

**NEW JERSEY ADULT MOSQUITO SURVEILLANCE**  
Report for 19 October to 25 October 2008, CDC Week 43  
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Center for Vector Biology

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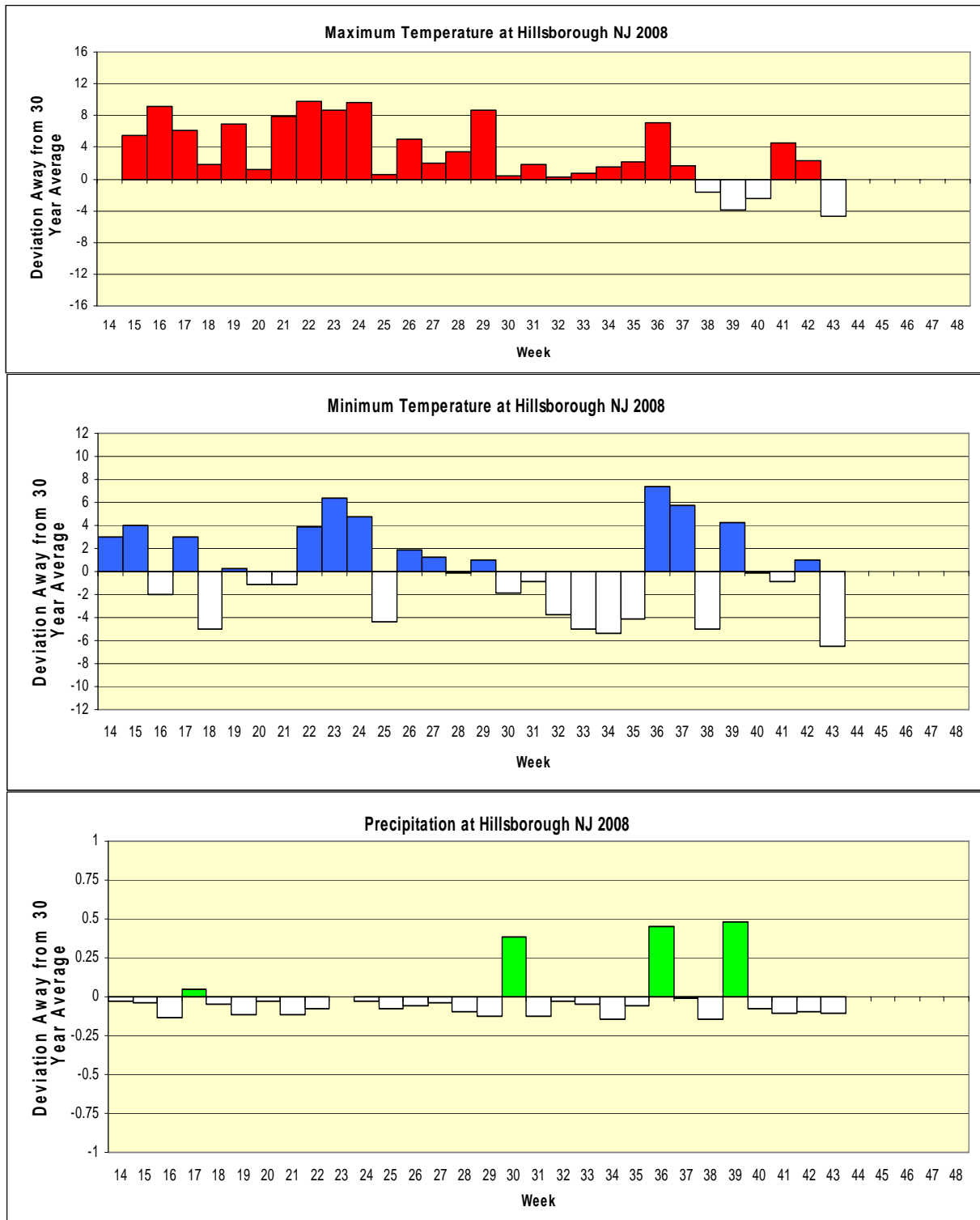
**Summary table – Week 43**

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	0.07	0.26	0	0.00	0.32	0	0.00	0.00	0	0.00	0.01	0
Coastal	0.14	0.12	1	0.71	0.24	4	0.00	0.00	0	0.00	0.10	0
Delaware Bayshore	0.10	0.08	1	0.33	1.71	0	0.00	0.00	0	0.10	0.47	0
Delaware River Basin	0.00	0.21	0	0.00	0.14	0	0.00	0.00	0	0.00	0.00	0
New York Metro	0.09	0.03	4	0.43	0.39	1	0.00	0.00	0	0.00	0.00	0
North Central Rural	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0
Northwest Rural	0.01	0.80	0	0.00	0.13	0	0.00	0.00	0	0.00	0.00	0
Philadelphia Metro	0.00	0.33	0	0.00	0.44	0	0.00	0.00	0	0.00	0.00	0
Pinelands	0.00	0.06	0	0.05	0.22	0	0.00	0.00	0	0.00	0.00	0
Suburban Corridor	0.01	0.16	0	0.02	0.00	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 end of season time, few mosquitoes are on the wing, except those who are very cold-hardy or who have found protective shelter against dropping nighttime temperatures. Changes in the Increase columns for the above table are essentially insignificant as these populations are on the extreme end of their declining seasonal curve. This is the last regular report of the 2008 season.

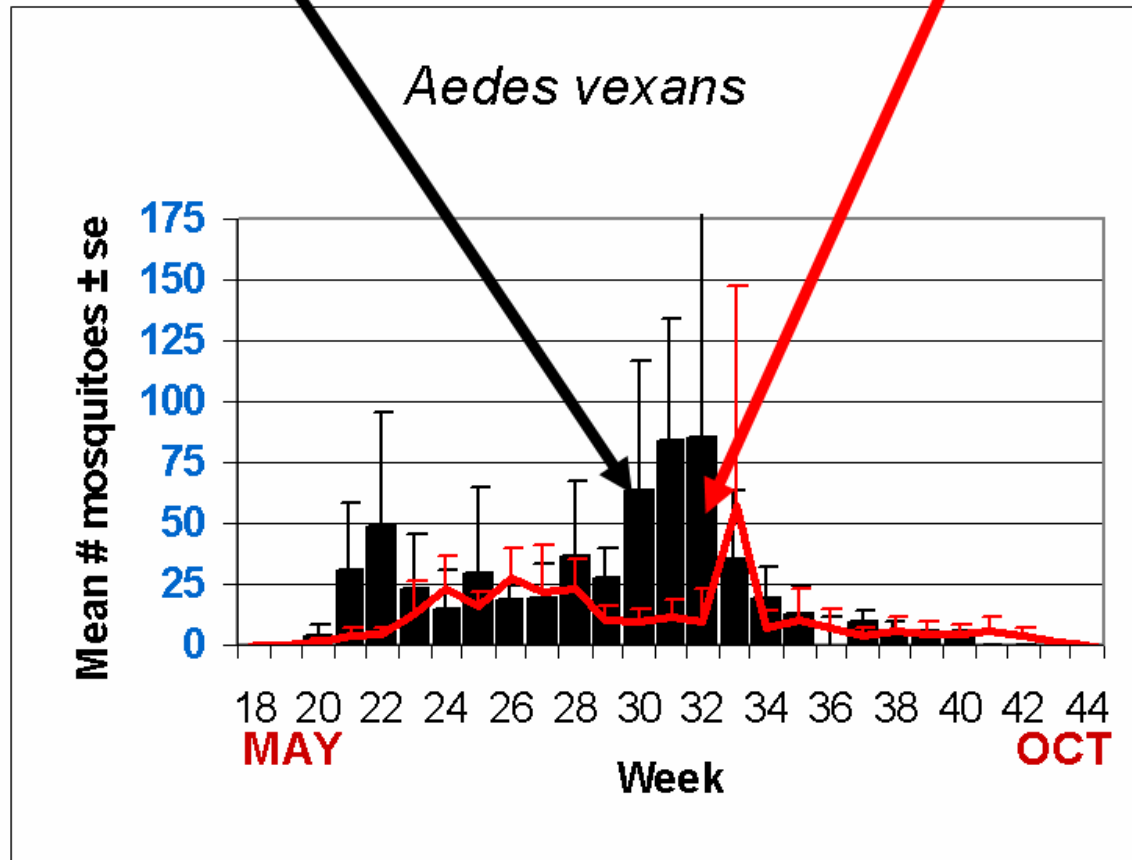
# Climate Deviations



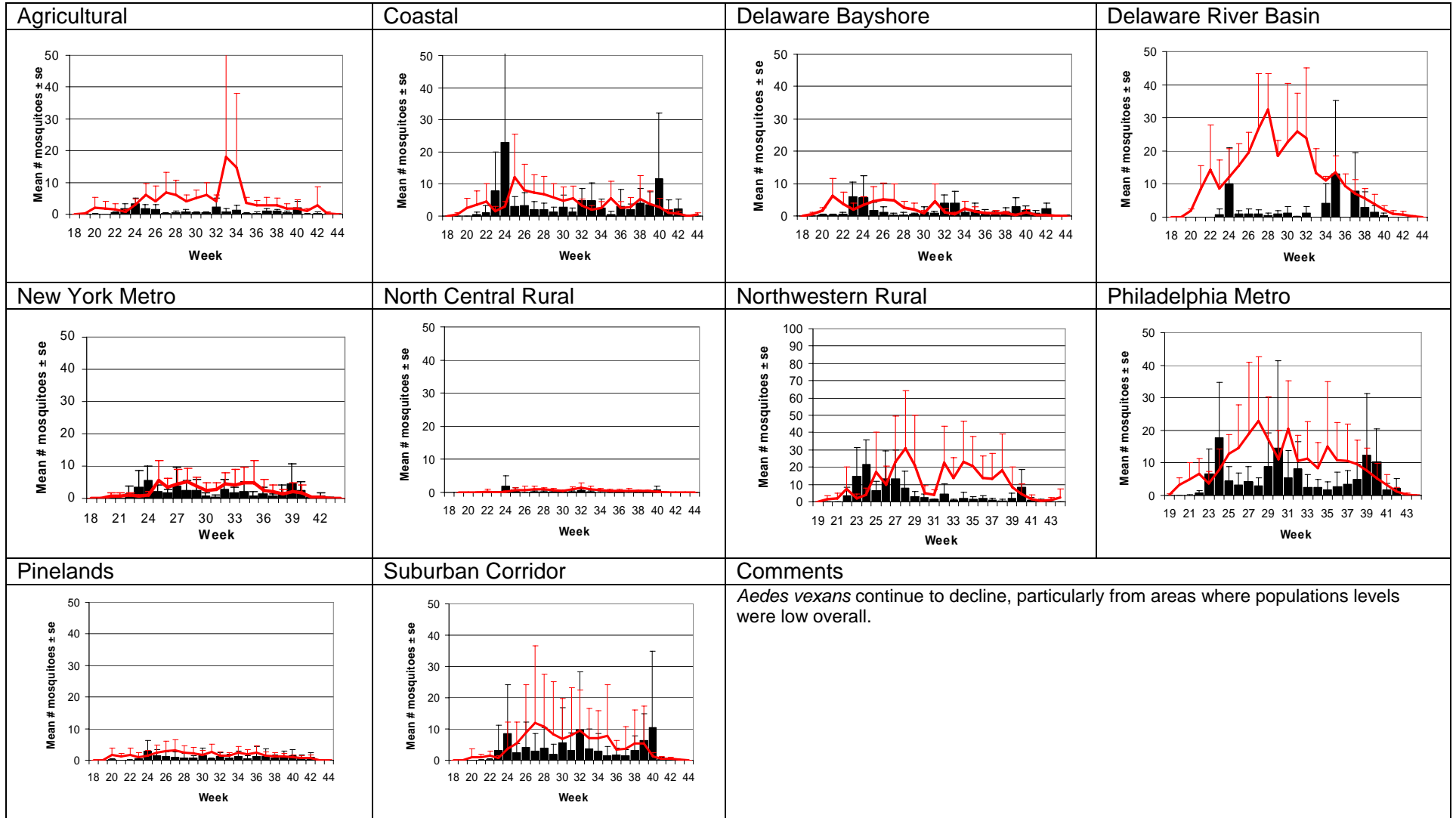
The figures show the average maximum temperature, minimum temperature and precipitation deviations from 30 year averages. Current data are from the Hillsborough NJ weather station (a station close to central NJ which recorded all three parameters and was available online at the NJ state climatologist)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

**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, Cape May, Cumberland, Mercer, Middlesex and Warren counties. Note: County data is sent in at a variety of times during the week, and some counties suspend light trap operation in October.

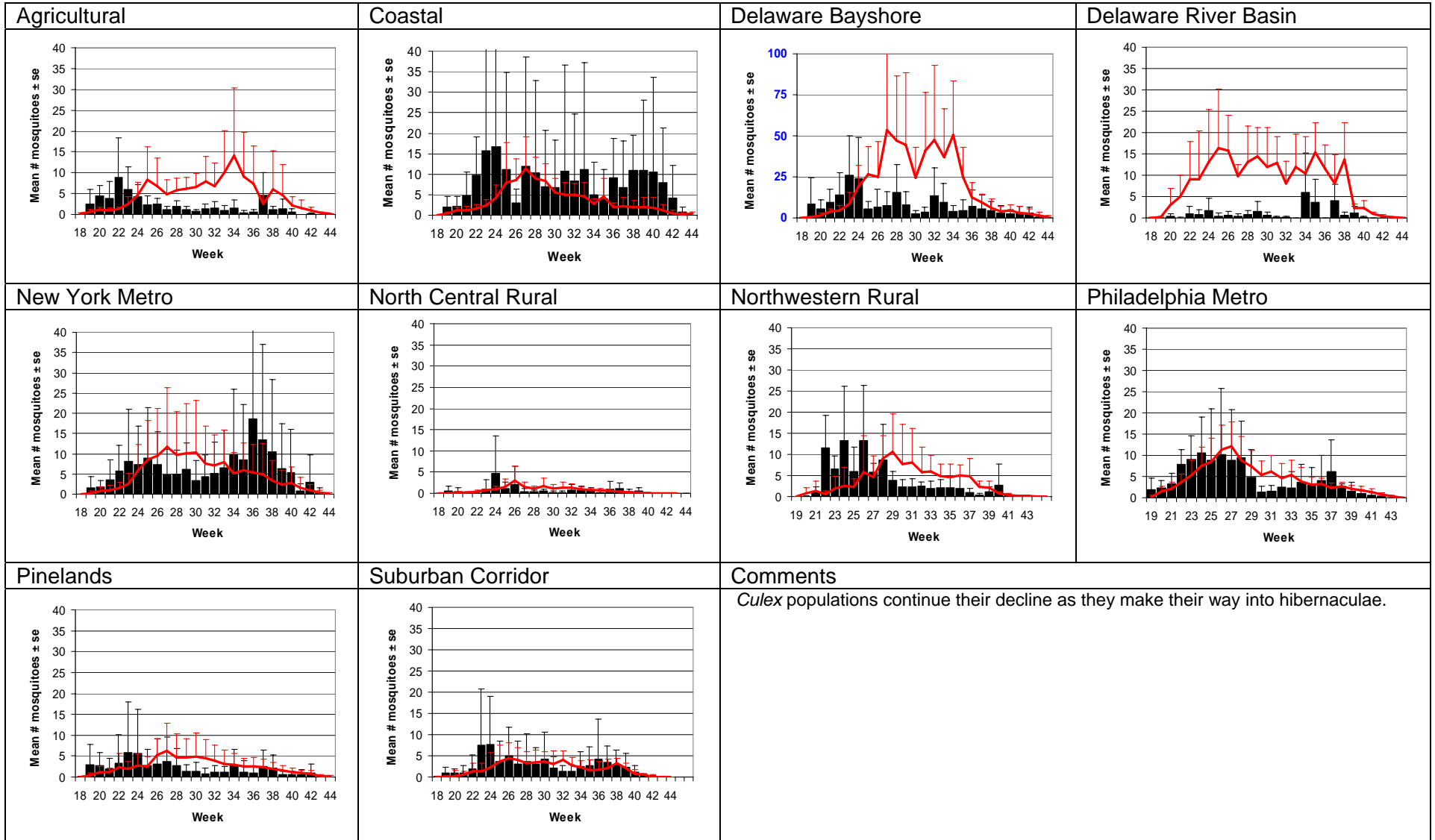
## Weekly Means Against 5-year Average



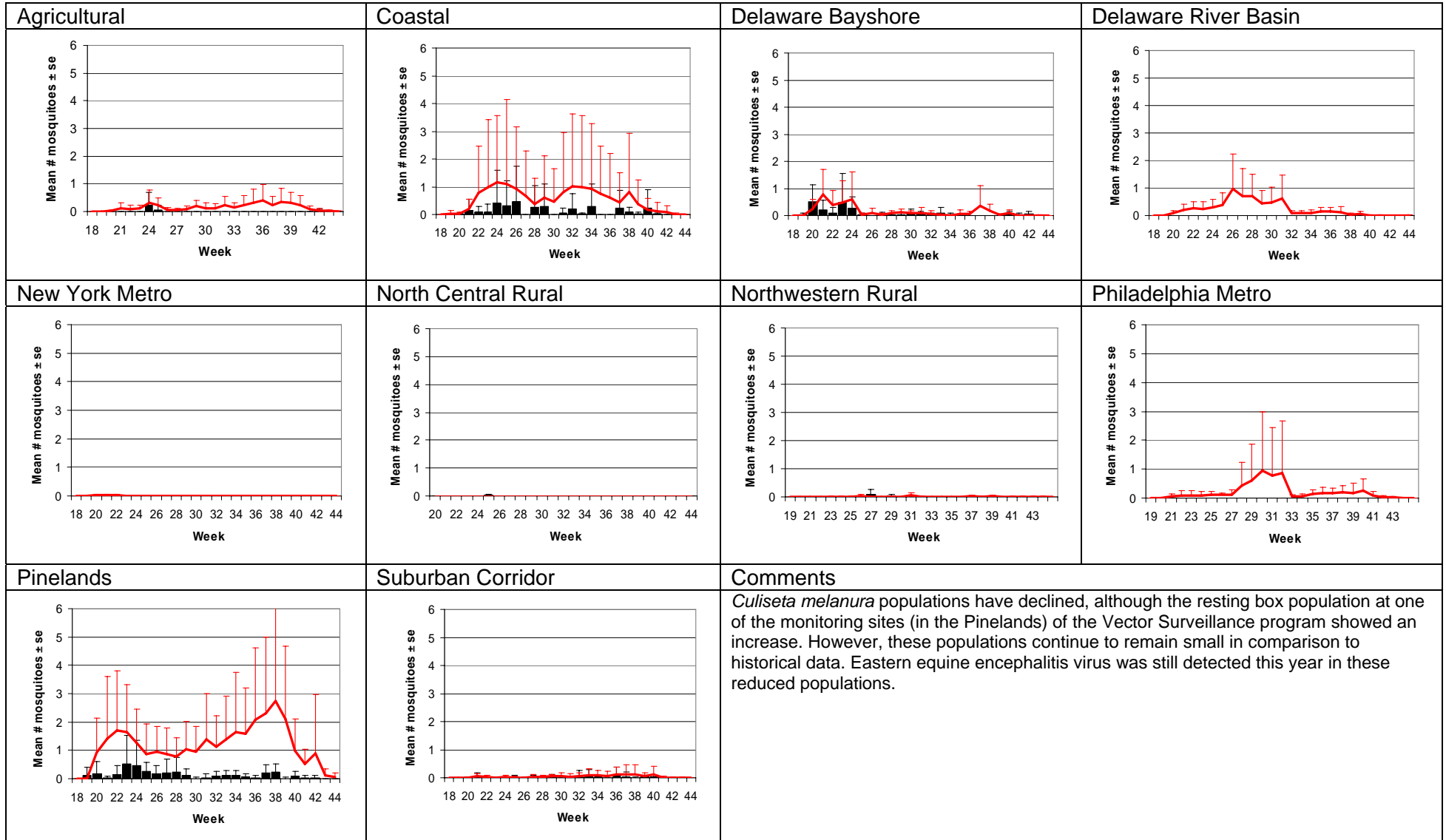
# Aedes vexans - Fresh Floodwater Species Multivoltine Aedine (Ae. vexans Type)



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



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



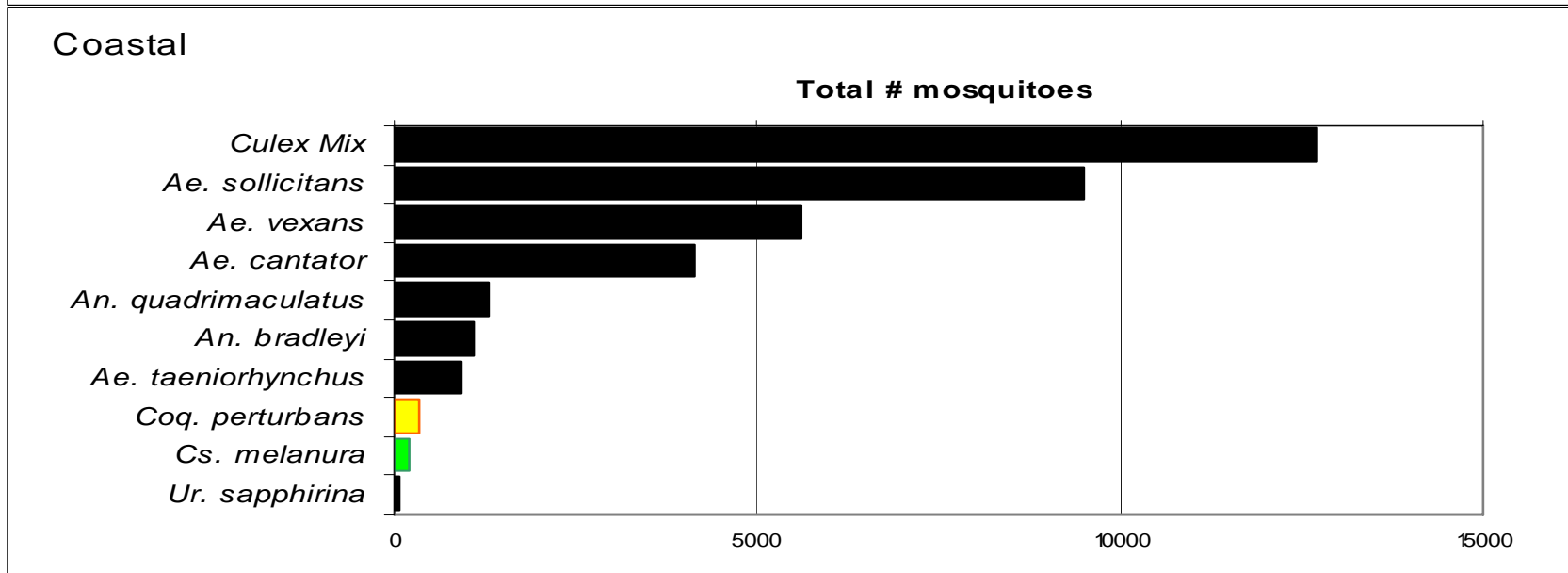
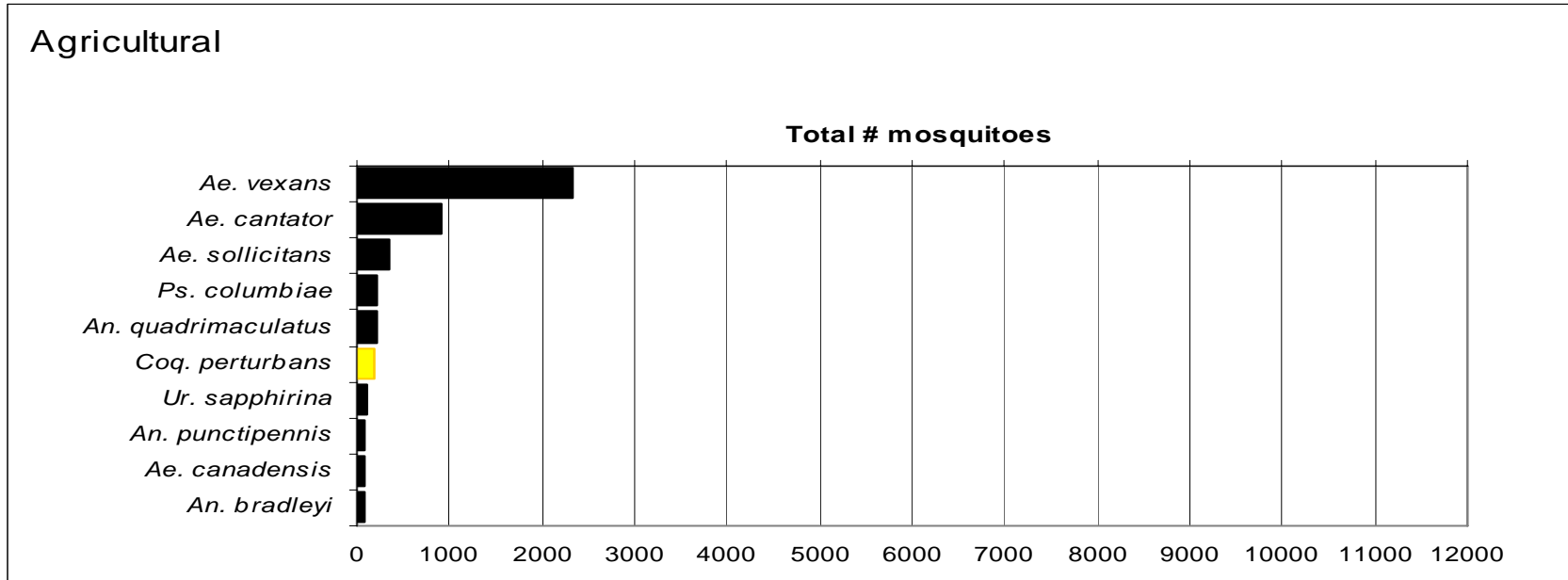
# Aedes sollicitans - Salt Floodwater Species Multivoltine Aedine (Ae. sollicitans Type)

<p><b>Agricultural</b></p>	<p><b>Coastal</b></p>	<p><b>Delaware Bayshore</b></p>	<p><b>Delaware River Basin</b></p>
<p><b>New York Metro</b></p>	<p><b>North Central Rural</b></p>	<p><b>Northwestern Rural</b></p>	<p><b>Philadelphia Metro</b></p>
<p><b>Pinelands</b></p>	<p><b>Suburban Corridor</b></p>	<p><b>Comments</b></p> <p><i>Aedes sollicitans</i> populations were only reported in the Delaware Bayshore, although some populations may still be on the wing. The previous week, a relatively large number of <i>Ae. sollicitans</i> were reported in the pinelands, possibly some individuals searching for bloodmeals/nectar.</p>	

WNV

EEE

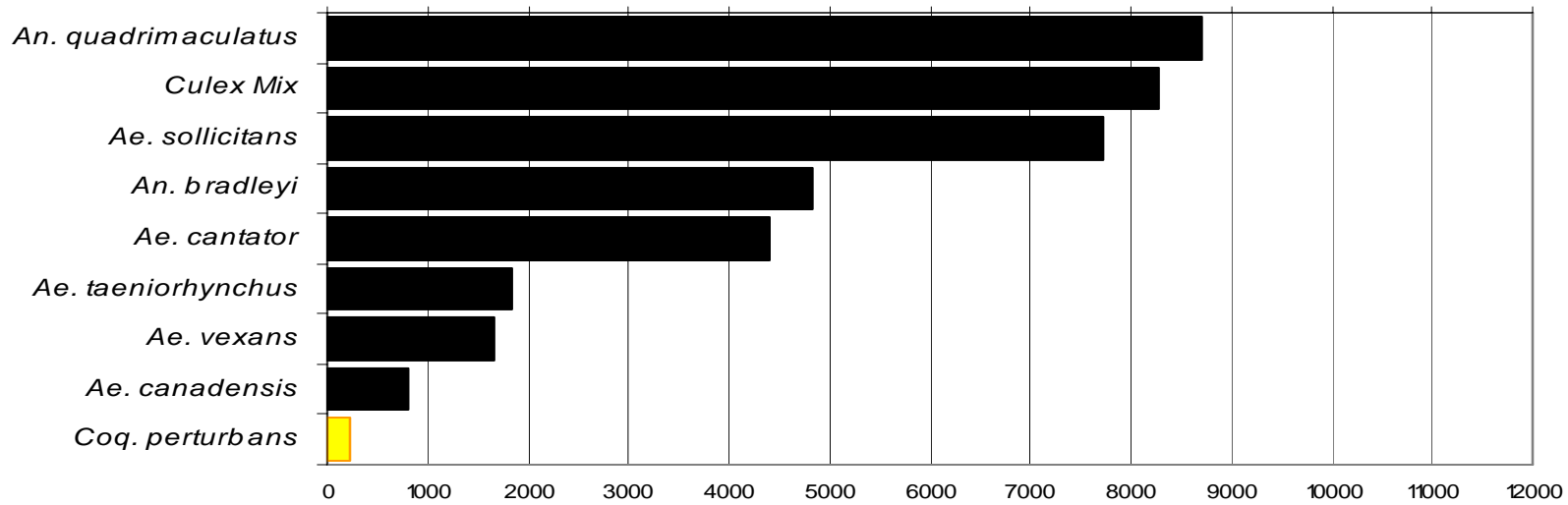
**Top Ten Mosquito Species/Region -** ■ *Ae. albopictus*, ■ *Ae. japonicus* (invasives); ■ *Cs. melanura* or *Cx. erraticus* ■ *Coq. perturbans*





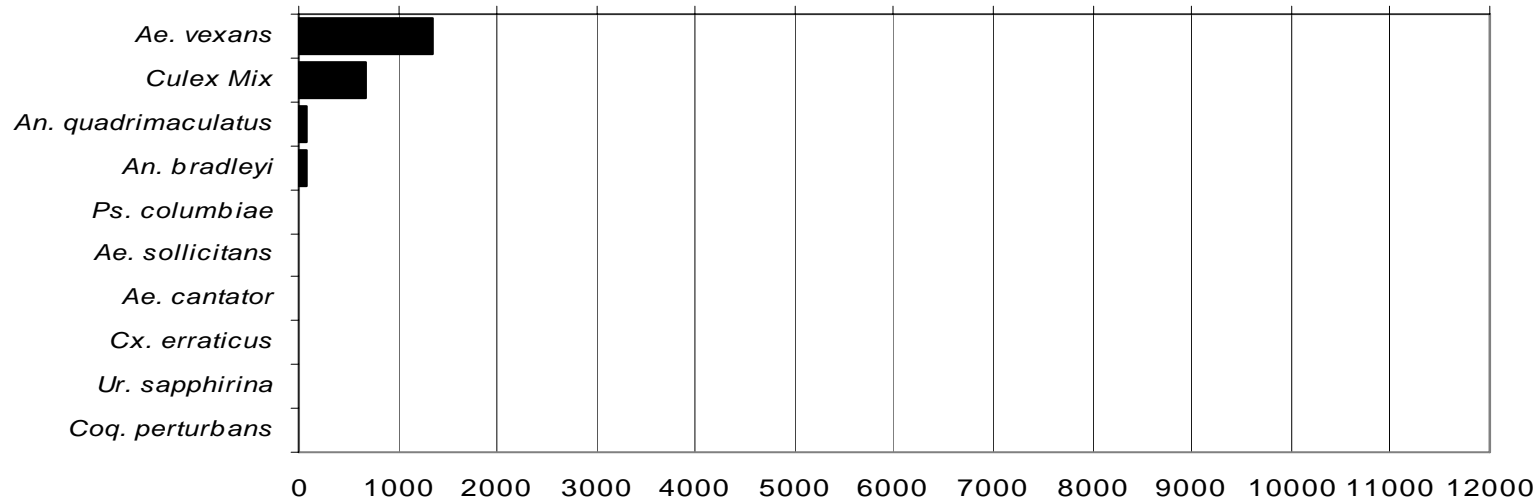
## Delaware Bayshore

### Total # mosquitoes



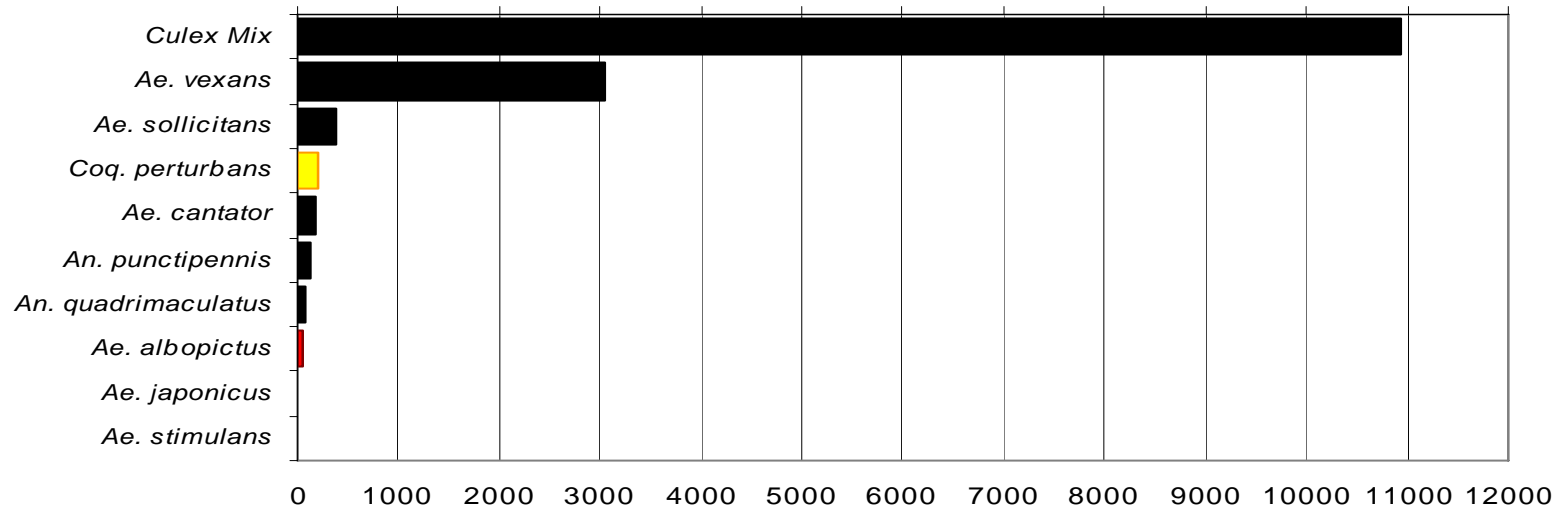
## Delaware River Basin

### Total # mosquitoes



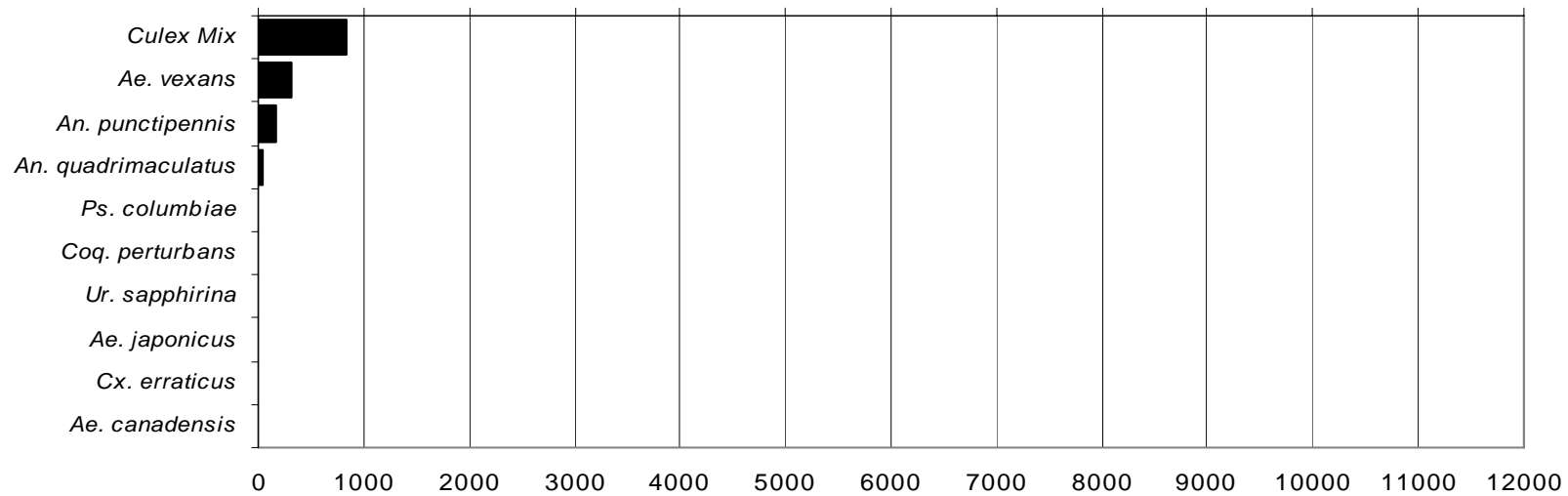
## New York Metropolitan

### Total # mosquitoes



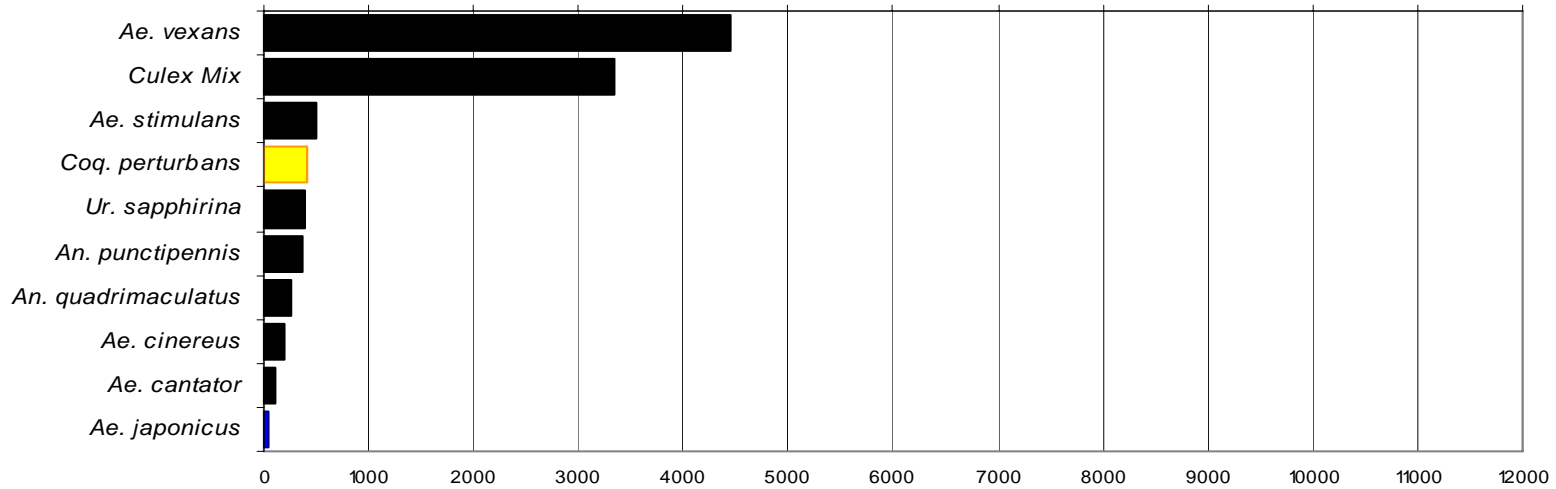
## North Central Rural

### Total # mosquitoes



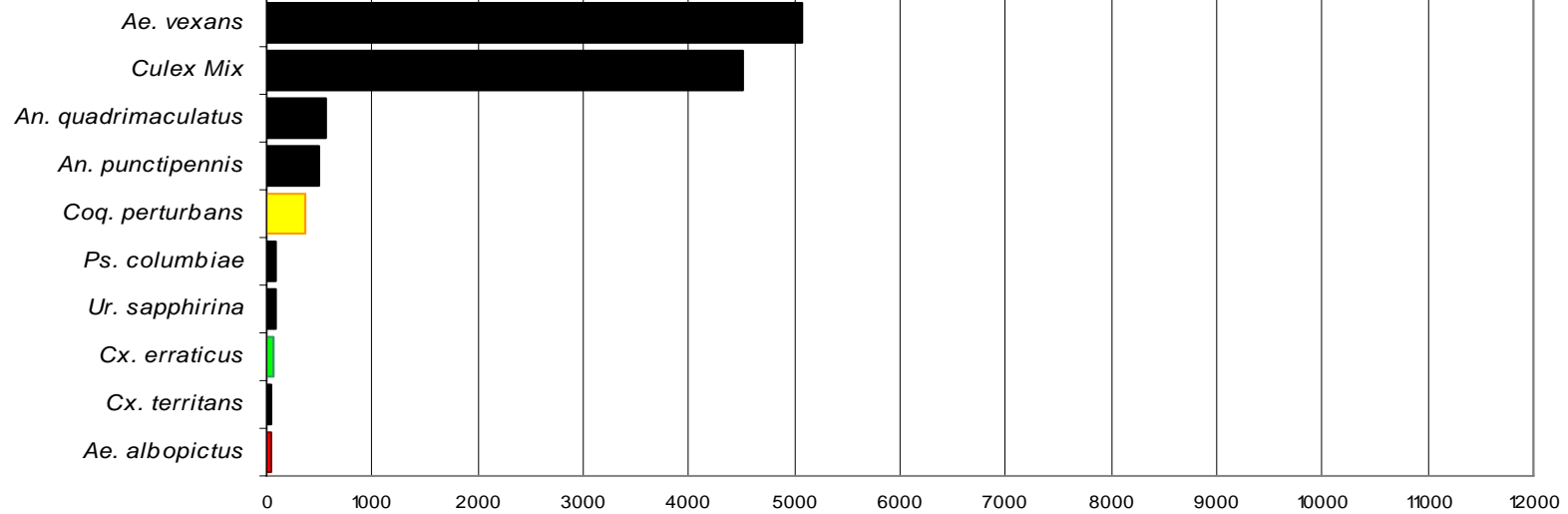
## Northwest Rural

Total # mosquitoes



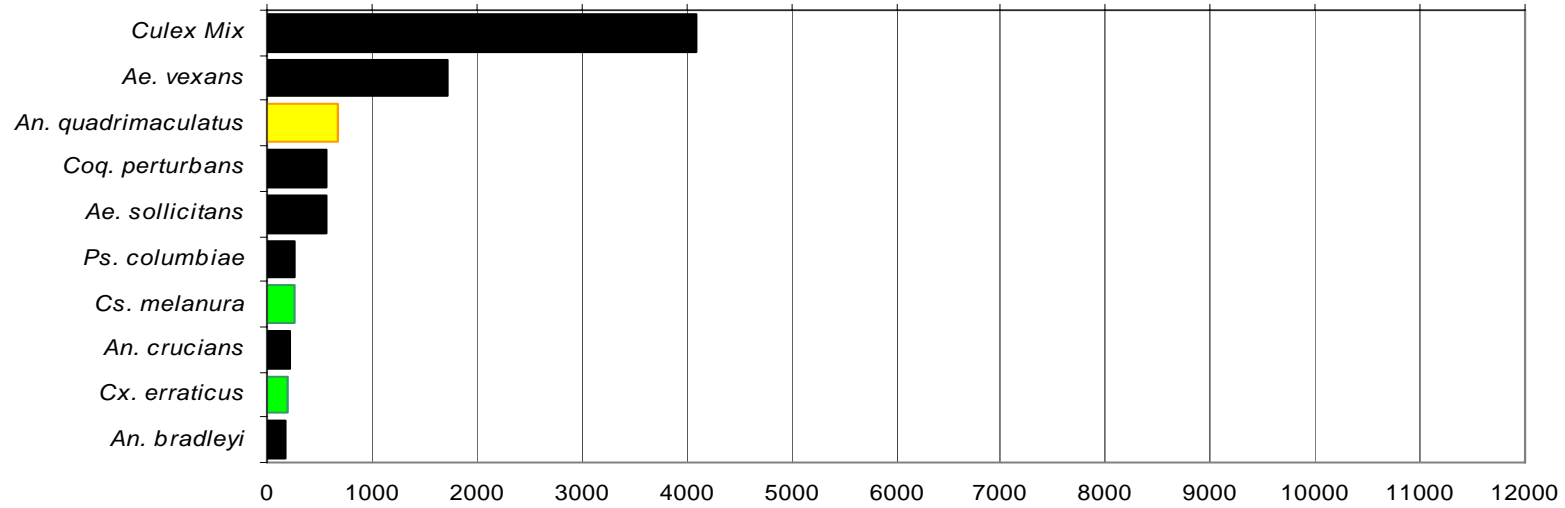
## Philadelphia Metropolitan

Total # mosquitoes



## Pinelands

### Total # mosquitoes



## Suburban Corridor

### Total # mosquitoes

