

NEW JERSEY STATEWIDE SURVEILLANCE

Week 38 Report for 14 September to 20 September, 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.

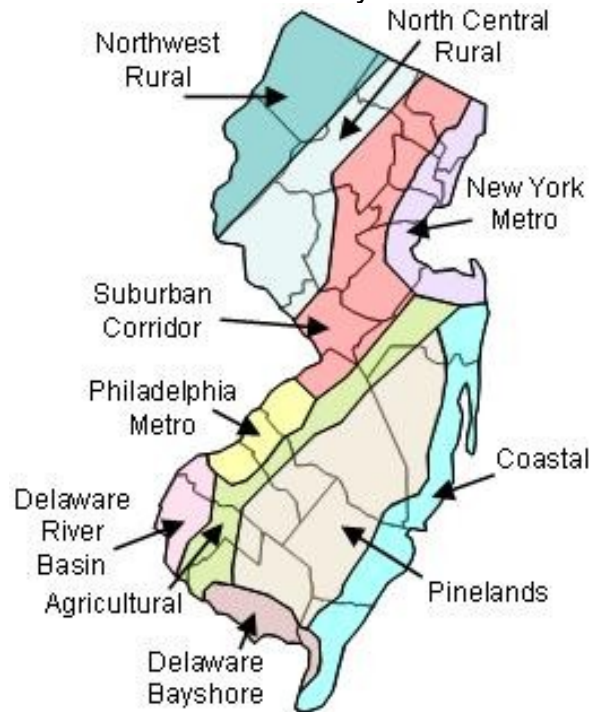


Figure 1b. Trap lat-long locations.



Summary table – Week 38

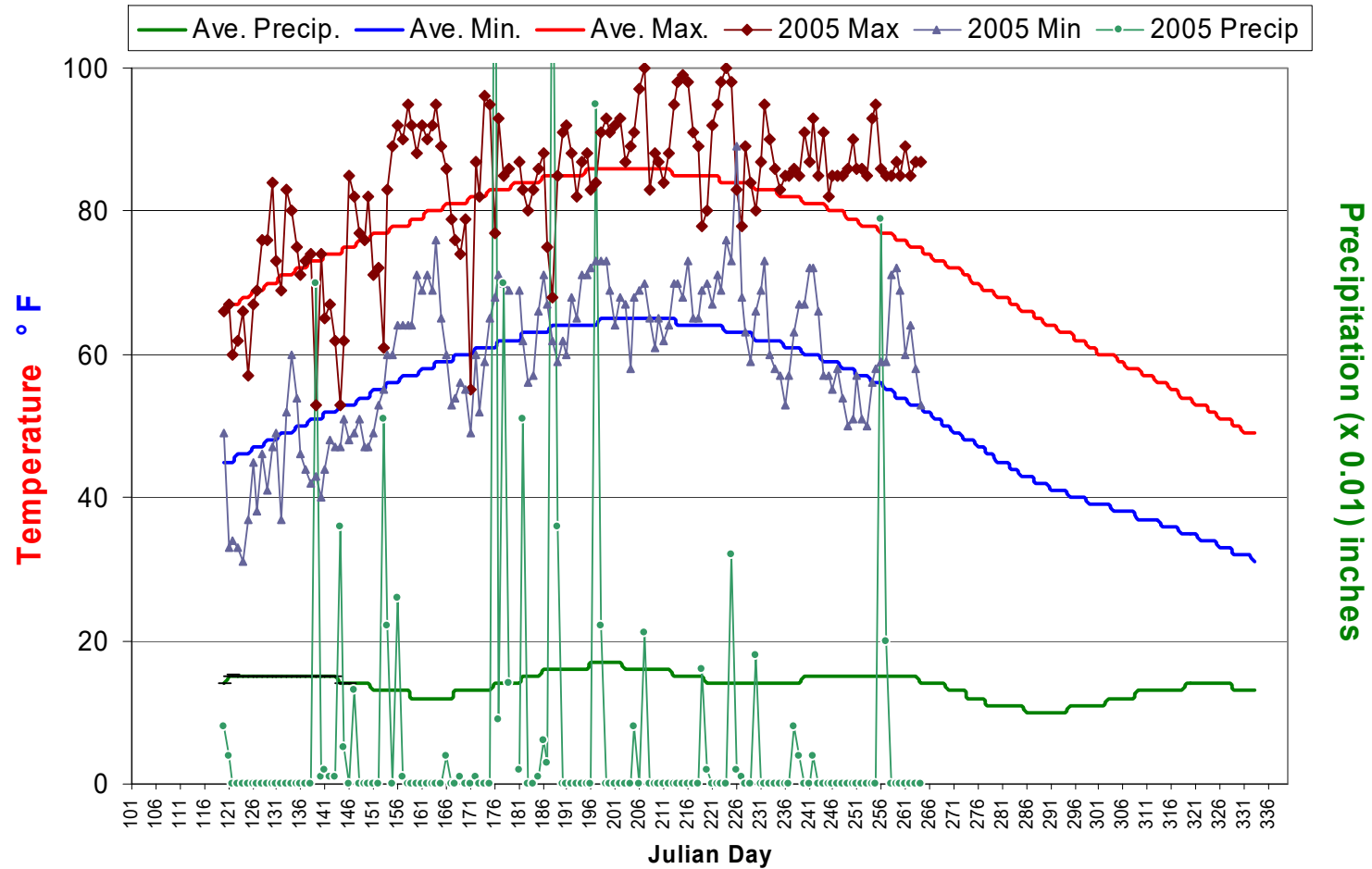
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	1.55	3.69	5.64	10.52	0.00	0.00	0.00	0.63
Coastal	0.33	5.90	1.21	2.76	0.08	0.00	2.10	23.10
Delaware Bayshore	0.10	0.04	9.12	4.70	0.05	0.00	1.31	3.06
Delaware River Basin	4.86	5.76	32.96	7.92	0.00	0.14	0.00	1.81
New York Metro	0.21	1.48	3.59	3.53	0.00	0.00	0.04	0.57
North Central Rural	0.02	0.60	0.14	0.61	0.00	0.00	0.00	0.00
Northwest Rural	0.05	10.32	0.29	2.18	0.00	0.06	0.00	0.00
Philadelphia Metro	2.74	7.74	1.74	2.14	0.07	0.10	0.00	0.00
Pinelands	0.39	1.49	0.96	2.77	0.05	0.07	0.00	0.49
Suburban Corridor	1.10	6.97	0.89	3.04	0.13	0.11	0.00	0.02

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

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

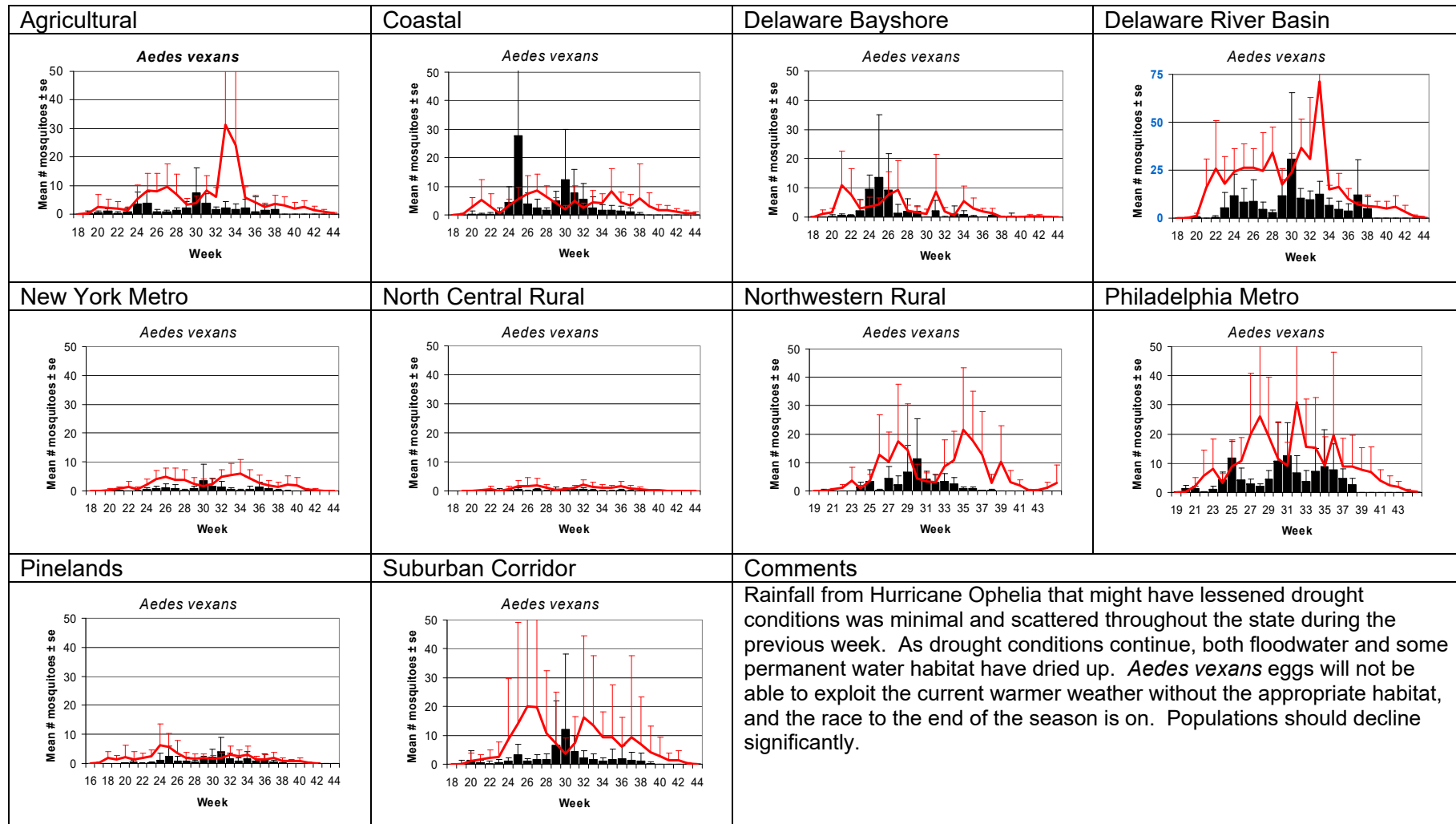
Climate Data

New Brunswick 1971-2000 Historical/Hillsborough 2005

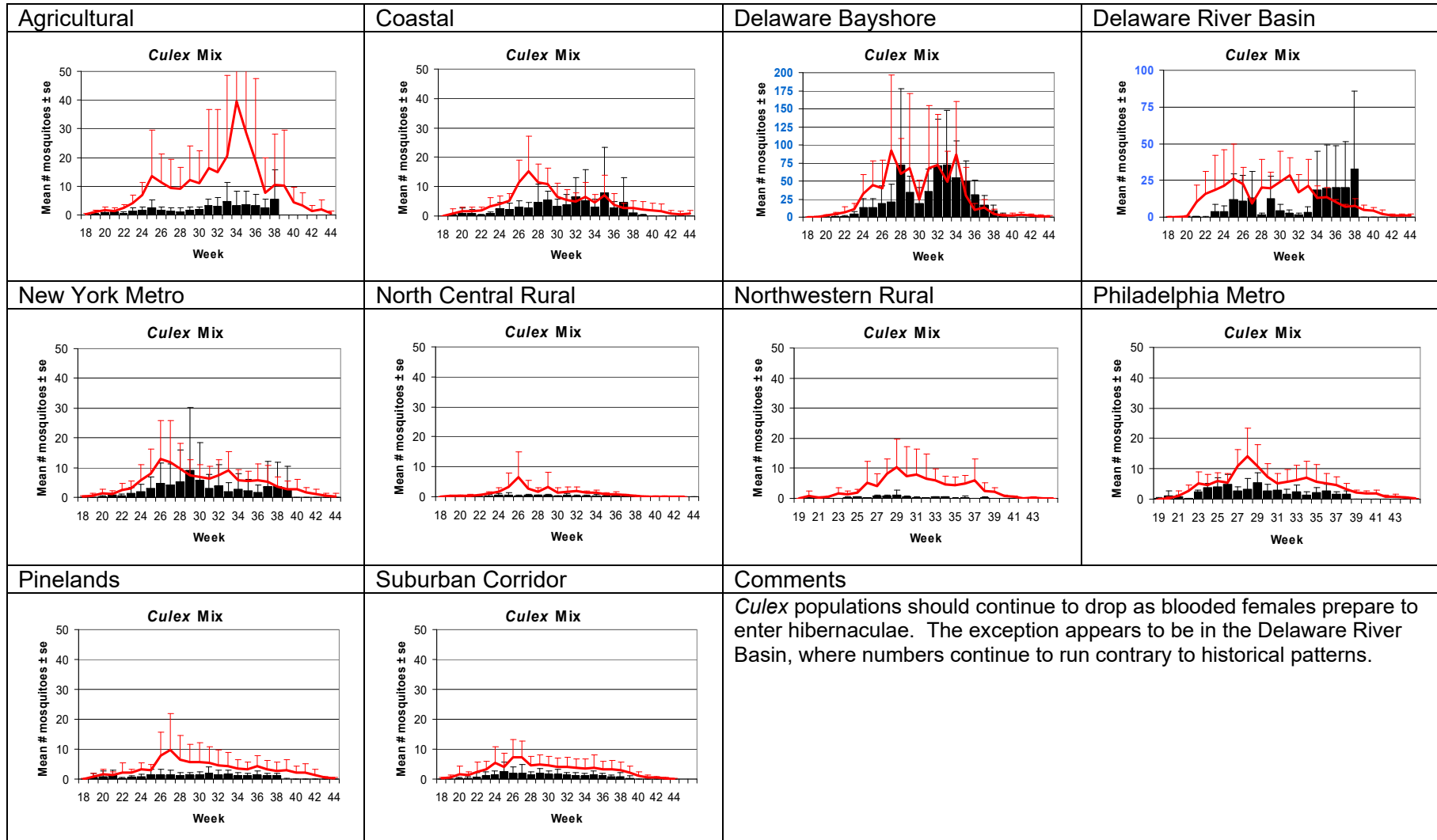


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station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

Aedes vexans - Fresh Floodwater Species



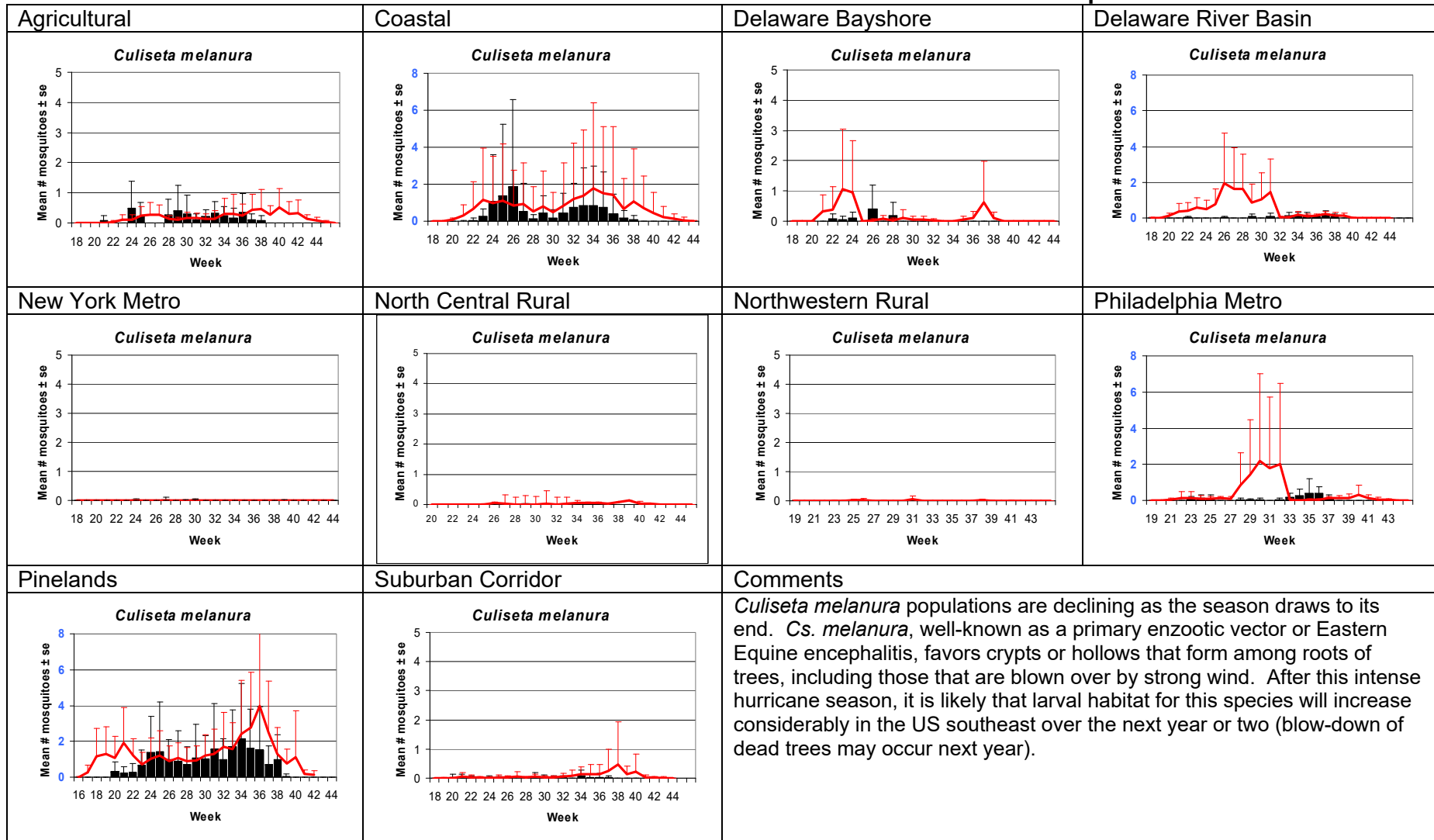
Culex Complex - Multivoltine Culex Species



Ochlerotatus sollicitans - Salt Marsh Floodwater Species

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 The last full moon was on the 18th of September. <i>Ochlerotatus sollicitans</i> might produce on final small brood in the next week, but any emergence will be of little significance in size. Nuisance calls may still be driven by the change of <i>Oc. sollicitans</i> hunting behavior. There is a marked decline in migration of coastal population to inland sites as local populations remain close to sites of emergence. Hence, nuisance calls from <i>Oc. sollicitans</i> hostseeking are likely to come from coastal/Bayshore areas.	

Culiseta melanura – Miscellaneous Group



Coquillettidia perturbans – Monotypic Group

