

NEW JERSEY STATEWIDE SURVEILLANCE

Week 28 Report for 06 July to 12 July, 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-08-40500-30-05 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.

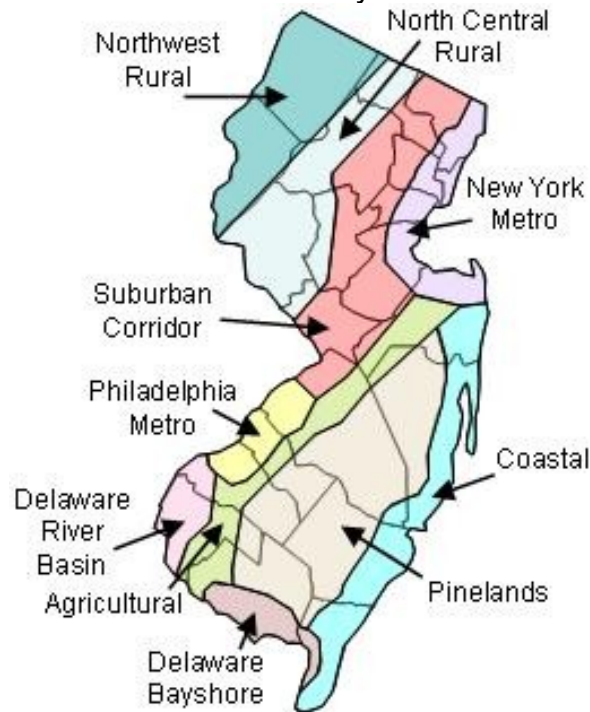


Figure 1b. Trap lat-long locations.



Summary table – Week 28

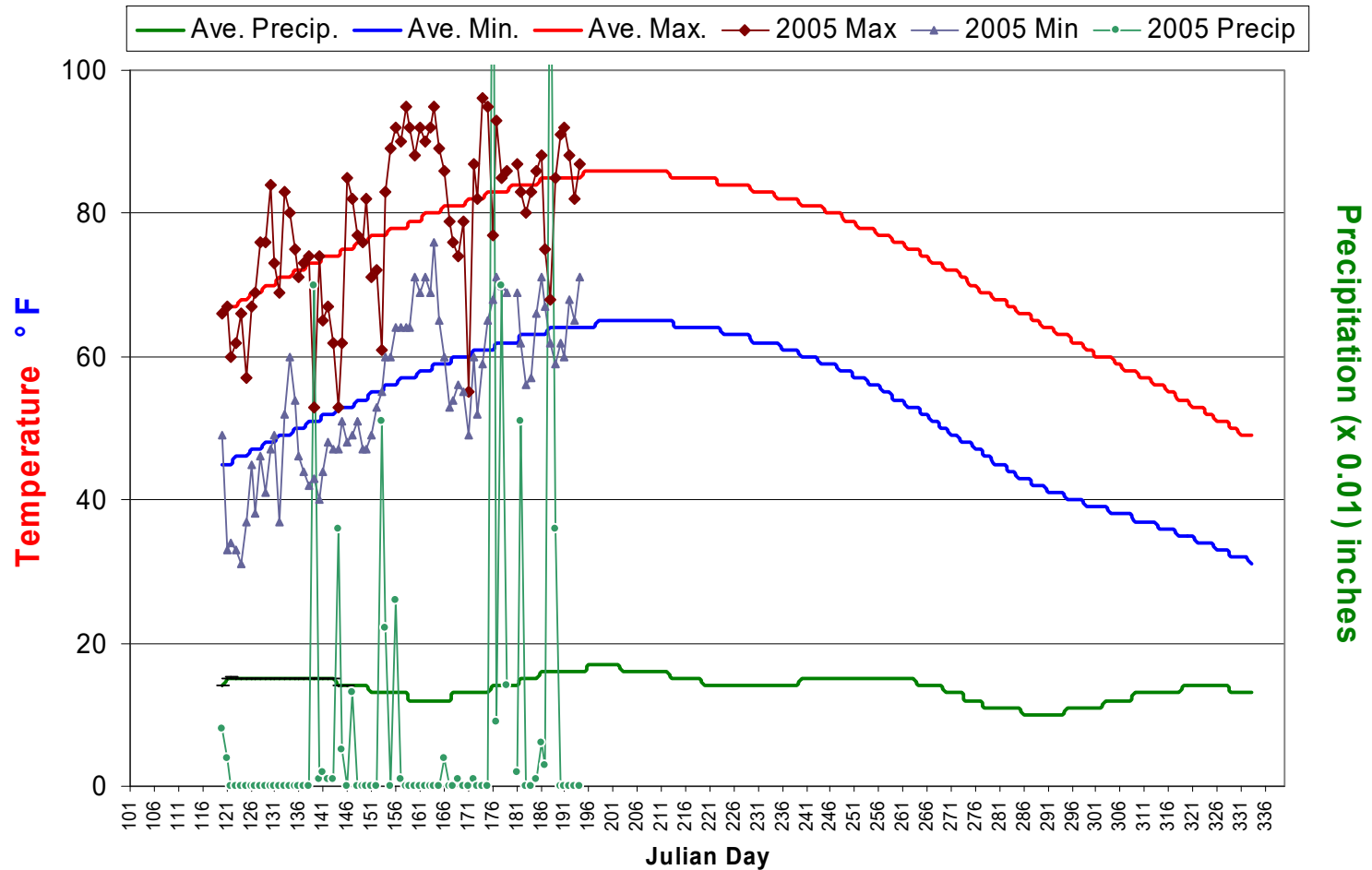
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	1.17	6.99	0.55	9.02	1.38	0.61	0.10	0.79
Coastal	1.10	6.32	3.41	11.39	3.92	1.87	22.44	9.56
Delaware Bayshore	1.98	2.26	67.81	59.51	5.17	4.38	9.74	28.27
Delaware River Basin	2.61	33.97	1.43	20.36	0.68	0.28	0.00	0.21
New York Metro	0.21	3.75	4.71	9.67	0.09	0.39	0.09	0.61
North Central Rural	0.04	1.09	0.29	2.61	0.10	0.13	0.00	0.00
Northwest Rural	2.33	14.32	0.76	10.37	0.29	0.29	0.00	0.00
Philadelphia Metro	1.37	19.41	1.86	10.88	1.67	1.06	0.00	0.00
Pinelands	0.53	3.50	0.96	6.56	4.04	1.42	0.29	0.56
Suburban Corridor	0.63	10.70	0.73	4.46	0.27	28.16	0.00	0.01

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

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

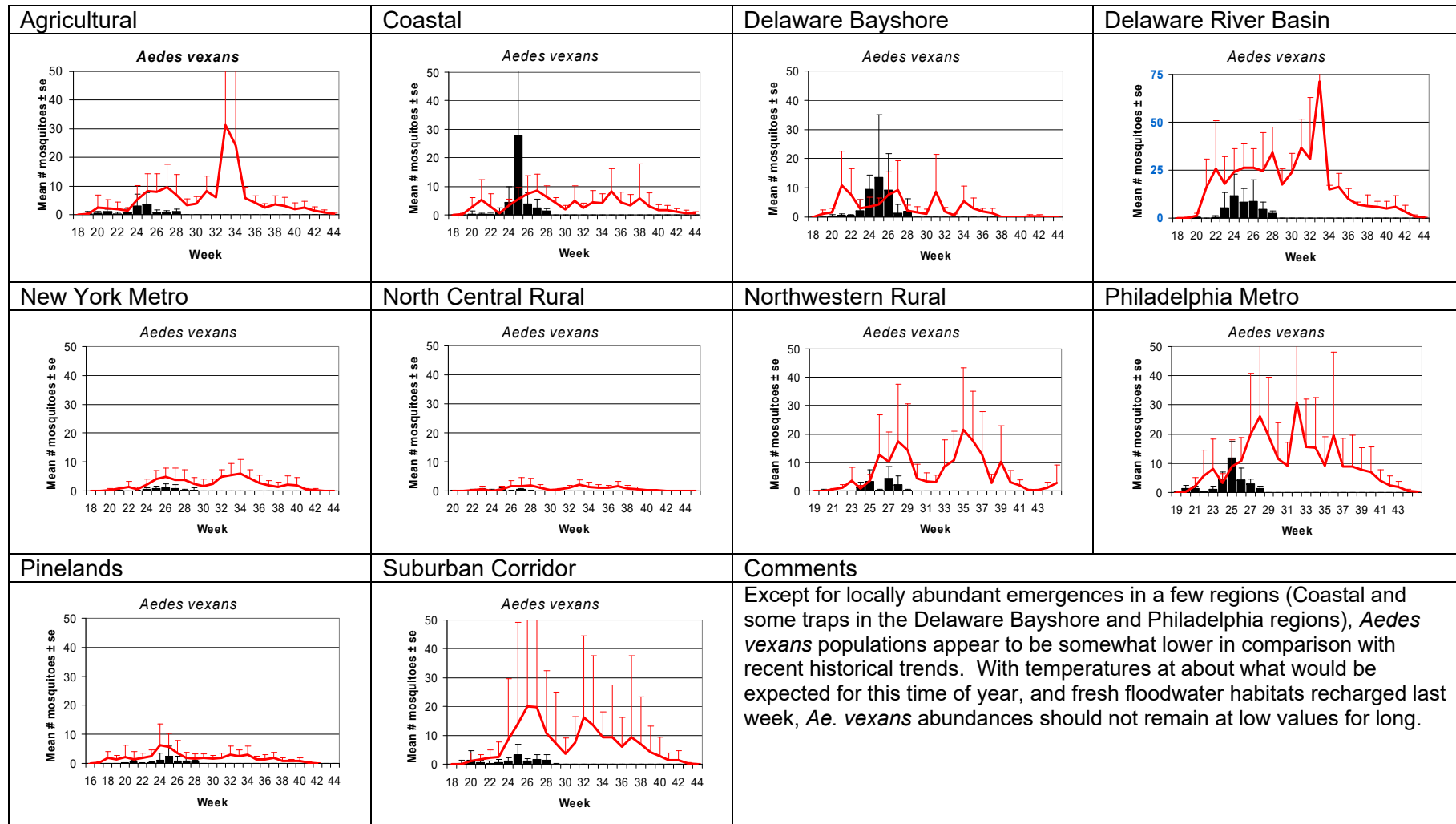
Climate Data

New Brunswick 1971-2000 Historical/Hillsborough 2005

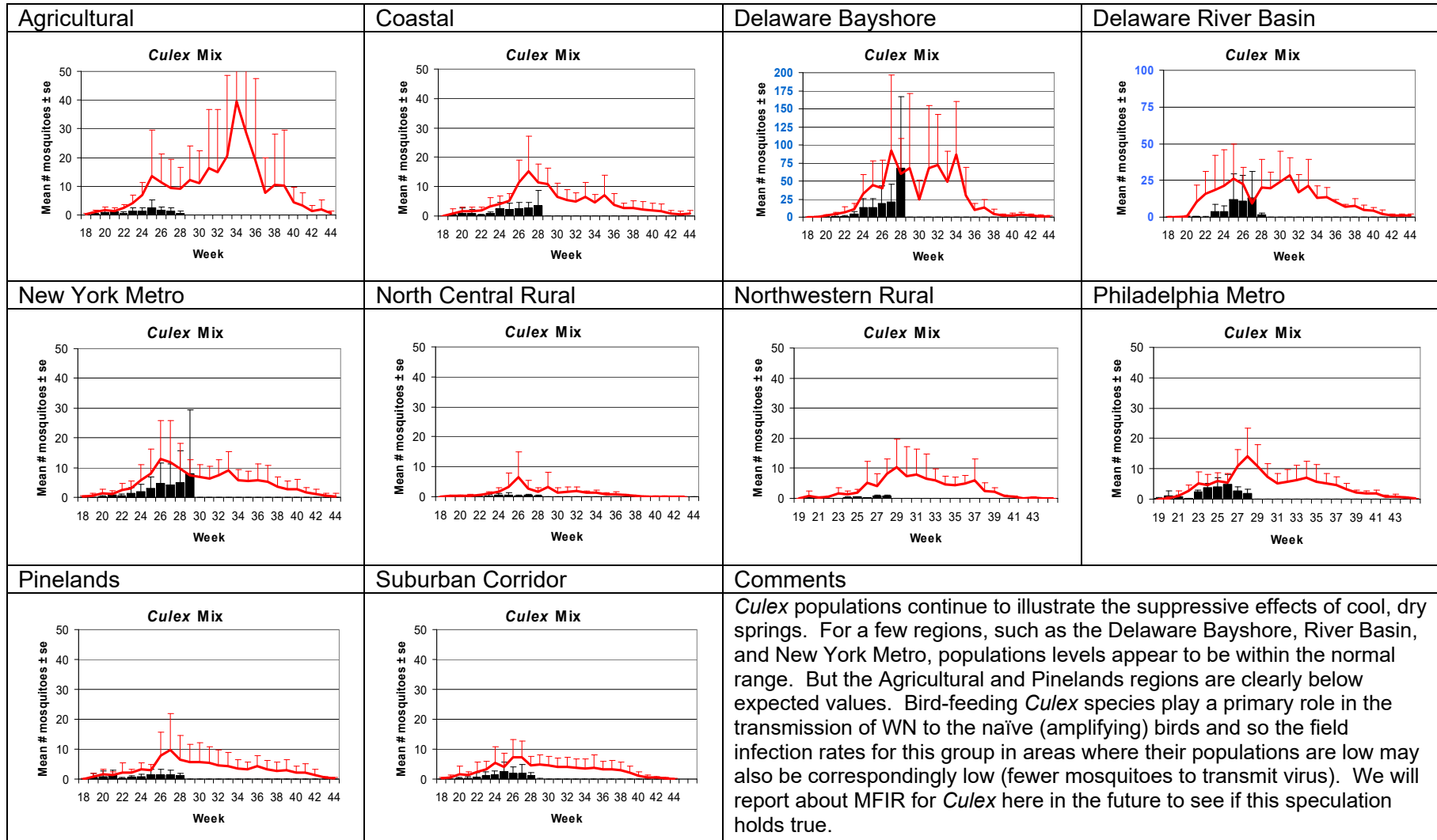


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station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

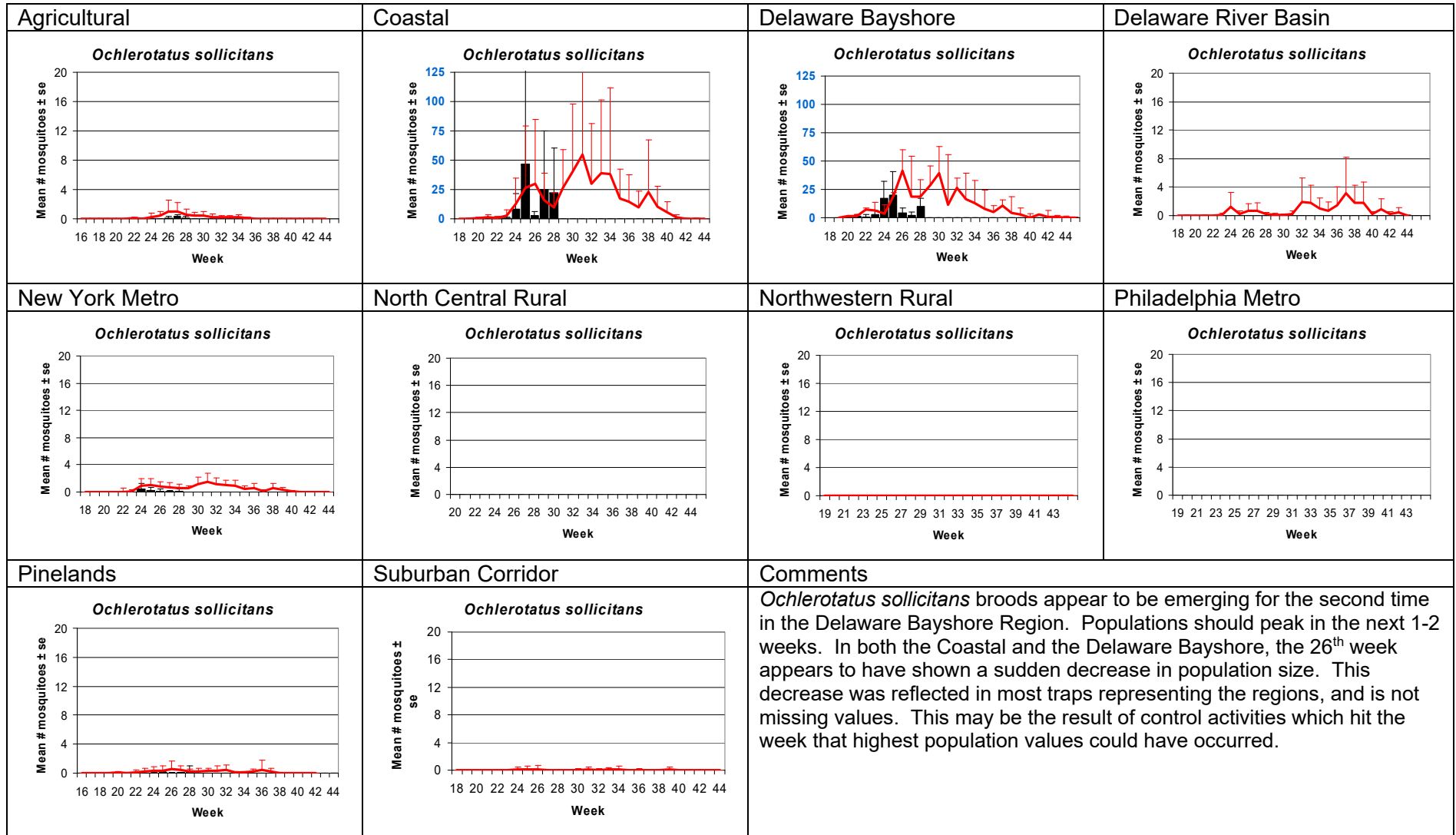
Aedes vexans - Fresh Floodwater Species



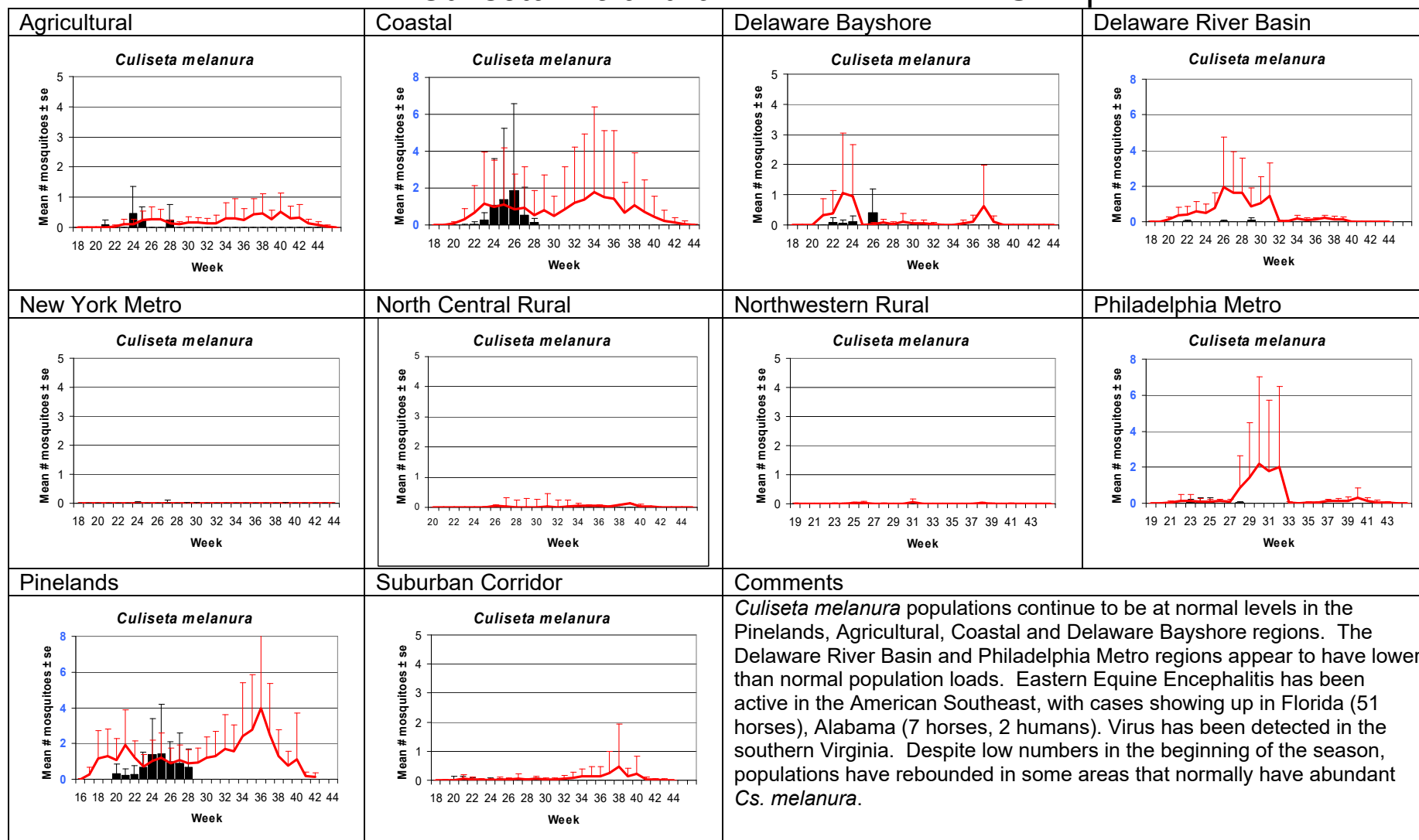
Culex Complex - Multivoltine Culex Species



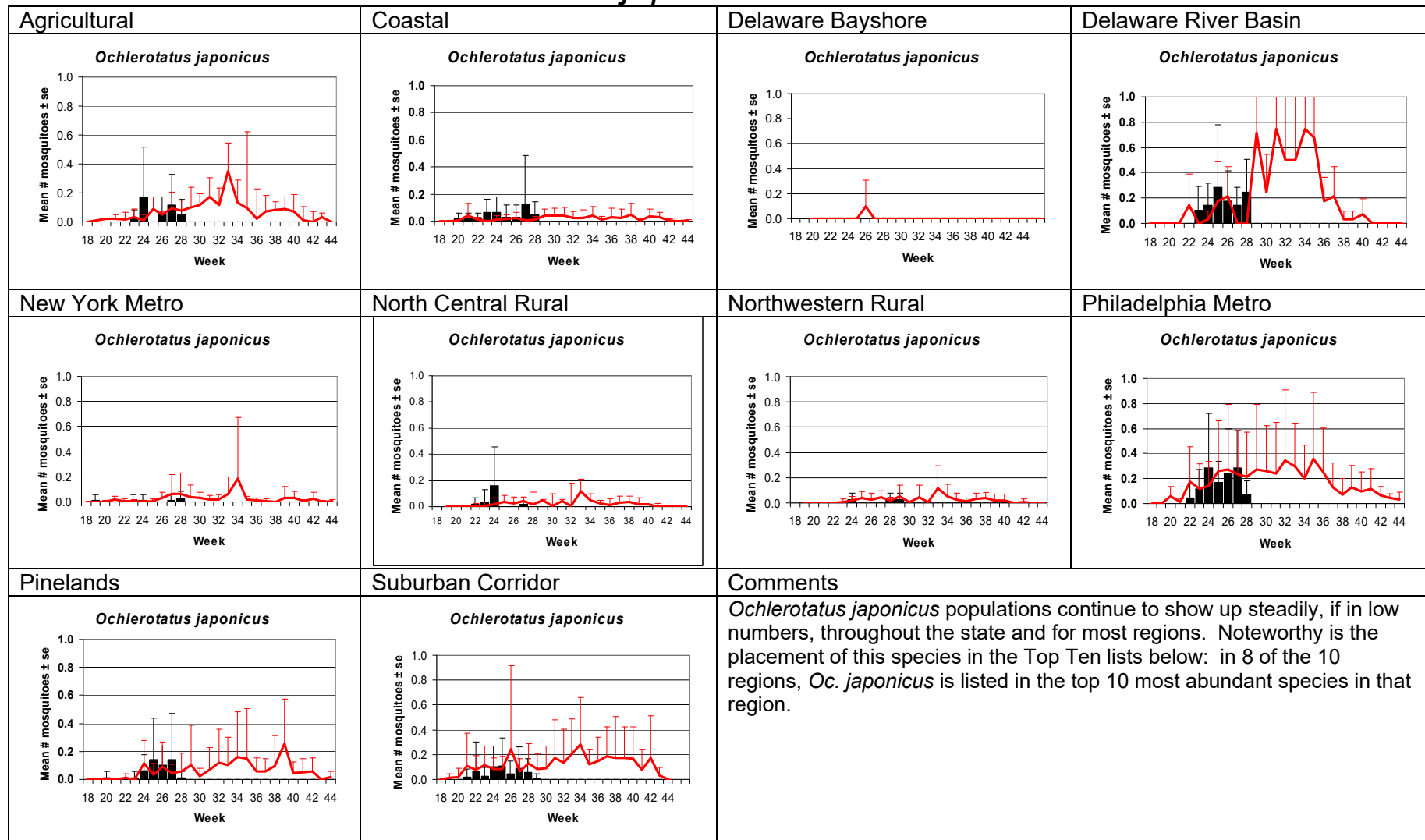
Ochlerotatus sollicitans - Salt Marsh Floodwater Species



Culiseta melanura – Miscellaneous Group



Ochlerotatus japonicus – Multivoltine Aedine



Top Ten Species in each Region – *NOTE THE DIFFERENT SCALES USED FOR DIFFERENT REGIONS.*

