

NEW JERSEY STATEWIDE SURVEILLANCE

Week 32 Report for 6 August to 12 August, 2006

Submitted by Lisa M. Reed
Mosquito Research and Control Unit
Rutgers University, New Brunswick, NJ 08901

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.

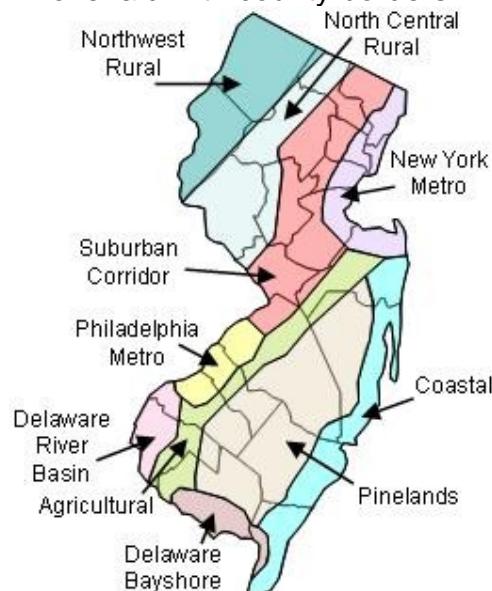


Figure 1b. Trap lat-long locations.



Summary table – Week 32

	<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	0.98	5.96	0.98	10.03	0.07	0.21	0.00	0.72
Coastal	0.40	3.32	0.75	5.99	0.05	0.78	0.00	46.33
Delaware Bayshore	1.86	1.25	7.88	71.93	0.17	0.83	16.31	14.65
Delaware River Basin	3.93	27.51	3.21	11.90	0.14	1.06	0.07	0.05
New York Metro	1.51	4.44	2.01	6.57	0.04	0.06	0.00	1.34
North Central Rural	0.35	1.97	0.41	1.47	0.00	0.11	0.00	0.00
Northwest Rural	5.95	13.05	2.38	7.05	0.12	0.06	0.00	0.00
Philadelphia Metro	6.00	17.01	1.17	5.74	0.00	0.13	0.00	0.00
Pinelands	0.21	1.65	0.27	4.37	0.01	1.02	0.00	0.29
Suburban Corridor	8.38	8.90	0.87	3.19	0.08	0.69	0.00	0.04

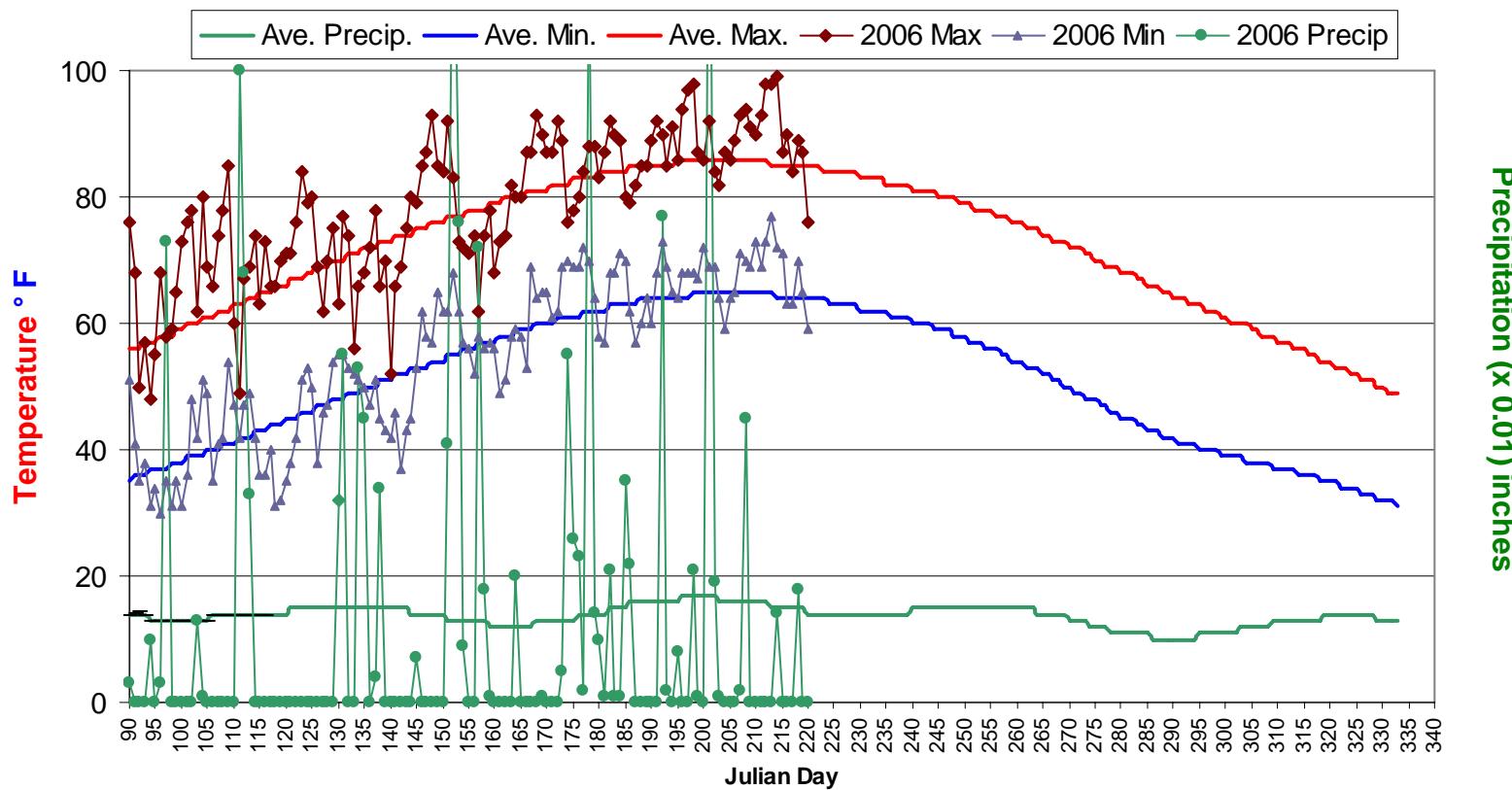
* 5-year running mean.

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

15 of 21 counties in one or both weeks; 20 of 21 counties reporting.

Climate Data

New Brunswick 1971-2000 Historical/Hillsborough 2006

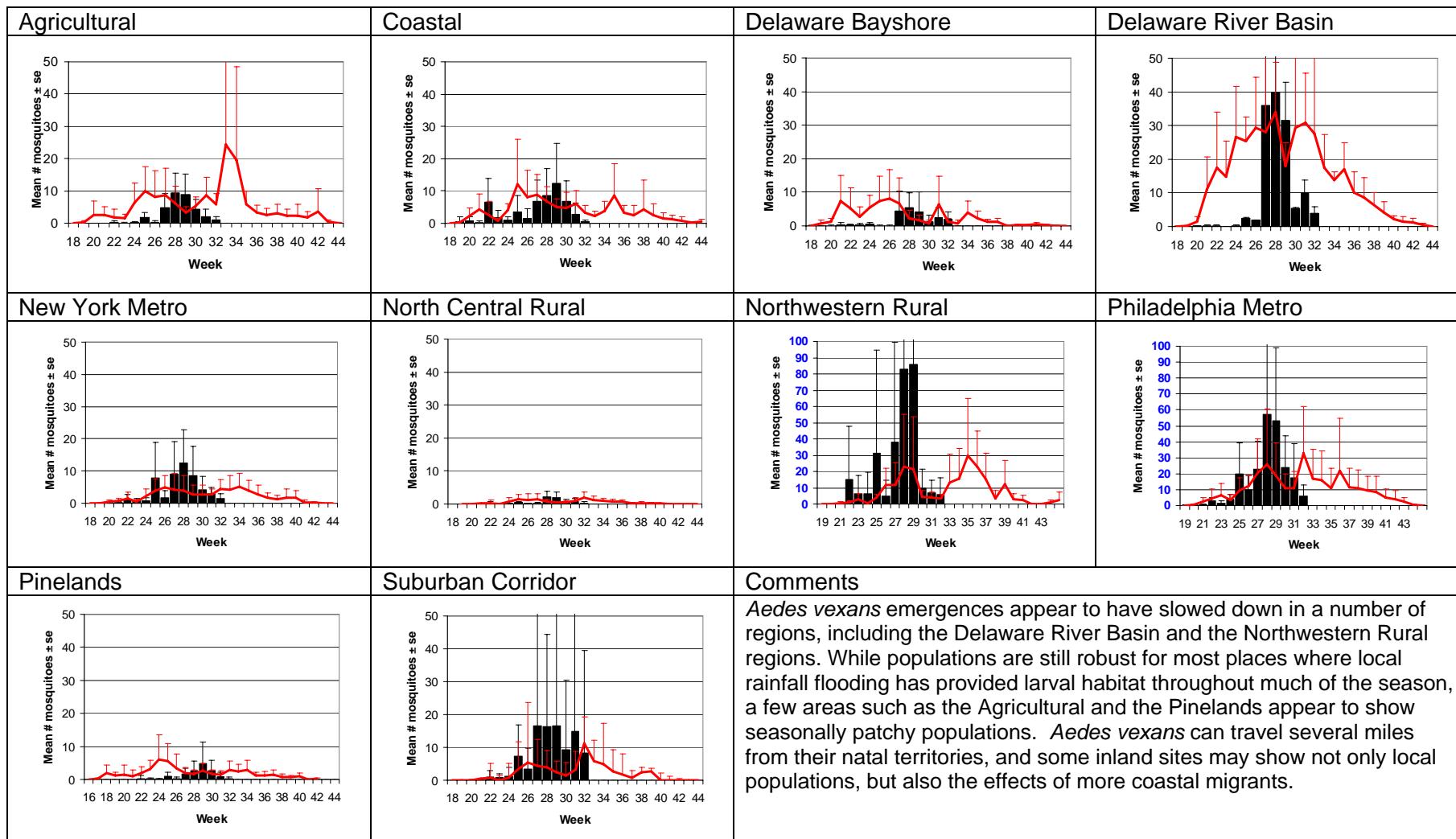


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station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

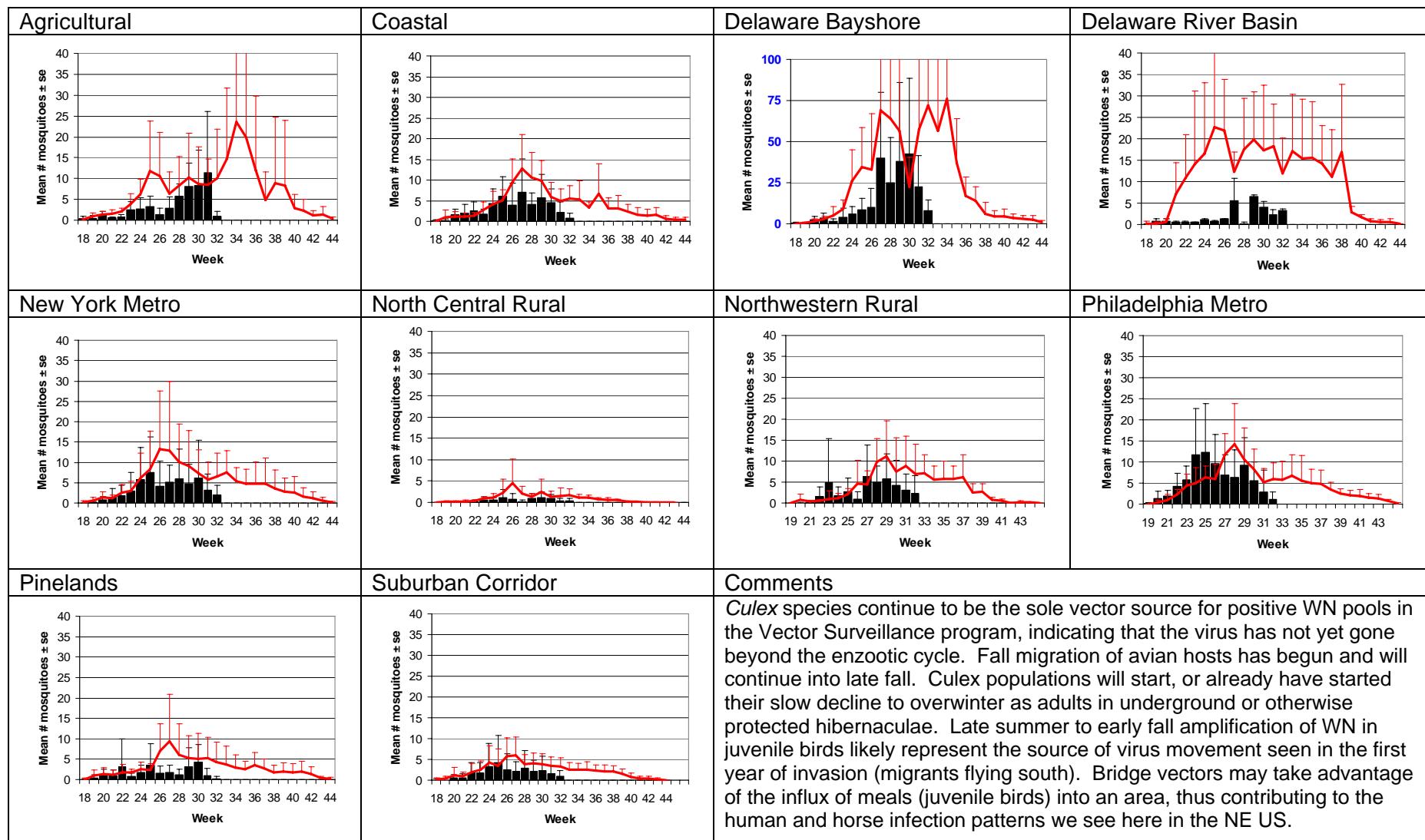
The state climatologist has an extensive amount of climatological historical data as well as stations reporting current conditions and forecasts:

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

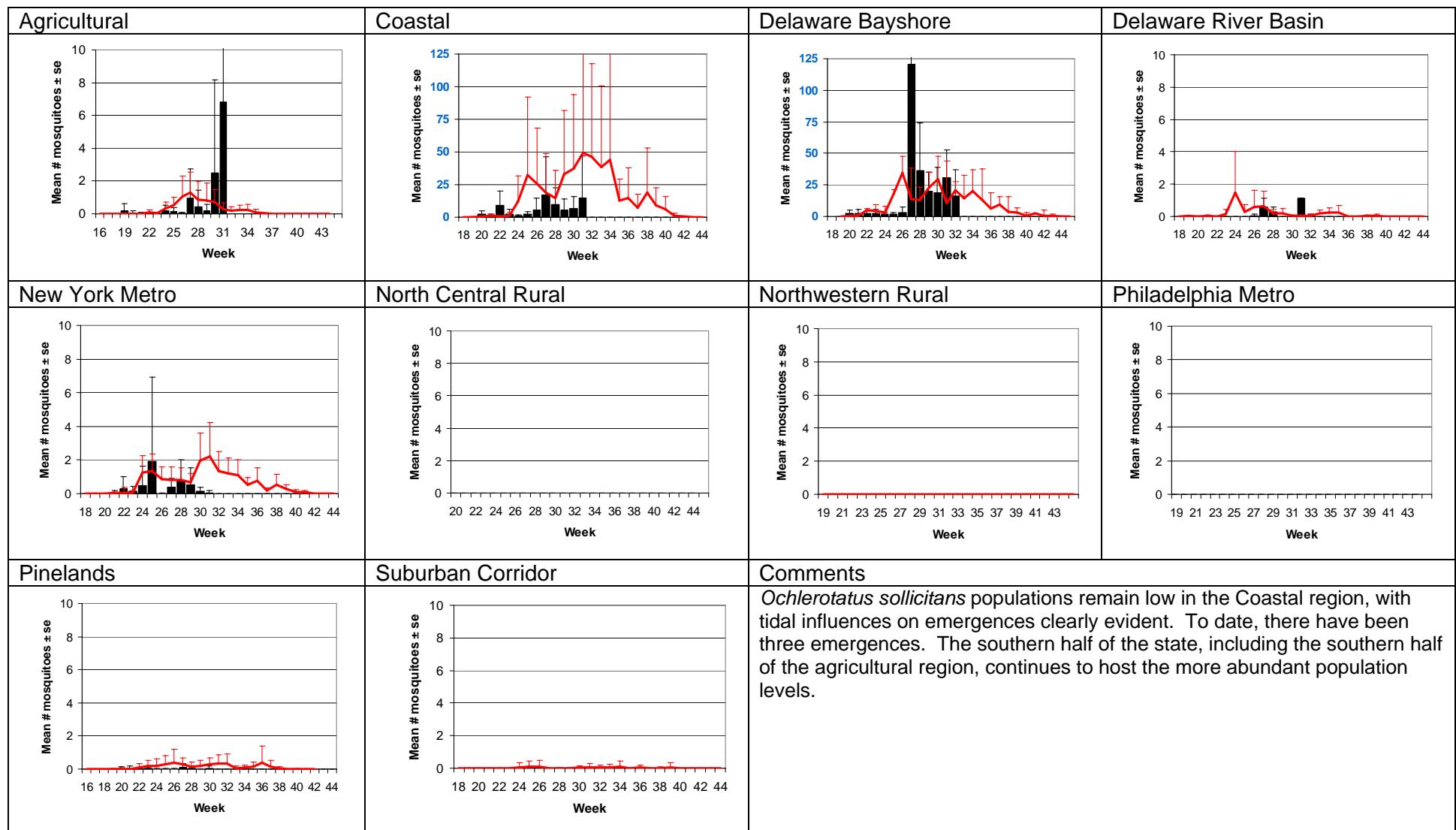
Aedes vexans - Fresh Floodwater Species



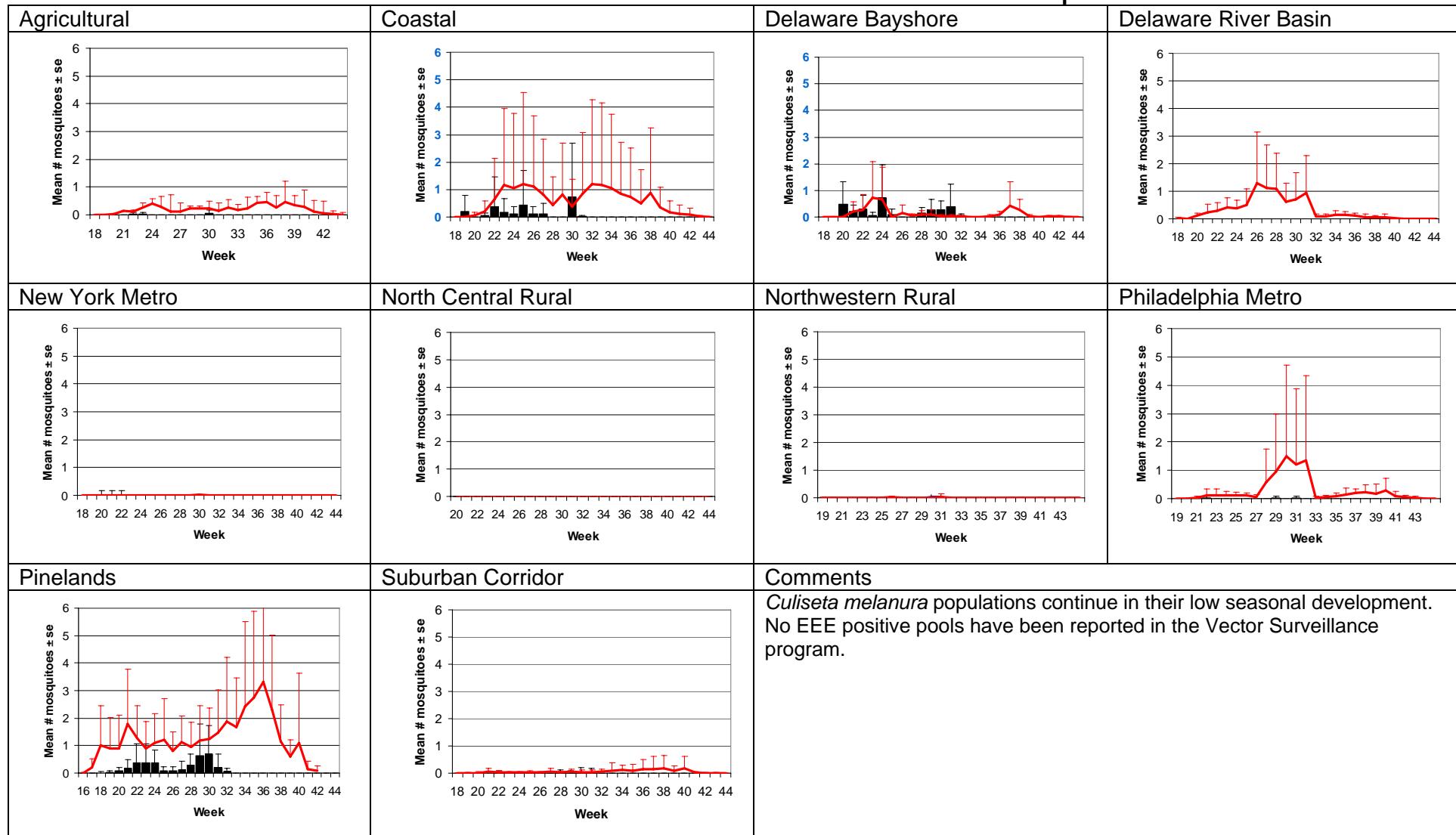
Culex Complex - Multivoltine Culex Species



Ochlerotatus sollicitans - Salt Marsh Floodwater Species



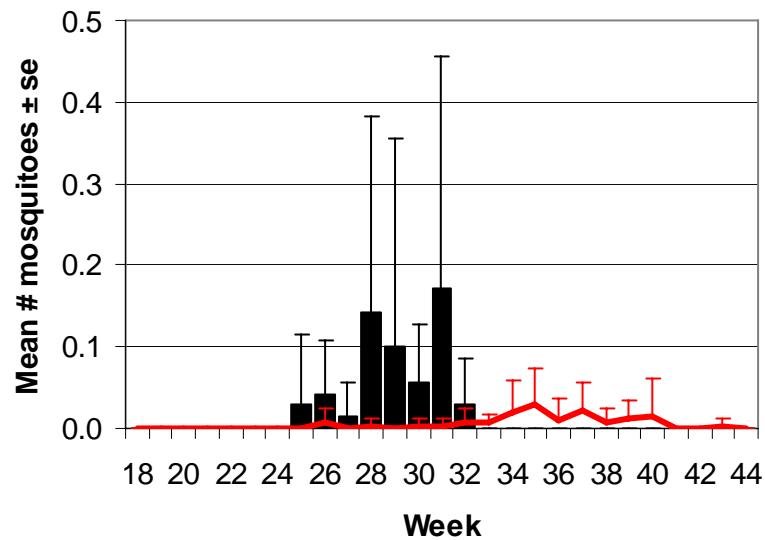
Culiseta melanura – Miscellaneous Group



Aedes albopictus in the New York Metropolitan and Suburban Corridor, 2006.

The Asian Tiger Mosquito, aptly named, is an aggressive biter. In southern climates, it is an efficient vector of Dengue fever (also known as the descriptive Breakbone fever) and can also transmit EEE. As a mosquito that searches out containers to lay her eggs in, this species can be found in a variety of landscapes, including the New York Metro and Suburban Corridor regions.

New York Metro



Suburbia

