

NEW JERSEY STATEWIDE SURVEILLANCE

Week 25 Report for 15 June to 21 June, 2005

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.

This is New Jersey Agricultural Experiment Station publication No. PT-08-40500-27-05 supported by Hatch funds and funding from the NJ State Mosquito Control Commission. Prepared by Lisa M. Reed.

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

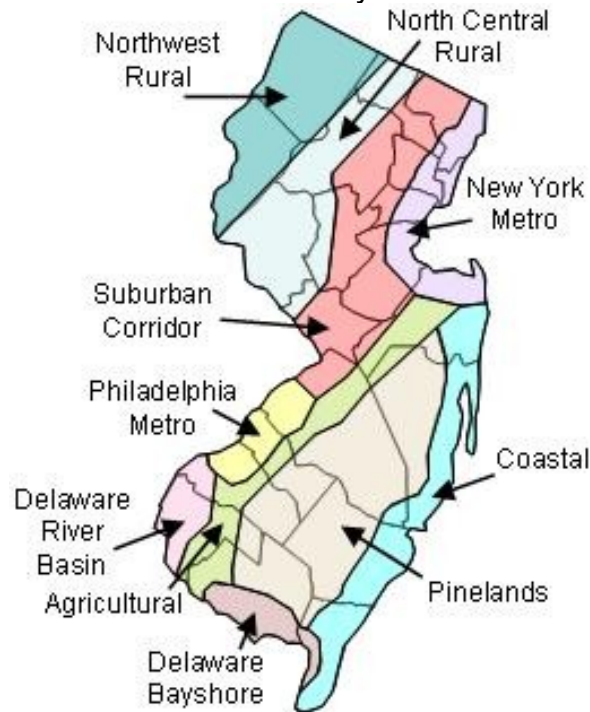


Figure 1b. Trap lat-long locations.



Summary table – Week 25

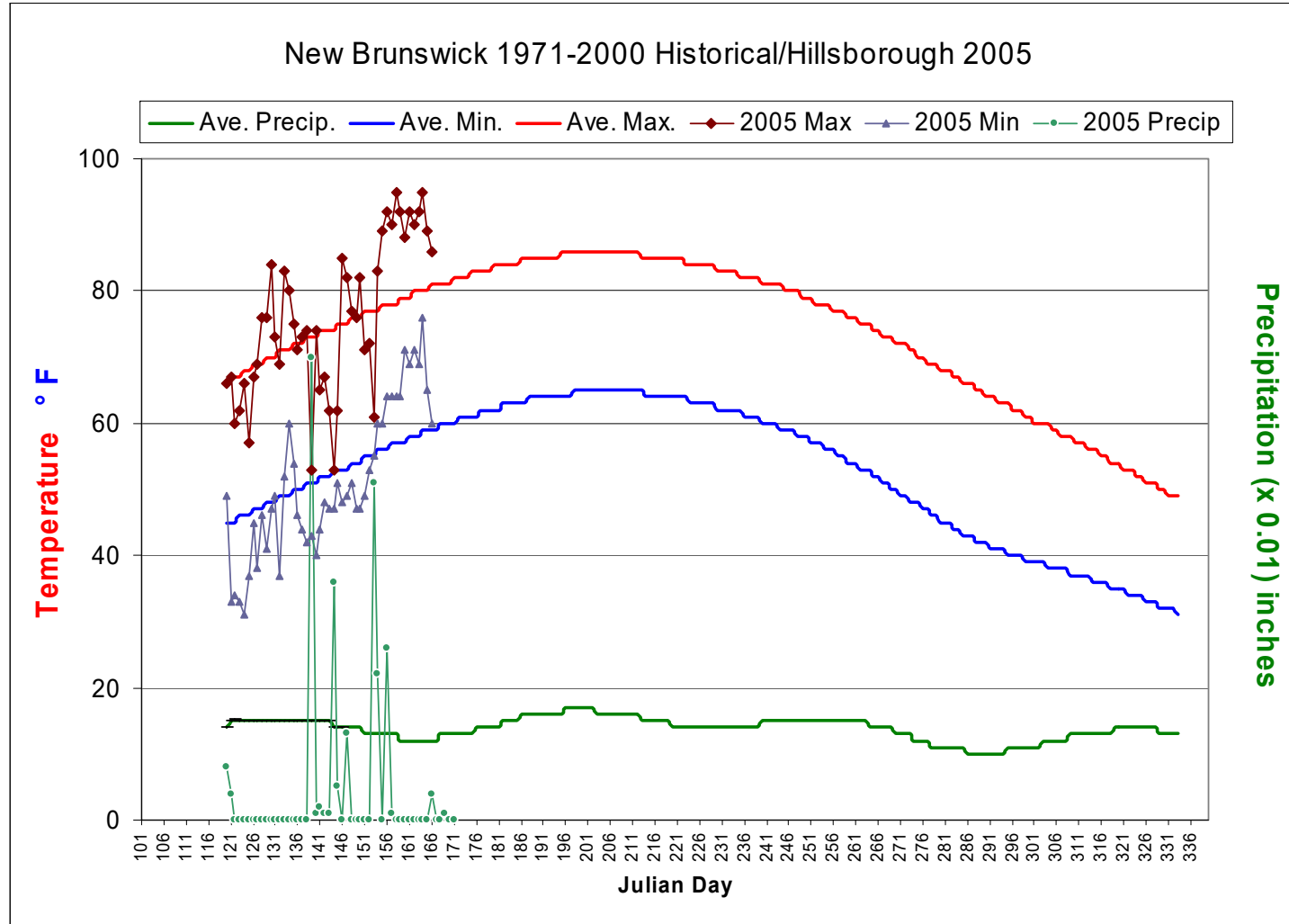
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	3.40	8.26	1.31	13.50	0.60	0.45	0.00	0.33
Coastal	21.44	5.45	1.60	5.42	2.84	0.56	0.05	26.59
Delaware Bayshore	13.48	4.32	13.19	44.90	0.57	2.82	19.88	41.79
Delaware River Basin	0.54	26.05	0.07	26.11	0.00	0.06	0.00	0.25
New York Metro	0.33	4.00	1.91	8.05	0.03	0.15	0.16	1.05
North Central Rural	0.24	1.50	0.49	1.50	0.00	0.05	0.00	0.00
Northwest Rural	3.24	12.80	0.43	5.18	0.17	0.85	0.00	0.00
Philadelphia Metro	11.09	10.76	2.38	5.52	8.55	0.57	0.00	0.00
Pinelands	2.39	2.52	1.09	2.86	1.03	0.87	0.31	0.24
Suburban Corridor	2.56	8.64	1.92	4.03	0.03	1.79	0.00	0.13

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*, *Cq.perturbans* and *Cs. melanura*

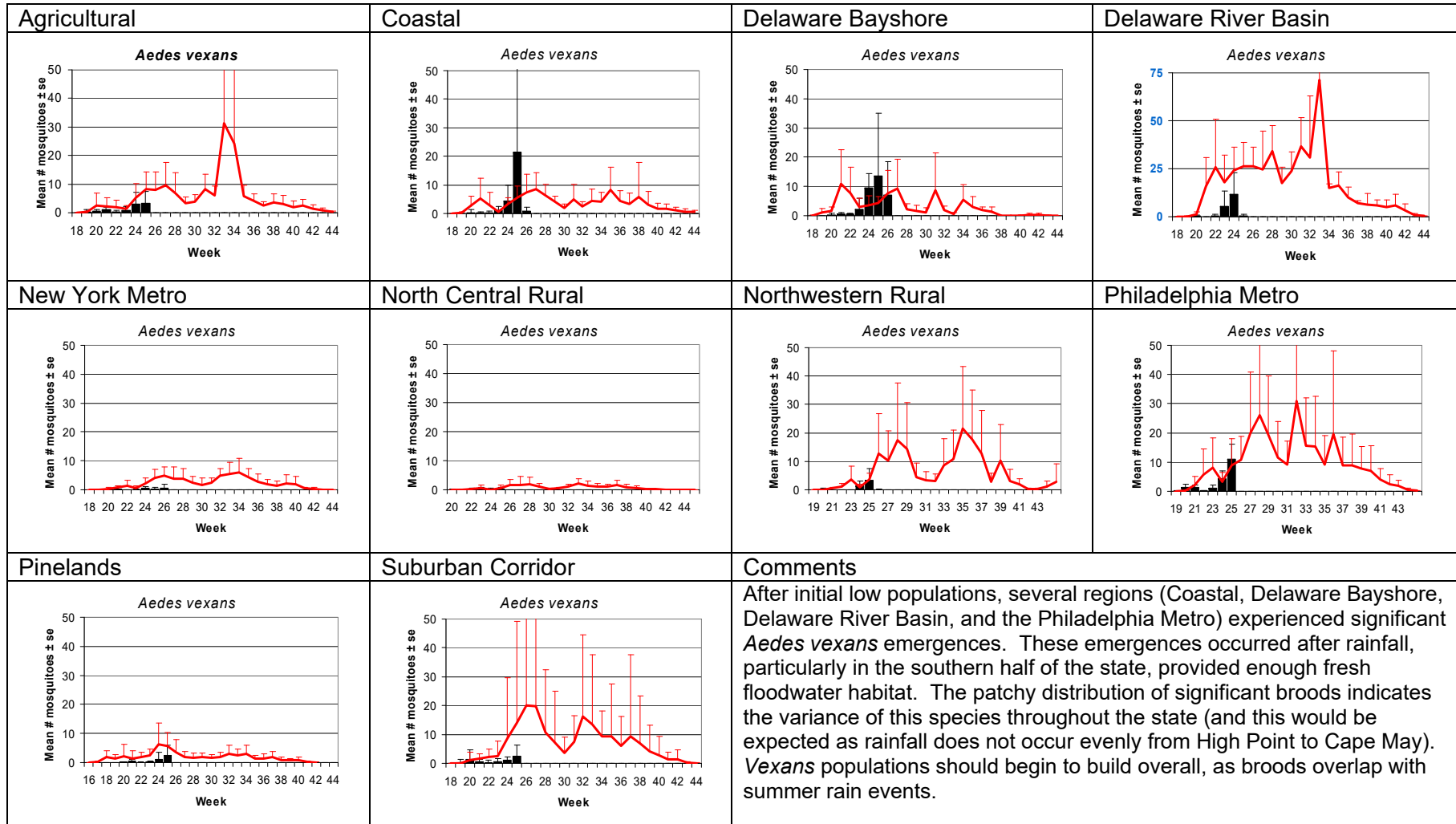
17 of 21 counties in current week; 20 of 21 counties reporting.

Climatic Data

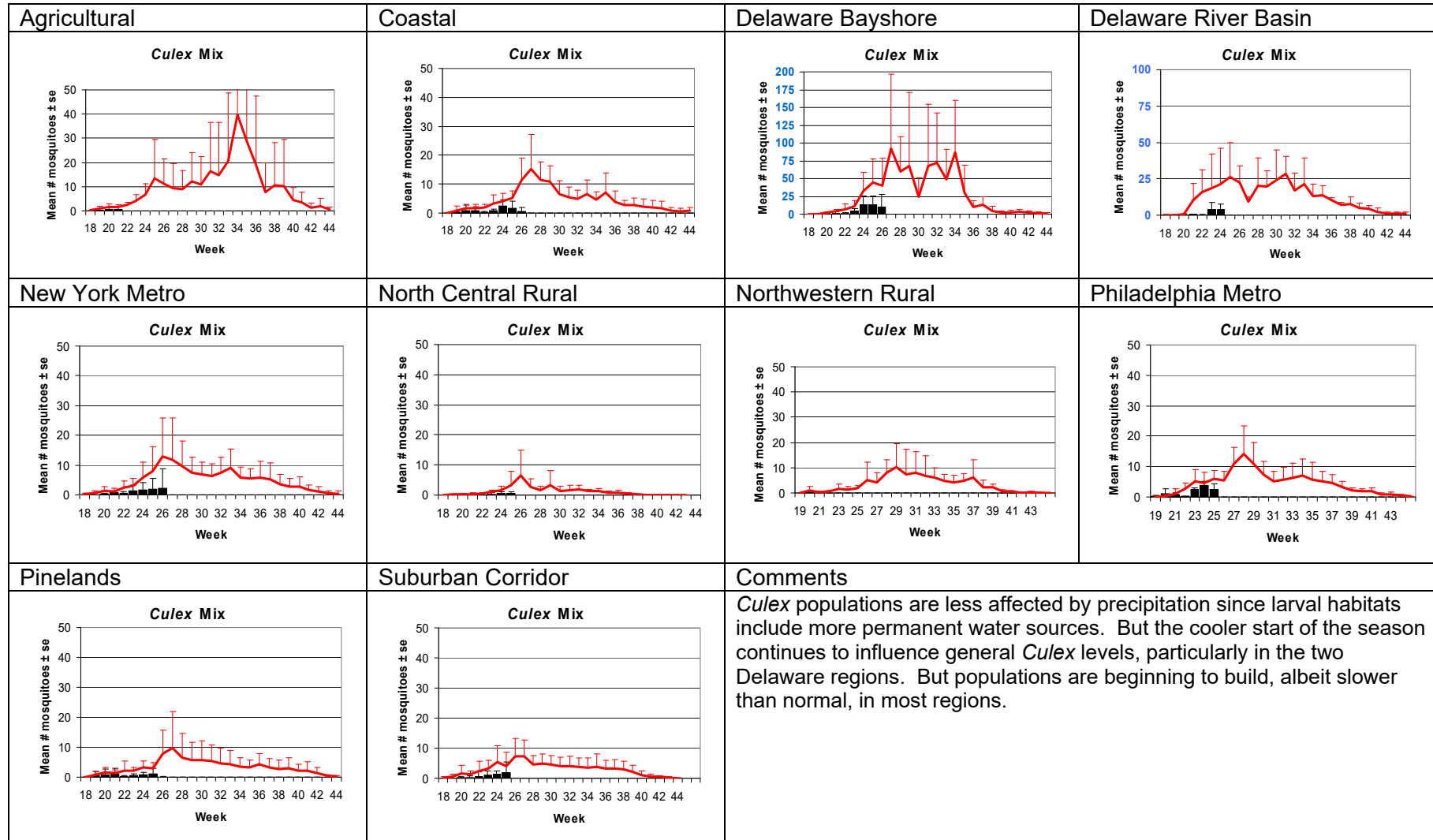


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station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

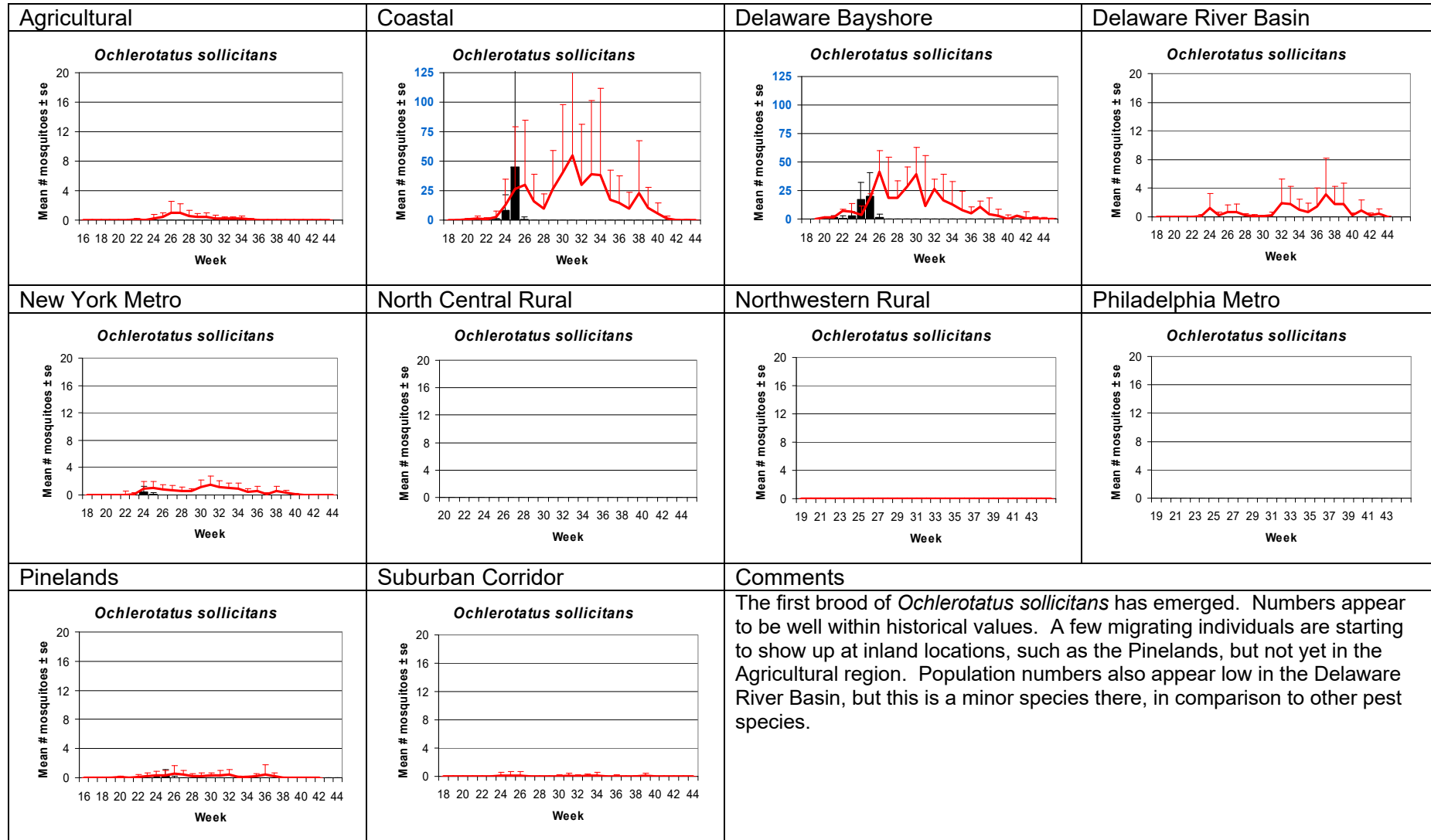
Aedes vexans - Fresh Floodwater Species



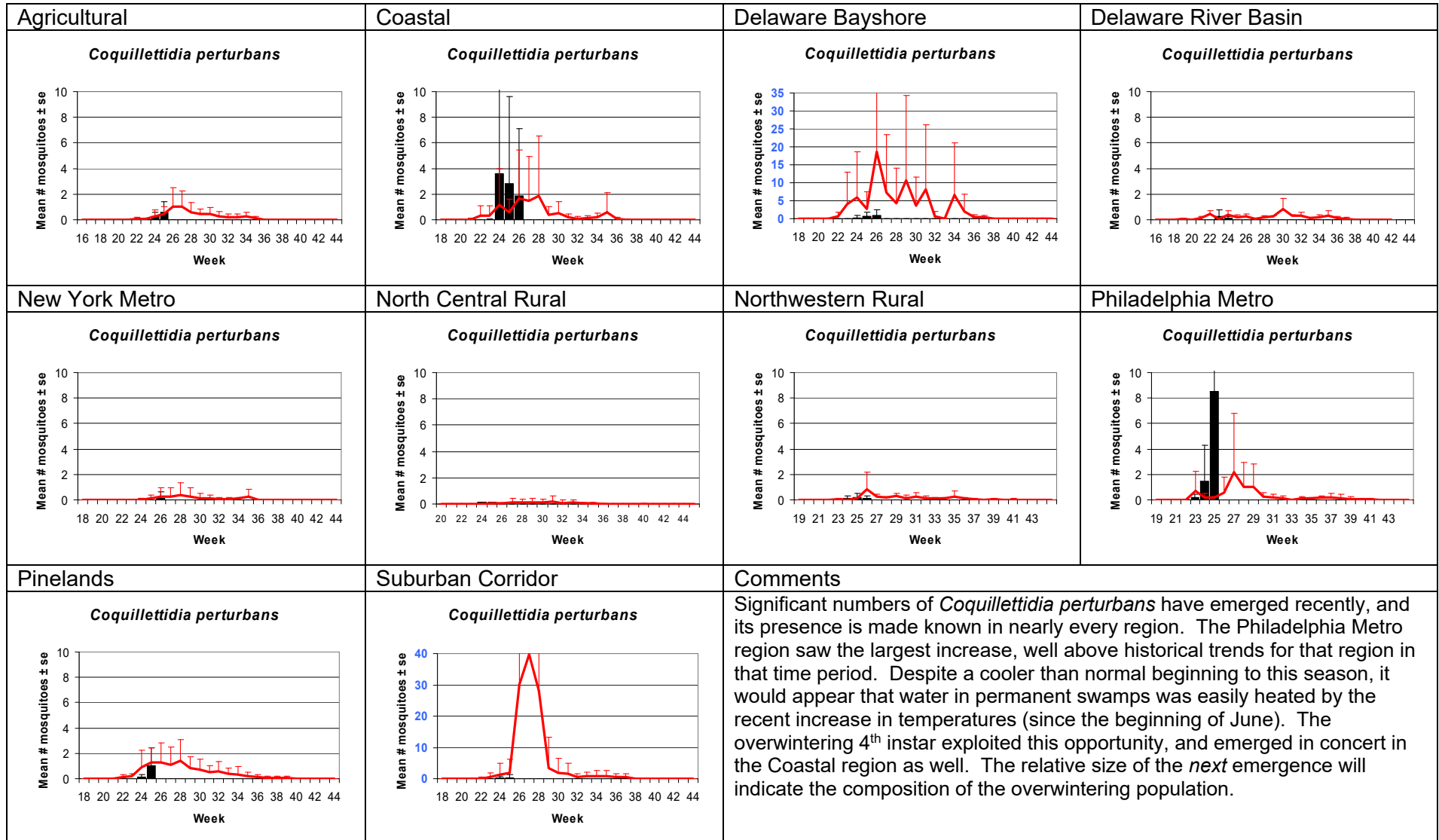
Culex Complex - Multivoltine Culex Species



Ochlerotatus sollicitans - Salt Marsh Floodwater Species



Coquillettidia perturbans – Monotypic (*perturbans*) Species



Culiseta melanura – Miscellaneous Group

