

# NEW JERSEY STATEWIDE SURVEILLANCE

## Week 35 Report for 28 August to 3 September, 2006

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**Purpose:** Data from 84 New Jersey light traps contributed by county mosquito control agencies are used to calculate trends in mosquito populations for species of nuisance or health concerns.

Calculations are based on regional distributions, with emphasis on mosquito habitat and land use. Trends will allow a statewide evaluation of changing mosquito populations, in response to control and/or changes in habitat.

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Figure 1a: Map of ten regions selected for the New Jersey Surveillance Program overlaid with county borders.

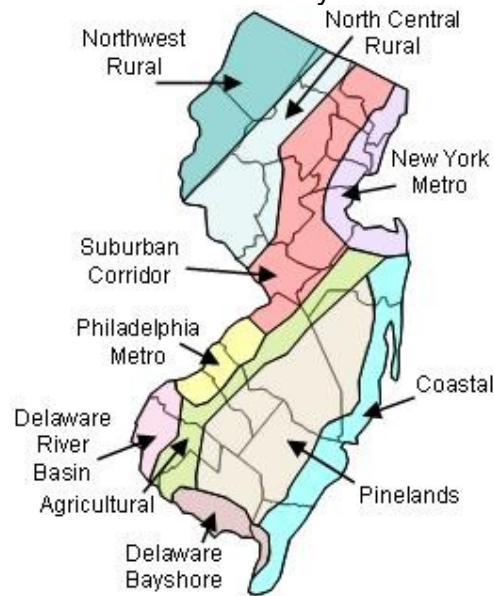


Figure 1b. Trap lat-long locations.



## Summary table – Week 35

	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	0.19	23.67	6.98	23.67	0.12	0.24	0.00	1.38
Coastal	0.21	3.78	0.54	3.37	0.00	0.25	2.71	43.65
Delaware Bayshore	0.00	3.84	4.55	75.89	0.00	4.73	2.45	13.50
Delaware River Basin	0.00	13.91	0.00	15.32	0.00	0.41	0.00	0.23
New York Metro	0.34	5.19	2.86	5.28	0.09	0.11	0.00	1.09
North Central Rural	0.06	0.92	0.29	1.10	0.00	0.06	0.00	0.00
Northwest Rural	1.05	29.58	5.40	5.67	0.00	0.24	0.00	0.00
Philadelphia Metro	0.97	11.07	1.17	5.59	0.00	0.26	0.00	0.00
Pinelands	0.00	2.86	0.61	2.94	0.17	0.43	0.00	0.34
Suburban Corridor	0.25	8.71	1.66	2.46	0.18	0.69	0.00	0.10

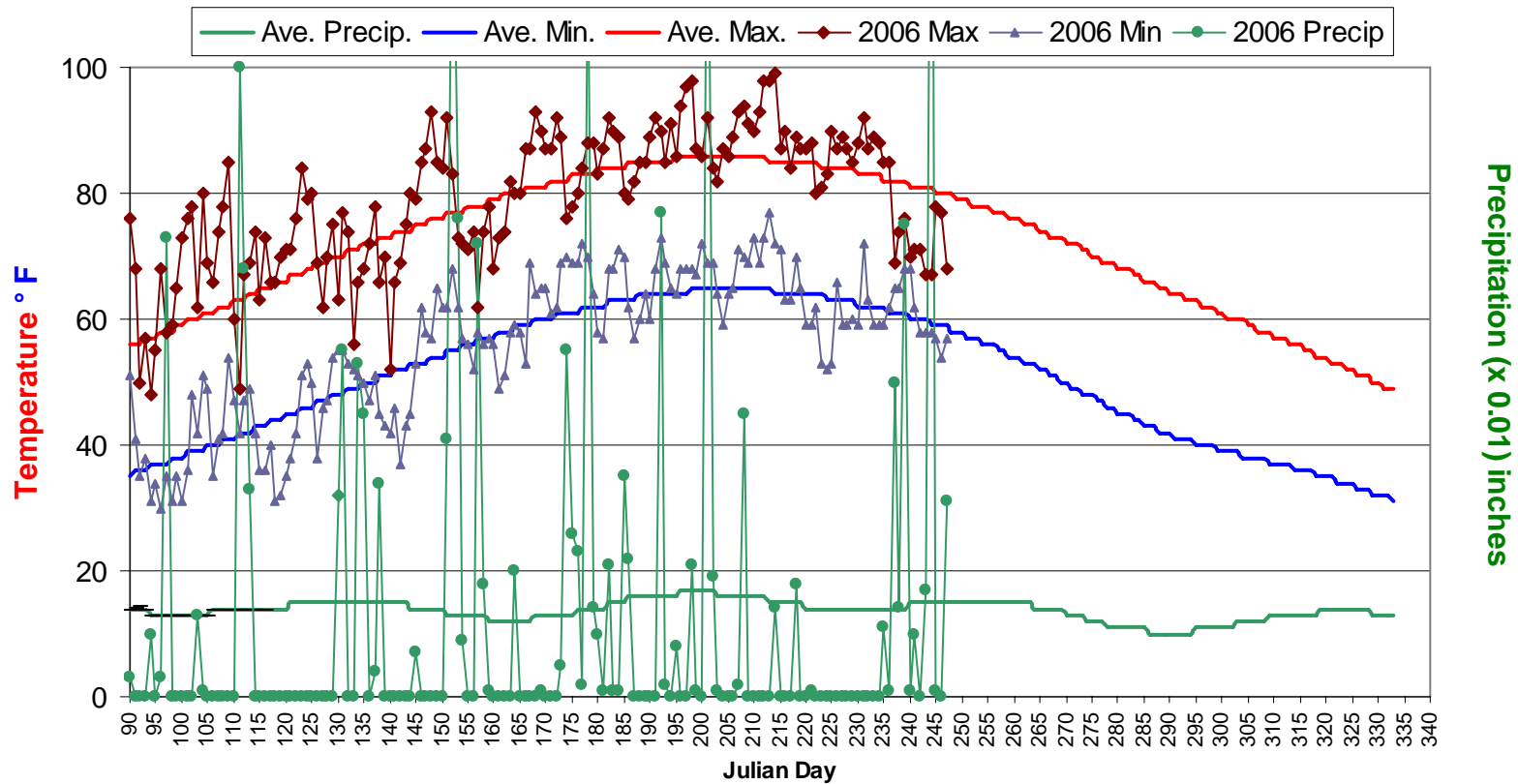
\* 5-year running mean.

Graphs include *Ae. vexans*, *Culex complex* (*Cx. pipiens*, *Cx. restuans*, and *Cx. salinarius*), *Oc. sollicitans*, *Cs. melanura*.

14\* of 21 counties in one or both weeks; 20 of 21 counties reporting. (\*Monday holiday)

# Climate Data

New Brunswick 1971-2000 Historical/Hillsborough 2006

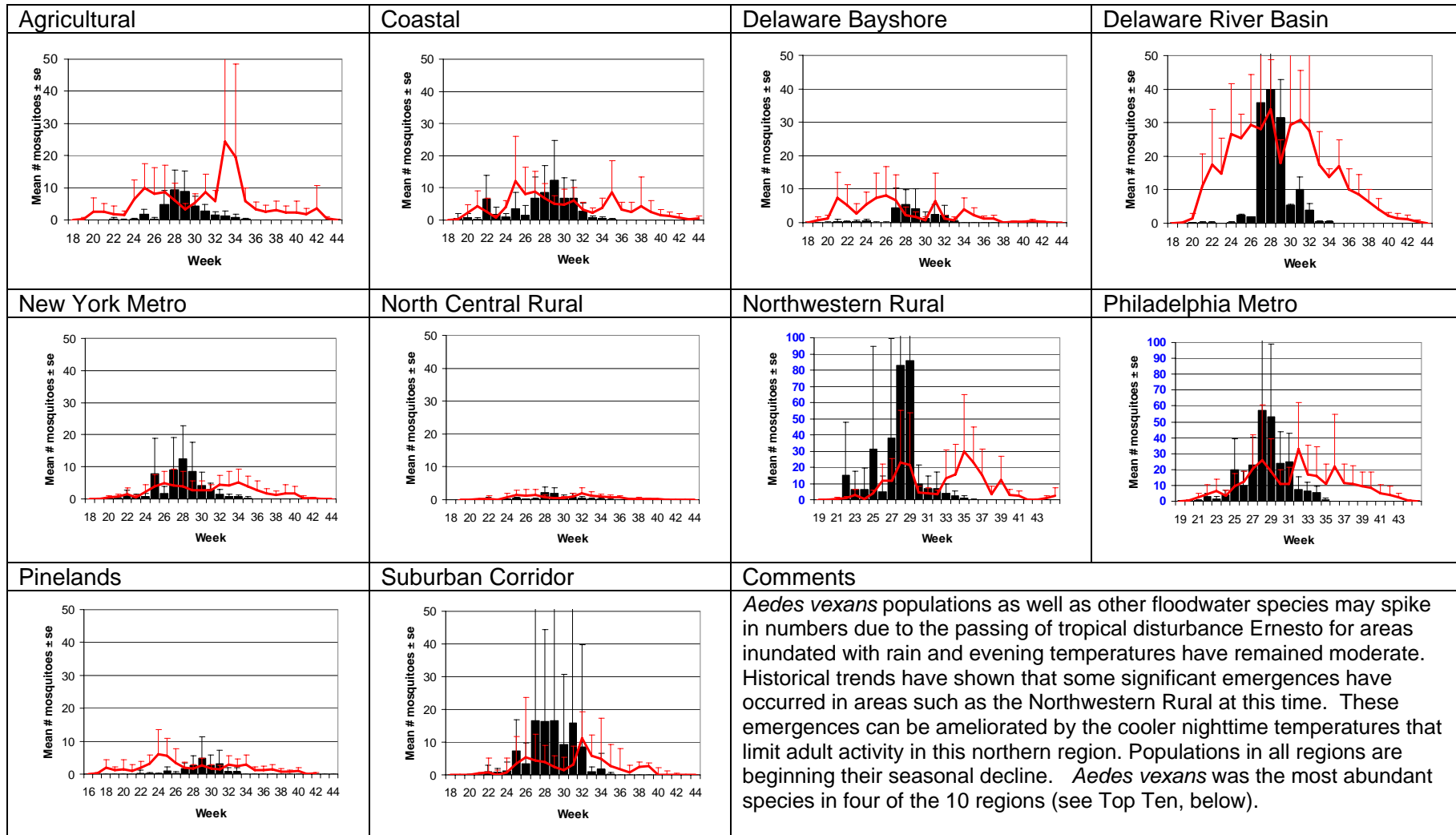


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station close to central NJ which recorded all three parameters and was available online at the NJ state climatologist).

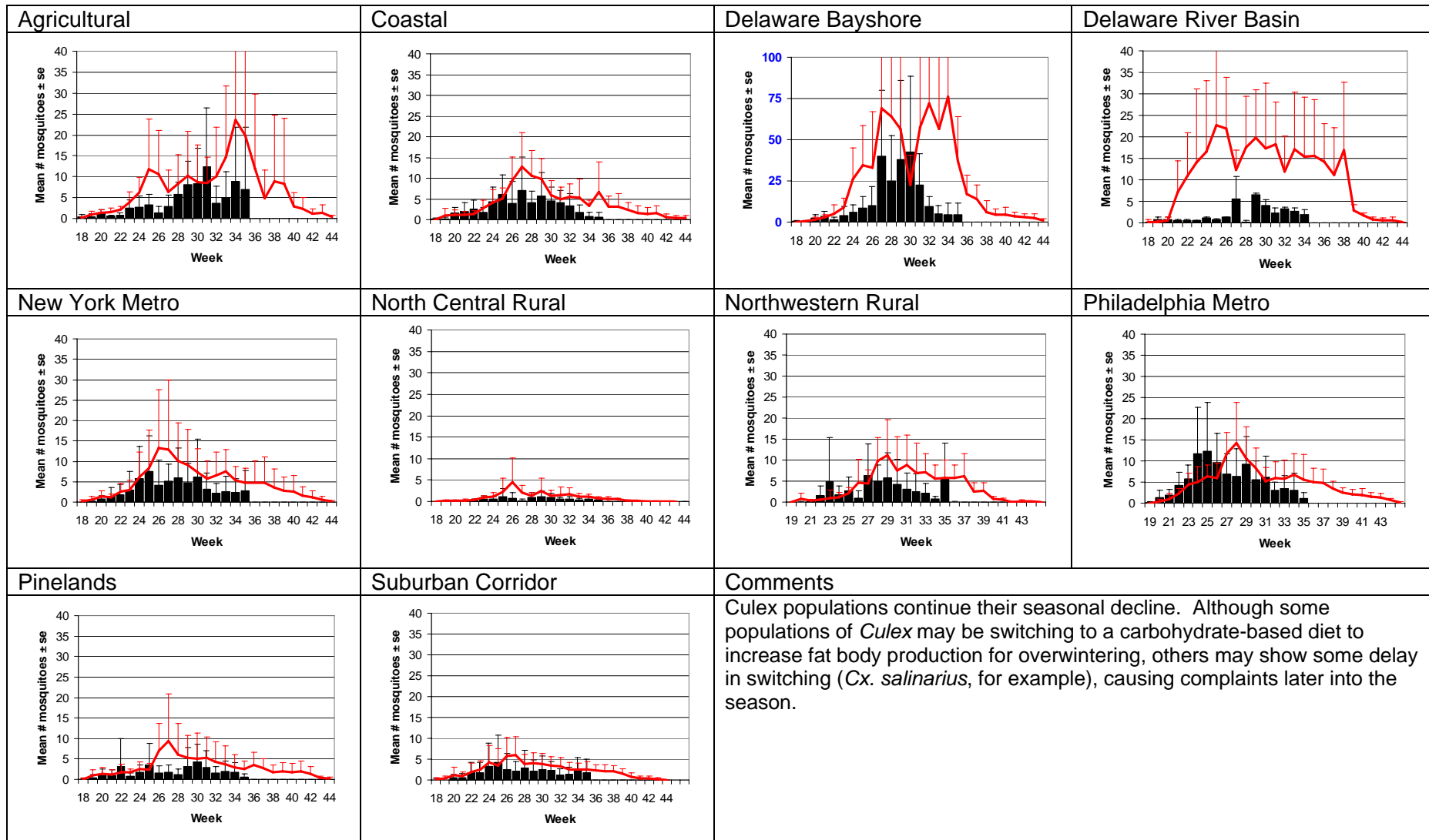
The state climatologist has an extensive amount of climatological historical data as well as stations reporting current conditions and forecasts:

<http://climate.rutgers.edu/stateclim/>

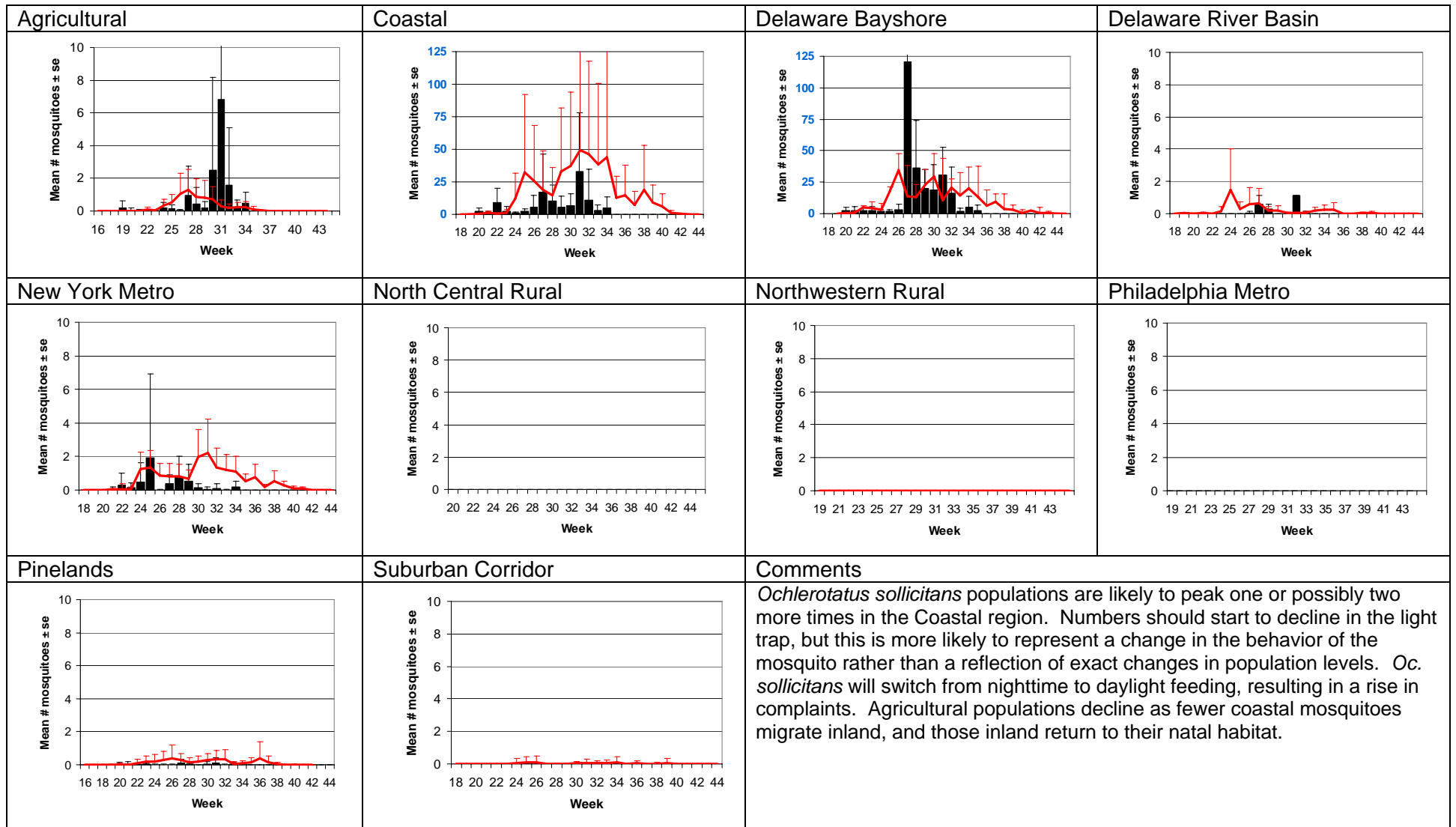
## *Aedes vexans* - Fresh Floodwater Species



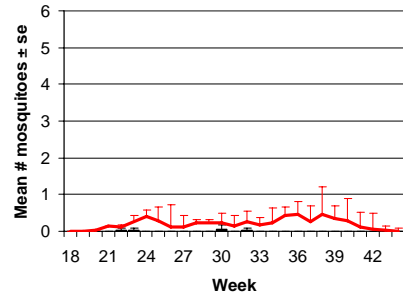
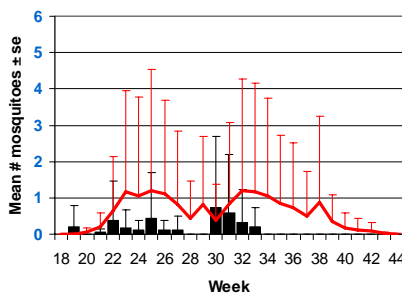
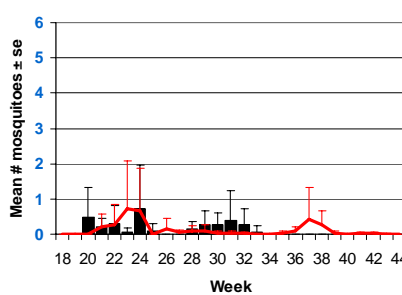
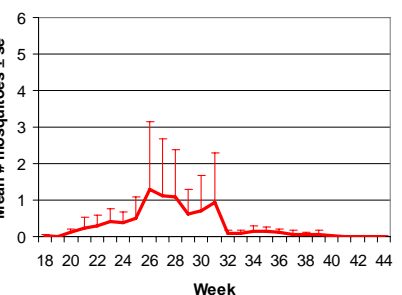
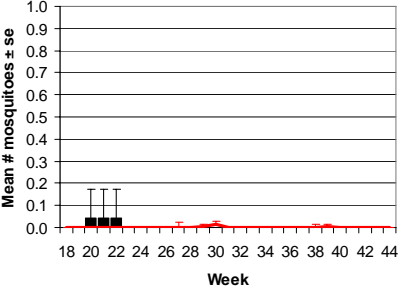
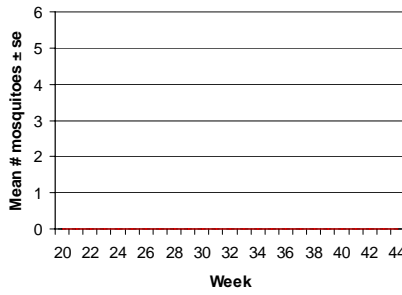
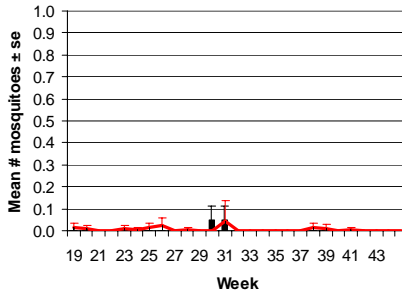
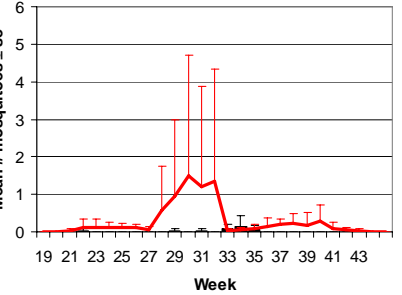
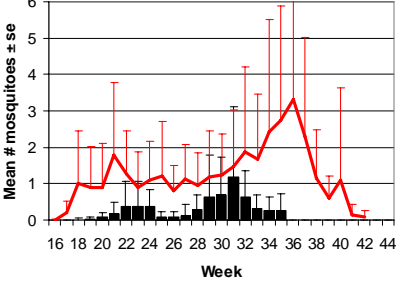
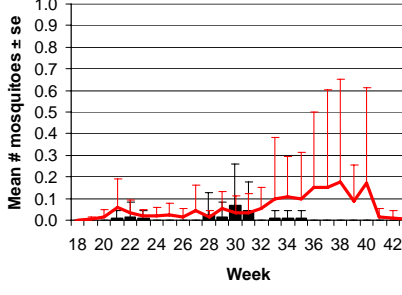
# Culex Complex - Multivoltine Culex Species



# *Ochlerotatus sollicitans* - Salt Marsh Floodwater Species



## *Culiseta melanura* – Miscellaneous Group

<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>Culiseta melanura</i> populations continue to decline. Although there was an unusual surge in the Vector Surveillance Waterford site last week, this does not appear to be reflected in any general regional activity. Should the decline continue and no reported positive EEE pools are found in the Vector Surveillance program, this will be the last report on <i>Culiseta melanura</i> for the year.</p>	

Top Ten cumulative species for each region to date.

