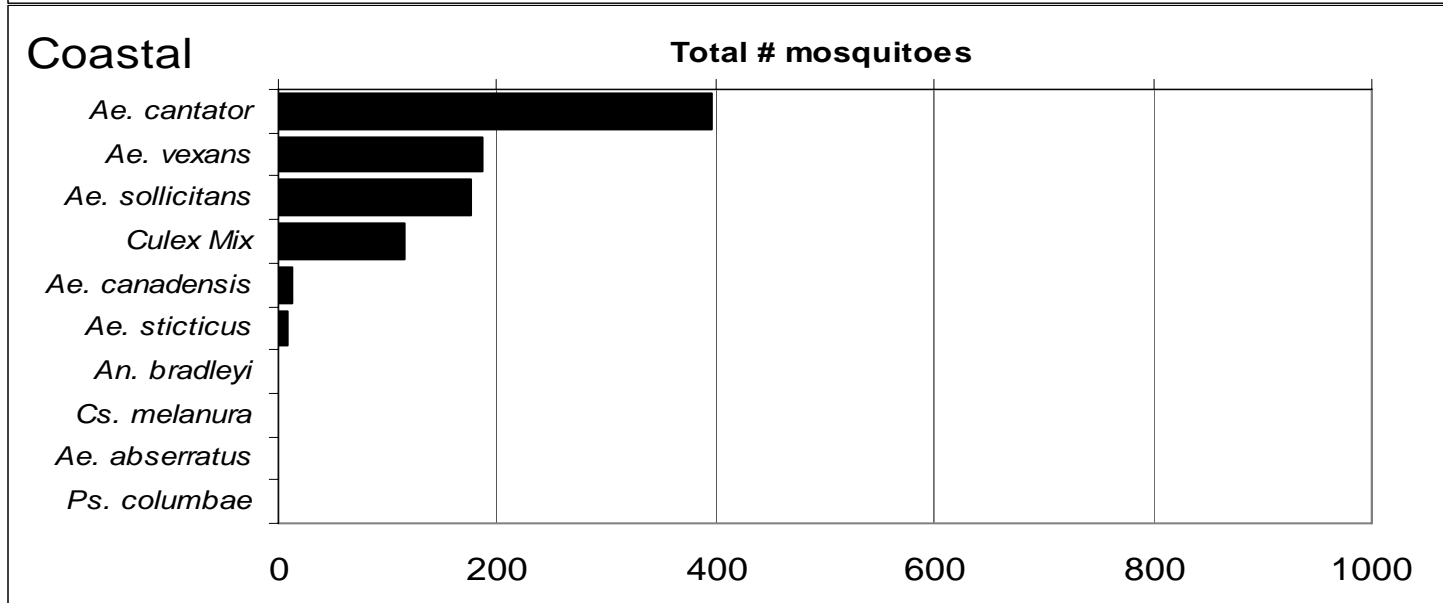
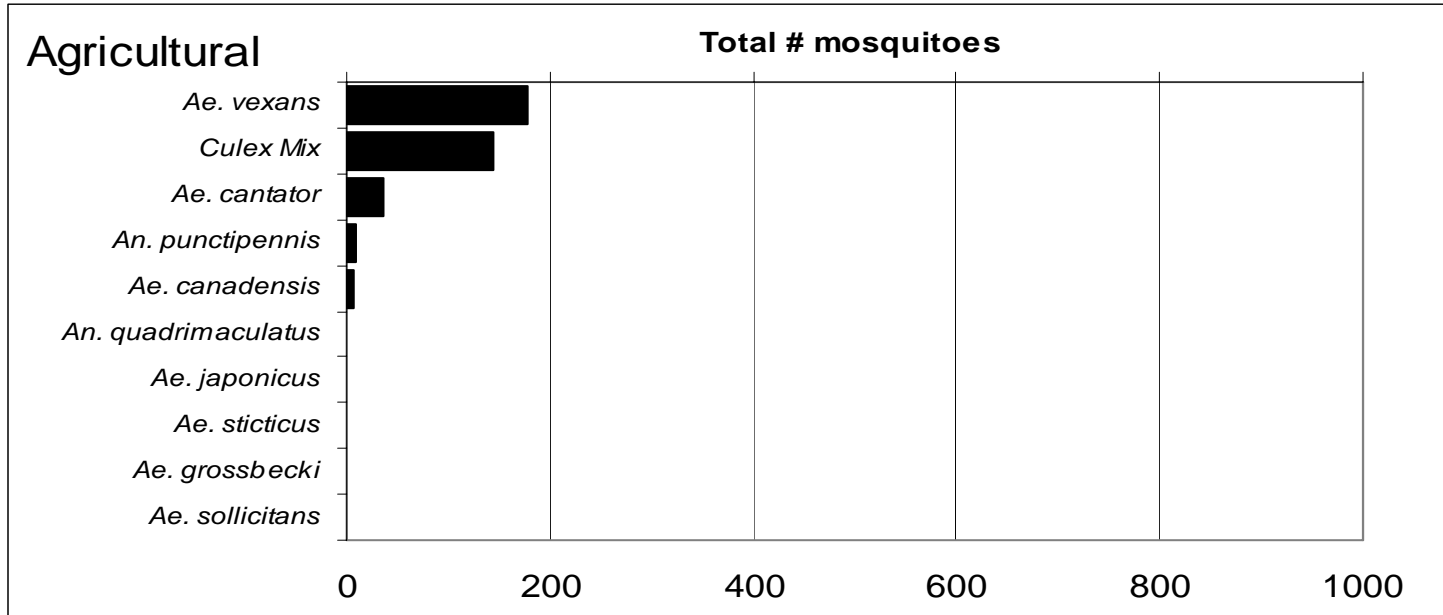


WNV

EEE

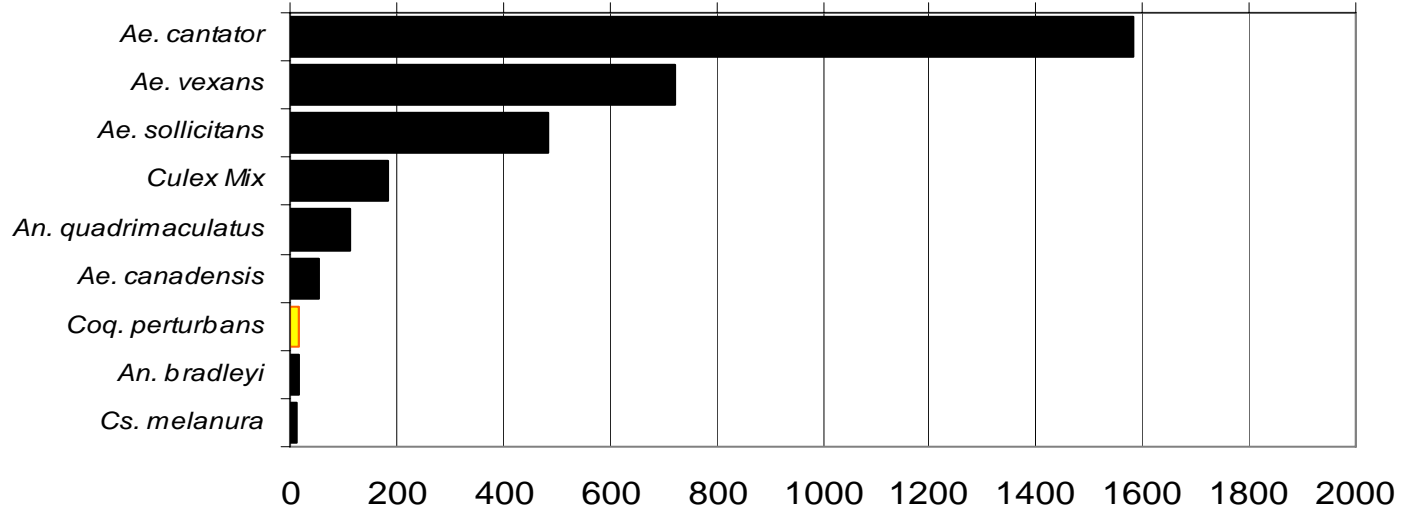
**Top Ten Mosquito Species/Region -** ■ *Ae. albopictus*, ■ *Ae. japonicus* (invasives); ■ *Cs. melanura* or *Cx. erraticus* ■ *Coq. perturbans*

Note: In early season when fewer species are caught, graphs may show less than ten species listed.



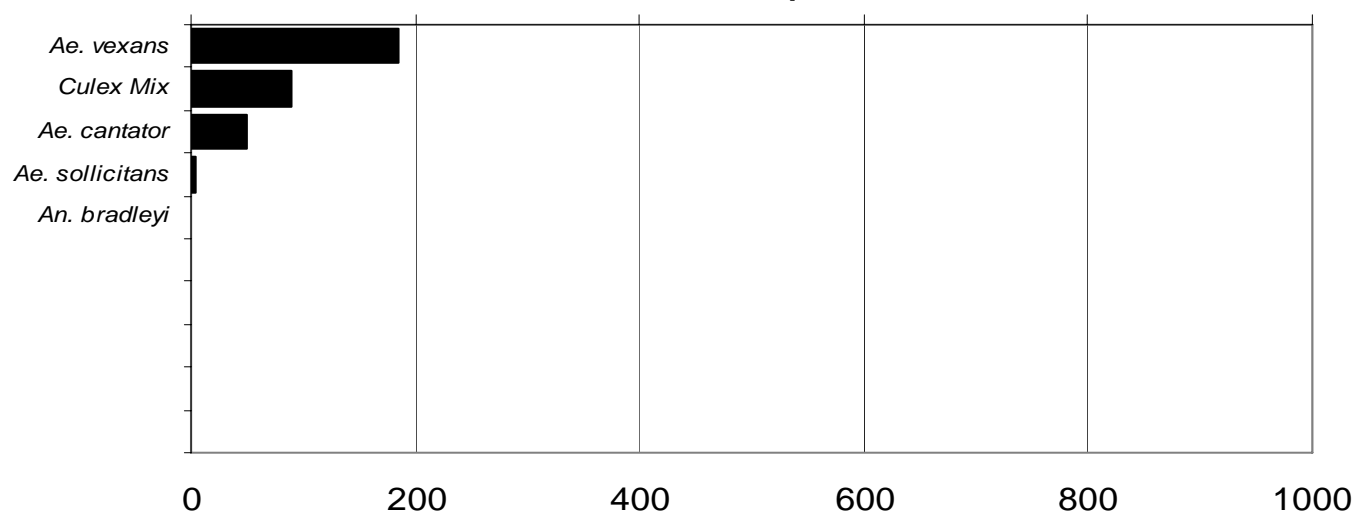
## Delaware Bayshore

### Total # mosquitoes



## Delaware River Basin

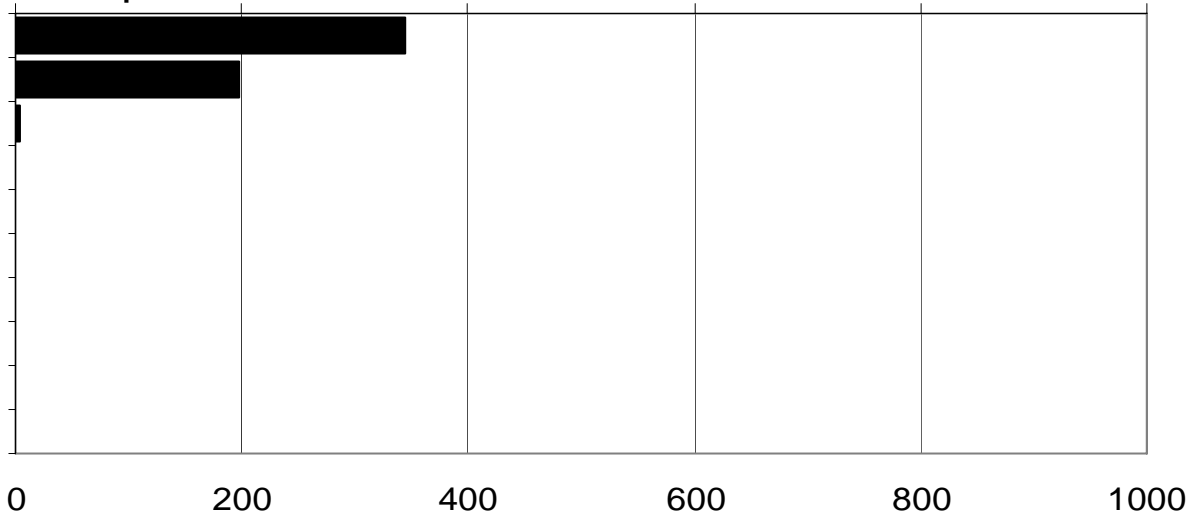
### Total # mosquitoes



## New York Metropolitan

Total # mosquitoes

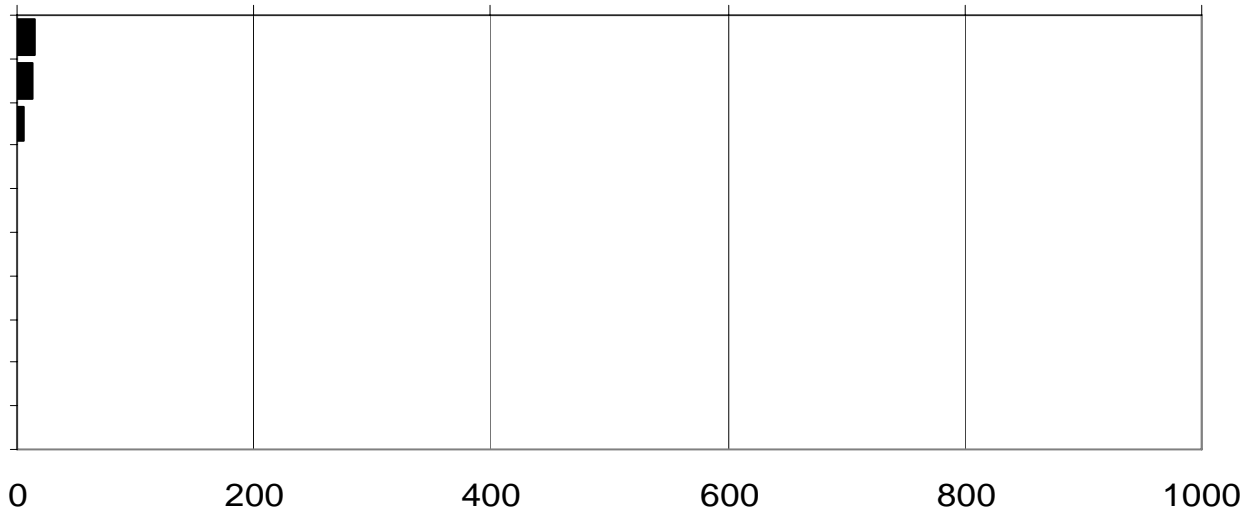
*Culex Mix*  
*Ae. vexans*  
*Ae. cantator*  
*Ae. cinereus*  
*Cx. territans*  
*Ae. sollicitans*



## North Central Rural

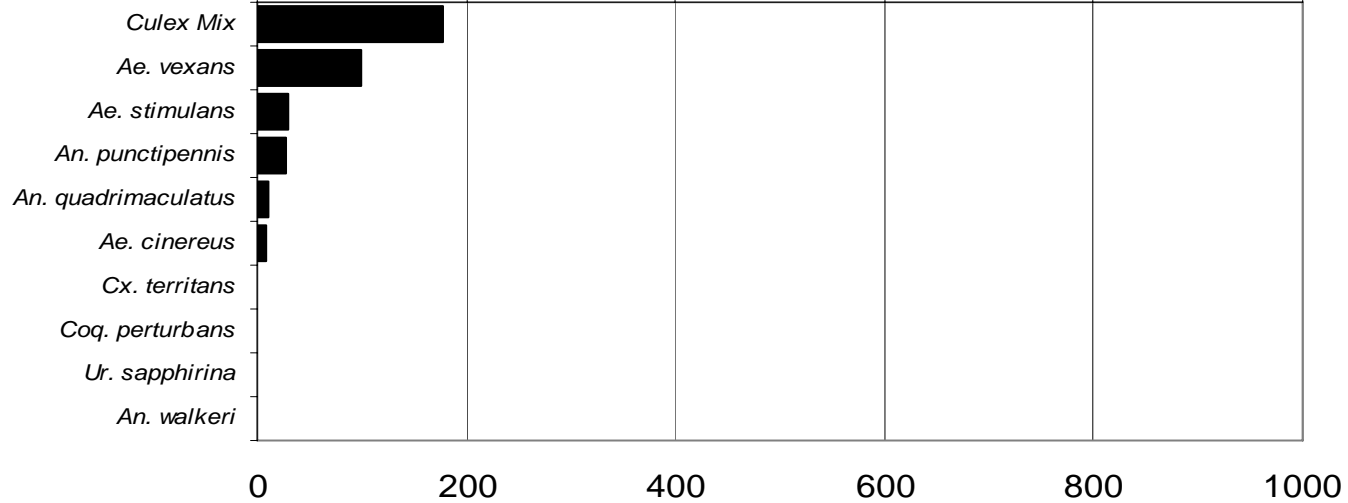
Total # mosquitoes

*Culex Mix*  
*Ae. vexans*  
*Ae. stimulans*



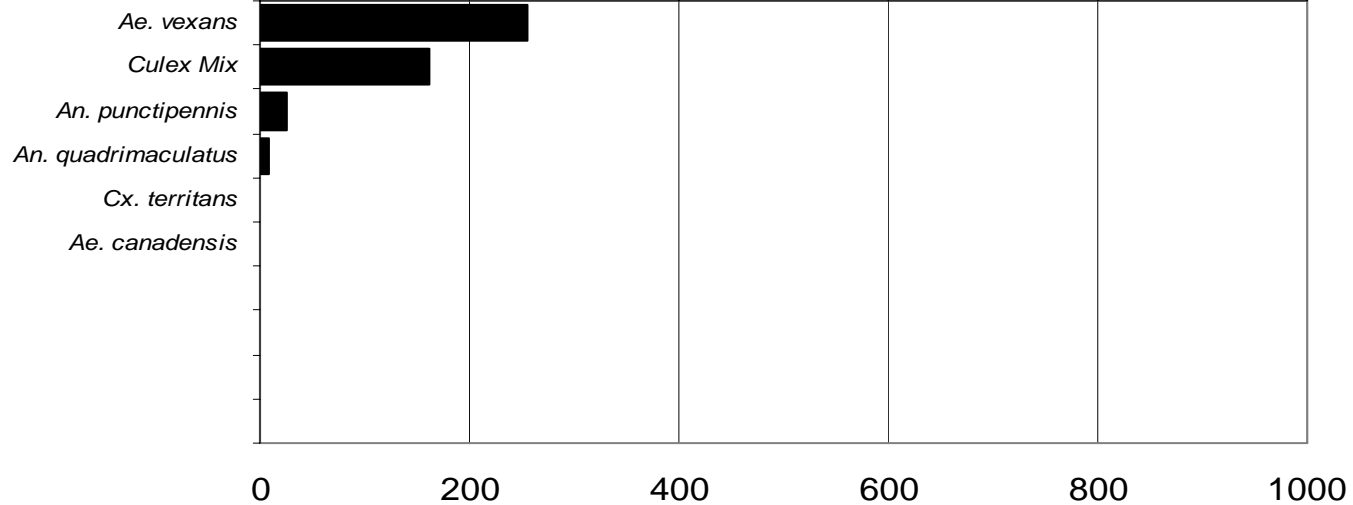
## Northwest Rural

Total # mosquitoes



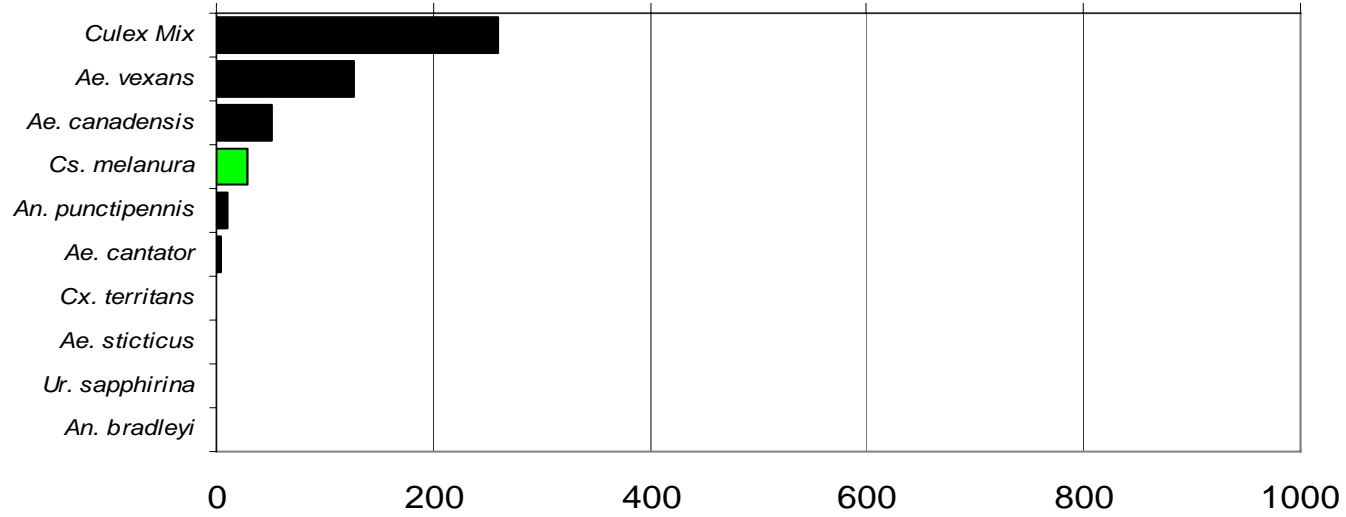
## Philadelphia Metropolitan

Total # mosquitoes



## Pinelands

Total # mosquitoes



## Suburban Corridor

Total # mosquitoes

