

NEW JERSEY STATEWIDE SURVEILLANCE

Week 23 Report for 01 June to 07 June, 2005

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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.

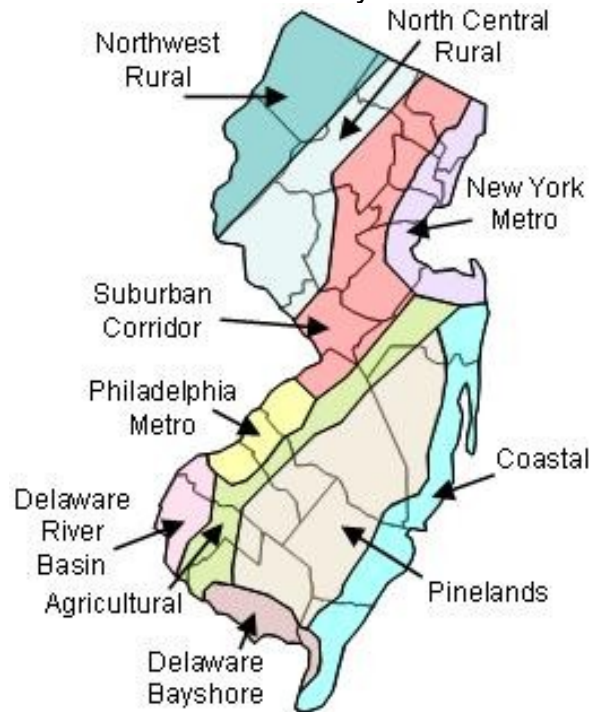


Figure 1b. Trap lat-long locations.



Summary table – Week 23

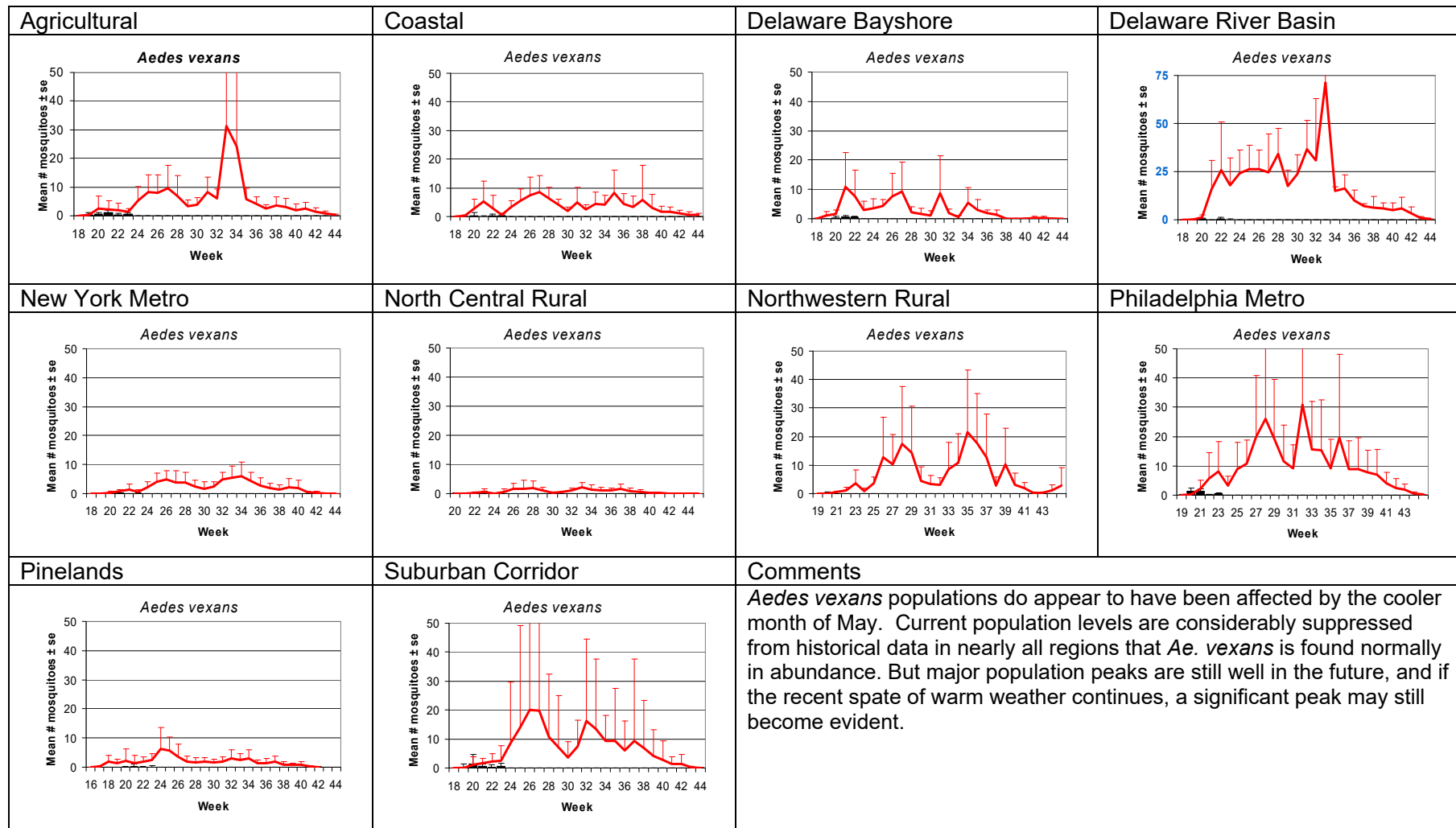
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	0.48	1.33	0.79	4.22	0.00	0.05	0.00	0.36
Coastal	0.14	0.62	0.11	3.34	0.00	0.34	0.06	2.80
Delaware Bayshore	0.00	2.93	3.02	11.51	0.00	4.07	2.26	3.54
Delaware River Basin	0.18	17.89	0.21	18.55	0.00	0.14	0.00	0.14
New York Metro	0.04	0.58	0.76	3.15	0.00	0.01	0.01	0.13
North Central Rural	0.27	0.05	0.20	0.46	0.00	0.00	0.00	0.00
Northwest Rural	0.00	0.19	0.00	1.27	0.00	0.00	0.00	0.00
Philadelphia Metro	0.57	3.22	0.33	4.71	0.02	0.16	0.00	0.00
Pinelands	0.13	1.31	0.29	2.11	0.00	0.19	0.00	0.02
Suburban Corridor	0.55	2.55	0.86	3.35	0.00	0.40	0.00	0.00

Please Note: Historical data is being entered and not yet complete. These values and graphics will change as more data is entered.

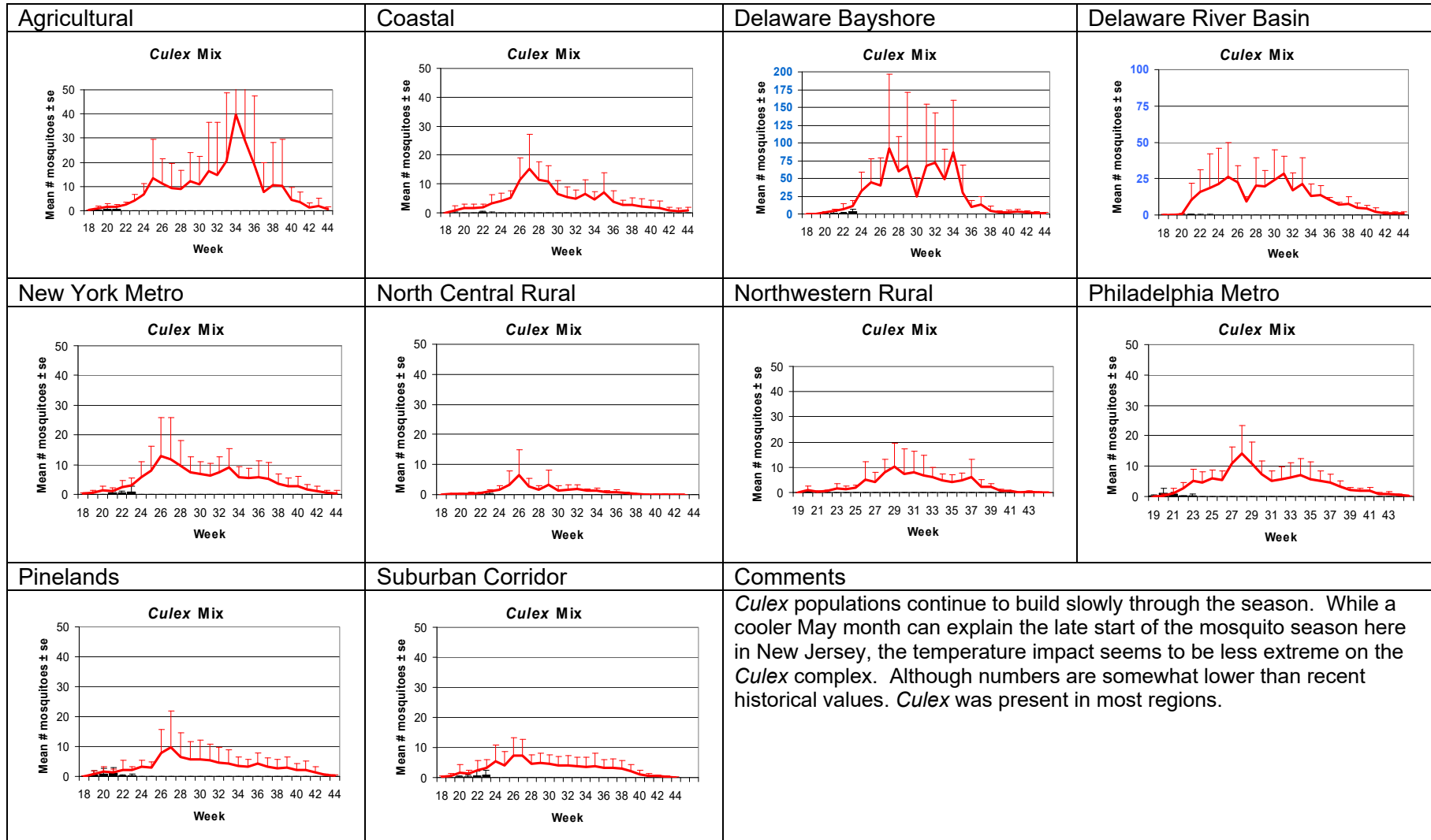
Graphs include *Ae. vexans*, *Culex complex* (*Cx. pipiens*, *Cx. restuans*, and *Cx. salinarius*), *Oc. sollicitans*, *Cs. melanura*, *Oc. japonicus*, and *Oc. cantator*.

11 of 21 counties in current week; 16 of 21 counties reporting.

Aedes vexans - Fresh Floodwater Species



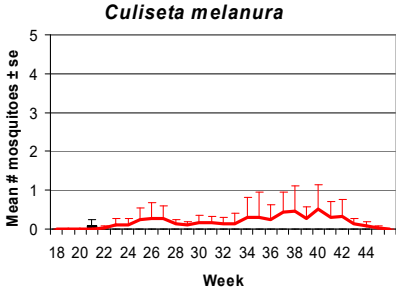
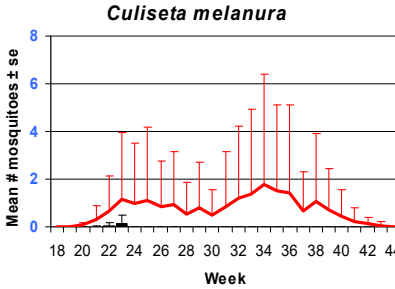
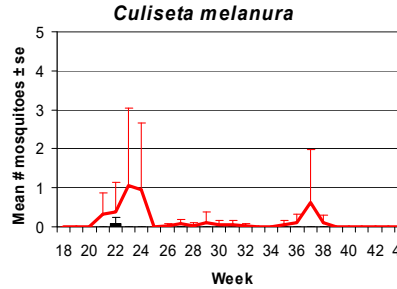
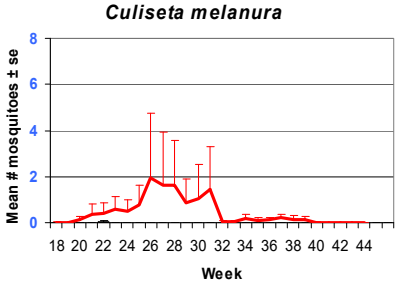
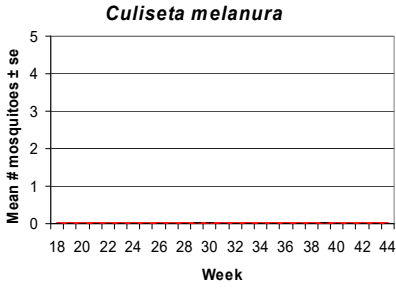
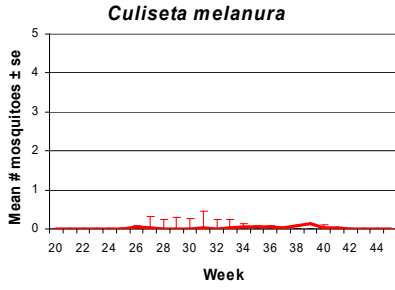
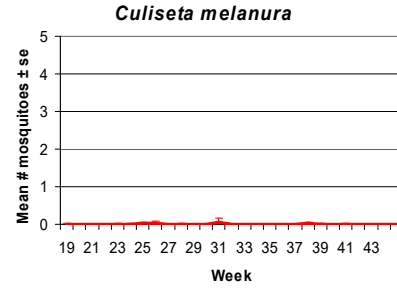
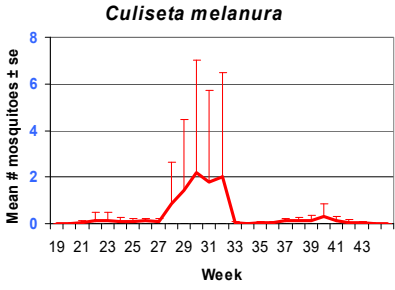
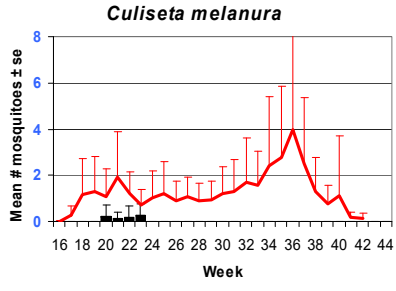
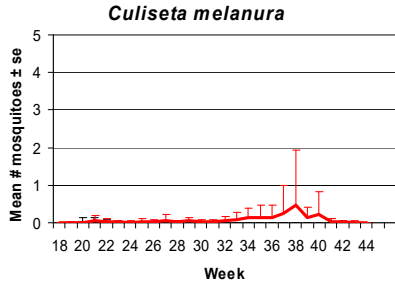
Culex Complex - Multivoltine Culex Species



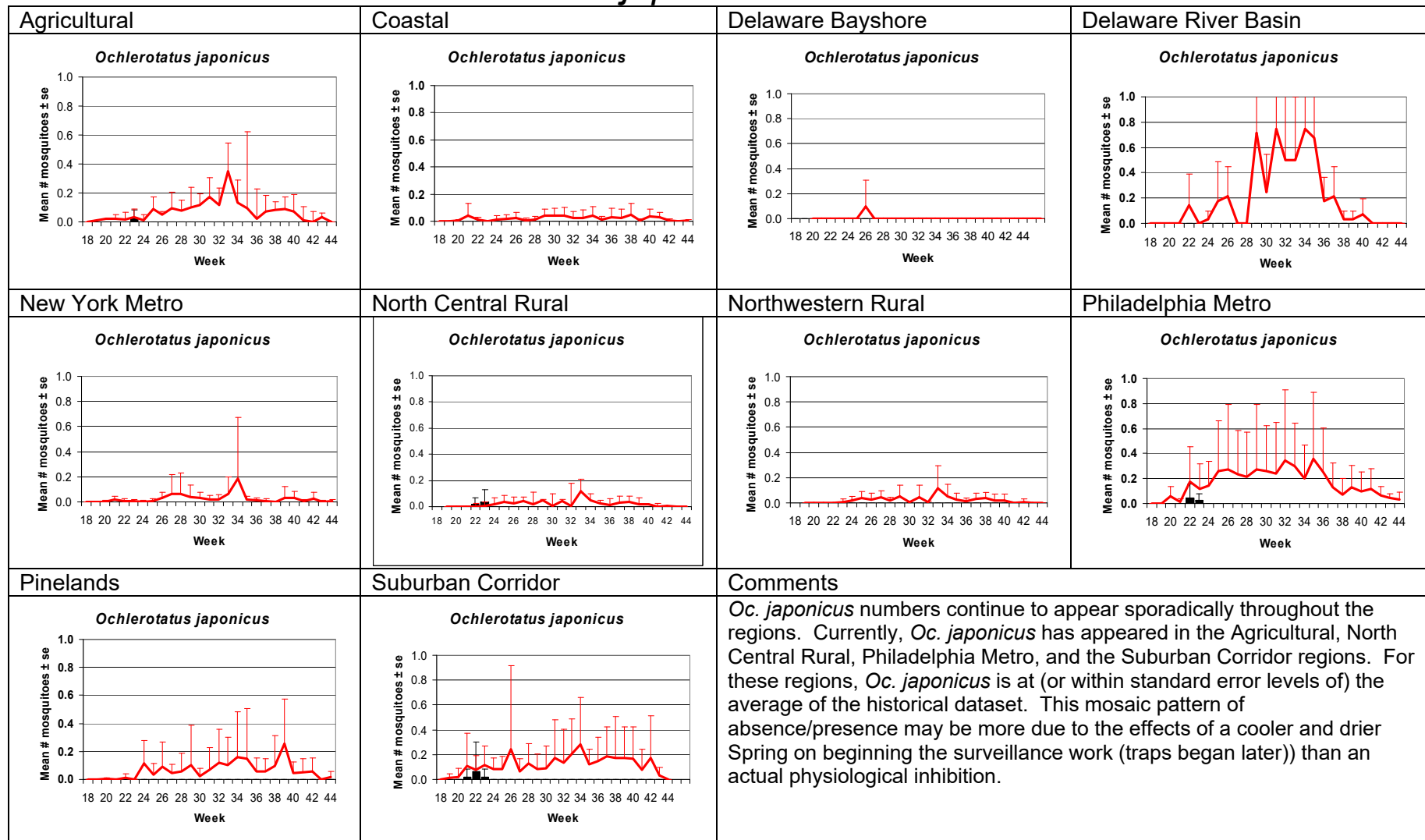
Ochlerotatus sollicitans - Salt Marsh Floodwater Species

Agricultural <i>Ochlerotatus sollicitans</i>	Coastal <i>Ochlerotatus sollicitans</i>	Delaware Bayshore <i>Ochlerotatus sollicitans</i>	Delaware River Basin <i>Ochlerotatus sollicitans</i>
New York Metro <i>Ochlerotatus sollicitans</i>	North Central Rural <i>Ochlerotatus sollicitans</i>	Northwestern Rural <i>Ochlerotatus sollicitans</i>	Philadelphia Metro <i>Ochlerotatus sollicitans</i>
Pinelands <i>Ochlerotatus sollicitans</i>	Suburban Corridor <i>Ochlerotatus sollicitans</i>	Comments <i>Ochlerotatus sollicitans</i> are being reported in the Coastal region but due to timing, are not included in this dataset. These adults are likely those that hatched around the previous full moon (23rd May). The next lunar tide was on the 6th of June, and coincided with sporadic rainfall that may have contributed to flooding effects. .	

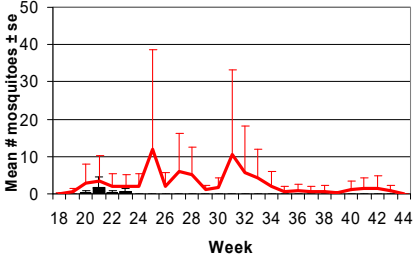
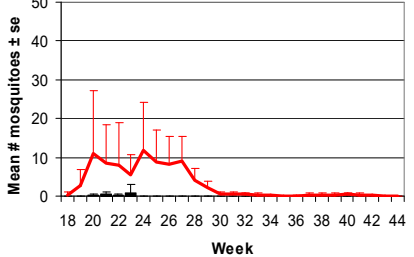
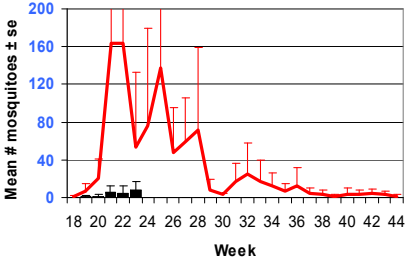
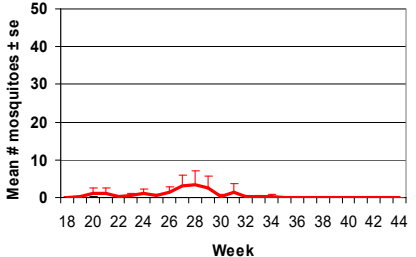
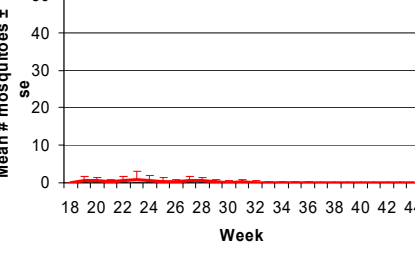
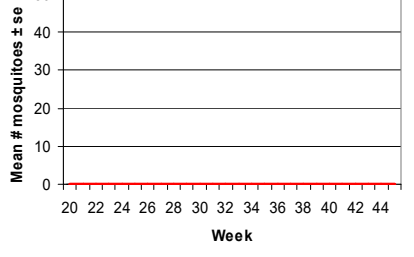
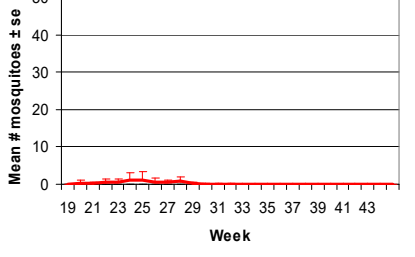
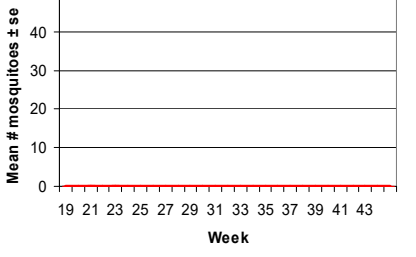
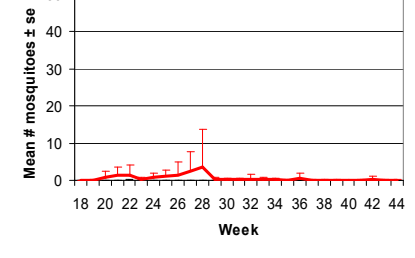
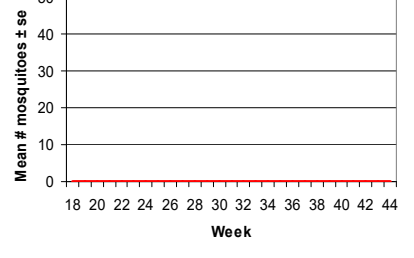
Culiseta melanura – Miscellaneous Group

Agricultural 	Coastal 	Delaware Bayshore 	Delaware River Basin 
New York Metro 	North Central Rural 	Northwestern Rural 	Philadelphia Metro 
Pinelands 	Suburban Corridor 	Comments <i>Culiseta melanura</i> larval populations remain at low levels as compared to recent historical trends for the Pinelands, Coastal, and Delaware River Basin. Vector Surveillance reports will be coming out soon, and population levels in their preferred trap (resting boxes) should give an indication on the extent of any ongoing population depression.	

Ochlerotatus japonicus – Multivoltine Aedine



Ochlerotatus cantator – Saltmarsh Floodwater Species

Agricultural <i>Ochlerotatus cantator</i> 	Coastal <i>Ochlerotatus cantator</i> 	Delaware Bayshore <i>Ochlerotatus cantator</i> 	Delaware River Basin <i>Ochlerotatus cantator</i> 
New York Metro <i>Ochlerotatus cantator</i> 	North Central Rural <i>Ochlerotatus cantator</i> 	Northwestern Rural <i>Ochlerotatus cantator</i> 	Philadelphia Metro <i>Ochlerotatus cantator</i> 
Pinelands <i>Ochlerotatus cantator</i> 	Suburban Corridor <i>Ochlerotatus cantator</i> 	Comments <i>Oc. cantator</i> continues to be the indicator of the suppressive effects of drier and cooler weather during the past month. Populations are significantly down in those areas with normally abundant numbers, such as in the Delaware Bayshore and Coastal regions. With the emergence of other salt marsh floodwater species such as <i>Oc. sollicitan</i>, competition will likely be tight. A late season emergence is always a possibility with <i>Oc. cantator</i>.	