

NEW JERSEY ADULT MOSQUITO SURVEILLANCE

Report for 13 August to 19 August 2017, CDC Week 33

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Center for Vector Biology



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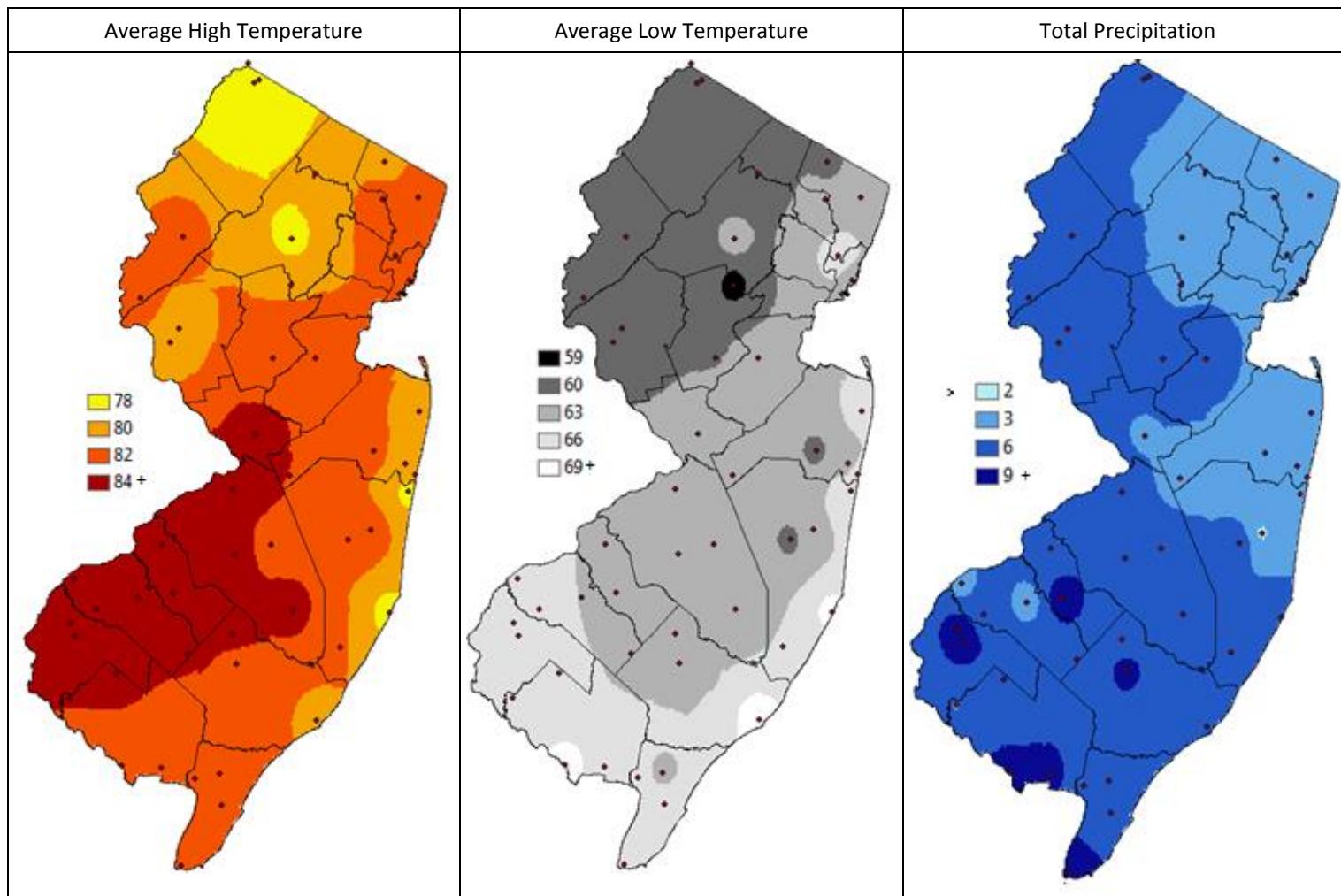
Summary Table – Week 33

Region	Aedes vexans			Culex Mix			Coquillettidia perturbans			Aedes sollicitans		
	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase
Agricultural	0.74	1.45	0	0.95	14.89	0	0.00	0.06	0	0.00	0.01	0
Coastal	4.22	1.51	4	6.22	6.76	0	0.02	0.19	0	1.81	2.55	0
Delaware Bayshore	3.14	1.24	4	4.94	9.35	0	0.29	0.24	1	0.03	0.83	0
Delaware River Basin	0.00	4.31	0	0.00	2.64	0	0.00	0.31	0	0.00	0.00	0
New York Metro	3.14	0.49	4	15.44	2.60	4	0.07	0.03	3	0.49	0.14	4
North Central Rural	0.25	0.43	0	0.48	0.28	2	0.09	0.05	2	0.00	0.00	0
Northwest Rural	0.00	0.89	0	0.00	2.32	0	0.00	0.07	0	0.00	0.00	0
Philadelphia Metro	7.18	3.69	2	2.82	2.23	1	0.07	0.50	0	0.00	0.00	0
Pinelands	1.30	0.48	4	1.77	2.65	0	0.00	0.27	0	0.01	0.03	0
Suburban Corridor	0.38	1.09	0	1.18	1.23	0	0.01	0.59	0	0.00	0.01	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 in the increase column denote increases from an historic zero and thus no value can be appropriately given. nd=no data reported.

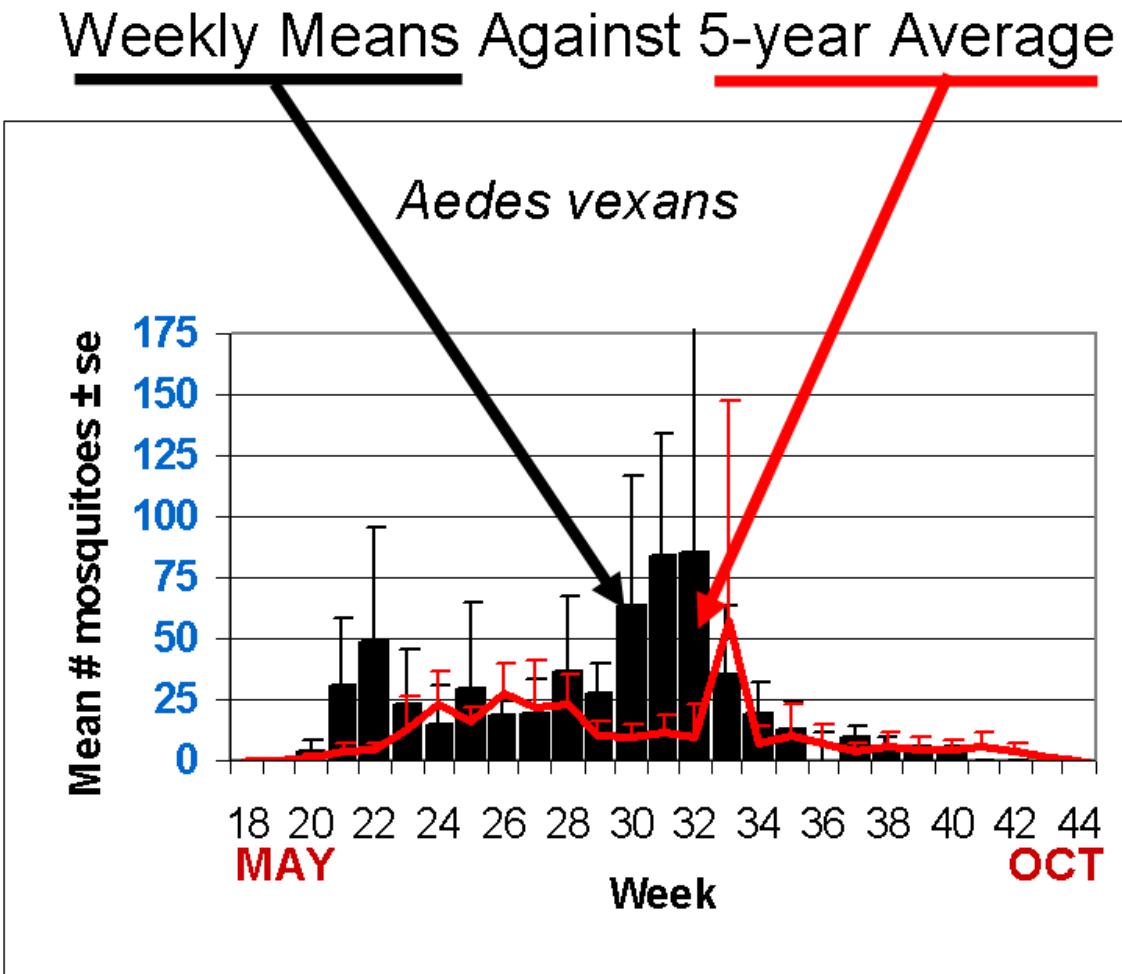
State Summary: Pestiferous species showed numerous populations that were above historical values throughout New Jersey. *Aedes vexans* numbers were significantly higher in the Coastal, Delaware Bayshore, New York Metropolitan, and Pinelands regions while *Culex Mix* and *Aedes sollicitans* abundances were significantly higher in the New York Metropolitan region. Moderately higher numbers of *Ae. vexans*, *Culex Mix* and *Coquillettidia perturbans* were also seen in Philadelphia Metropolitan, North Central and New York/North Central regions respectively.

Climate Factors



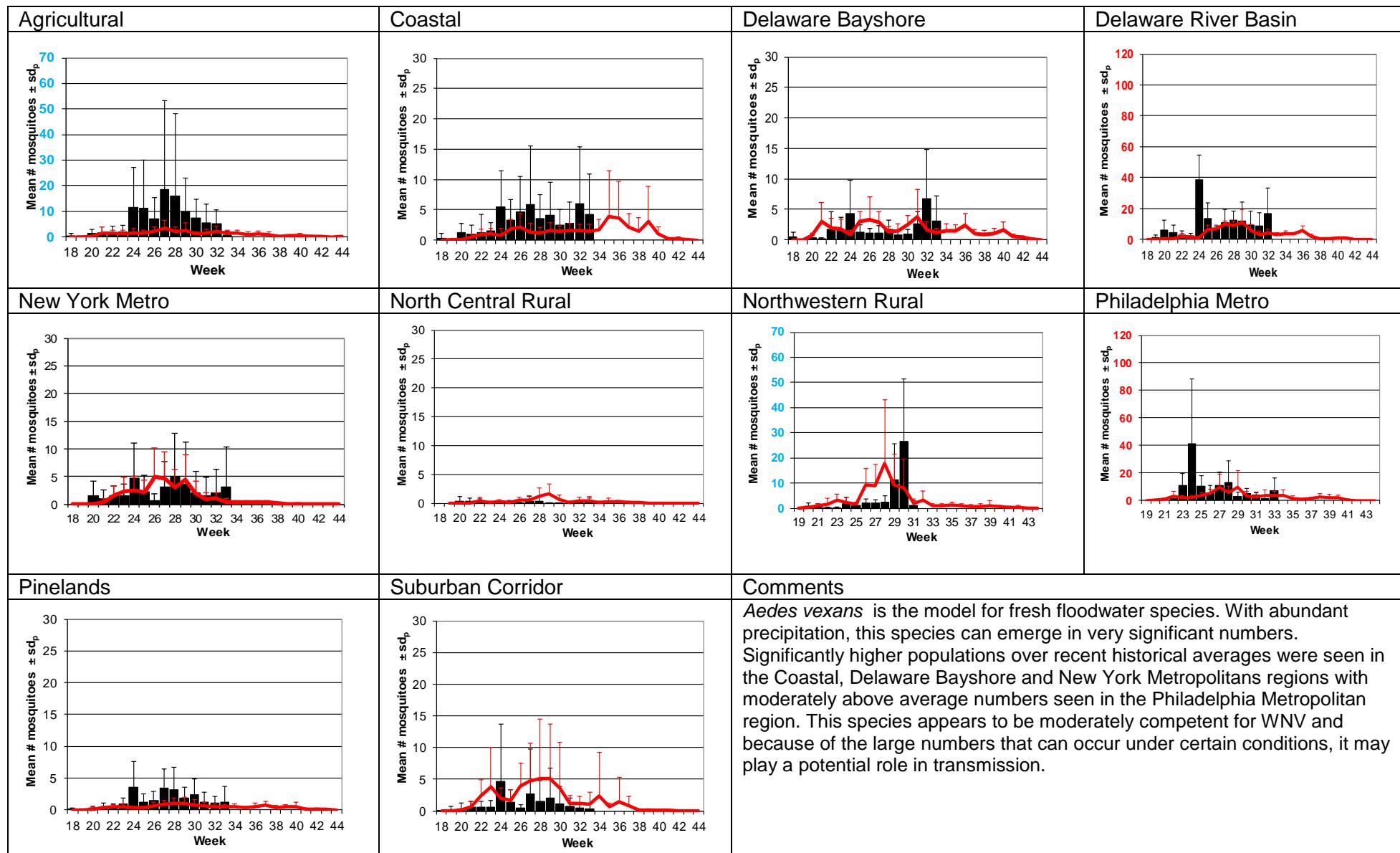
The three figures show the interpolation of average maximum (°F) and minimum temperature (°F) and total precipitation (inches) for 30 days prior to 19 August 2017 in New Jersey. Data points are from about 55 weather stations maintained through the New Jersey Weather & Climate Network and the State Climatologist. Interpolation between points was performed using ArcMap 10.1.

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 this week are from Atlantic, Bergen, Camden, Cape May, Hunterdon, Middlesex, Monmouth, Morris, and Union counties. Data for the previous week are from Atlantic, Bergen, Camden, Cape May, Cumberland, Essex, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Salem, Somerset, and Union counties.



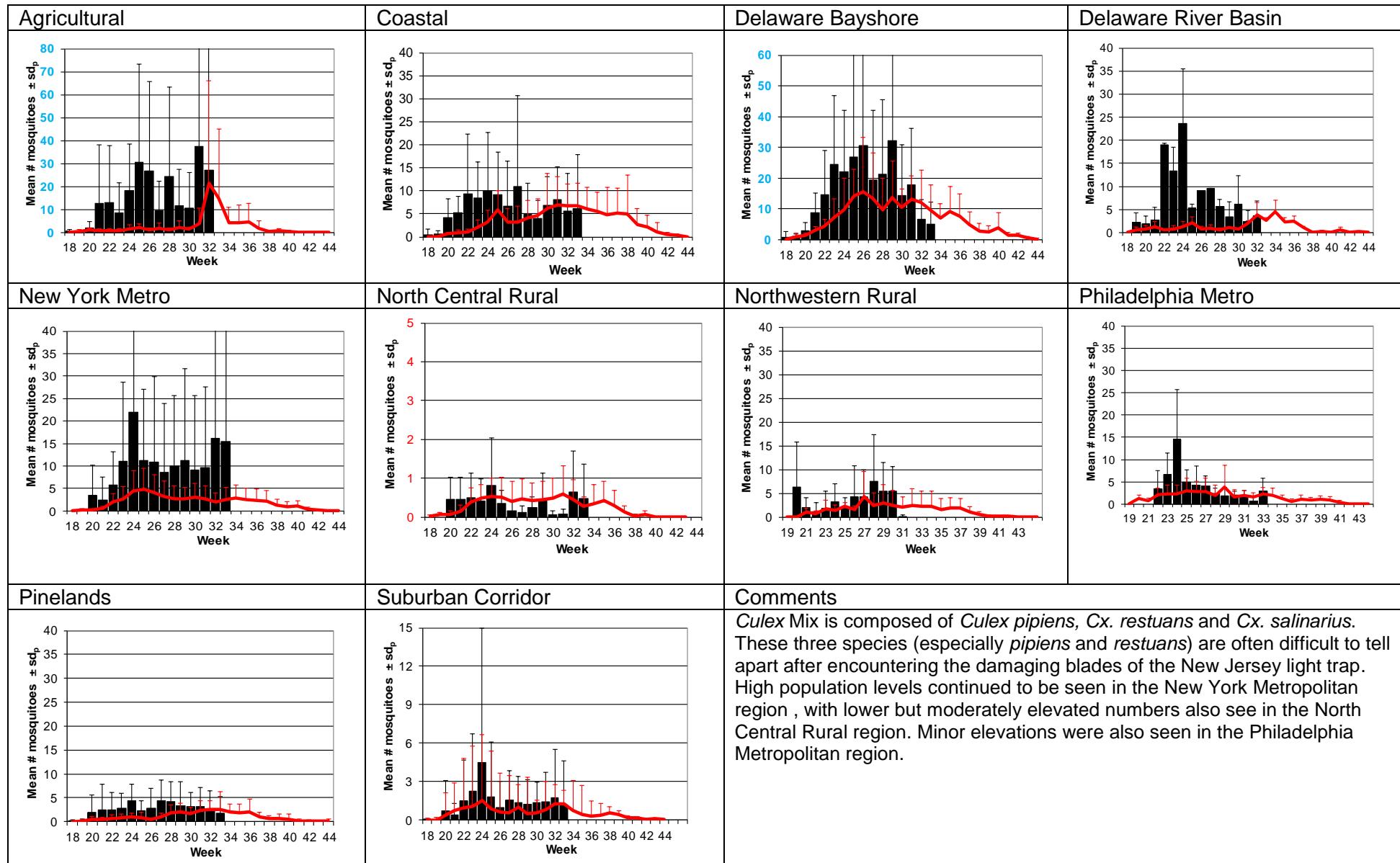
Aedes vexans - Fresh Floodwater Species

Multivoltine Aedine (Ae. vexans Type)



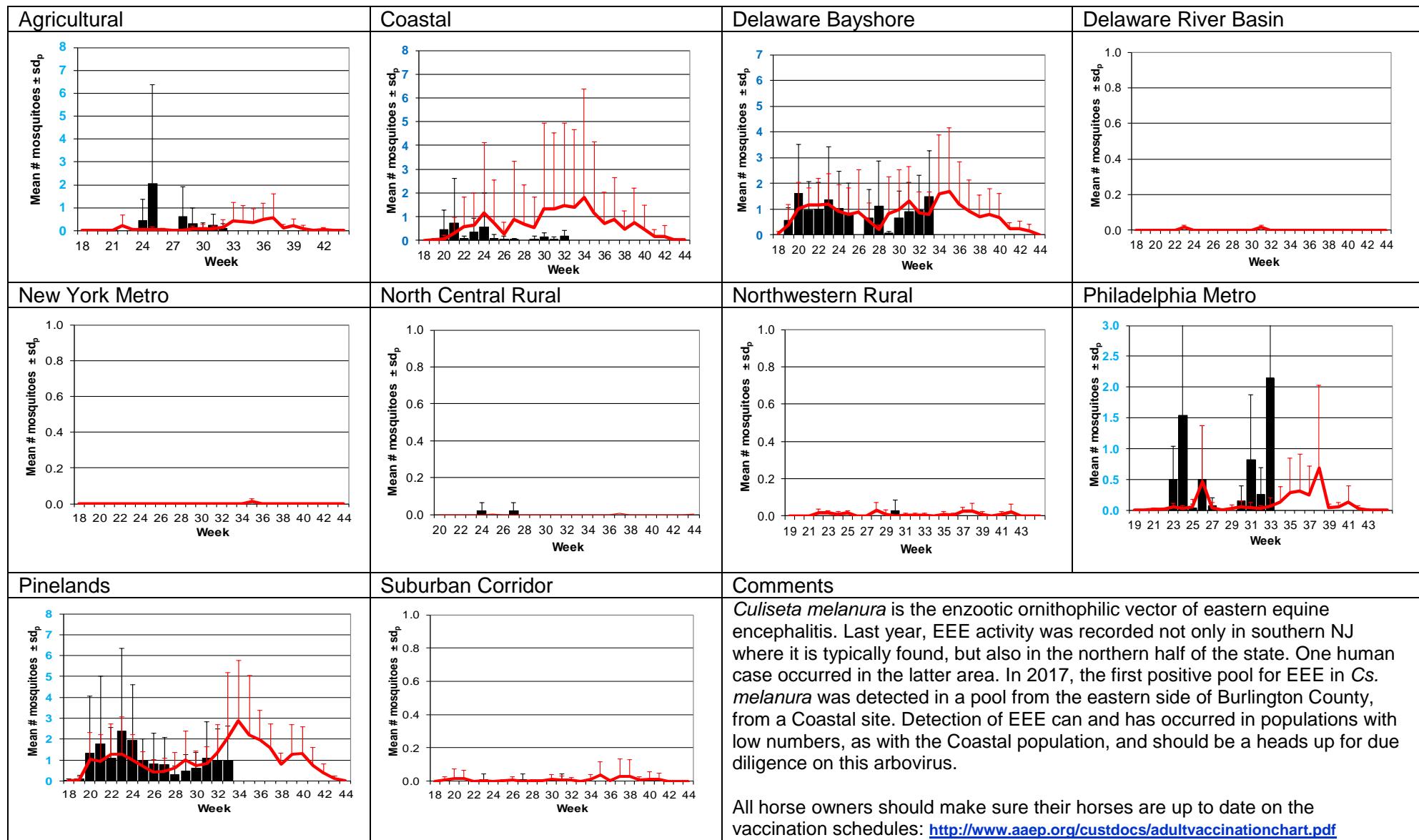
Culex Mix – Permanent Water Species

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



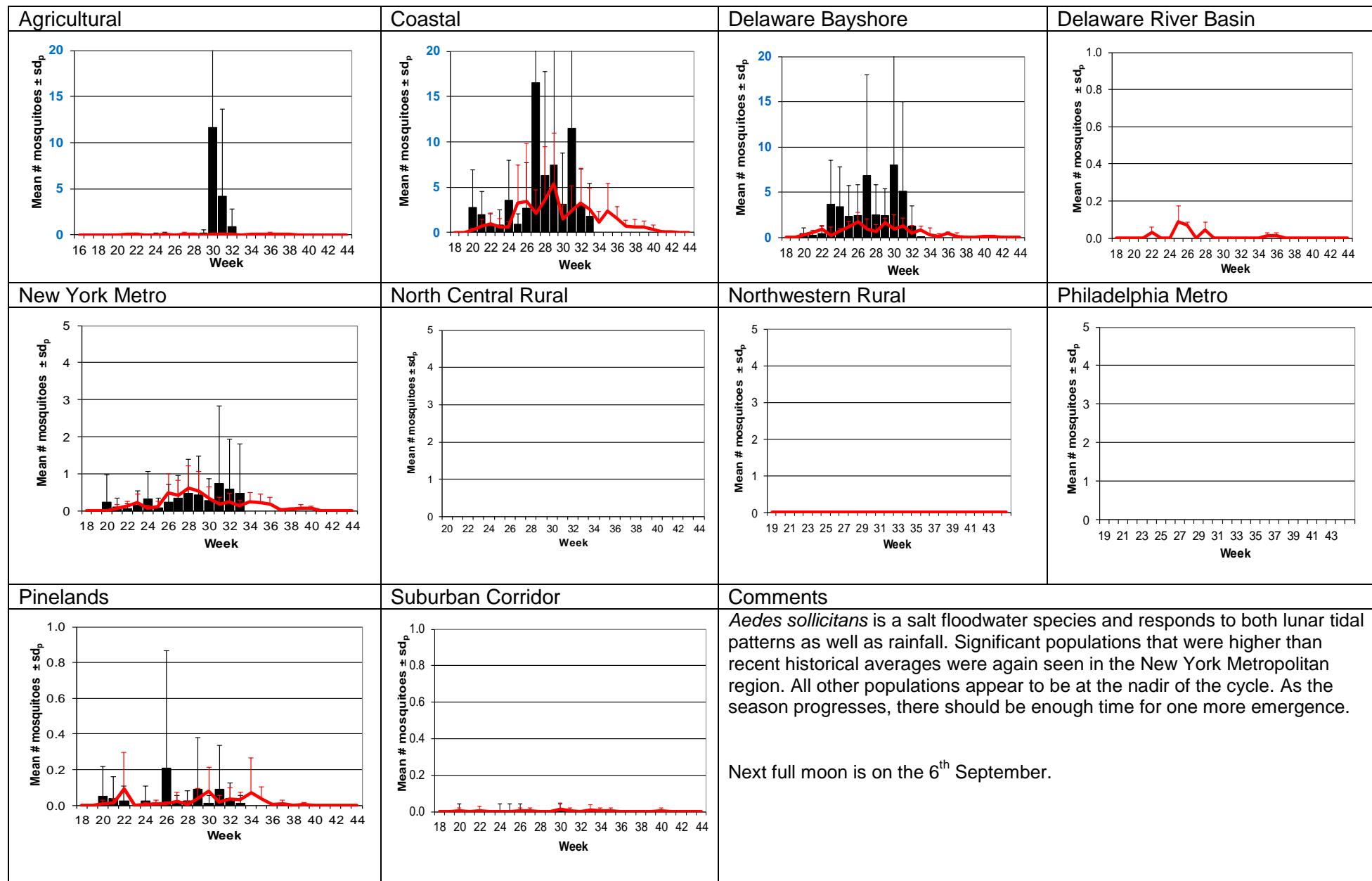
Culiseta melanura – Miscellaneous Group

Unique (*Cs. melanura* Type)



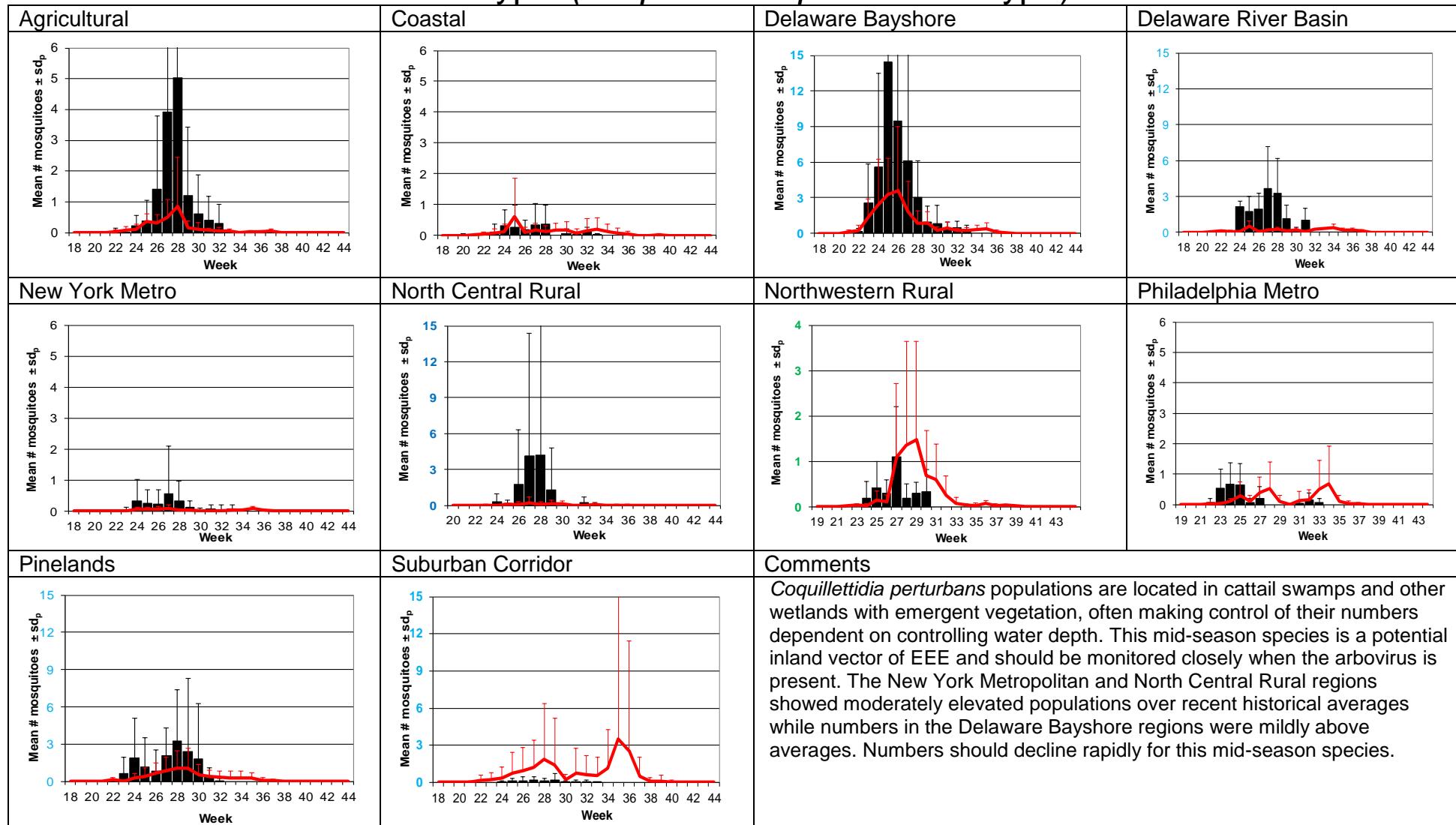
Aedes sollicitans - Salt Floodwater Species

Multivoltine Aedine (*Ae. sollicitans* Type)



Coquillettidia perturbans

Monotypic (*Coquillettidia perturbans* Type)

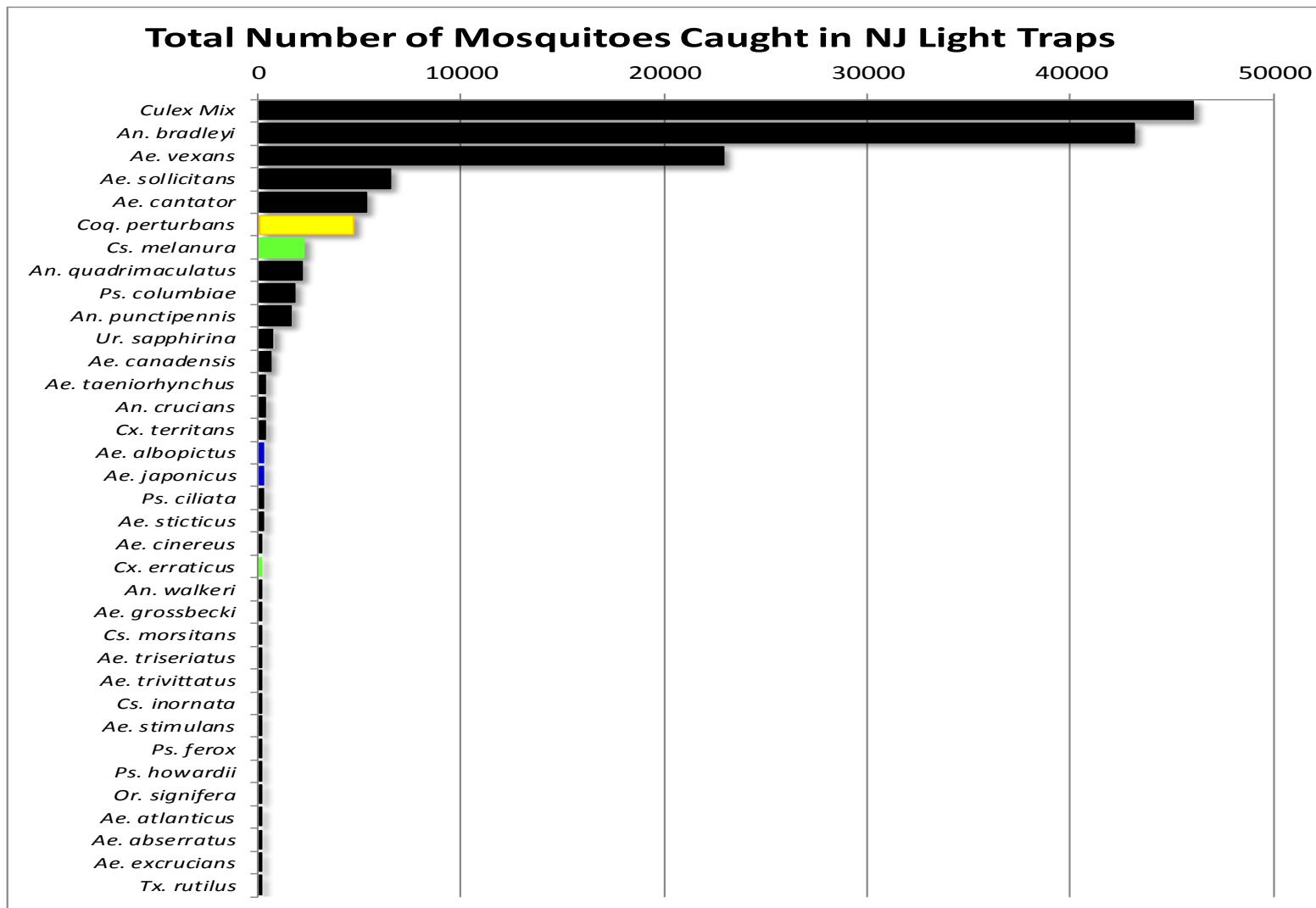


WNV

EEE

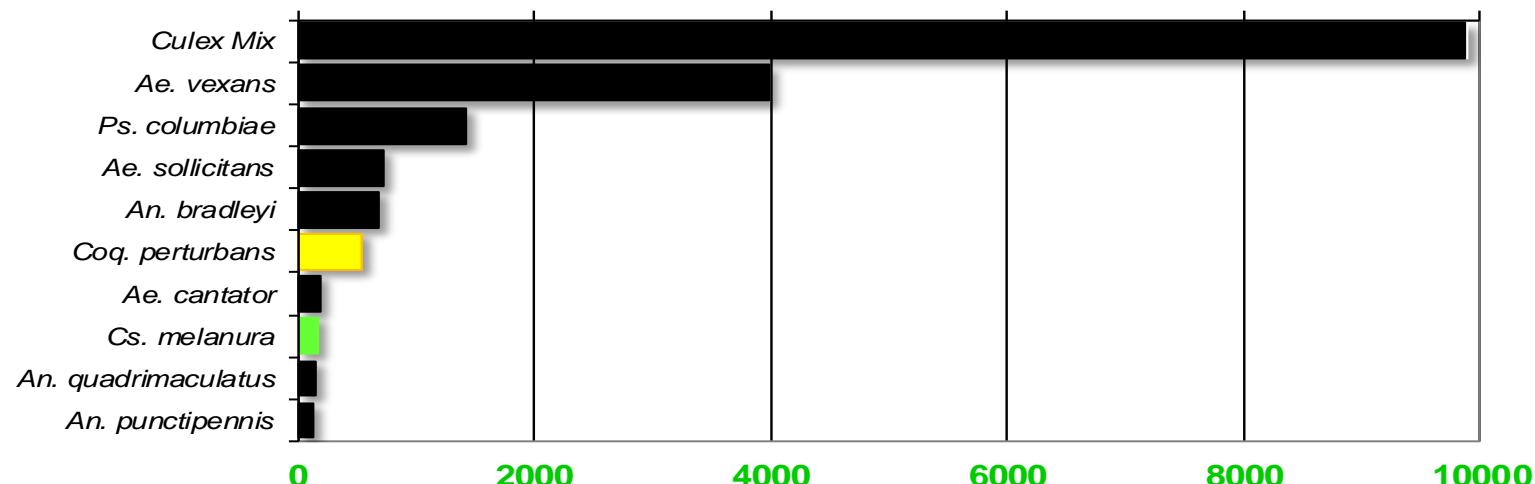
Top Ten Mosquito Species/Region - ■ *Ae. albopictus*, ■ *Ae. japonicus* (invasives); ■ *Cs. melanura* or *Cx. erraticus* ■ *Coq. perturbans*

Note: In early season when fewer species are caught, graphs may show less than ten species/region or 25 statewide.



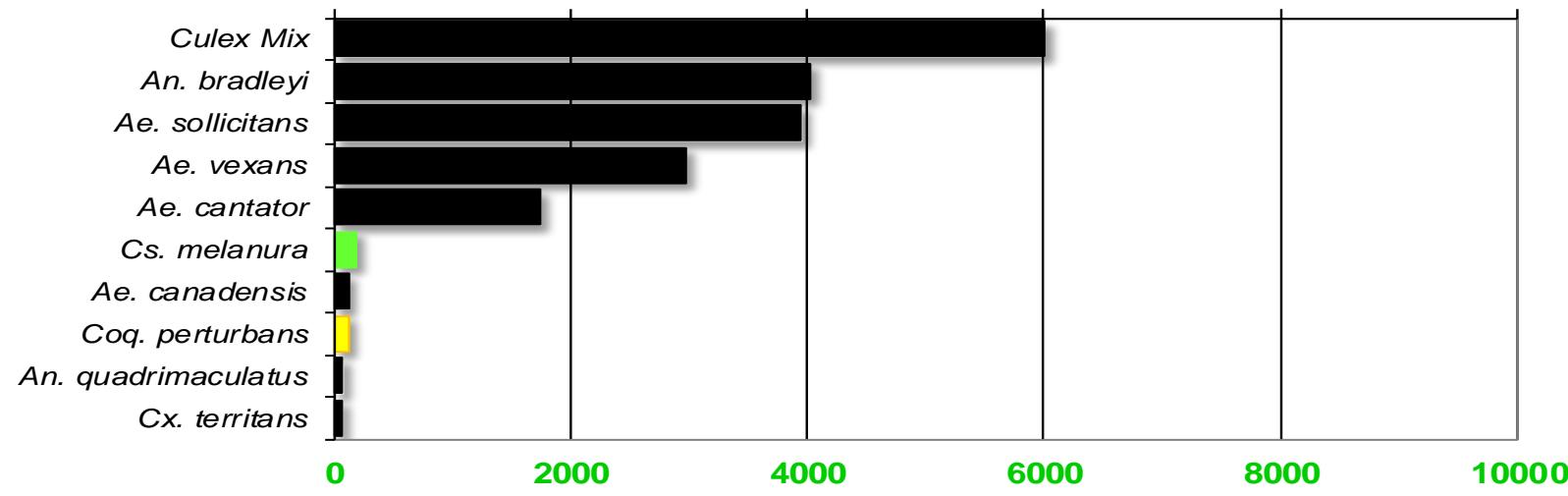
Agricultural

Total # mosquitoes



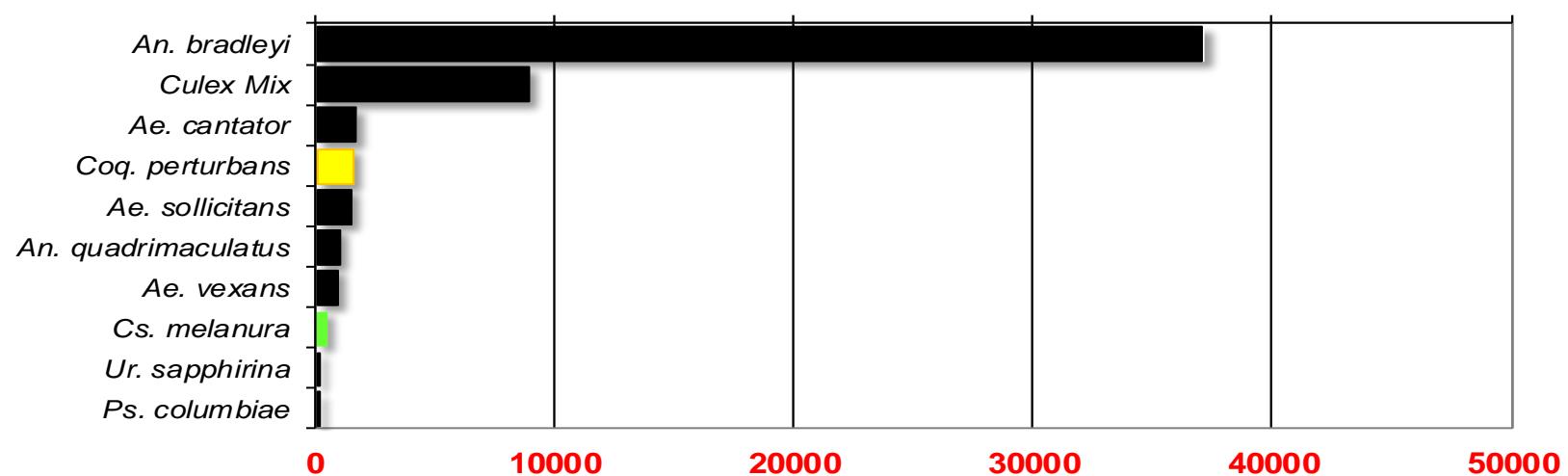
Coastal

Total # mosquitoes



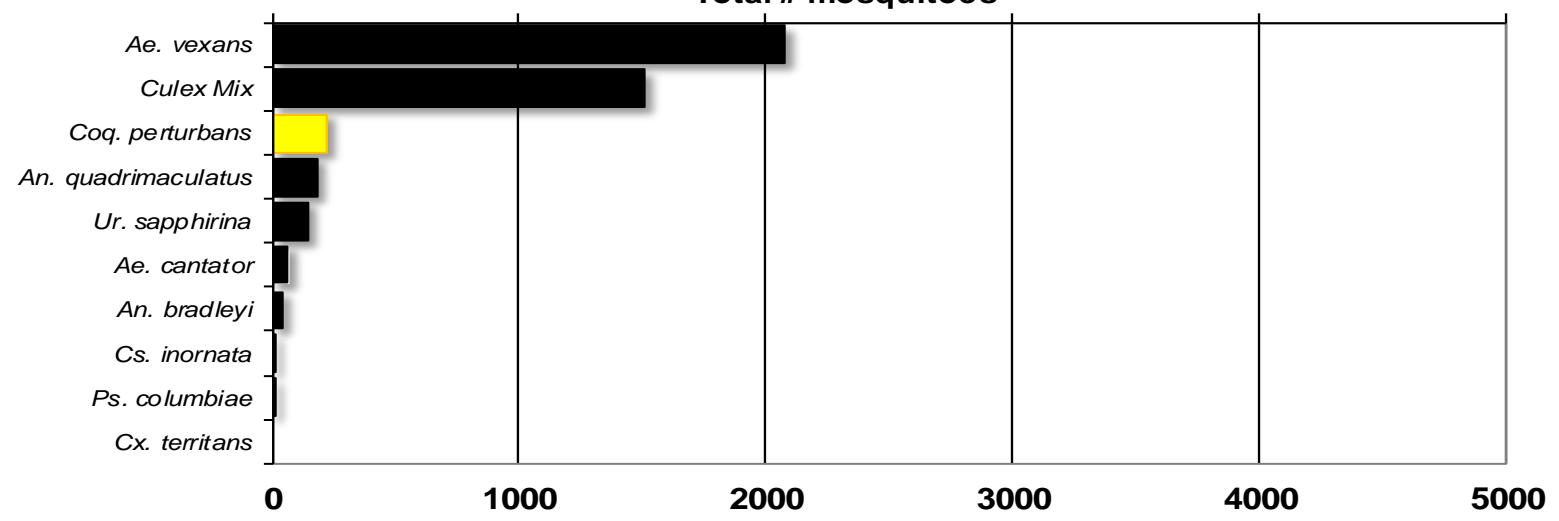
Delaware Bayshore

Total # mosquitoes



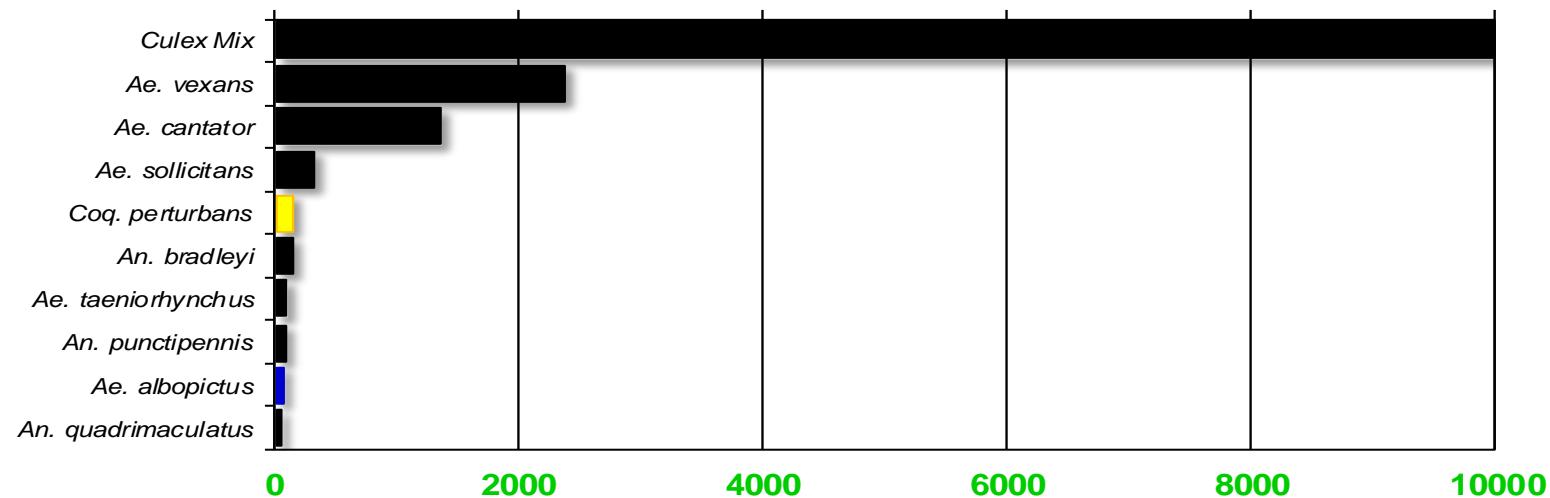
Delaware River Basin

Total # mosquitoes



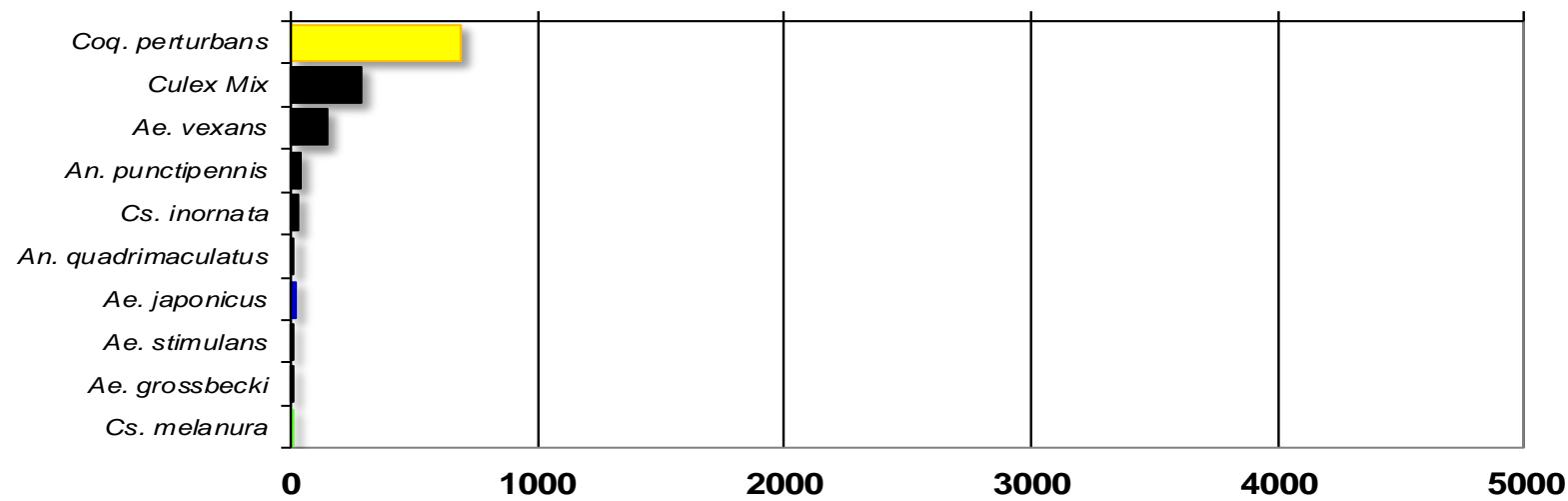
New York Metropolitan

Total # mosquitoes



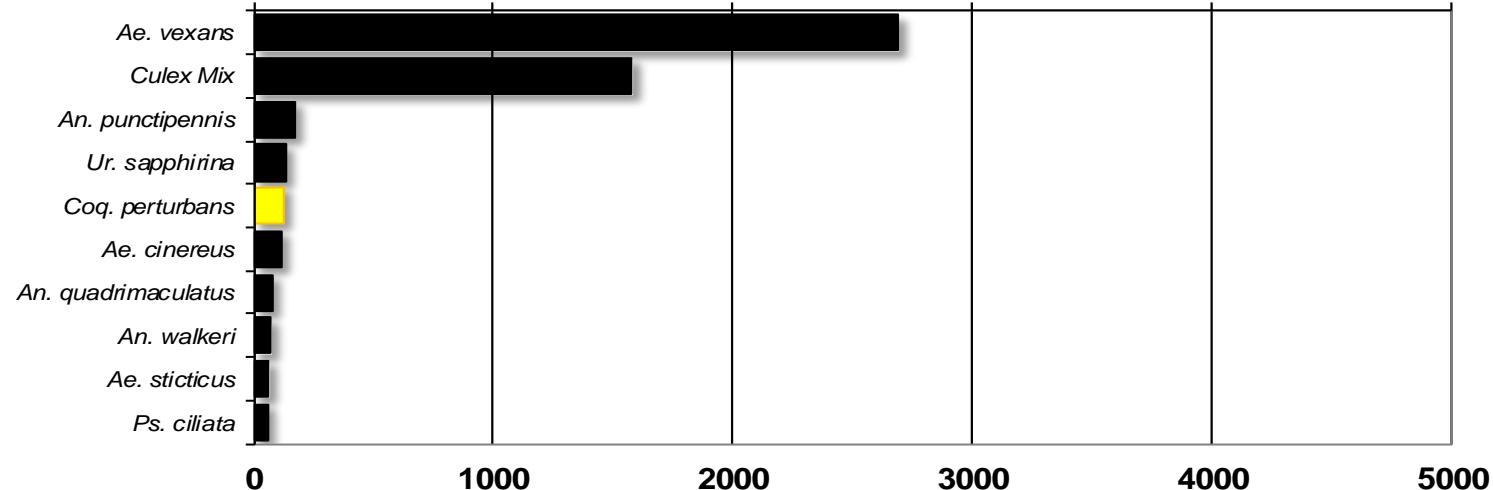
North Central Rural

Total # mosquitoes



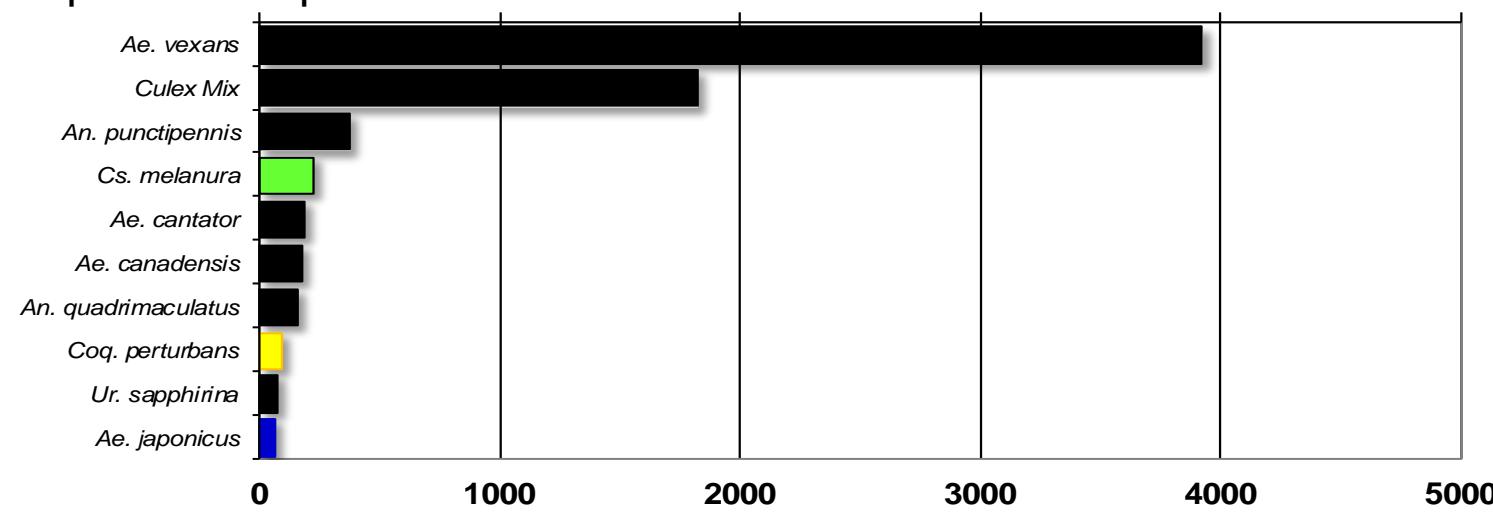
Northwest Rural

Total # mosquitoes



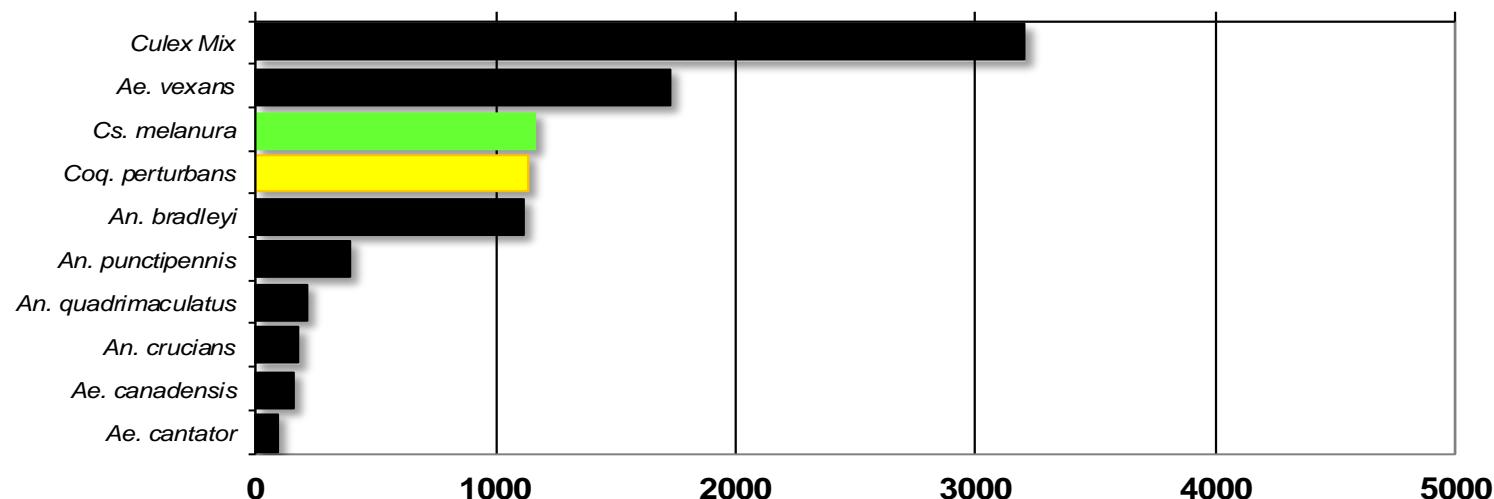
Philadelphia Metropolitan

Total # mosquitoes



Pinelands

Total # mosquitoes



Suburban Corridor

Total # mosquitoes

