

NEW JERSEY STATEWIDE SURVEILLANCE

Week 22 Report for 28 May to 03 June, 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 boarders.

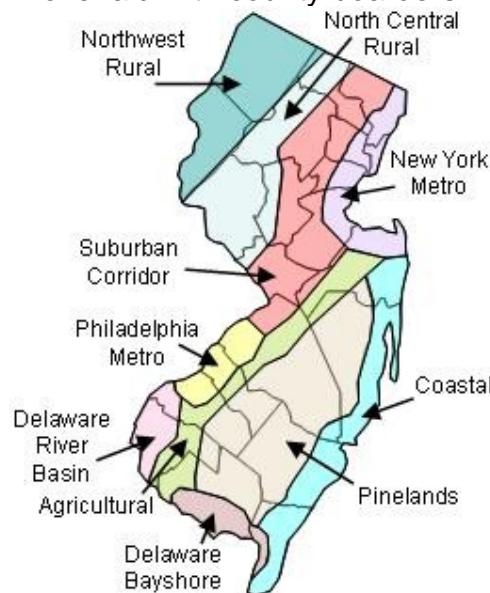
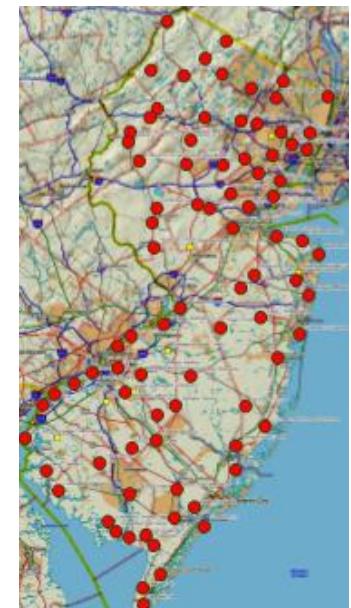


Figure 1b. Trap lat-long locations.



Summary table – Week 22

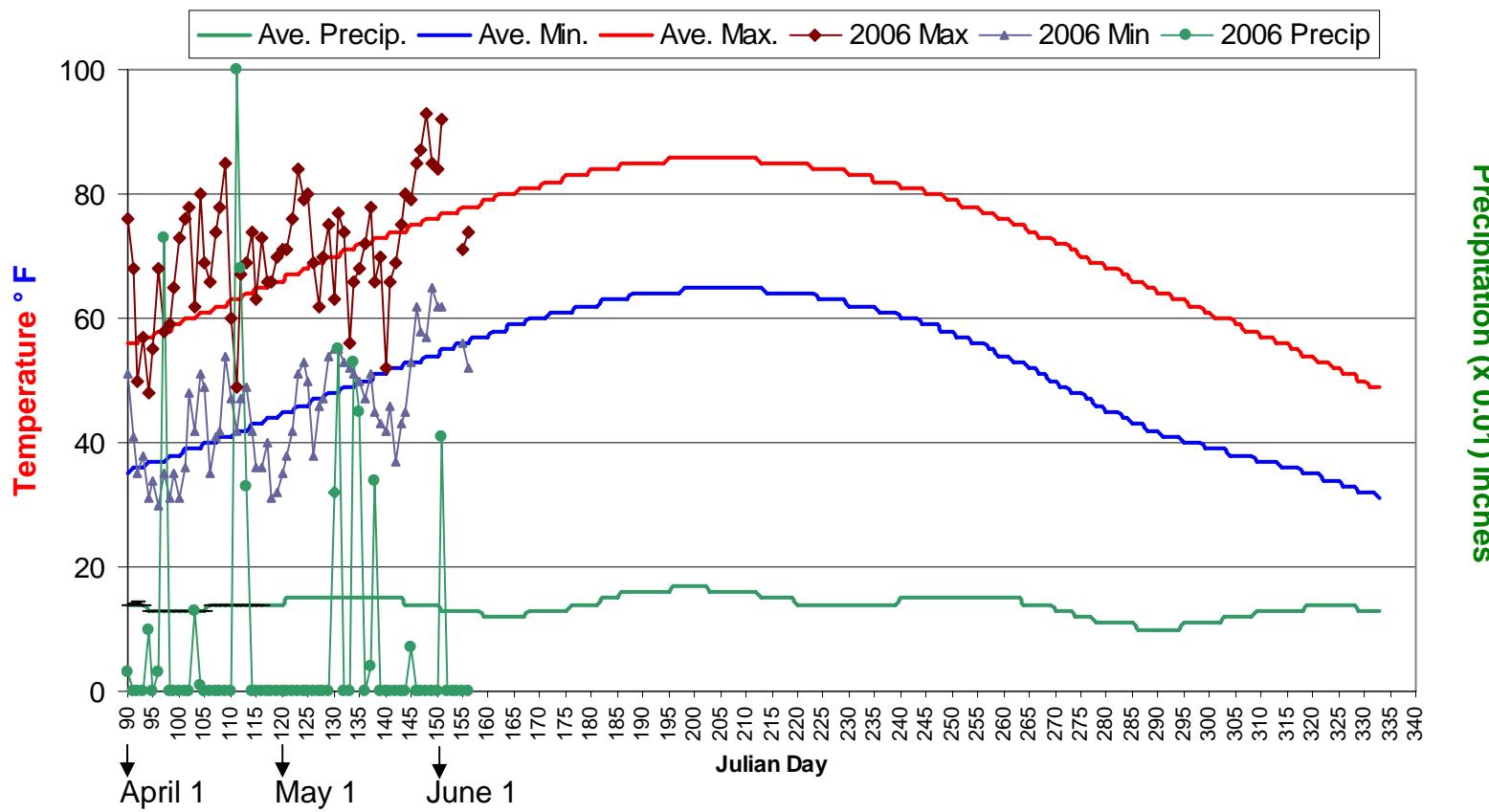
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	0.17	1.82	0.55	2.09	0.00	0.09	0.00	0.14
Coastal	0.71	2.60	1.33	1.42	0.02	0.22	1.89	0.61
Delaware Bayshore	1.10	5.25	0.57	4.83	0.07	0.44	1.02	4.64
Delaware River Basin	0.07	17.59	0.14	10.88	0.00	0.01	0.00	0.00
New York Metro	1.03	1.42	1.63	2.49	0.01	0.00	0.26	0.04
North Central Rural	0.00	0.35	0.16	0.25	0.00	0.00	0.00	0.00
Northwest Rural	15.17	2.81	1.33	1.05	0.00	0.04	0.00	0.00
Philadelphia Metro	0.23	6.59	0.71	4.36	0.03	0.70	0.00	0.00
Pinelands	0.00	9.90	0.06	1.68	0.00	0.09	0.03	0.02
Suburban Corridor	0.74	1.75	1.05	1.94	0.10	0.00	0.00	0.00

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

15 of 21 counties in current week; 18 of 21 counties reporting.

Climate Data

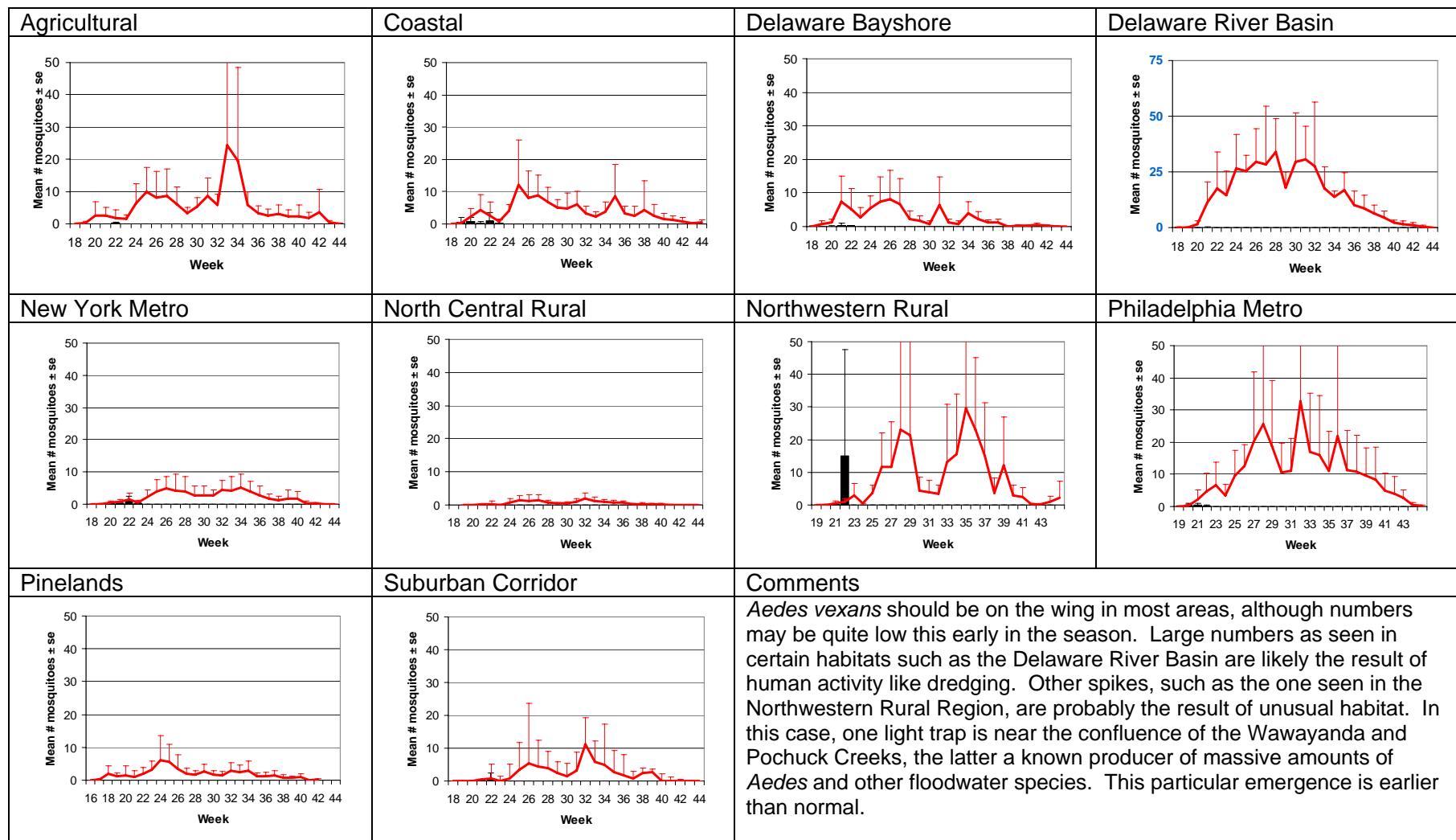
New Brunswick 1971-2000 Historical/Hillsborough 2006



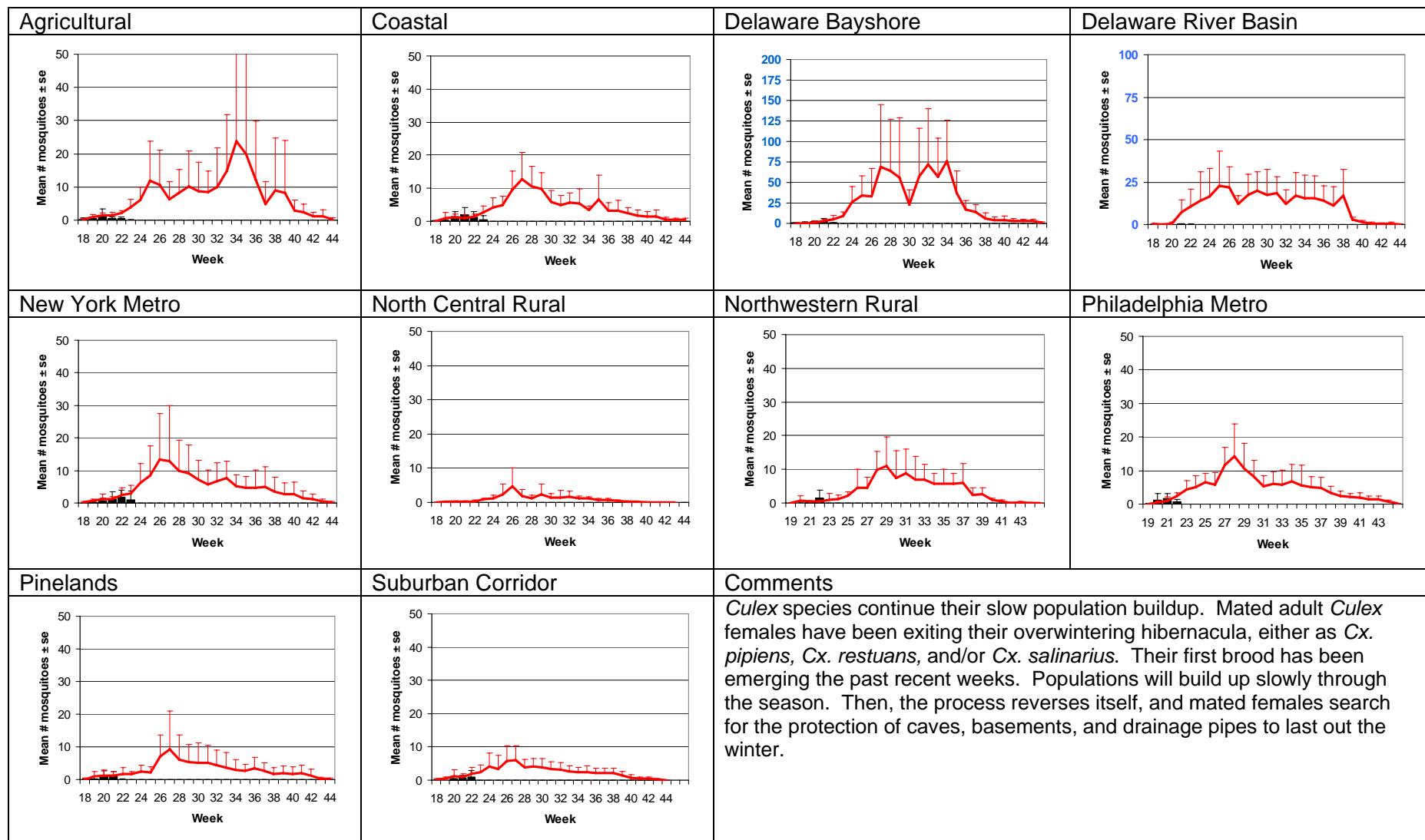
This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station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

Over the past week, some areas of the state had received a considerable amount of rain. This is not reflected in the above graph, partially because there is a gap of missing data. This illustrates the inadequacy of the current graph and what it is trying to convey. Current conversations with the State Climatologist should lead to a solution.

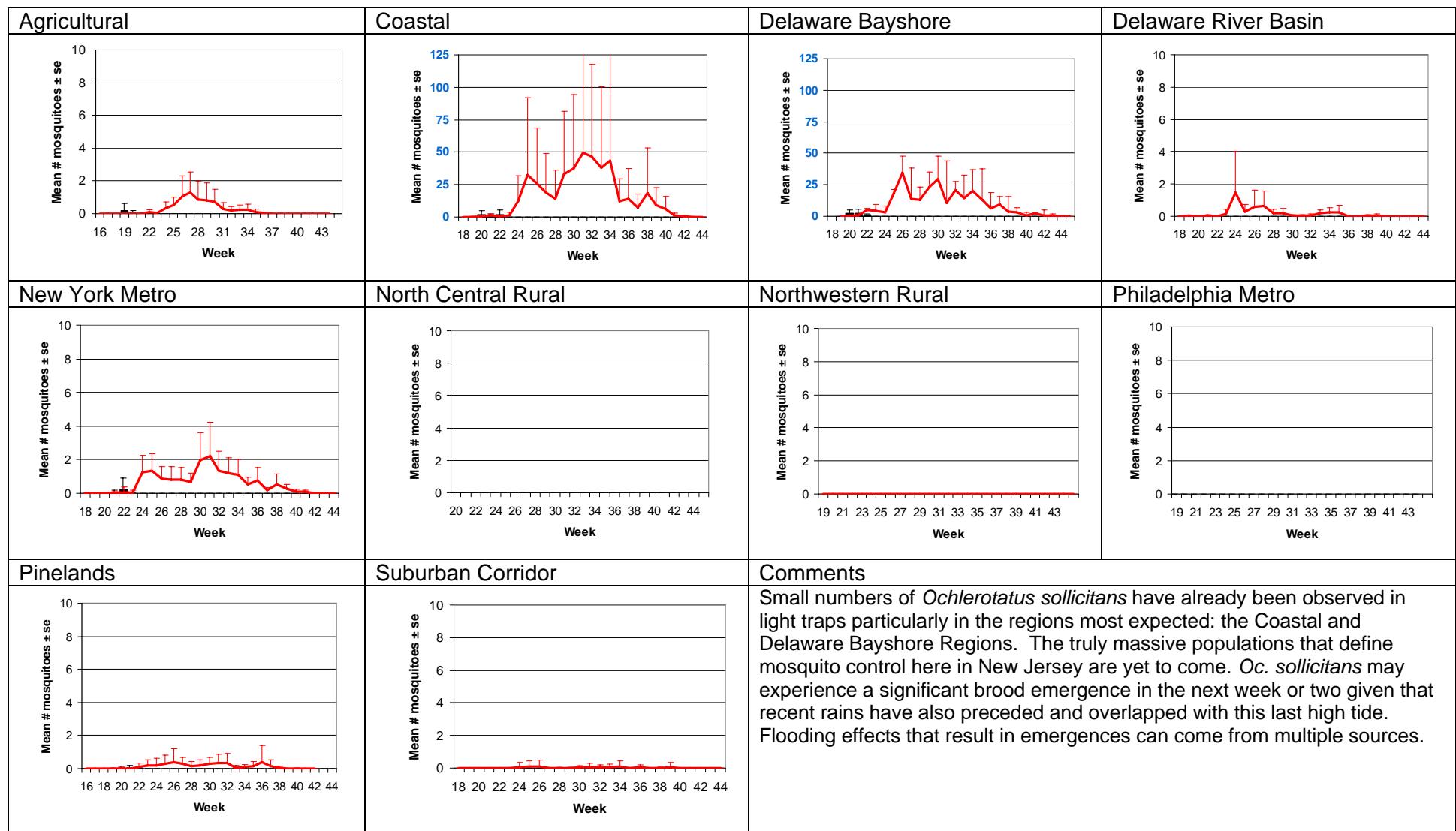
Aedes vexans - Fresh Floodwater Species



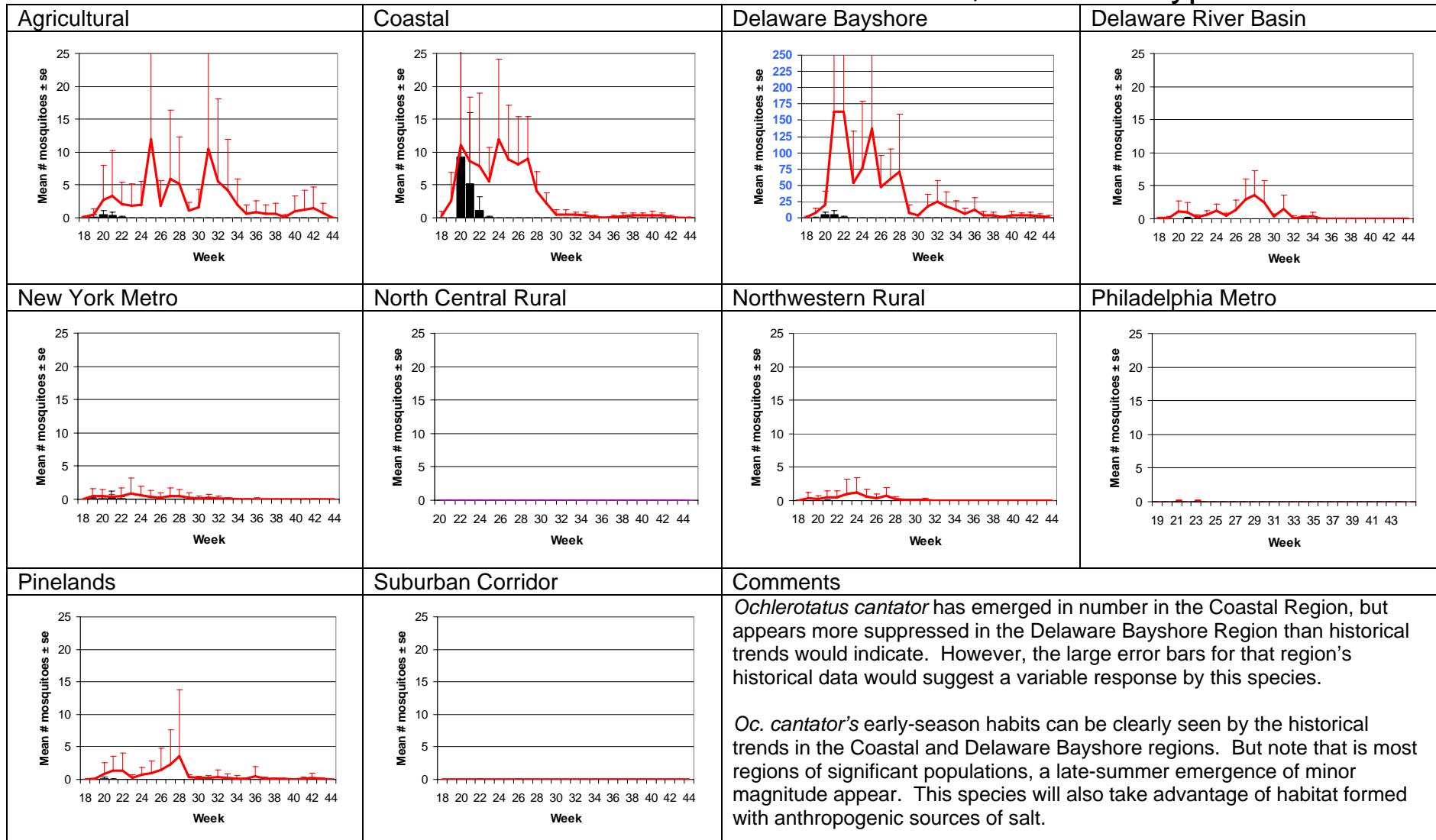
Culex Complex - Multivoltine Culex Species



Ochlerotatus sollicitans - Salt Marsh Floodwater Species



Ochlerotatus cantator – Multivoltine Aedine, sollicitans type



Culiseta melanura – Miscellaneous Group

