

meeting



**NEW JERSEY ADULT MOSQUITO
SURVEILLANCE**
Report for 8 June to 14 June 2008, CDC Week 24
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Center for Vector Biology

This New Jersey Agricultural Experiment Station report is supported by Rutgers University, Hatch funds, funding from the NJ State Mosquito Control Commission and with the participation of the 21 county mosquito control agencies of New Jersey.

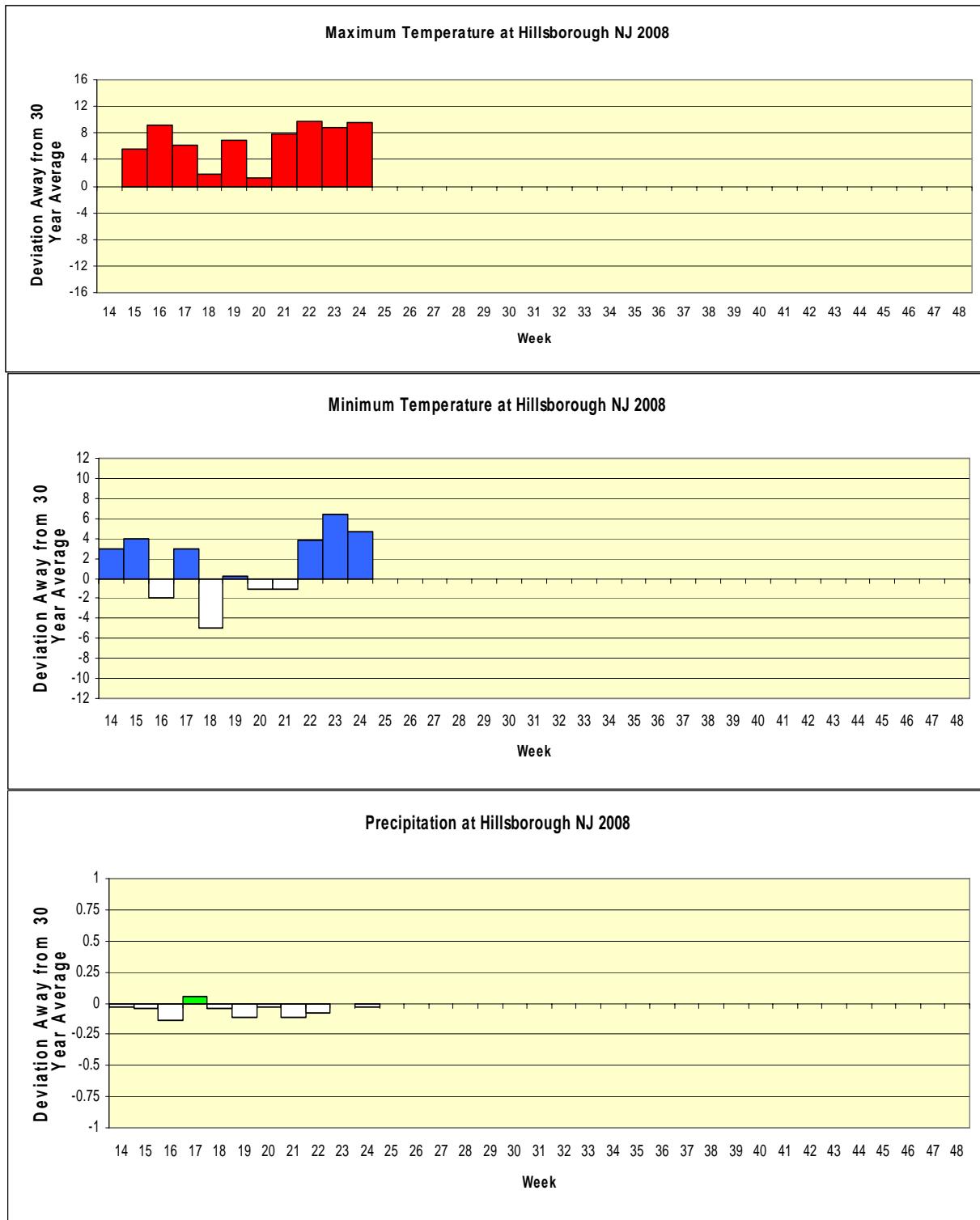
Summary table – Week 24

	<i>Aedes vexans</i>			<i>Culex Mix</i>			<i>Coquillettidia perturbans</i>			<i>Aedes sollicitans</i>		
Region	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase
Agricultural	0.63	3.06	0	0.69	4.73	0	0.00	0.28	0	0.00	0.28	0
Coastal	18.03	3.09	4	1.43	4.16	0	0.00	1.82	0	5.48	8.83	0
Delaware Bayshore	0.00	3.52	0	0.00	19.21	0	0.00	3.79	0	0.00	4.39	0
Delaware River Basin	0.00	12.11	0	0.00	13.09	0	0.00	0.41	0	0.00	0.20	0
New York Metro	1.17	1.13	1	0.54	5.94	0	0.00	0.17	0	0.71	0.87	0
North Central Rural	1.90	0.21	4	4.71	1.02	4	0.00	0.00	0	0.00	0.00	0
Northwest Rural	7.66	4.10	2	0.97	2.45	0	0.00	<0.01	0	0.00	0.00	0
Philadelphia Metro	13.98	7.76	2	8.19	7.59	1	2.06	0.09	4	0.00	0.00	0
Pinelands	2.26	2.48	0	4.42	2.82	2	0.78	1.28	0	0.08	0.17	0
Suburban Corridor	6.96	3.61	2	3.35	2.37	1	0.12	0.02	4	0.00	0.00	0

Averages represent data from, at most, the previous 5 years. Increase is a scale of current values from historical values where no difference or a decrease is represented by 0 (blue), up to 50% greater difference by 1 (green), up to 100% greater difference by 2 (yellow), up to 150% greater difference by 3 (orange) and greater than 150% increase by 4 (red). White cells denote increases from an historic zero and thus no value can be appropriately given.

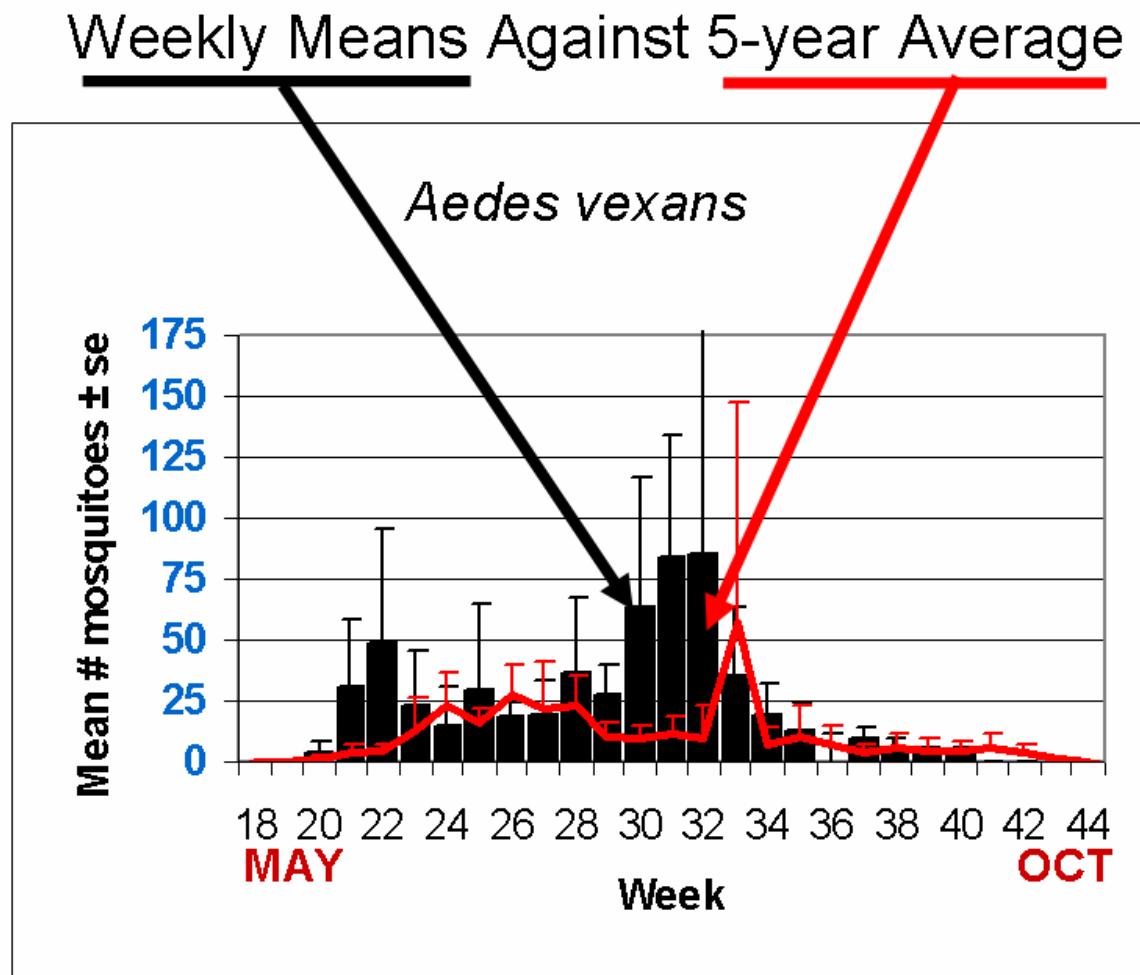
State Summary: Both *Aedes vexans* and the *Culex* mixed species group continue to show population increases from the previous week in areas along the coast and in urban and suburban areas as well as the North Central region. *Coquillettidia perturbans* has shown a remarkable increase in the Philadelphia Metro region and in the Suburban Corridor.

Climate Deviations



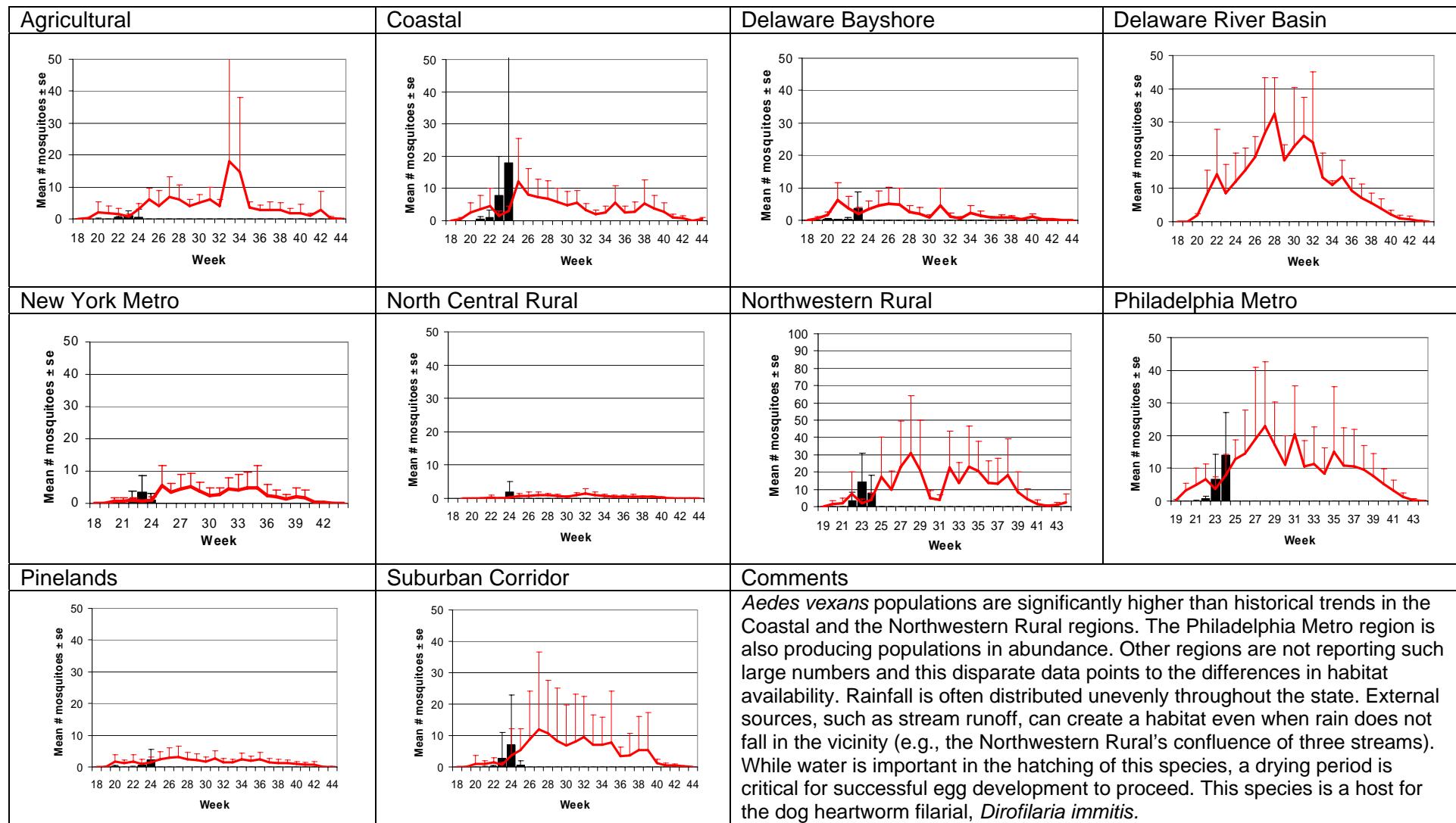
The figures show the average maximum temperature, minimum temperature and precipitation deviations from 30 year averages. Current data is from the Hillsborough NJ weather station (a station close to central NJ which recorded all three parameters and was available online at the NJ state climatologist) while historical data was from the New Brunswick weather station. Color bars above the zero line indicate warmer maximum or minimum temperatures and wetter conditions while white bars indicate cooler temperatures and dryer conditions.

The Species Graphs: The species graph pages include a graph with two plots for each of the ten regions defined on the first page (Agricultural, Coastal, Delaware Bayshore, Delaware River, New York Metro, North-Central, Northwestern, Philadelphia Metro, Pinelands, and Suburban Corridor). Below is an example of one graph from one species within one region. The bar plot show the average number of mosquitoes per trap within the region (weekly means) and line plots show the historical trend as the average number of mosquitoes from the previous 5 years (5-year average). In general, historical data are running means from the previous 5 years, but on occasion, will include data from fewer years. Adjustments are made to account for year discrepancies. Data for Week 23 are from Atlantic, Bergen, Burlington, Camden, Essex, Hunterdon, Mercer, Monmouth, Ocean, Passaic, Somerset, and Warren counties. Note: County data is sent in at a variety of times throughout the week.



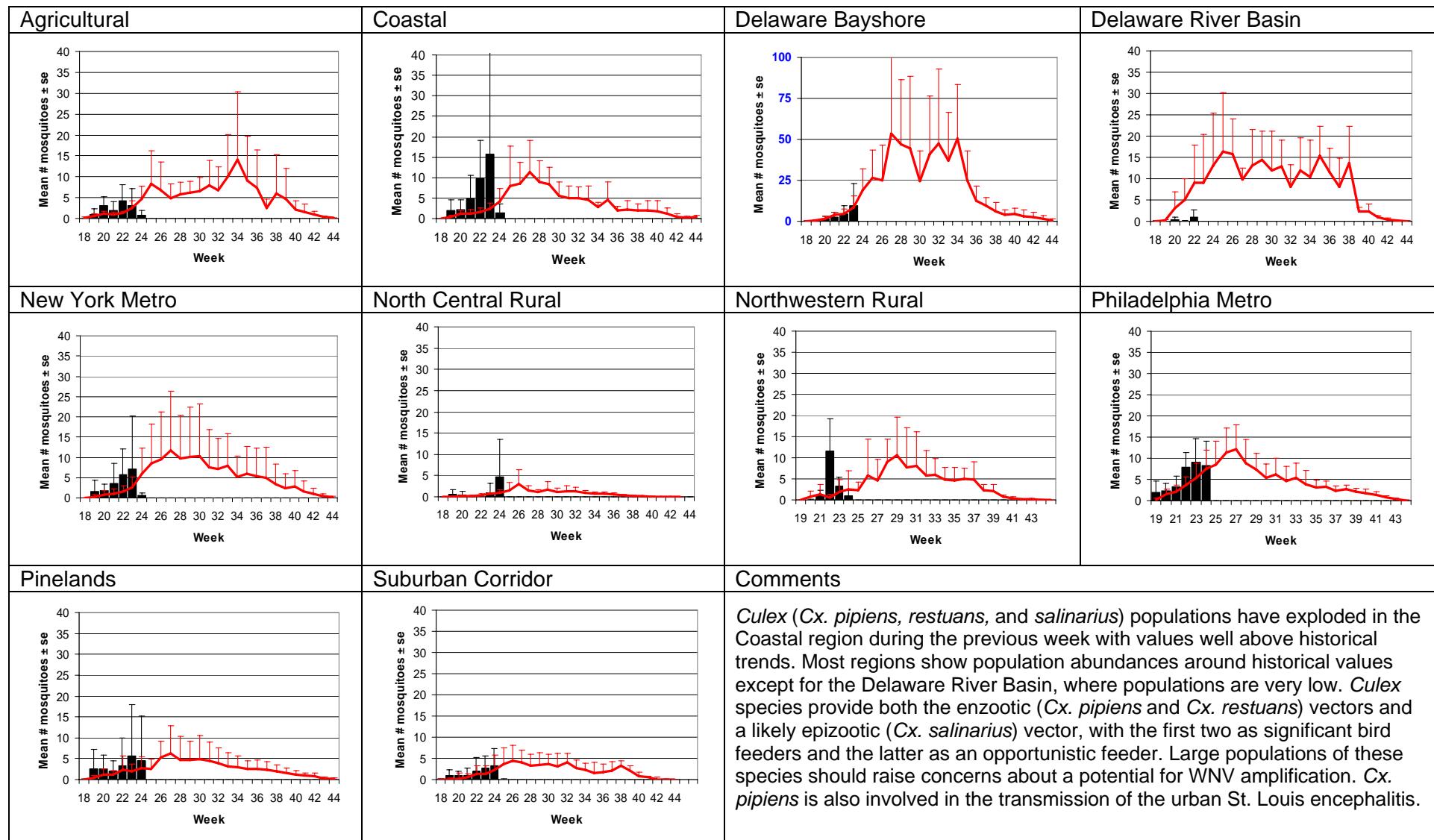
Aedes vexans - Fresh Floodwater Species

Multivoltine Aedine (Ae. vexans Type)

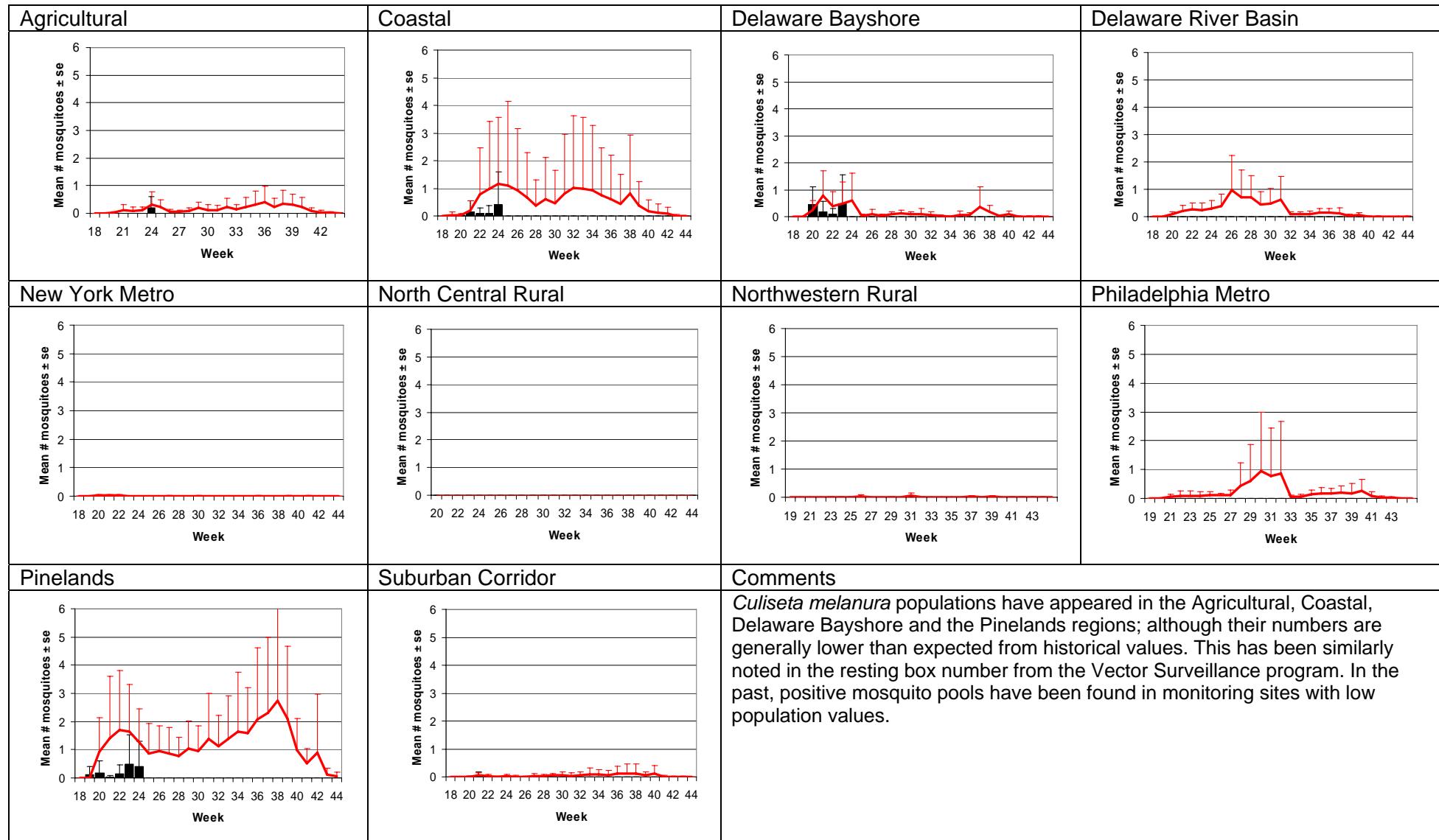


Culex Mix – Permanent Water Species

Multivoltine *Culex/Anopheles* (Cx. *pipiens* Type)

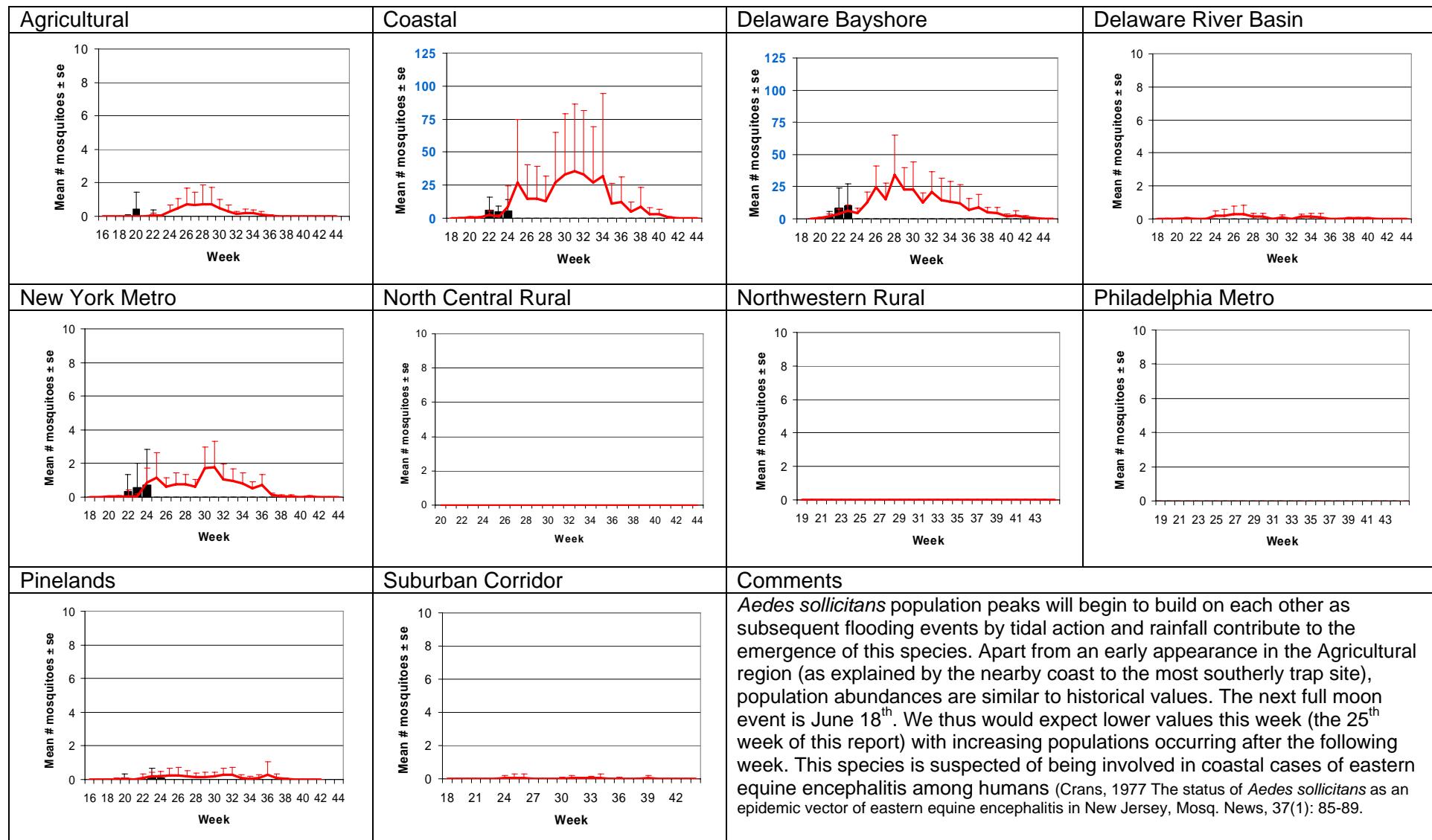


Culiseta melanura – Miscellaneous Group Unique (Cs. *melanura* Type)

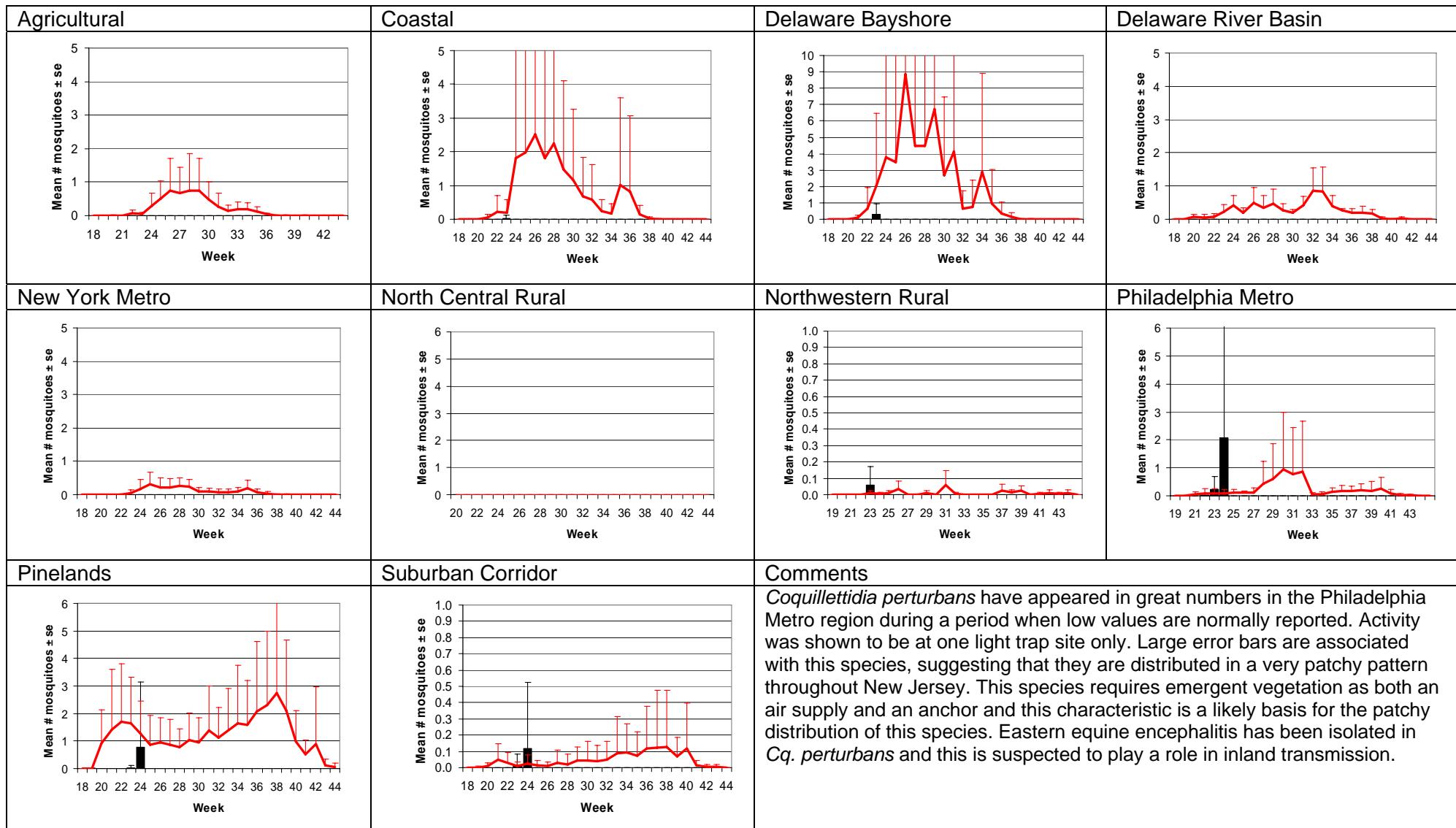


Aedes sollicitans - Salt Floodwater Species

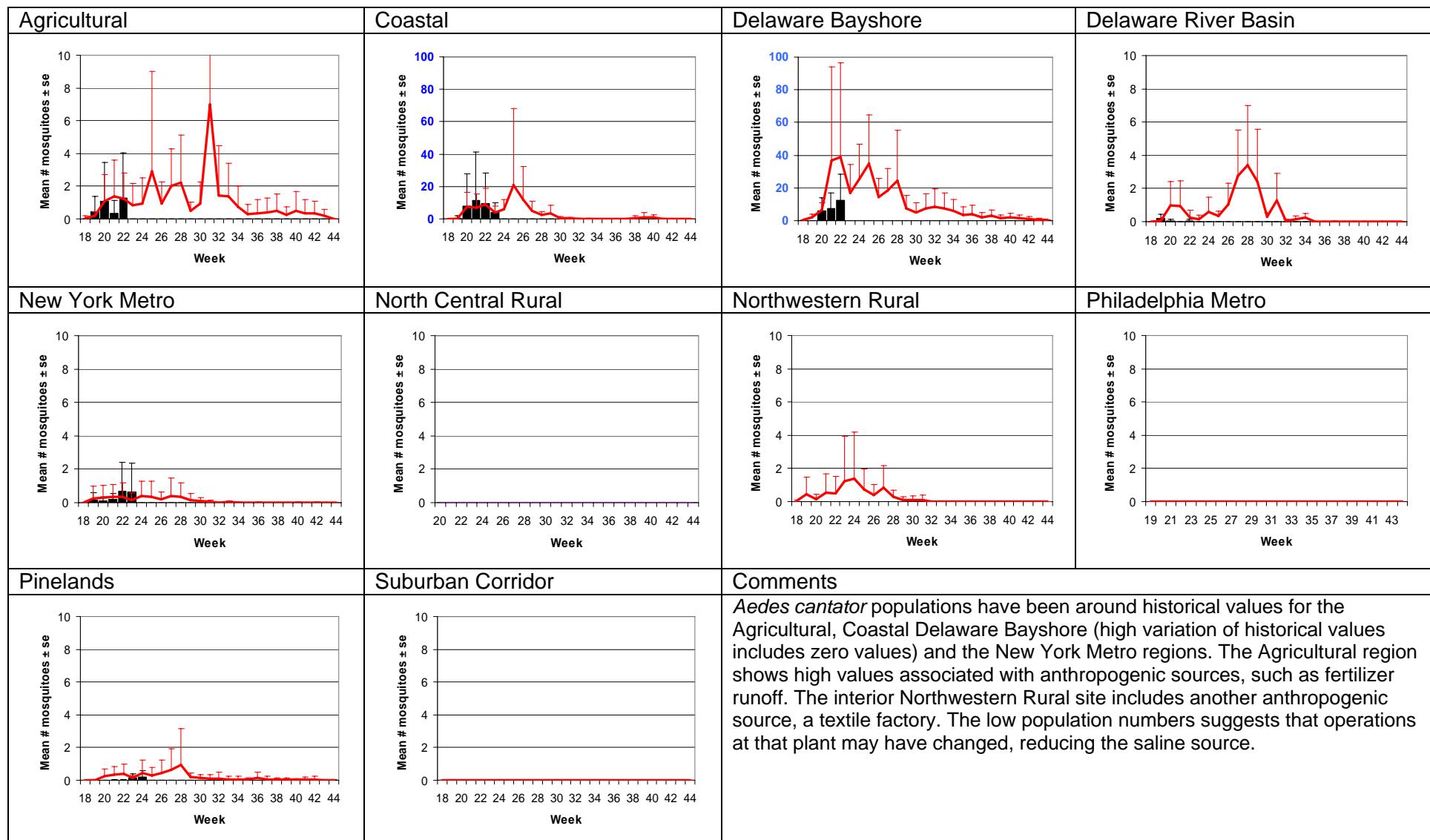
Multivoltine Aedine (*Ae. sollicitans* Type)



Coquillettidia perturbans- Monotypic Species (*Cq. perturbans* Type)

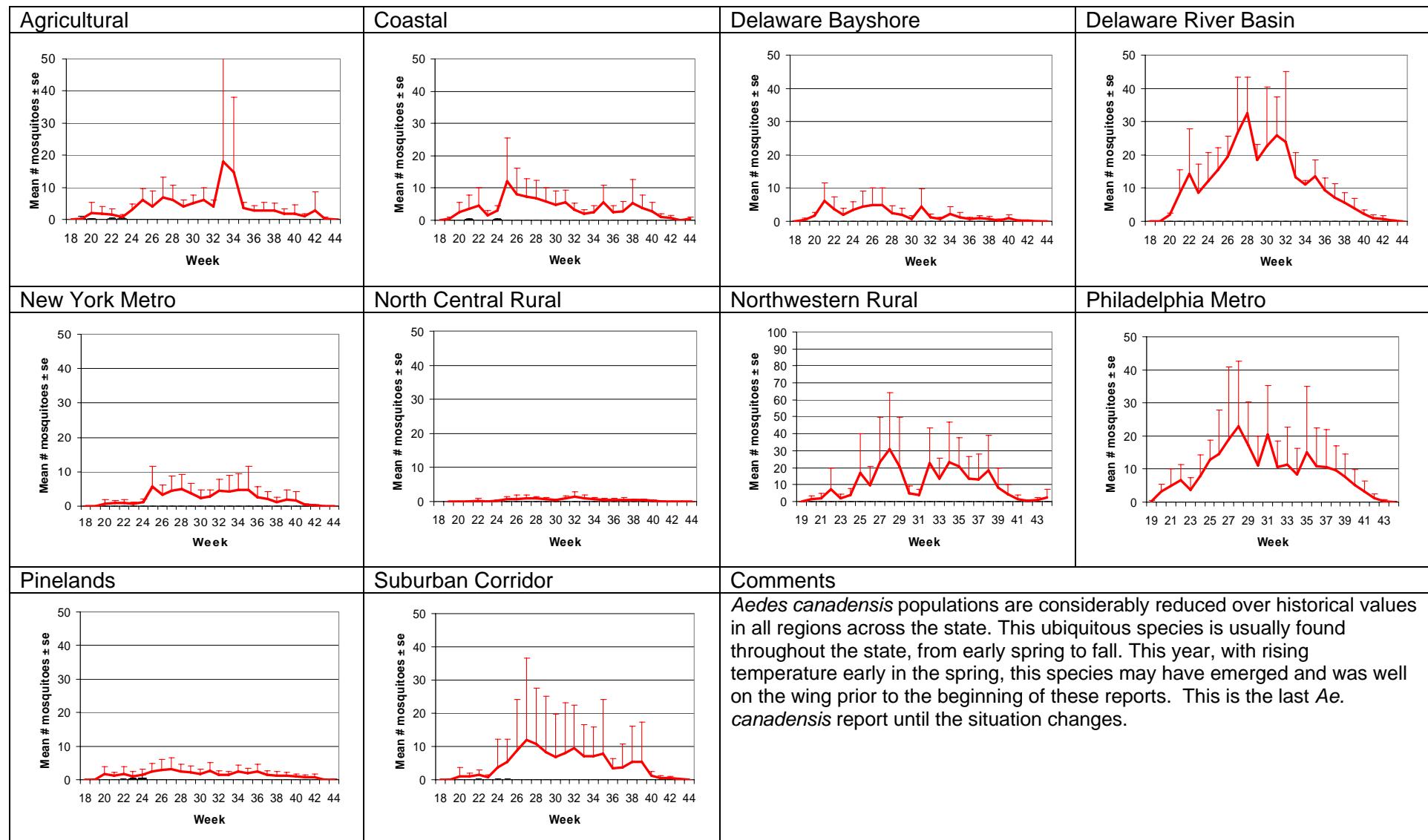


Aedes cantator- Salt Floodwater Species Multivoltine Aedine (*Ae. sollicitans* Type)



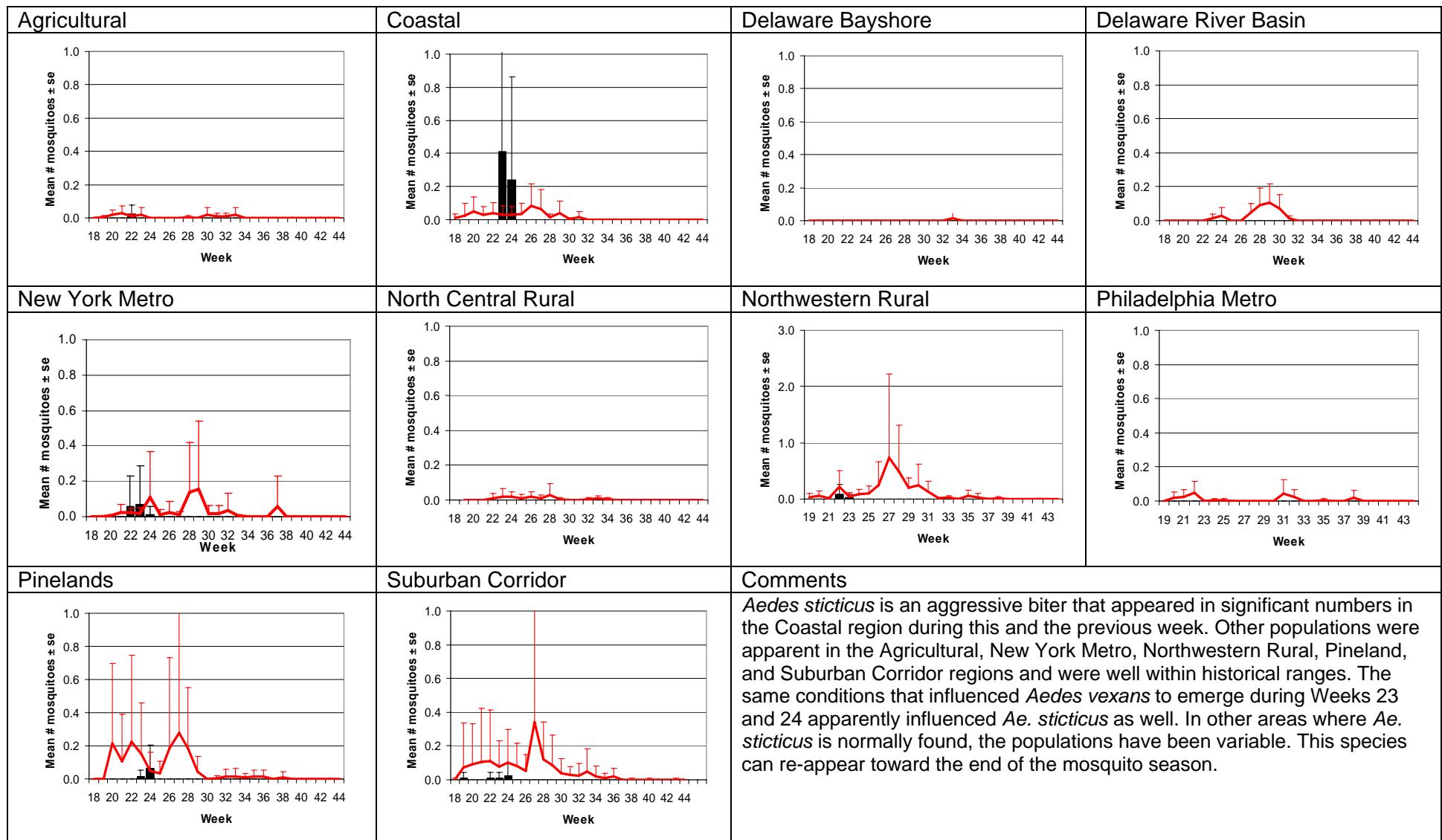
Aedes canadensis – Early Spring Species

Univoltine Aedine (*Ae. canadensis* Type)



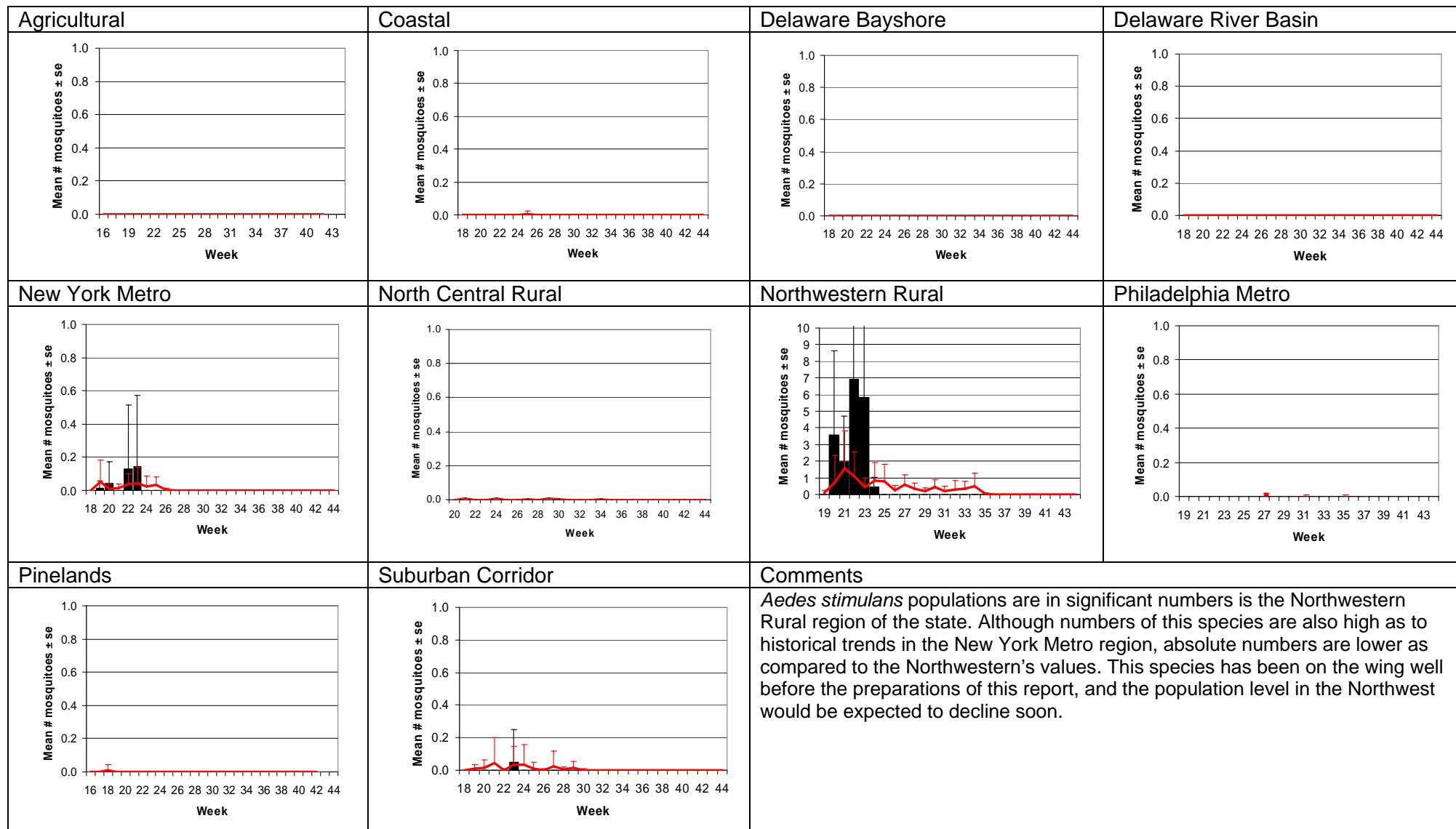
Aedes sticticus – Early Spring Species

Univoltine Aedine (*Ae. canadensis* Type)



Aedes stimulans – Northern Aedes Species

Univoltine Aedine (*Ae. stimulans* Type)



Top Ten Mosquito Species/Region

