

# NEW JERSEY ADULT MOSQUITO SURVEILLANCE Report for 29 June to 05 July 2008, CDC Week 27

Prepared by Lisa M. Reed, Scott Crans and Dina Fonseca  
Center for Vector Biology

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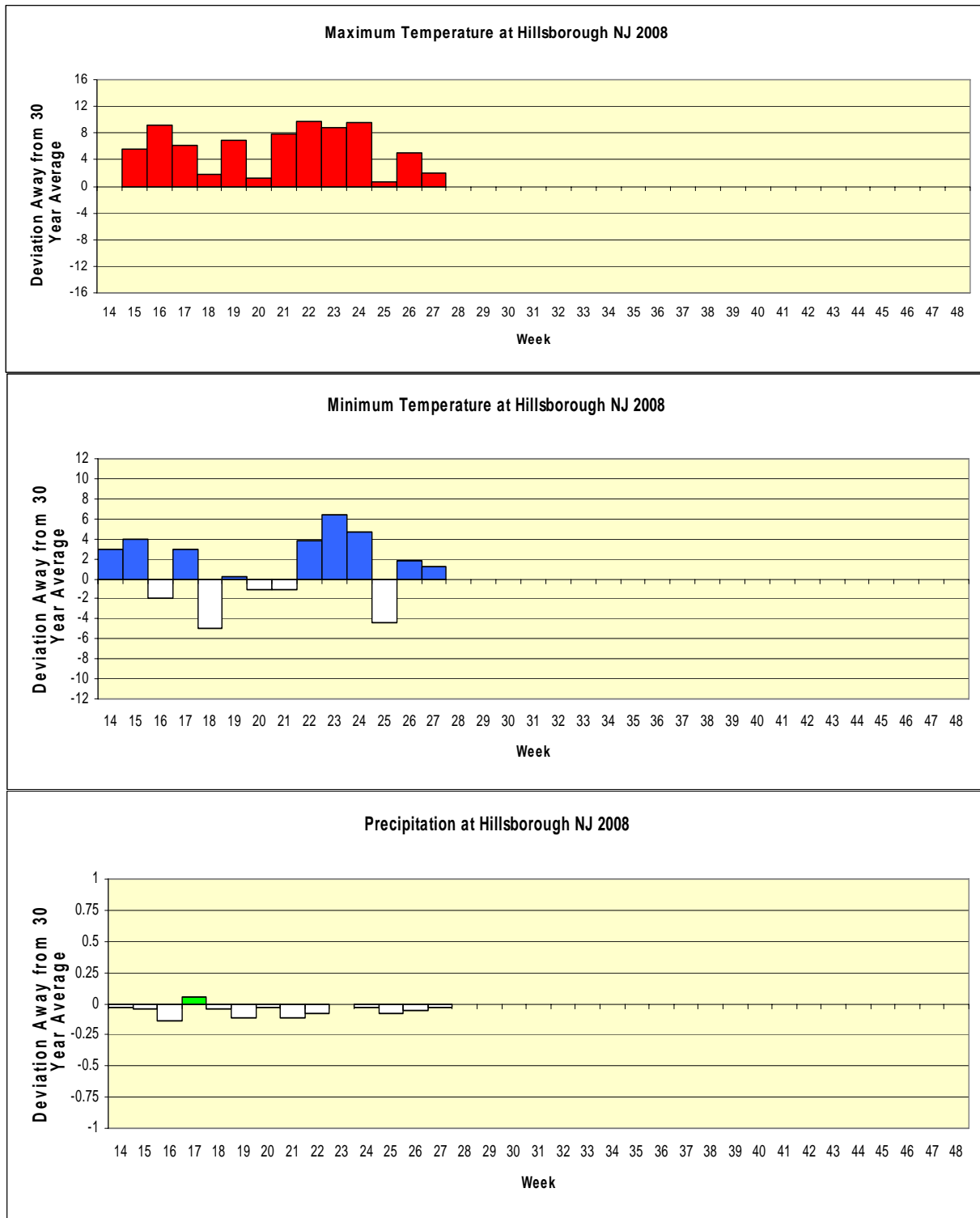
## Summary table – Week 27

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	0.11	6.88	0	0.81	4.90	0	0.37	0.67	0	0.03	0.67	0
Coastal	1.60	7.38	0	0.89	11.30	0	0.00	1.82	0	0.89	14.53	0
Delaware Bayshore	0.05	4.90	0	1.33	53.35	0	0.00	4.46	0	0.14	15.49	0
Delaware River Basin	0.00	26.69	0	0.00	9.76	0	0.00	0.34	0	0.00	0.30	0
New York Metro	0.81	4.50	0	1.73	11.59	0	0.03	0.22	0	0.11	0.77	0
North Central Rural	0.00	0.90	0	0.06	1.53	0	0.00	0.00	0	0.00	0.00	0
Northwest Rural	3.77	23.28	0	0.83	4.66	0	0.03	0.00	0	0.00	0.00	0
Philadelphia Metro	3.76	19.00	0	6.90	12.14	0	2.63	0.11	4	0.00	0.00	0
Pinelands	0.94	3.15	0	2.92	6.21	0	0.90	0.77	1	0.03	0.21	0
Suburban Corridor	0.51	12.01	0	1.12	3.94	0	0.13	0.03	4	0.00	0.01	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 denote increases from an historic zero and thus no value can be appropriately given.

State Summary: The presence of *Coquillettidia perturbans* continues to be felt along the Suburban Corridor, Pinelands and the Philadelphia Metro regions.

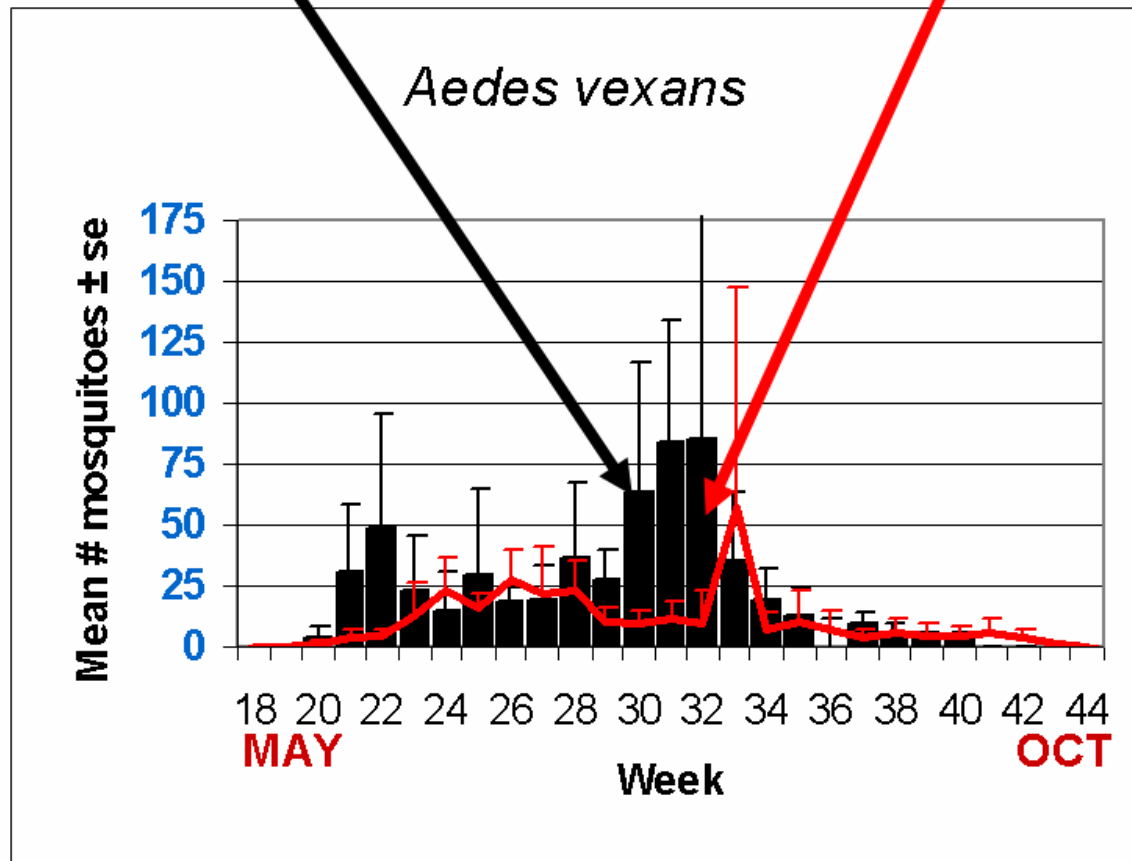
# Climate Deviations



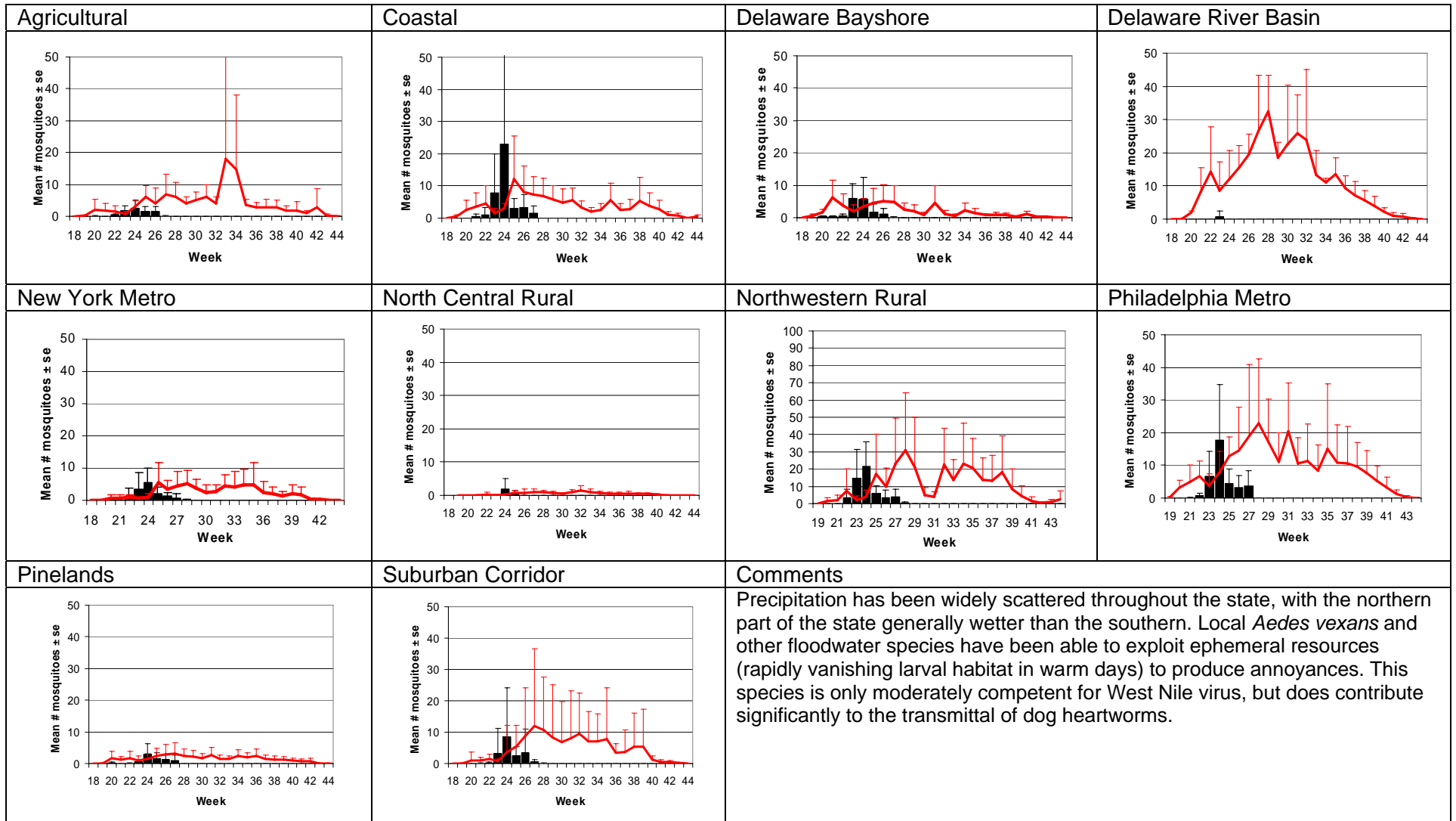
The figures show the average maximum temperature, minimum temperature and precipitation deviations from 30 year averages. Current data is from the Hillsborough NJ weather station (a station close to central NJ which recorded all three parameters and was available online at the NJ state climatologist) 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.

**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, Camden, Cumberland, Essex, Mercer, Monmouth, Ocean, Union and Warren counties. Note: County data is sent in at a variety of times during the week.

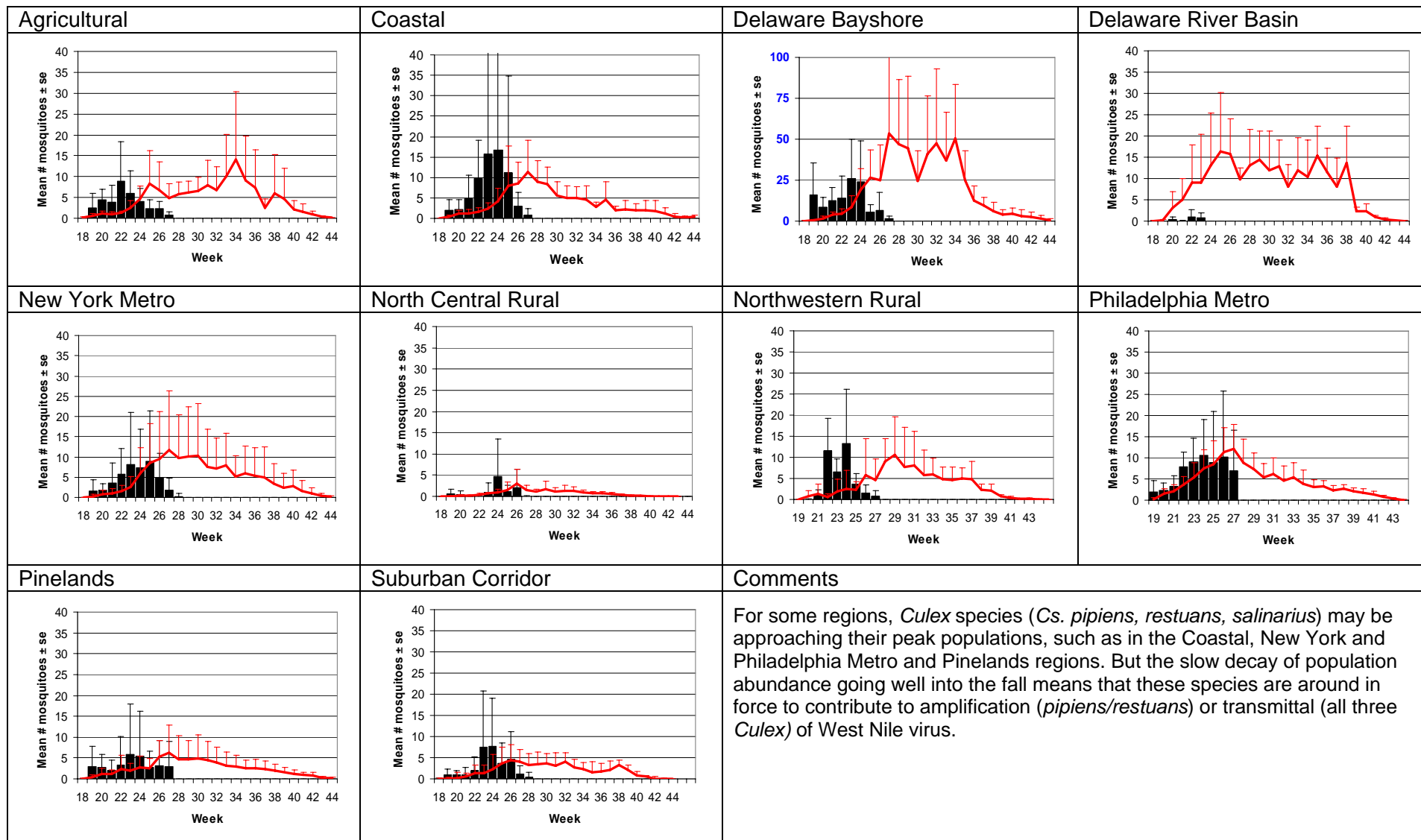
## Weekly Means Against 5-year Average



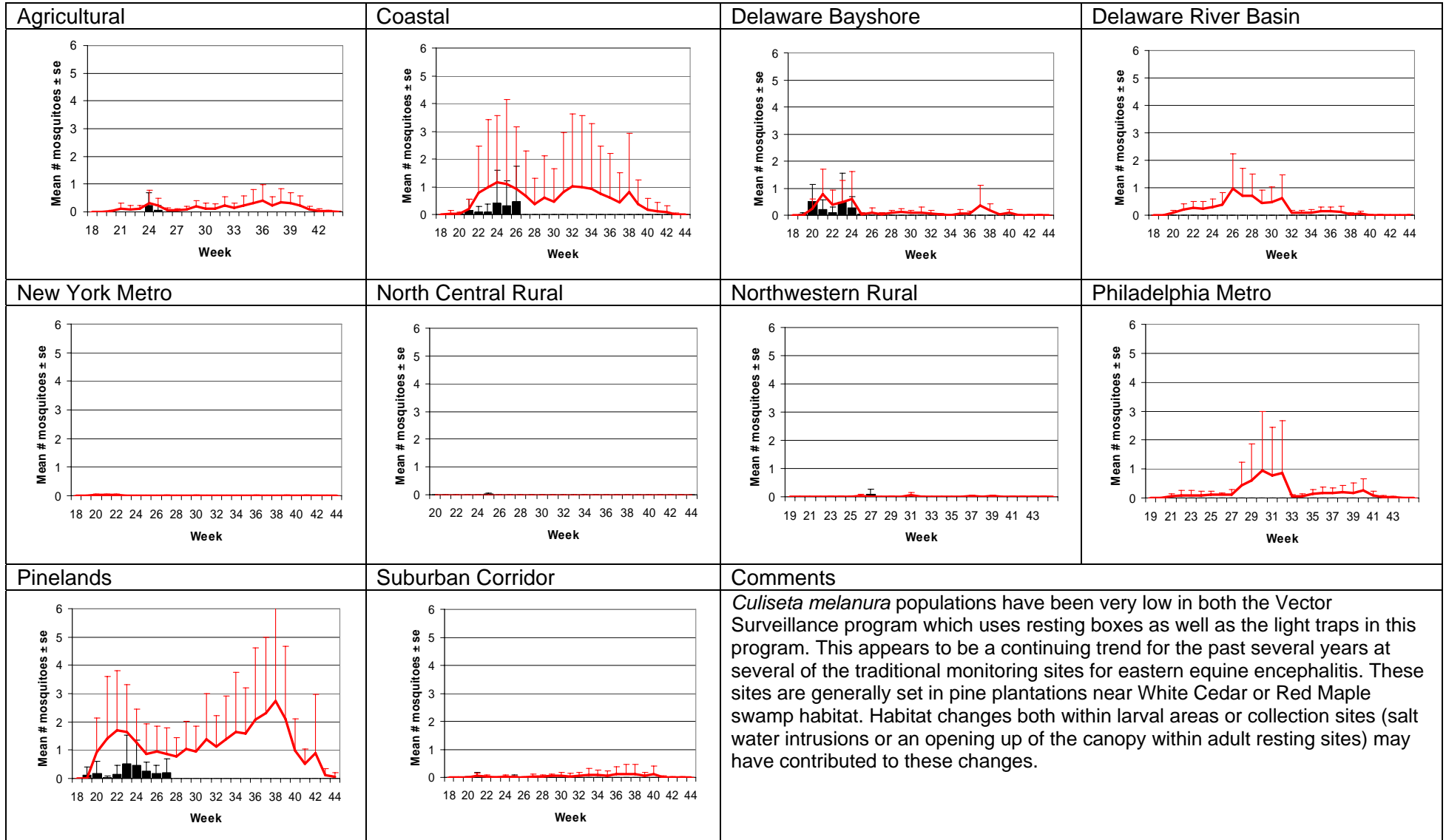
# Aedes vexans - Fresh Floodwater Species Multivoltine Aedine (Ae. vexans Type)



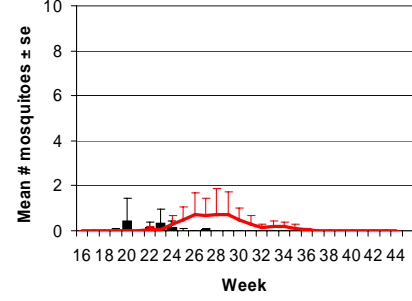
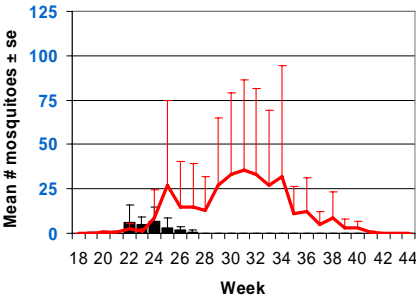
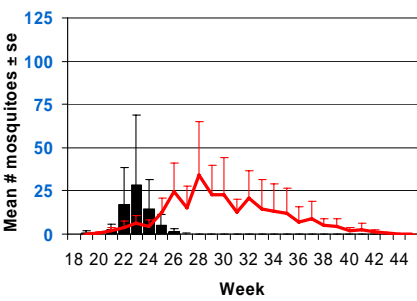
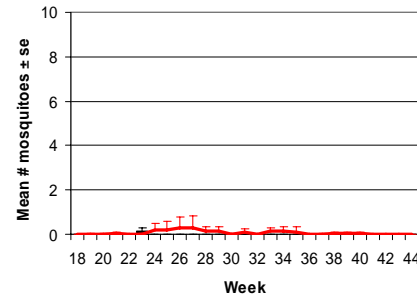
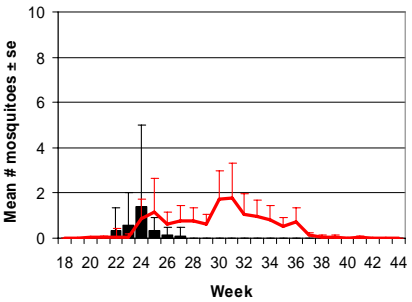
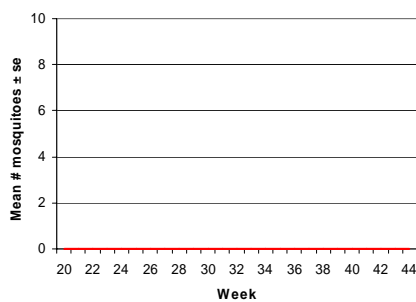
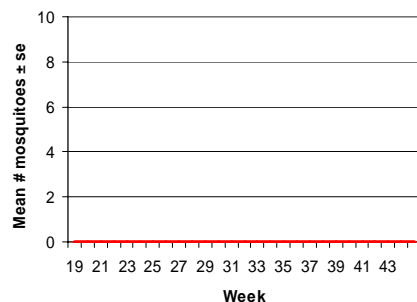
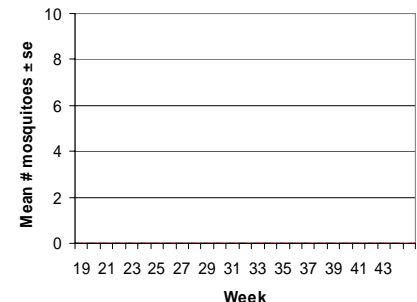
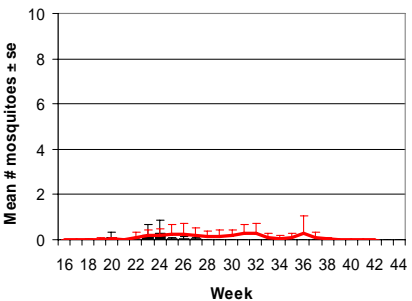
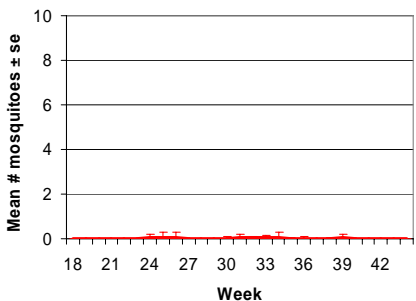
# Culex Mix – Permanent Water Species Multivoltine *Culex/Anopheles* (*Cx. pipiens* Type)



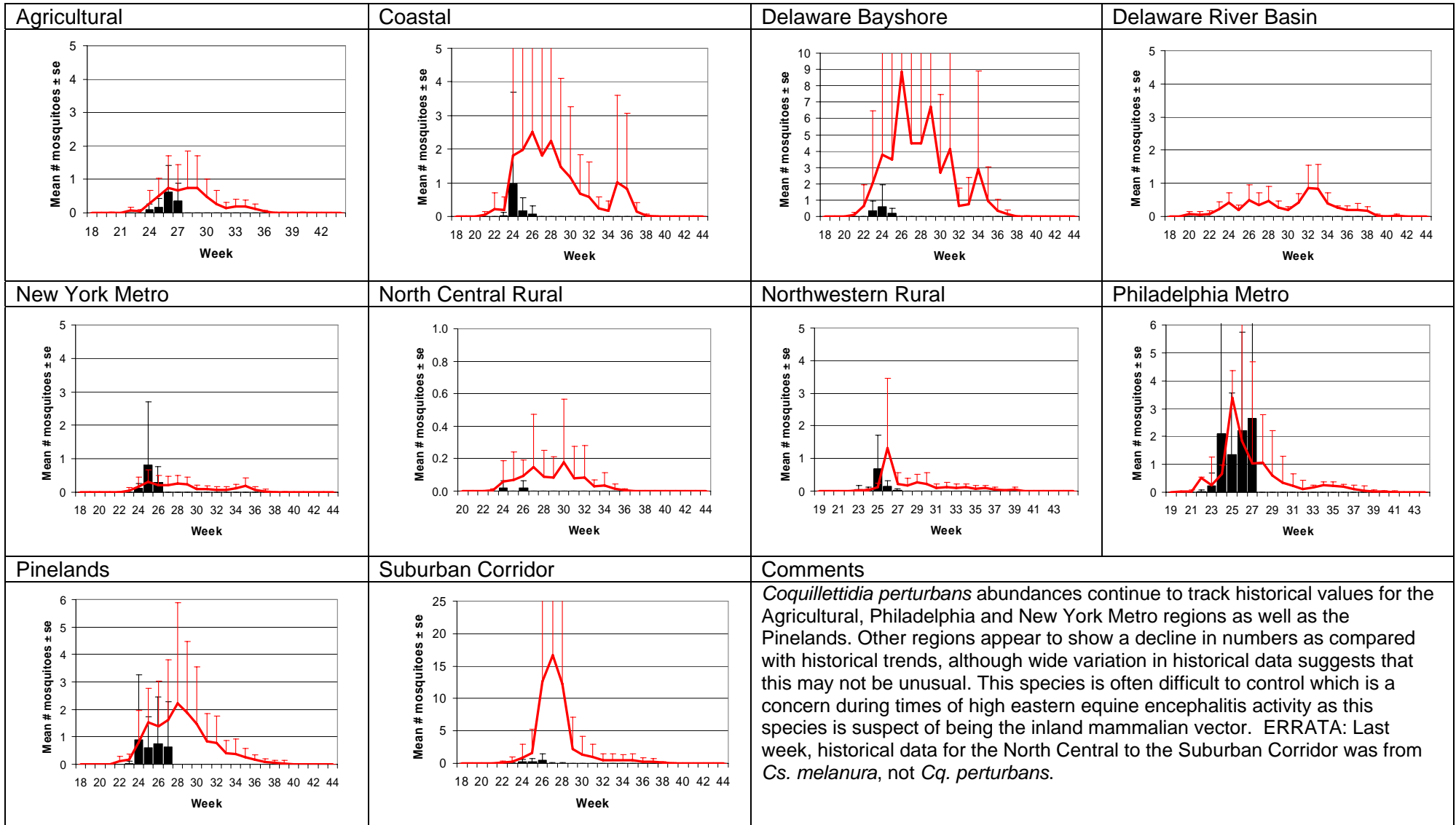
## *Culiseta melanura* – Miscellaneous Group Unique (*Cs. melanura* Type)



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

Agricultural	Coastal	Delaware Bayshore	Delaware River Basin
			
New York Metro	North Central Rural	Northwestern Rural	Philadelphia Metro
			
Pinelands	Suburban Corridor	Comments	
		<p><i>Aedes sollicitans</i> population data suggests that the second brood of the season has not yet emerged. The recent holiday, however, tends to delay transmittal of data from key counties, and it is very likely that the emergence of the second brood will be evident next week. If the size of the first brood is any indication to the size of the largest brood, then this upcoming emergence should be the largest for the Delaware Bayshore Region.</p>	

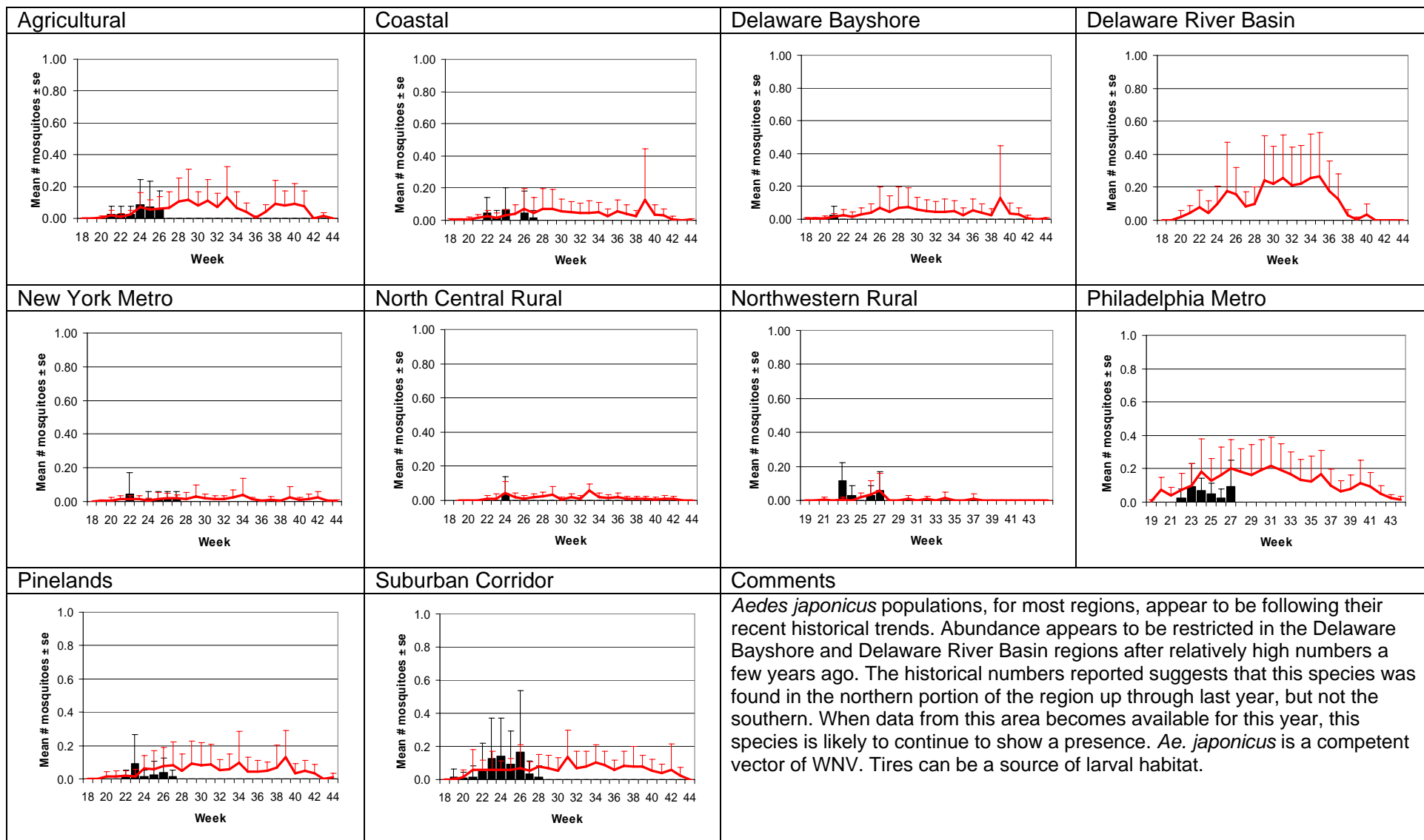
## Coquillettidia perturbans- Monotypic Species (Cq. perturbans Type)



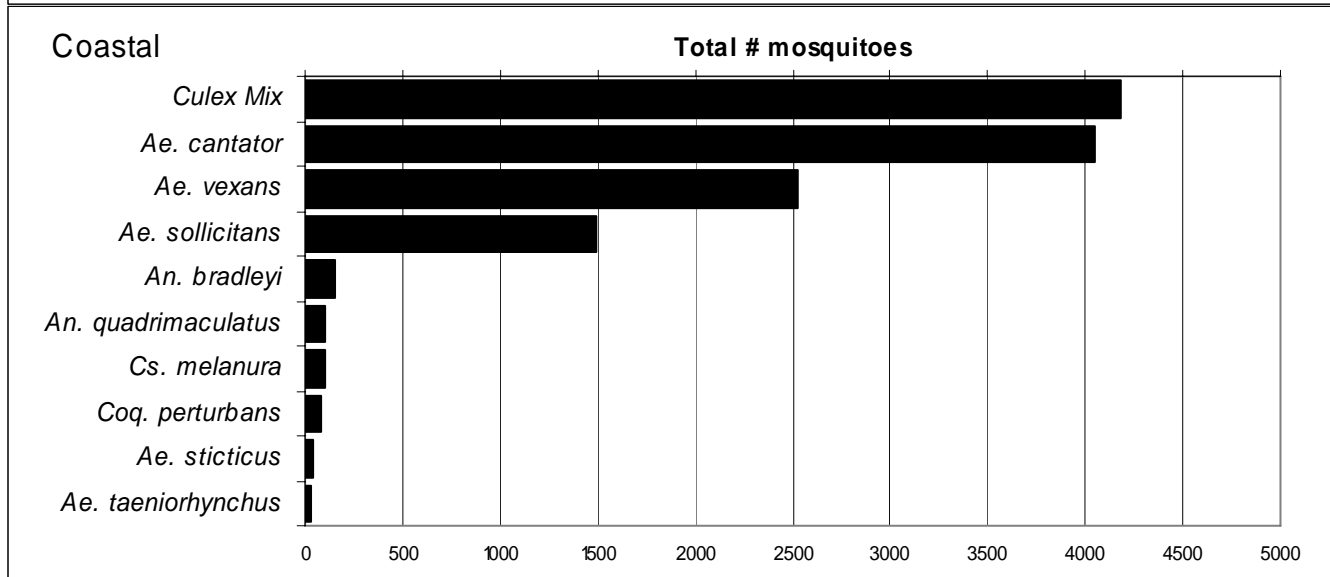
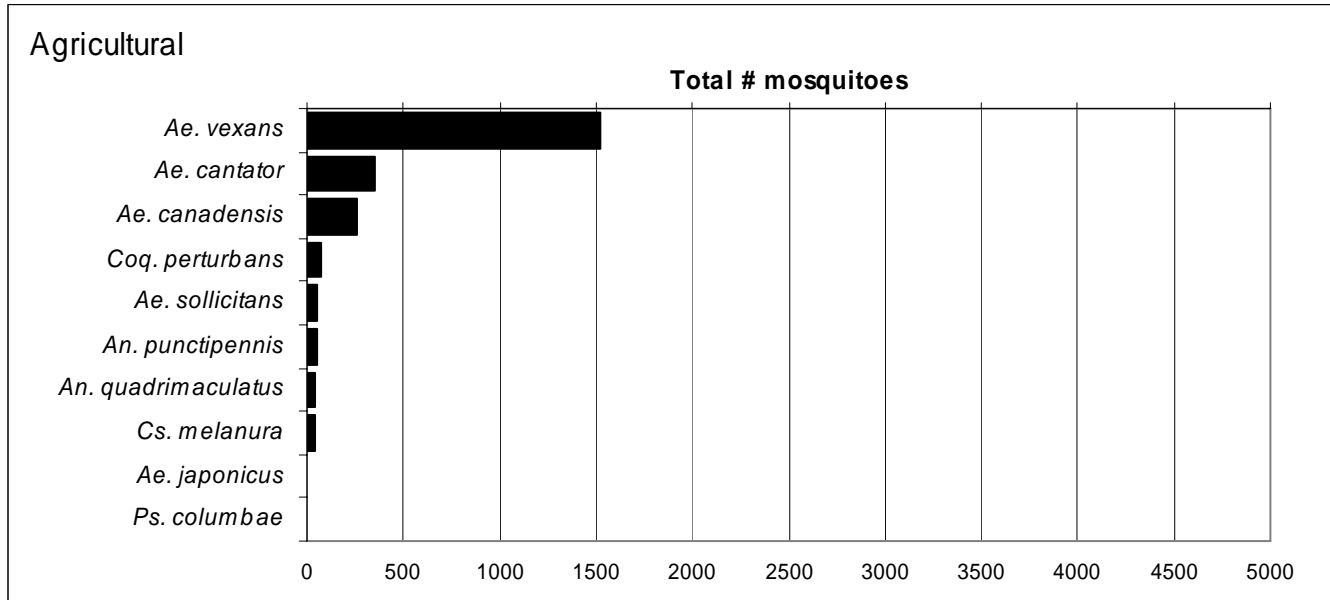


# *Aedes japonicus* - Container Species

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

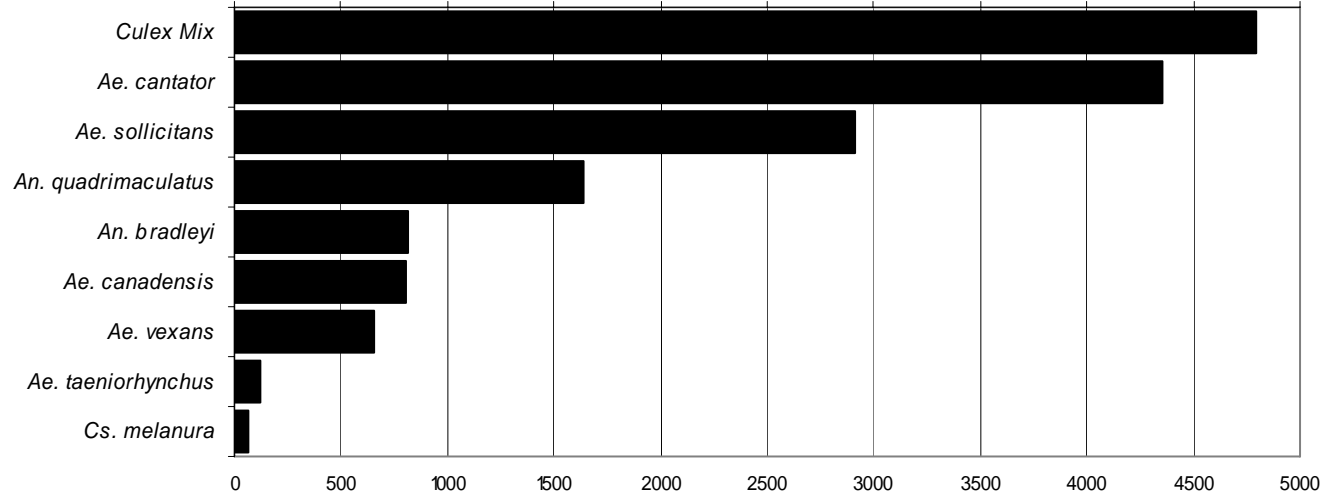


## Top Ten Mosquito Species/Region



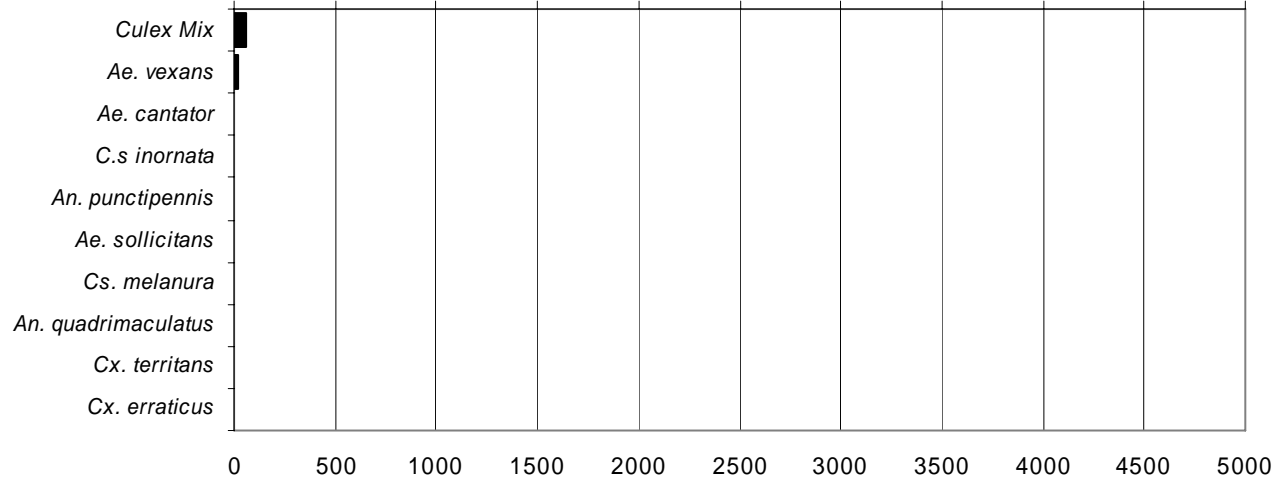
### Delaware Bayshore

#### Total # mosquitoes



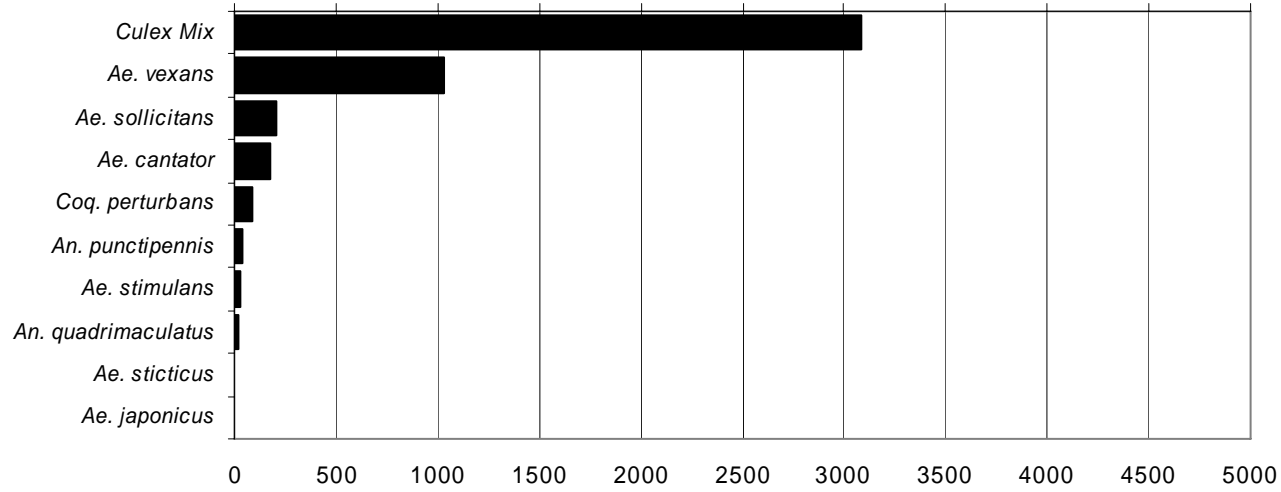
### Delaware River Basin

#### Total # mosquitoes



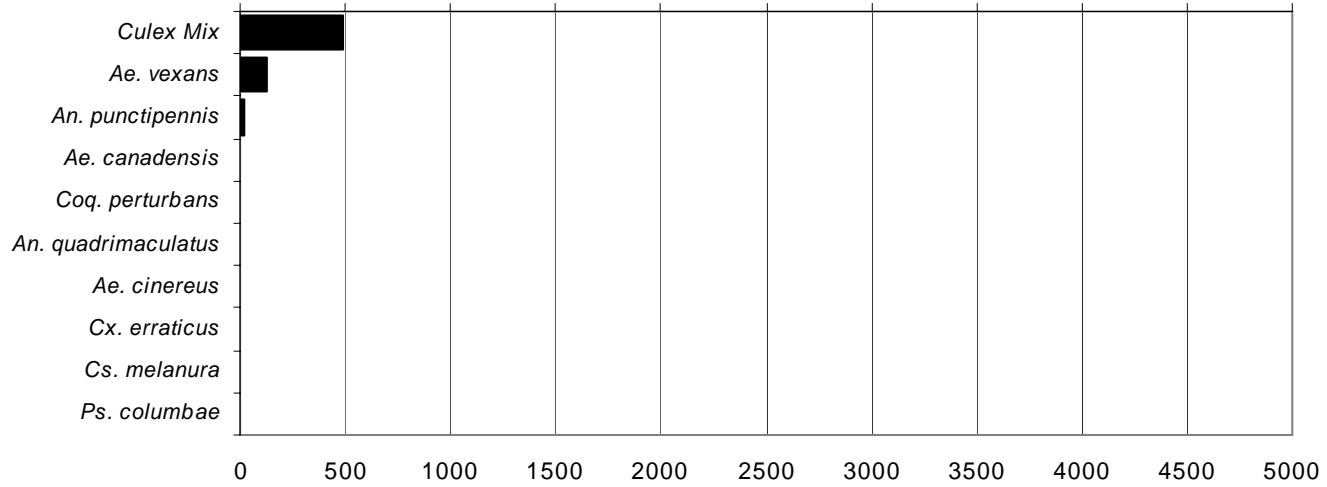
### New York Metropolitan

### Total # mosquitoes



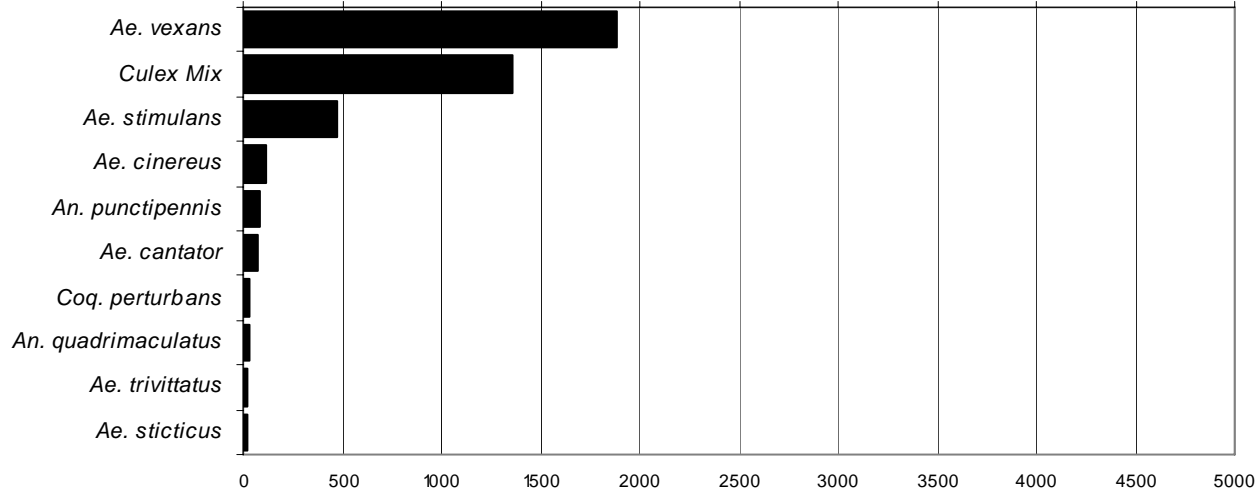
### North Central Rural

### Total # mosquitoes



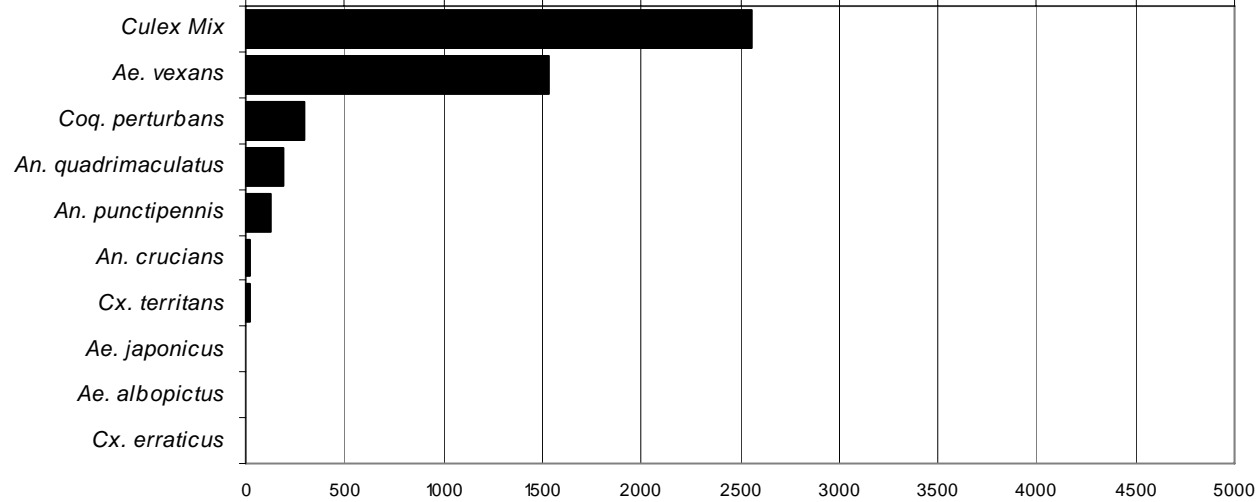
### Northwest Rural

Total # mosquitoes



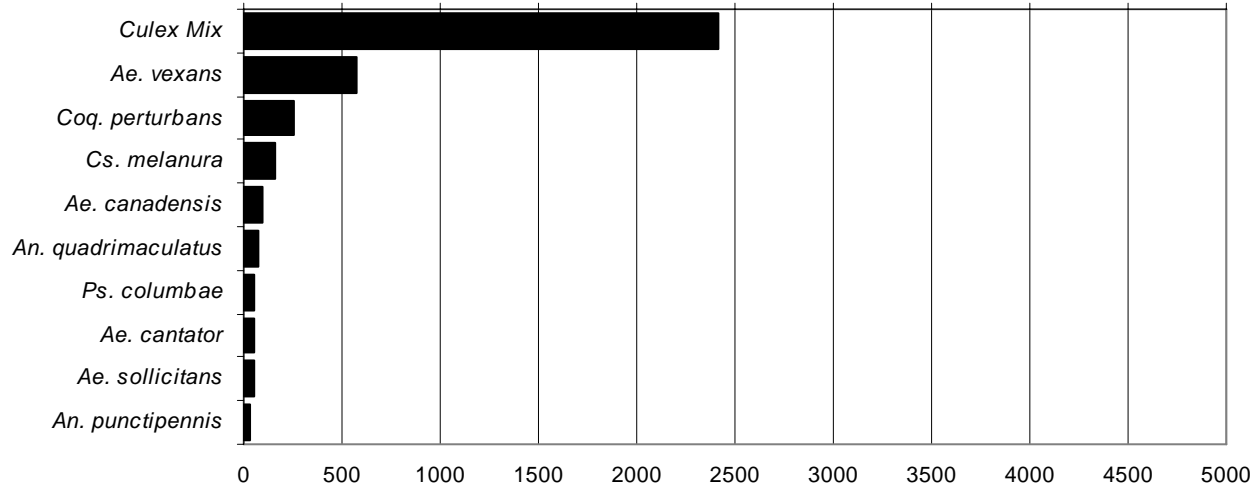
### Philadelphia Metropolitan

Total # mosquitoes



## Pinelands

### Total # mosquitoes



## Suburban Corridor

### Total # mosquitoes

