

NEW JERSEY STATEWIDE SURVEILLANCE

Week 35 Report for 24 August to 30 August, 2004

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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.

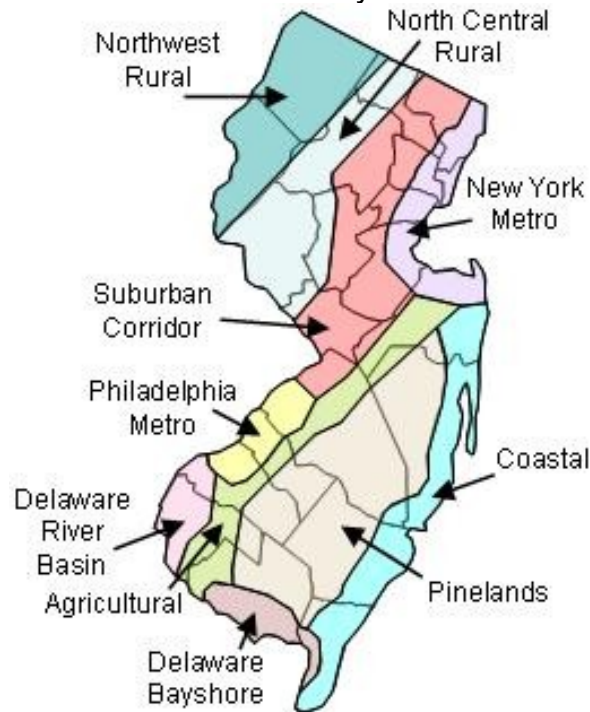


Figure 1b. Trap lat-long locations.



Summary table

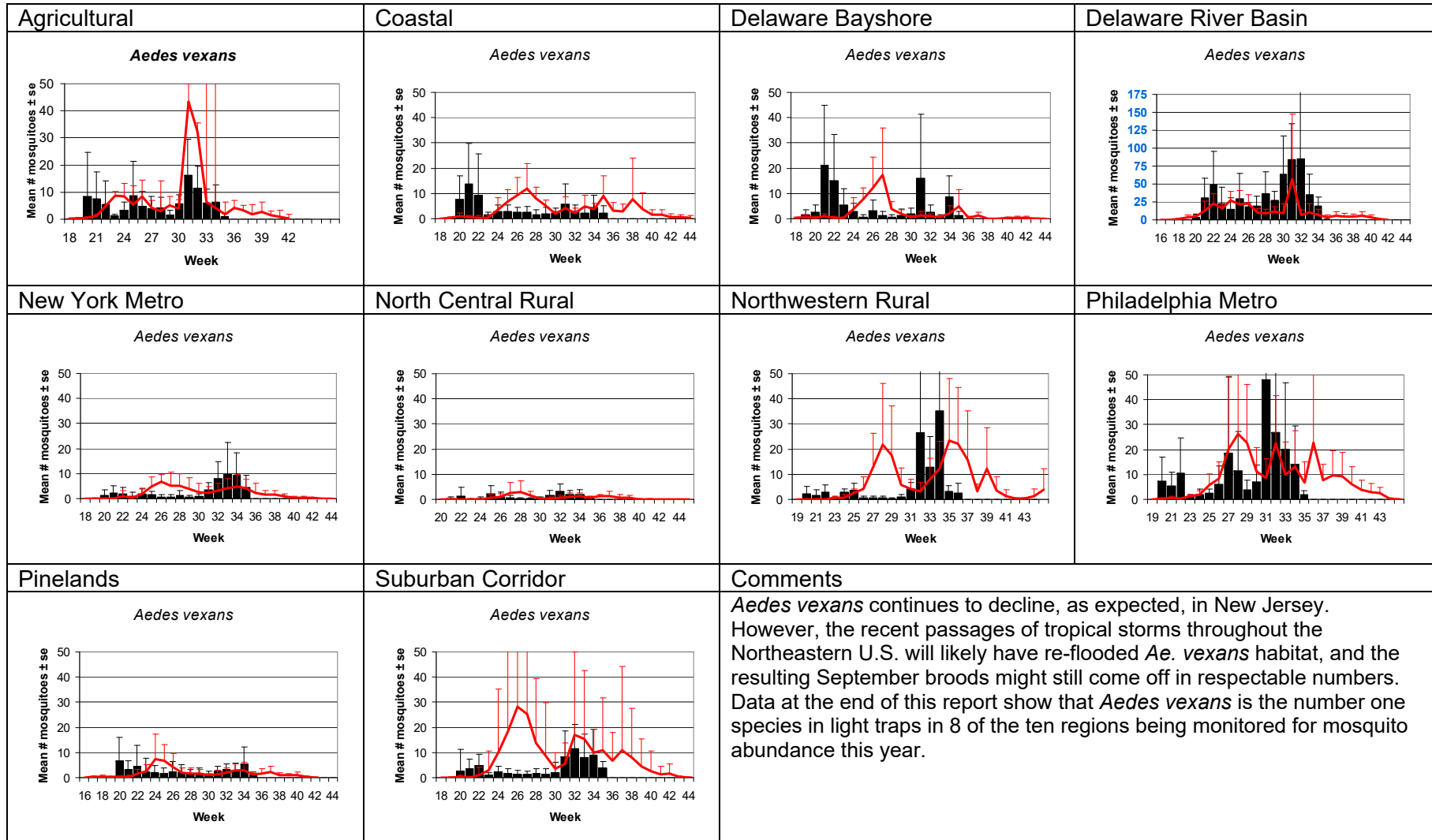
	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquillettidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	0.90	6.36	7.55	27.54	0.02	0.11	0.29	1.90
Coastal	2.14	9.06	0.81	10.93	0.19	0.96	6.78	18.25
Delaware Bayshore	1.43	4.74	21.48	39.52	1.17	3.05	8.88	1.19
Delaware River Basin	0.39	10.59	0.14	3.47	0.18	0.80	0	0.84
New York Metro	4.53	4.18	7.34	4.79	0.38	0.03	0.56	0.29
North Central Rural	0.35	1.18	0.57	1.43	0	0.01	0	0
Northwest Rural	3.10	22.05	5.10	5.62	0.02	0.13	0	0
Philadelphia Metro	1.89	22.69	1.55	4.28	0.14	0.12	0	0
Pinelands	0.87	2.99	0.83	4.12	0.19	0.15	0.08	0.14
Suburban Corridor	3.71	10.91	2.21	4.19	0.29	0.95	0	0

Please Note: Historical data is being entered and not yet complete. These values and graphics will change as more data is entered.

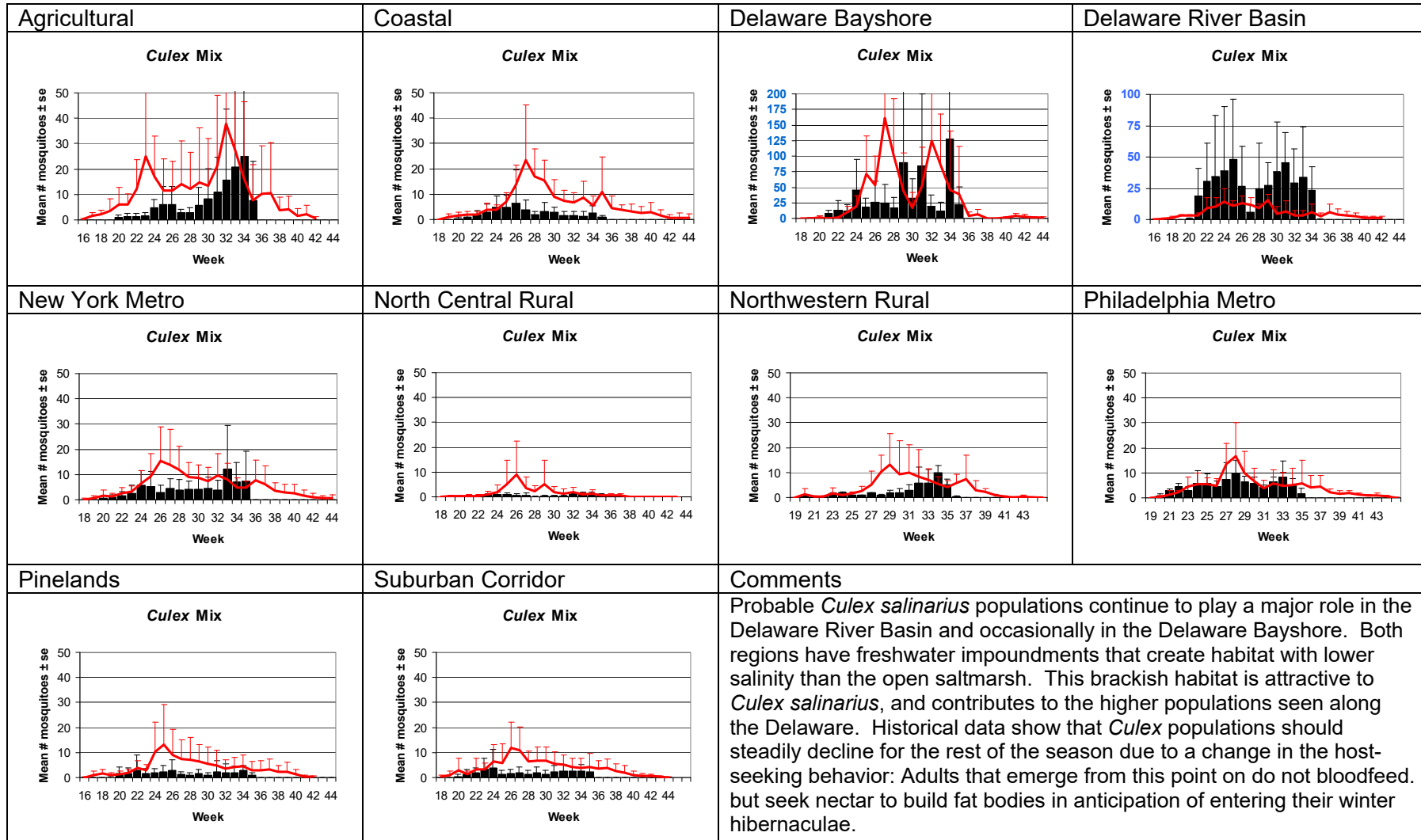
Additional Species, including *Ochlerotatus japonicus*, and the Top Ten Species for each region.

18 out of 21 counties reporting.

Aedes vexans - Fresh Floodwater Species



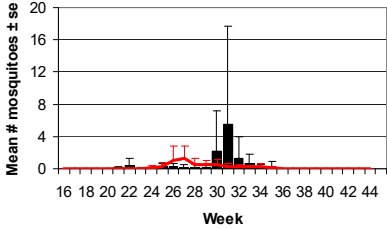
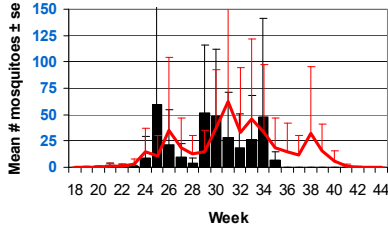
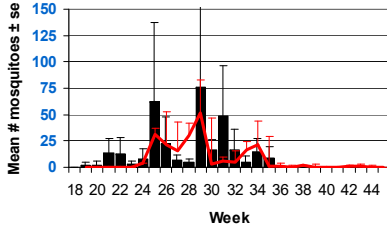
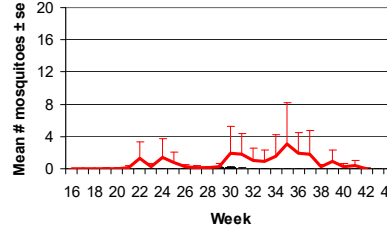
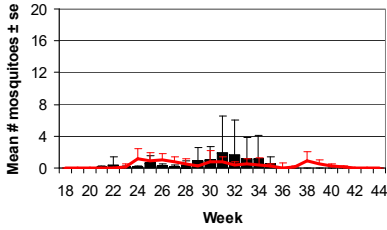
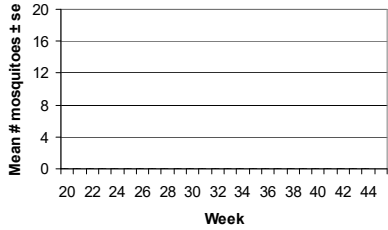
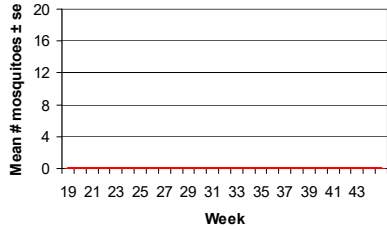
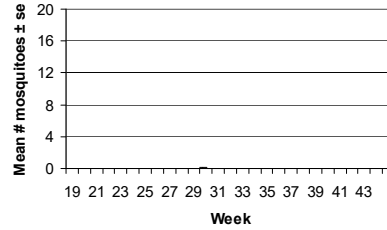
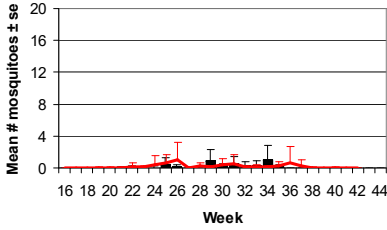
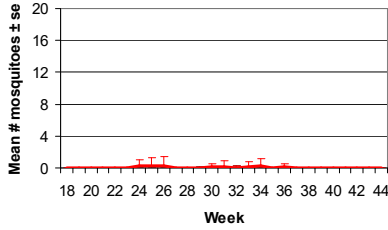
Culex Complex - Multivoltine Culex Species



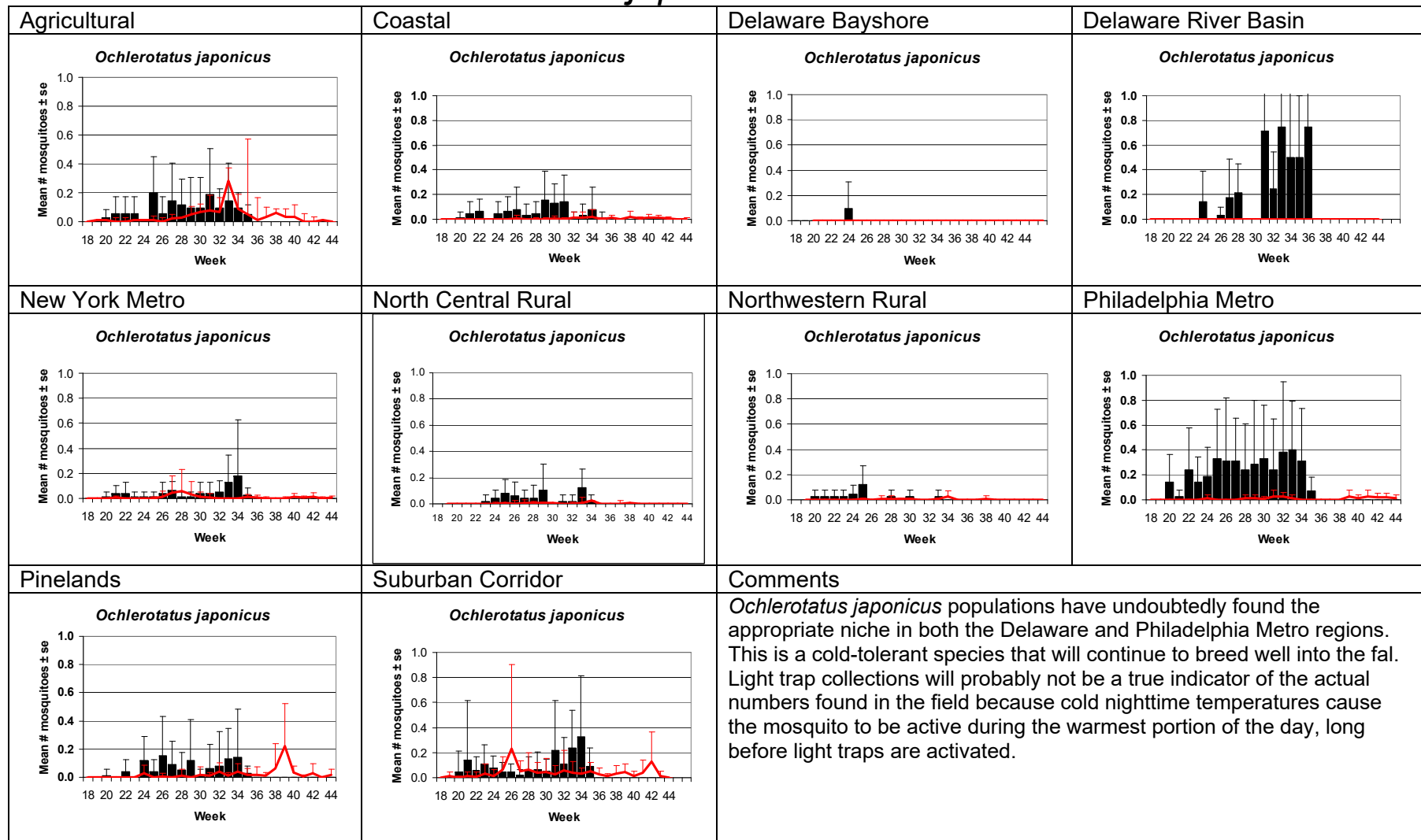
Coquillettidia perturbans - Unique Life Cycle

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 Light trap data indicate that an August cohort of <i>Coquillettidia perturbans</i> has emerged in some areas, such as the Delaware River Basin, Bayshore and Pinelands regions. These mosquitoes represent larvae that overwintered in very early instar stages. <i>Cq. perturbans</i> adults in the month of August and September are regarded as a primary vector of EEE to horses in southern New Jersey. High populations should be reduced at this time to minimize possible equine involvement.	

Ochlerotatus sollicitans - Salt Marsh Floodwater Species

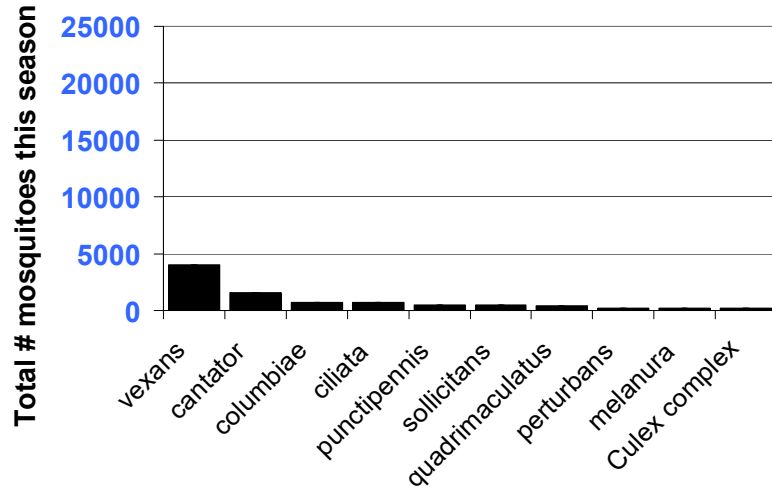
Agricultural <i>Ochlerotatus sollicitans</i> 	Coastal <i>Ochlerotatus sollicitans</i> 	Delaware Bayshore <i>Ochlerotatus sollicitans</i> 	Delaware River Basin <i>Ochlerotatus sollicitans</i> 
New York Metro <i>Ochlerotatus sollicitans</i> 	North Central Rural <i>Ochlerotatus sollicitans</i> 	Northwestern Rural <i>Ochlerotatus sollicitans</i> 	Philadelphia Metro <i>Ochlerotatus sollicitans</i> 
Pinelands <i>Ochlerotatus sollicitans</i> 	Suburban Corridor <i>Ochlerotatus sollicitans</i> 	Comments According to historical trends, <i>Ochlerotatus sollicitans</i> populations should quickly dissipate from the Delaware Bayshore, while Coastal habitats may still experience one more significant brood. Biting populations are generally higher than the light trap counts indicate as adults shift their host-seeking behavior from dusk to daylight hours.	

Ochlerotatus japonicus – Multivoltine Aedine

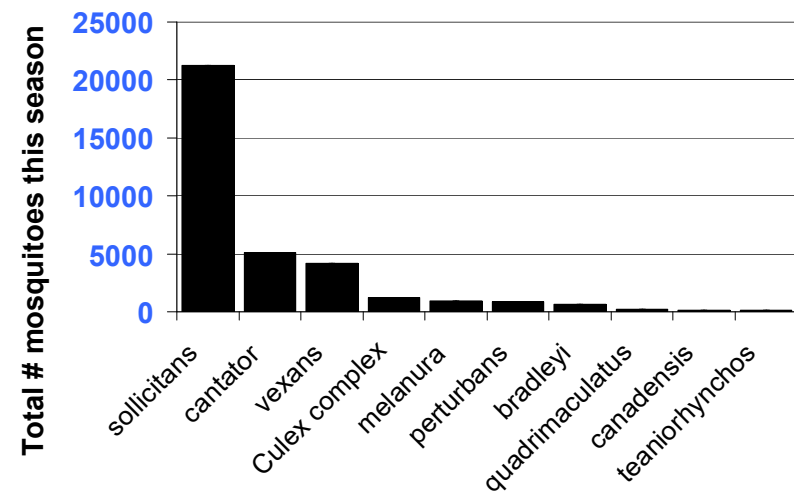


Top Ten Species

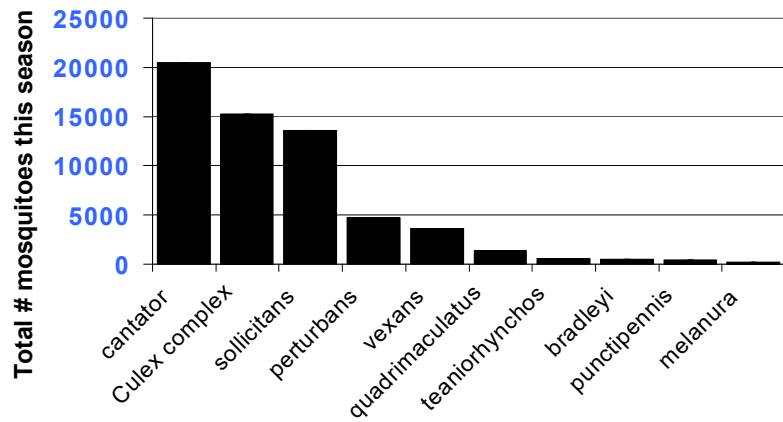
Agricultural



Coastal



Delaware Bayshore



Delaware River Basin

