

NEW JERSEY STATEWIDE SURVEILLANCE

Week 39 Report for 21 September to 27 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.

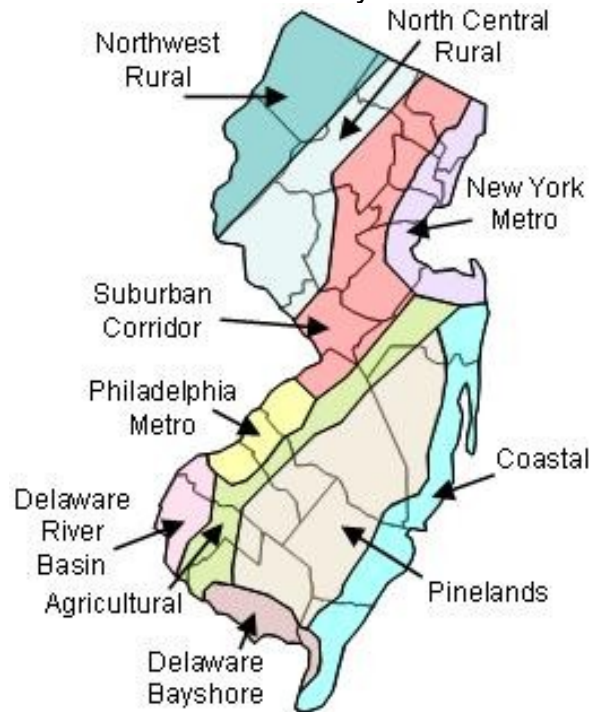


Figure 1b. Trap lat-long locations.



Summary table – Week 39

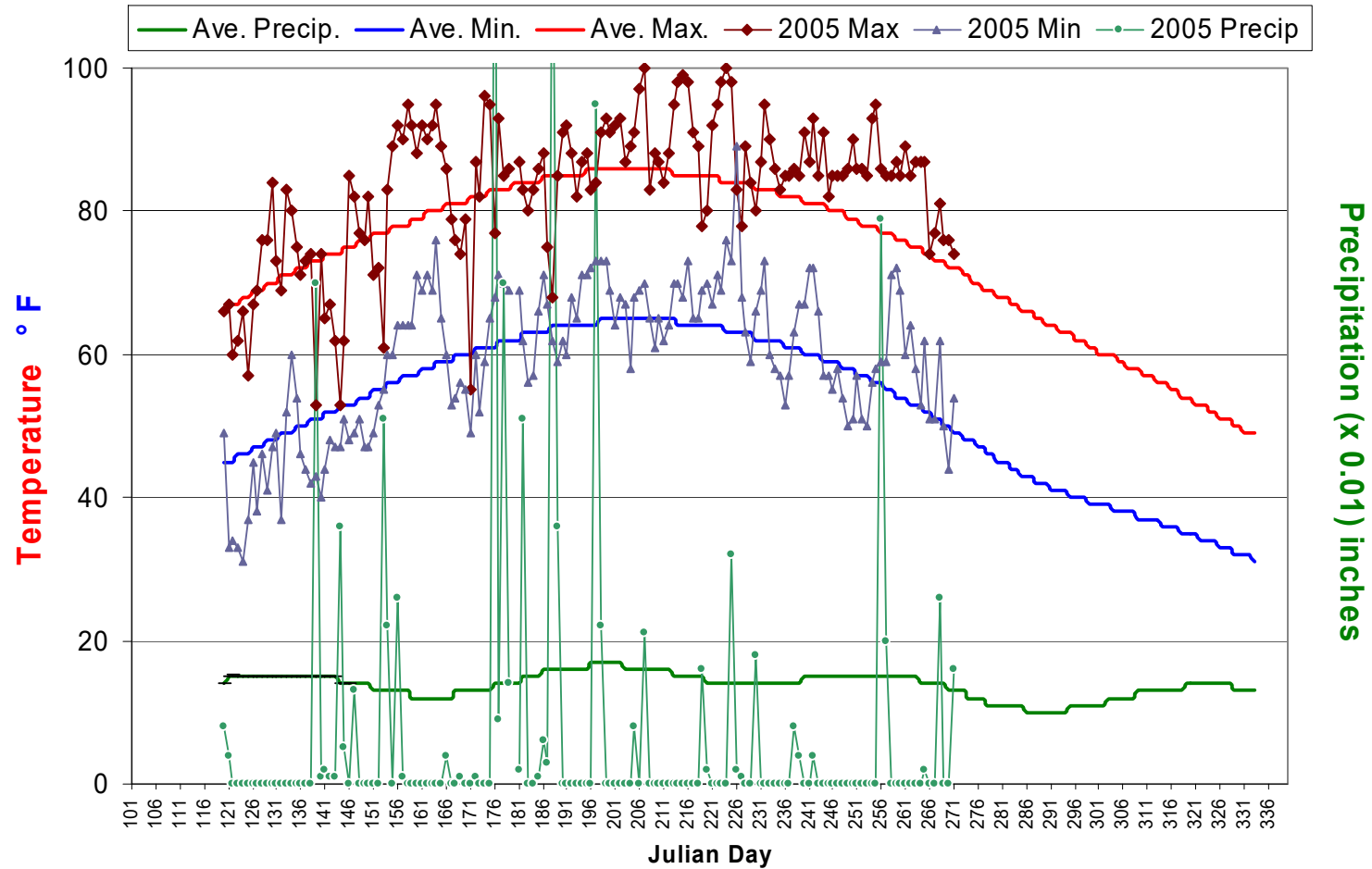
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	1.14	2.92	2.95	10.28	0.00	0.00	0.00	0.35
Coastal	0.41	2.97	0.95	2.23	0.03	0.00	2.35	10.64
Delaware Bayshore	0.43	0.04	8.60	2.10	0.00	0.00	1.52	0.13
Delaware River Basin	0.11	5.76	0.25	5.06	0.00	0.07	0.00	1.78
New York Metro	0.20	2.24	3.20	2.86	0.00	0.00	0.00	0.33
North Central Rural	0.12	0.18	0.12	0.23	0.00	0.02	0.00	0.00
Northwest Rural	0.05	3.02	0.00	0.77	0.00	0.02	0.00	0.00
Philadelphia Metro	3.77	6.94	0.00	1.95	0.00	0.04	0.00	0.00
Pinelands	0.45	1.88	0.36	3.03	0.00	0.06	0.00	0.18
Suburban Corridor	1.11	4.15	0.93	2.14	0.04	0.10	0.00	0.02

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

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

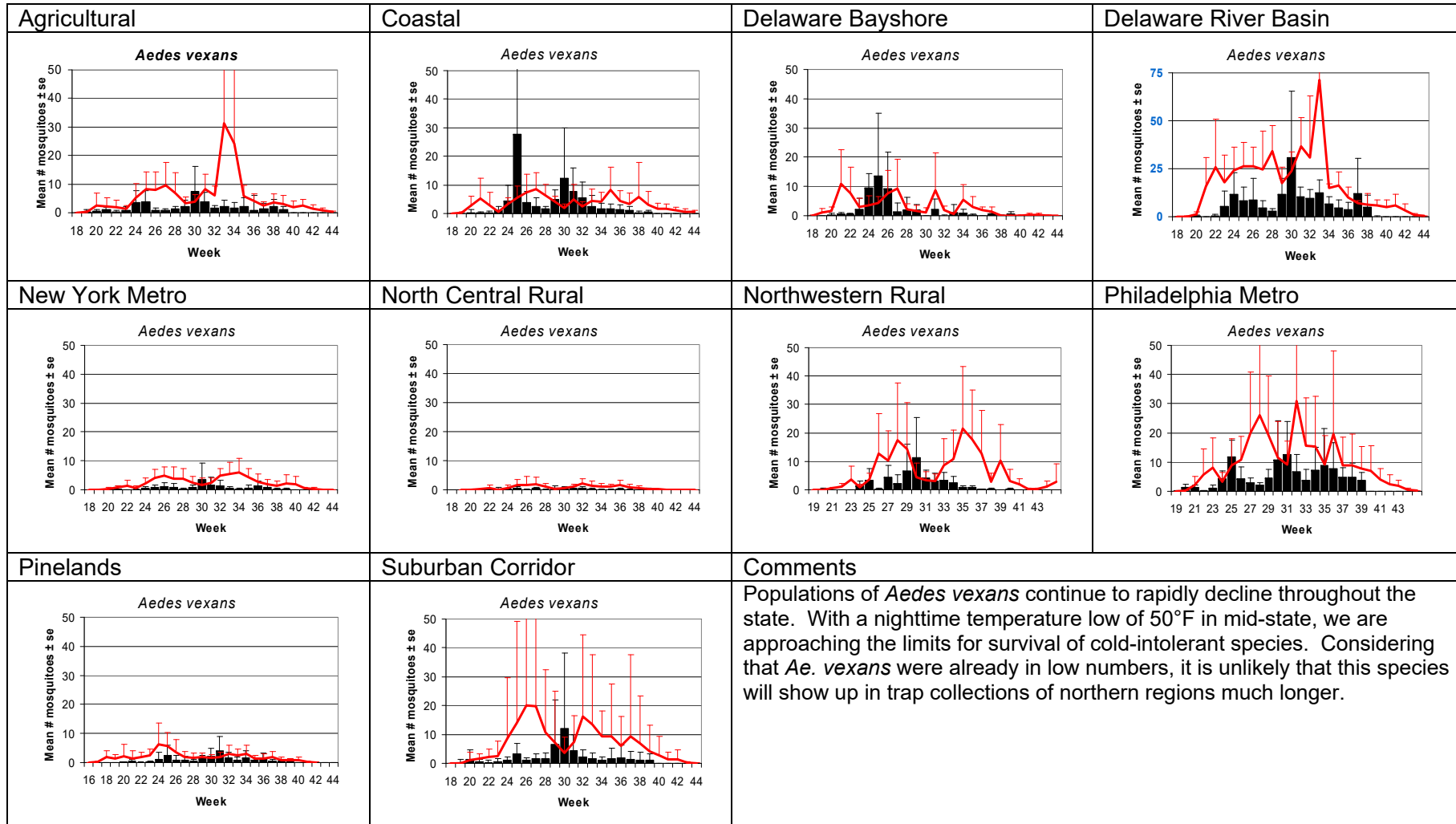
Climate Data

New Brunswick 1971-2000 Historical/Hillsborough 2005

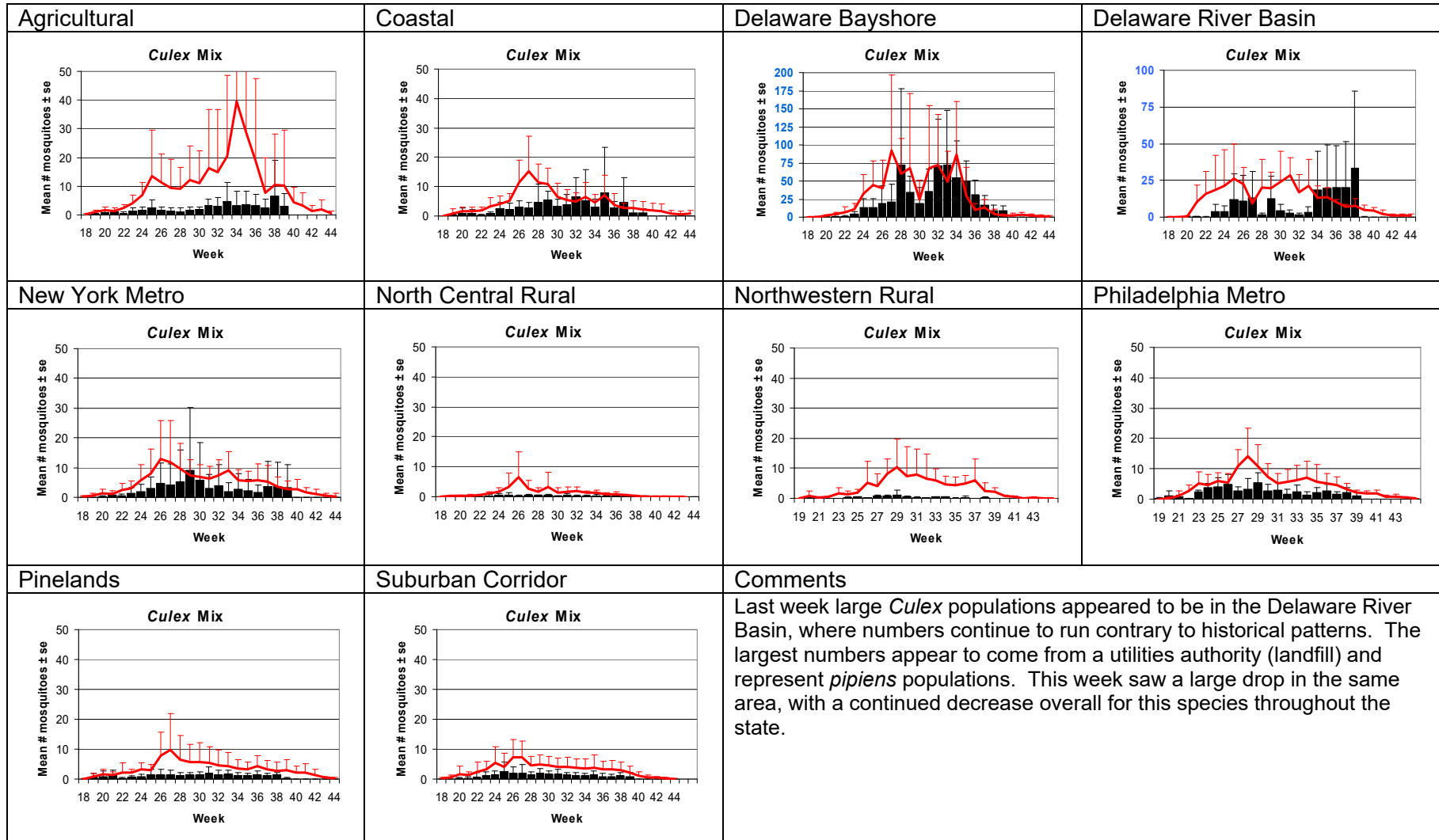


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station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

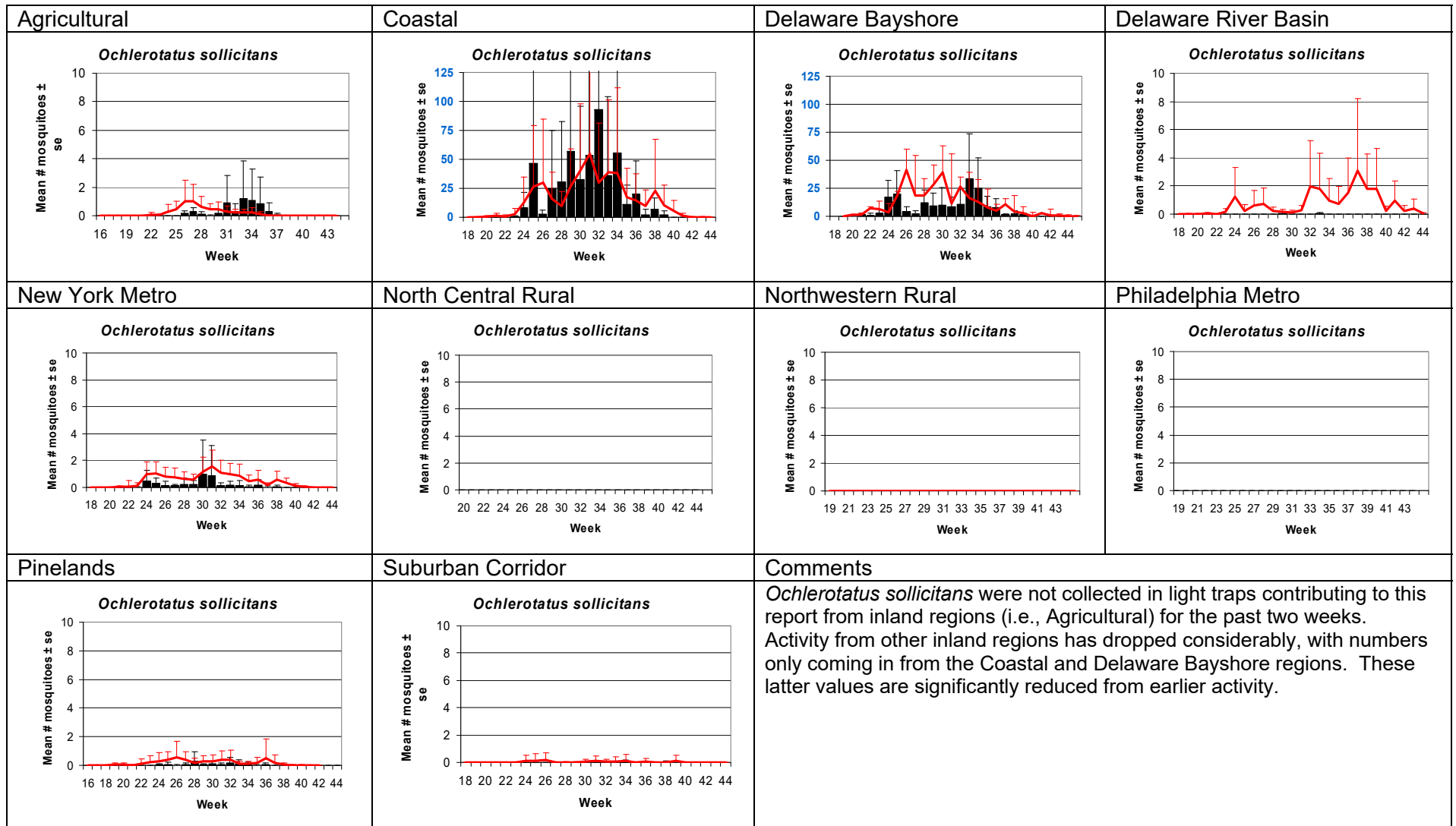
Aedes vexans - Fresh Floodwater Species



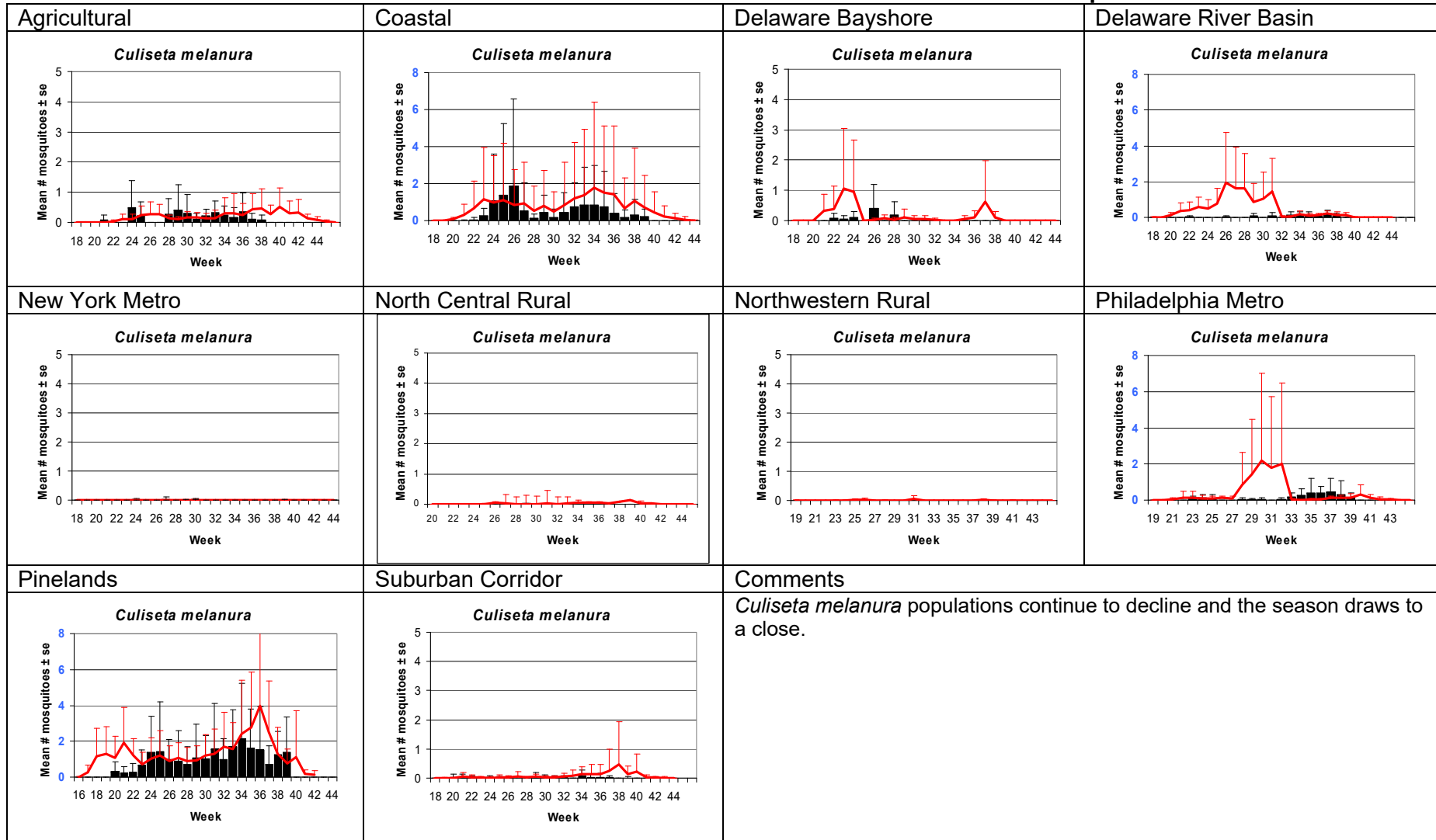
Culex Complex - Multivoltine Culex Species



Ochlerotatus sollicitans - Salt Marsh Floodwater Species



Culiseta melanura – Miscellaneous Group



Coquillettidia perturbans – Monotypic Group

Agricultural <i>Coquillettidia perturbans</i>	Coastal <i>Coquillettidia perturbans</i>	Delaware Bayshore <i>Coquillettidia perturbans</i>	Delaware River Basin <i>Coquillettidia perturbans</i>
New York Metro <i>Coquillettidia perturbans</i>	North Central Rural <i>Coquillettidia perturbans</i>	Northwestern Rural <i>Coquillettidia perturbans</i>	Philadelphia Metro <i>Coquillettidia perturbans</i>
Pinelands <i>Coquillettidia perturbans</i>	Suburban Corridor <i>Coquillettidia perturbans</i>	Comments <i>Coquillettidia perturbans</i> populations continue to drop, being reported for light traps contributing to this report in the Coastal and Suburban regions only. This is the last week this species will be reported, unless an increase is detected.	