

NEW JERSEY STATEWIDE SURVEILLANCE

Week 42 Report for 12 October to 18 October, 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.

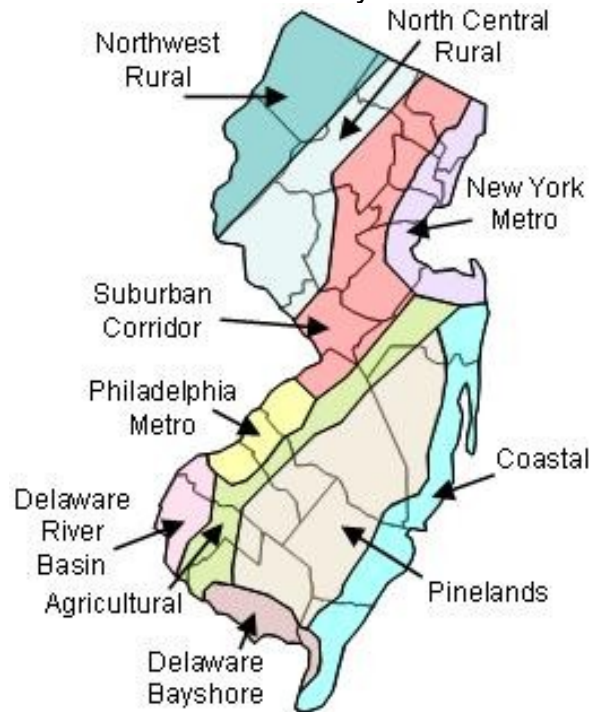


Figure 1b. Trap lat-long locations.



Summary table – Week 42

	<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	12.43	1.27	1.33	1.93	0.00	0.00	0.00	0.08
Coastal	0.14	1.04	0.17	0.78	0.00	0.00	0.00	0.32
Delaware Bayshore	0.05	0.36	3.81	2.17	0.00	0.00	0.79	0.62
Delaware River Basin	0.32	3.31	0.32	1.14	0.00	0.00	0.00	0.24
New York Metro	0.00	0.35	0.66	1.12	0.00	0.00	0.00	0.00
North Central Rural	0.04	0.06	0.00	0.06	0.00	0.00	0.00	0.00
Northwest Rural	0.00	0.23	0.00	0.27	0.00	0.00	0.00	0.00
Philadelphia Metro	0.89	1.98	0.57	0.87	0.00	0.00	0.00	0.00
Pinelands	0.43	0.89	0.30	1.30	0.00	0.00	0.00	0.01
Suburban Corridor	0.69	1.38	0.33	0.46	0.00	0.00	0.00	0.00

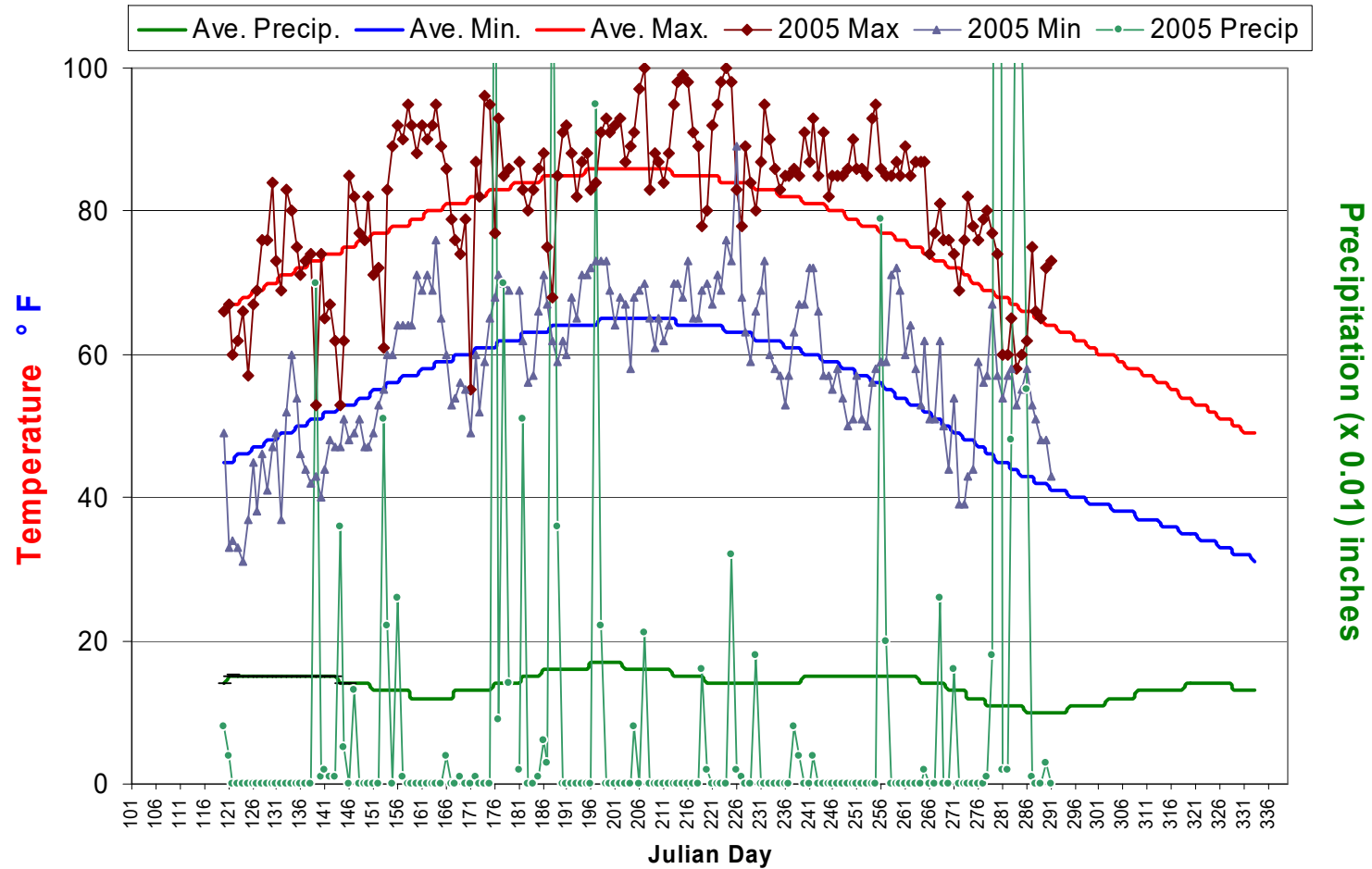
Graphs include *Ae. vexans*, *Culex complex* (*Cx. pipiens*, *Cx. restuans*, and *Cx. salinarius*), *Oc. sollicitans*, *Cs. melanura* and *Oc. japonicus*.

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

Please note: This report is coming a day earlier than previous reports – this factor plus the decline in participation as the season comes to an end increases the uncertainty of the results. Next week will be a season summary. Thank you for your participation.

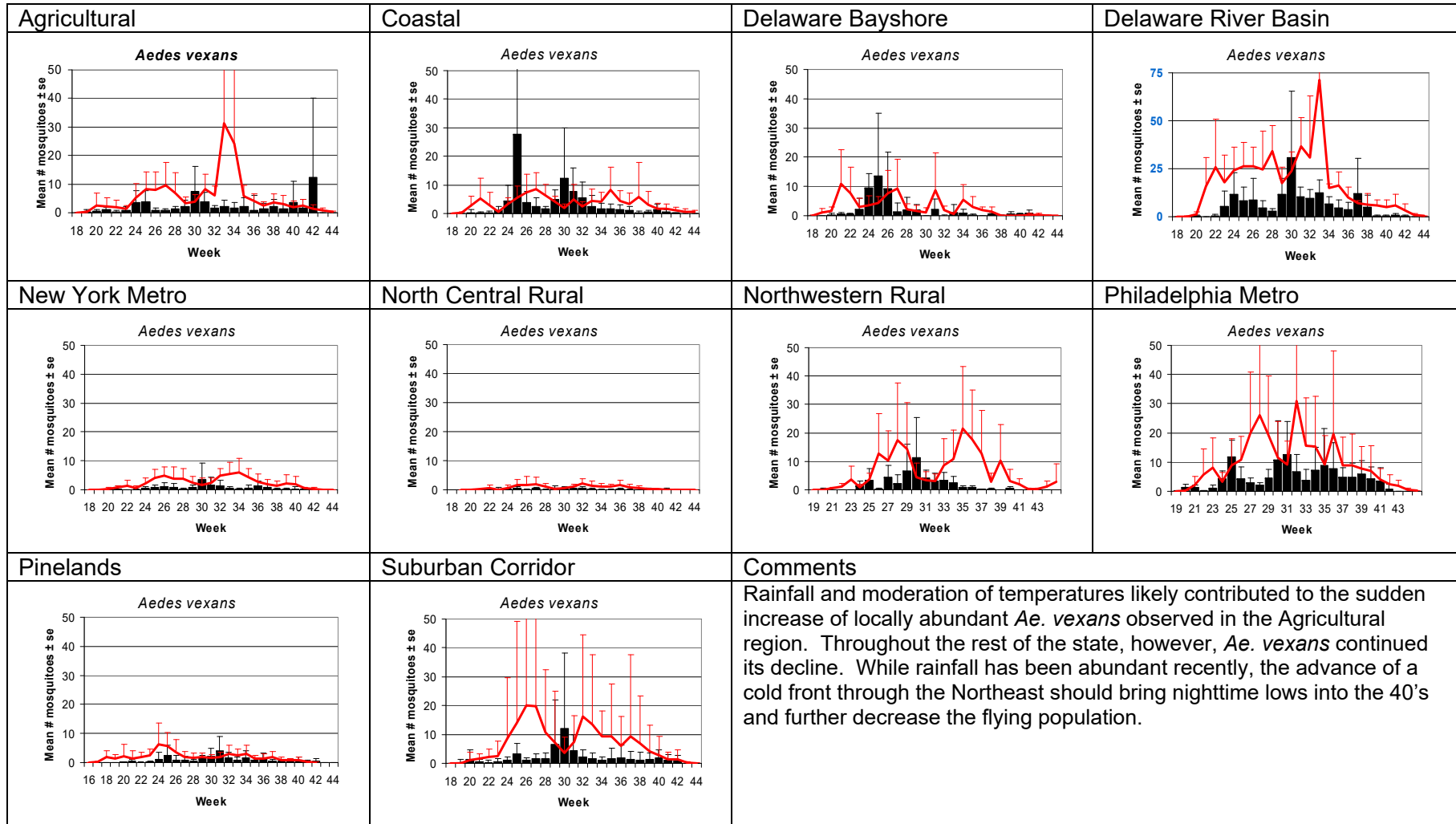
Climate Data

New Brunswick 1971-2000 Historical/Hillsborough 2005

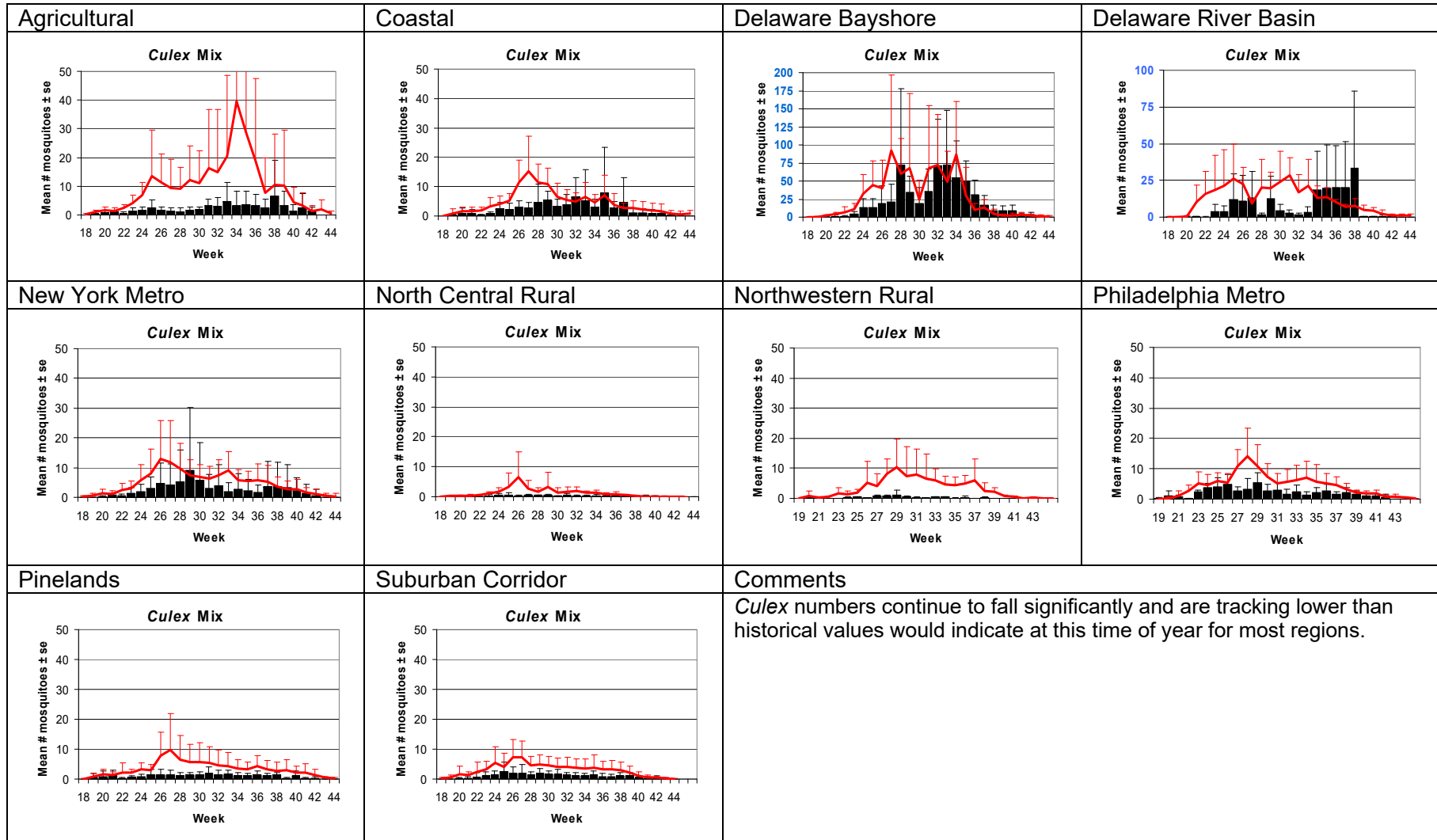


This figure shows historical average maximum and minimum temperatures and average precipitation recorded in the New Brunswick, NJ weather station over a recent 30 year period. Also graphed are the current year's minimum and maximum temperatures as recorded at the Hillsborough NJ weather station (a station 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 <i>Ochlerotatus sollicitans</i> are no longer entering light traps. Eggs laid by females at this time should enter diapause and not contribute to any emergences this year.	

Culiseta melanura – Miscellaneous Group

Agricultural <i>Culiseta melanura</i>	Coastal <i>Culiseta melanura</i>	Delaware Bayshore <i>Culiseta melanura</i>	Delaware River Basin <i>Culiseta melanura</i>
New York Metro <i>Culiseta melanura</i>	North Central Rural <i>Culiseta melanura</i>	Northwestern Rural <i>Culiseta melanura</i>	Philadelphia Metro <i>Culiseta melanura</i>
Pinelands <i>Culiseta melanura</i>	Suburban Corridor <i>Culiseta melanura</i>	Comments <i>Culiseta melanura</i> numbers have dropped considerably from historical records, signaling an end to the <i>Cs. melanura</i> season throughout most of the state.	

Ochlerotatus japonicus – Multivoltine Aedine

