

NEW JERSEY ADULT MOSQUITO SURVEILLANCE Report

August 16 to August 22, CDC Week 34

Prepared by Lisa M. Reed and Dina Fonseca
Center for Vector Biology



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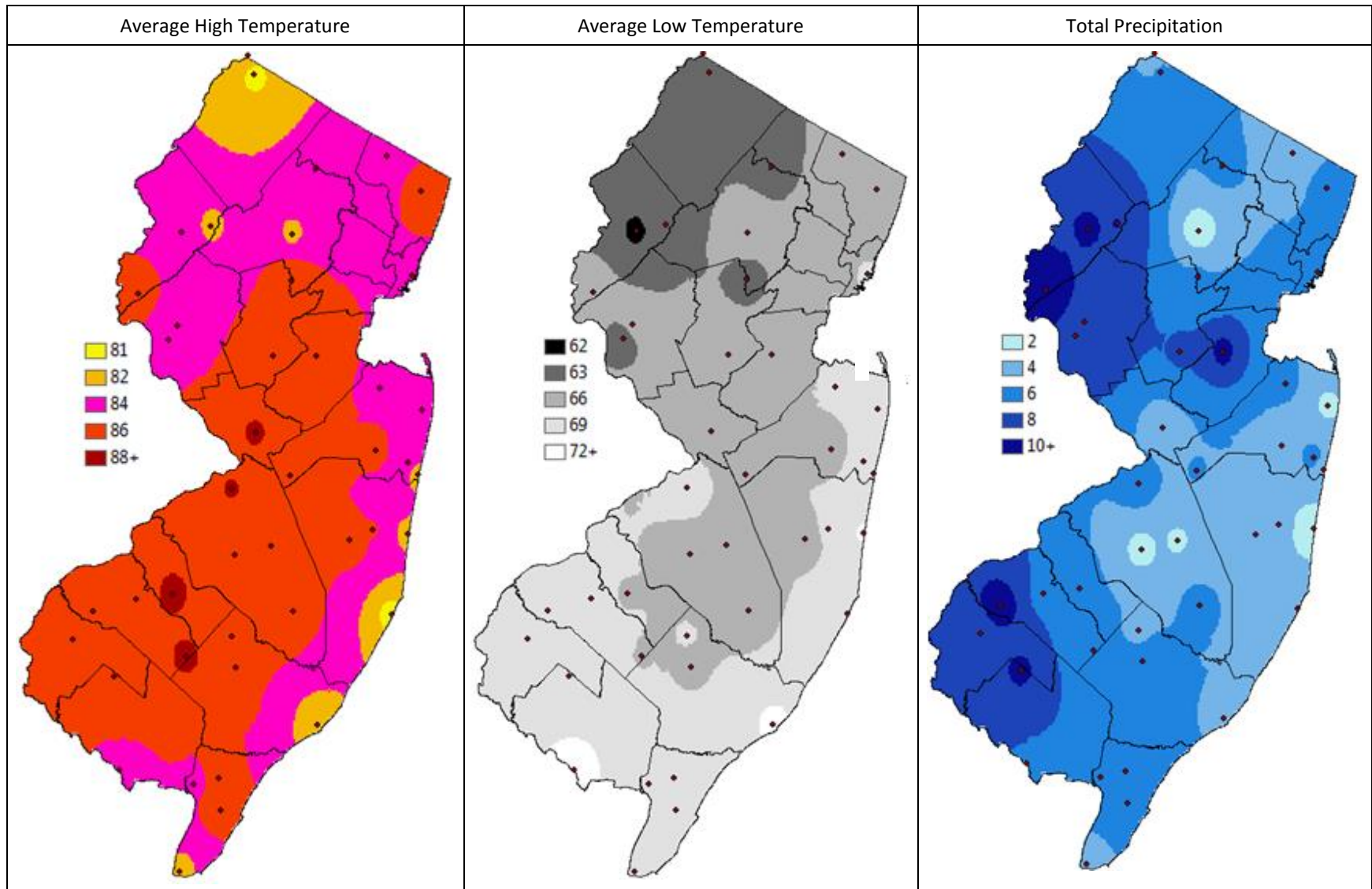
Summary Table – Week 34

Region	<i>Aedes vexans</i>			<i>Culex Mix</i>			<i>Coquillettidia perturbans</i>			<i>Aedes sollicitans</i>		
	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase	This Week	Average*	Increase
Agricultural	10.38	5.42	2	13.38	13.25	1	0.05	0.19	0	1.14	1.79	0
Coastal	0.29	3.83	0	1.30	9.10	0	0.02	0.13	0	0.97	1.14	0
Delaware Bayshore	2.57	1.74	1	27.86	9.89	4	0.00	0.87	0	10.06	1.17	4
Delaware River Basin	26.07	23.80	1	11.64	10.03	1	0.86	0.81	1	0.36	0.13	4
New York Metro	0.07	1.90	0	1.54	7.54	0	0.01	0.23	0	0.00	0.40	0
North Central Rural	0.02	0.49	0	0.05	0.34	0	0.00	0.06	0	0.00	0.00	0
Northwest Rural	1.86	17.25	0	1.43	4.98	0	0.02	0.06	0	0.00	0.00	0
Philadelphia Metro	0.00	6.16	0	0.00	2.30	0	0.00	0.68	0	0.00	0.00	0
Pinelands	0.21	1.74	0	2.00	2.40	0	0.05	1.39	0	0.01	0.61	0
Suburban Corridor	0.14	1.40	0	0.34	0.89	0	0.09	0.40	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: This week's data represents 10 out of 21 counties. *Aedes vexans* have modestly elevated populations in the Agricultural, Delaware Bayshore and Delaware River Basin regions. *Culex Mix* populations were significantly above historical averages in the Delaware Bayshore and mildly above in the Agricultural and the Delaware River Basin regions. *Coquillettidia perturbans* was mildly higher in the Delaware River Basin region. *Aedes sollicitans* were significantly higher in both the Delaware Bayshore and the Delaware River Basin regions.

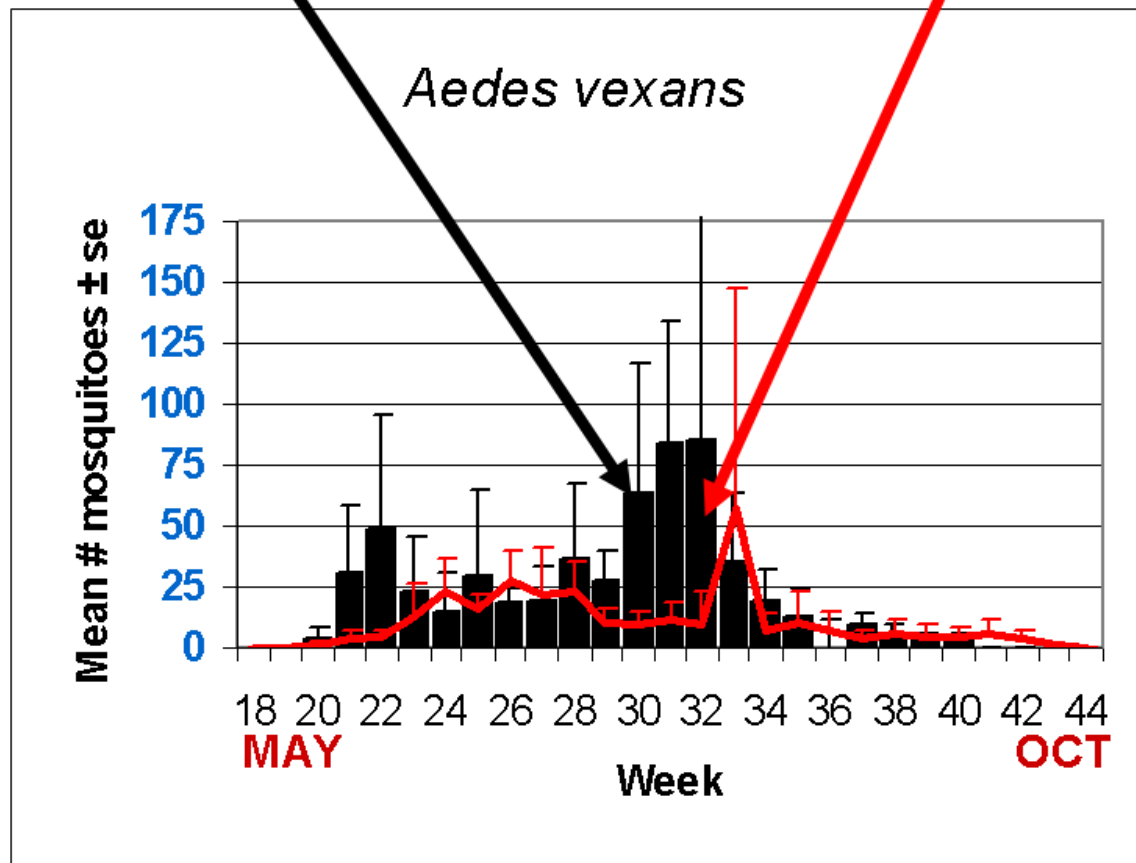
Climate Factors



The three figures show the interpolation of average maximum (°F) and minimum temperature (°F) and total precipitation (inches) for 30 days prior to 20 August 2020 in New Jersey. Data points are from about 50 weather stations maintained through the New Jersey Weather & Climate Network and the State Climatologist. Interpolation between points was performed using ArcMap 10.1.

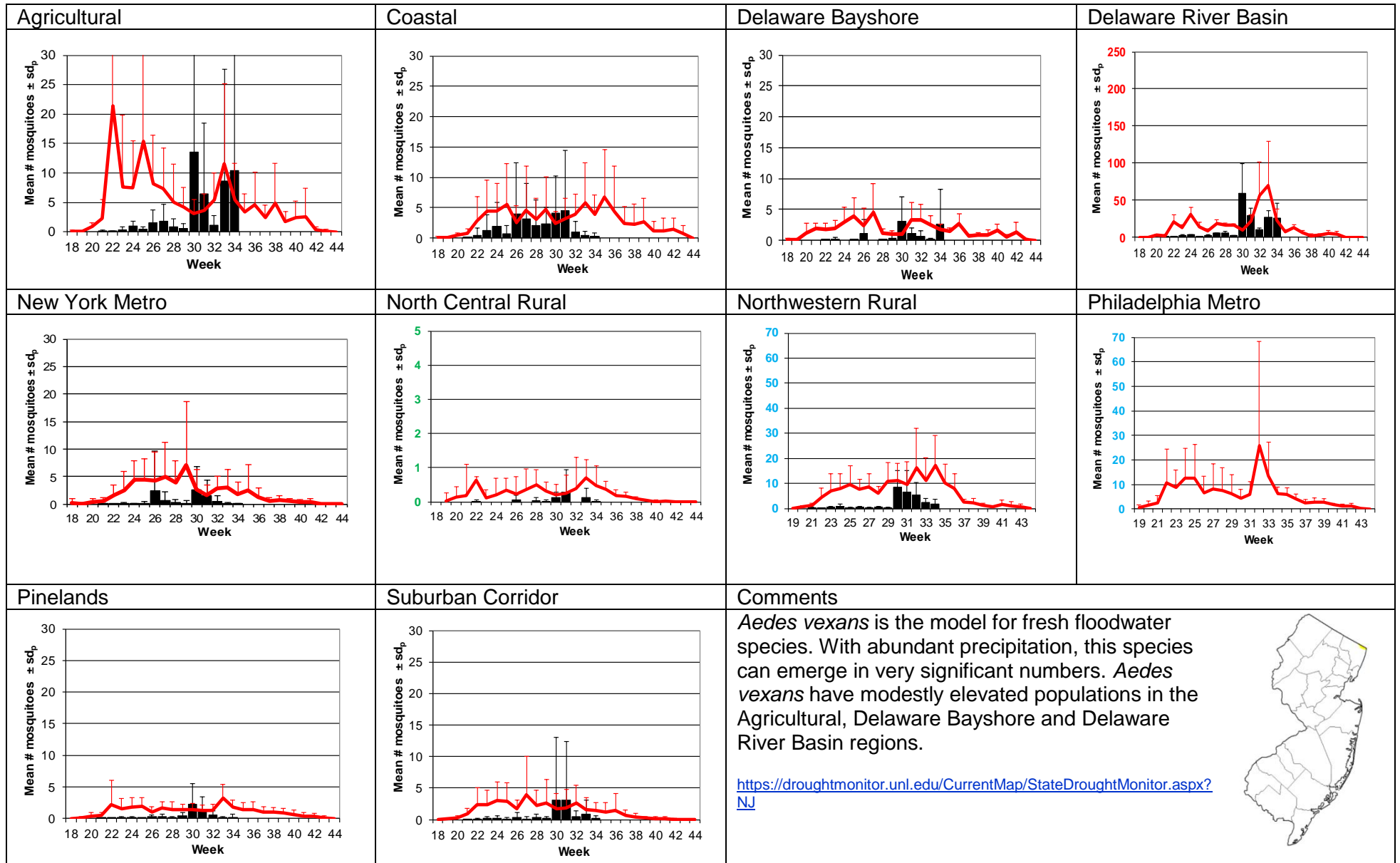
The Species Graphs: The species graph pages include a graph with two plots for each of the ten regions defined on the first page (Agricultural, Coastal, Delaware Bayshore, Delaware River, New York Metro, North-Central, Northwestern, Philadelphia Metro, Pinelands, and Suburban Corridor). Below is an example 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, Cumberland, Hudson, Hunterdon, Morris, Ocean, Salem, Sussex, Union, and Warren counties. Data for the previous week are from Atlantic, Bergen, Cape May, Cumberland, Hudson, Hunterdon, Monmouth, Morris, Ocean, Passaic, Salem, Somerset, Sussex, Union, and Warren counties.

Weekly Means Against 5-year Average

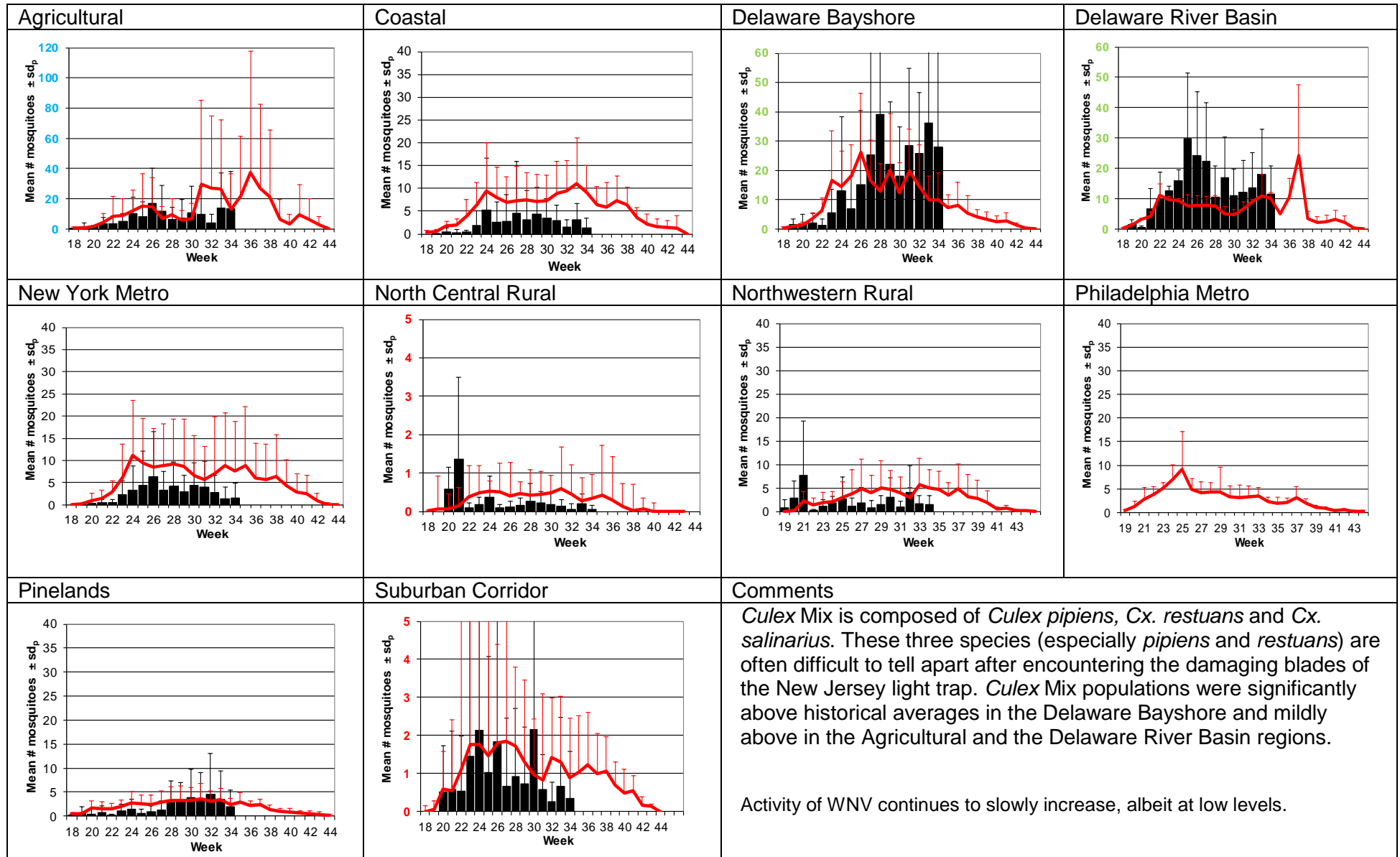


Aedes vexans - Fresh Floodwater Species

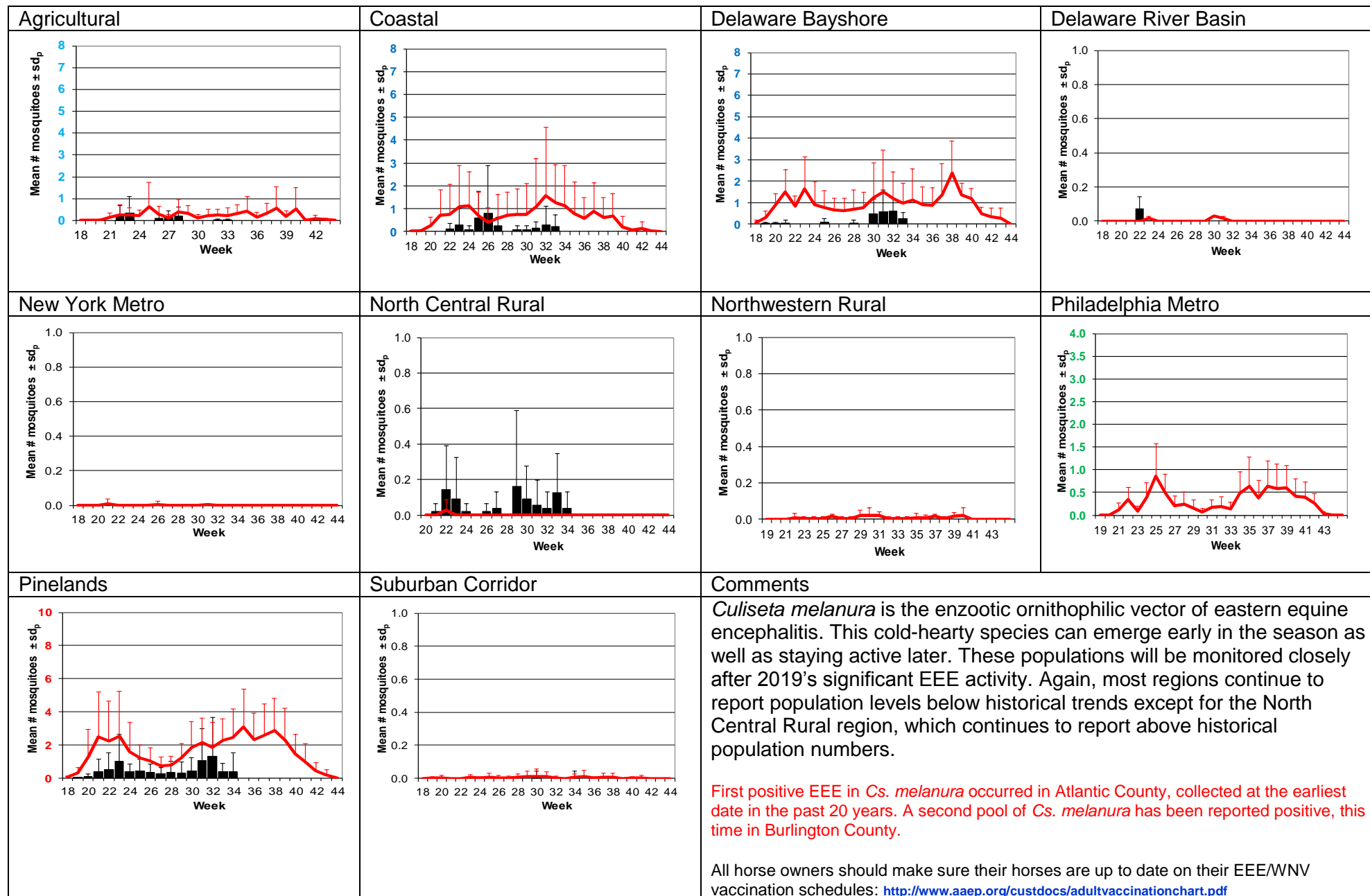
Multivoltine Aedine (*Ae. vexans* Type)



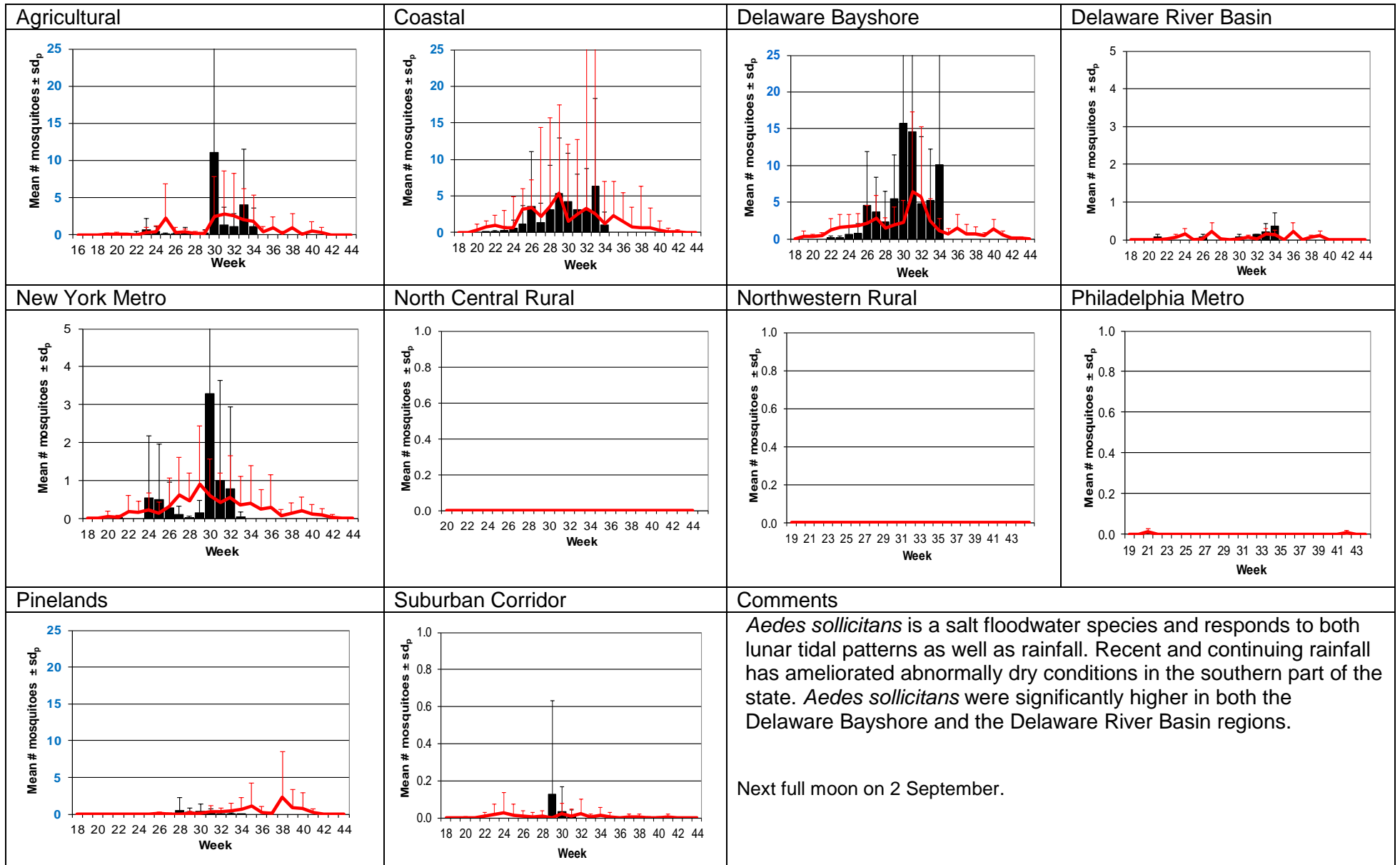
Culex Mix – Permanent Water Species Multivoltine *Culex/Anopheles* (*Cx. pipiens* Type)



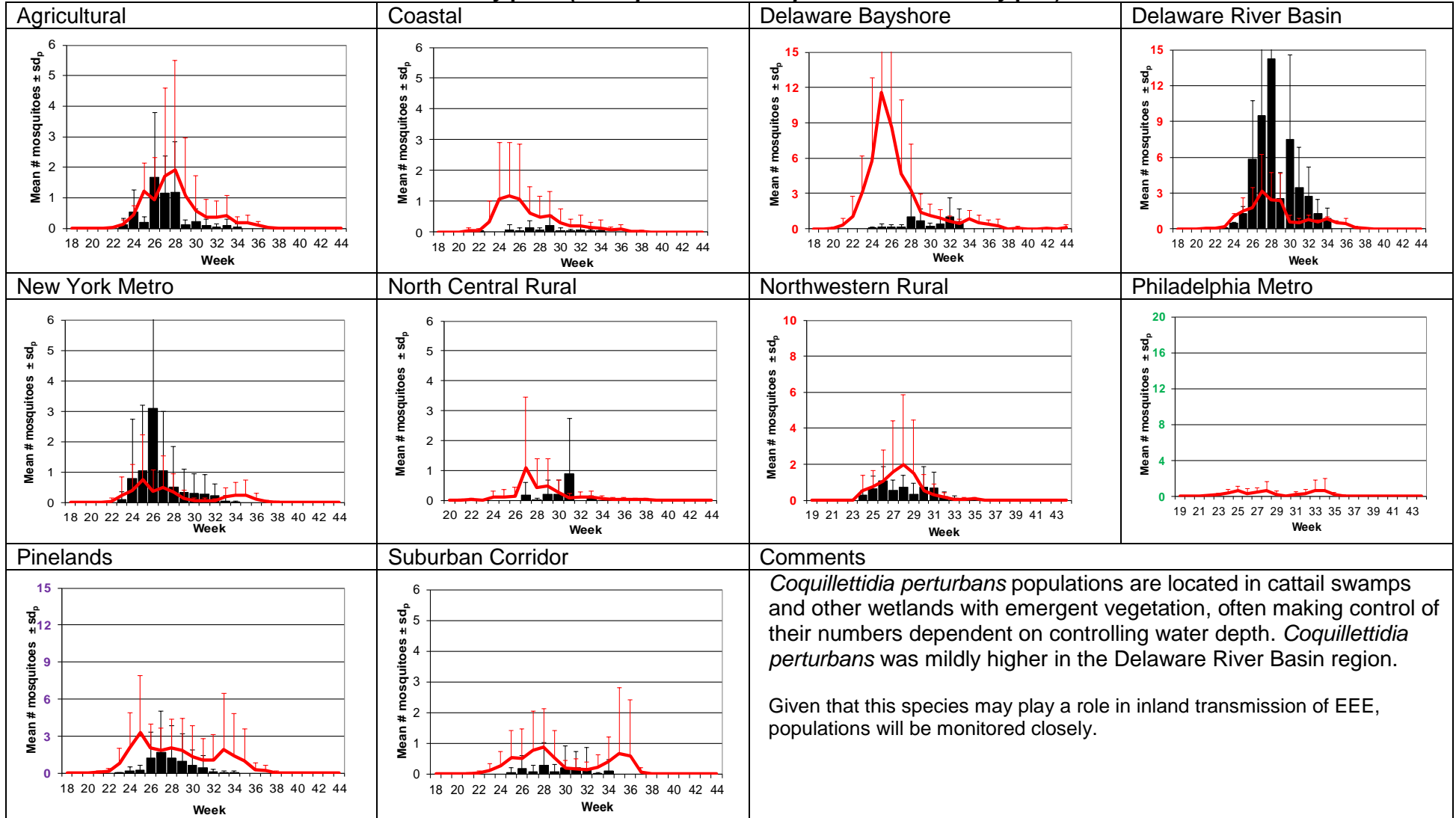
Culiseta melanura – Miscellaneous Group Unique (*Cs. melanura* Type)



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



Coquillettidia perturbans Monotypic (*Coquillettidia perturbans* Type)

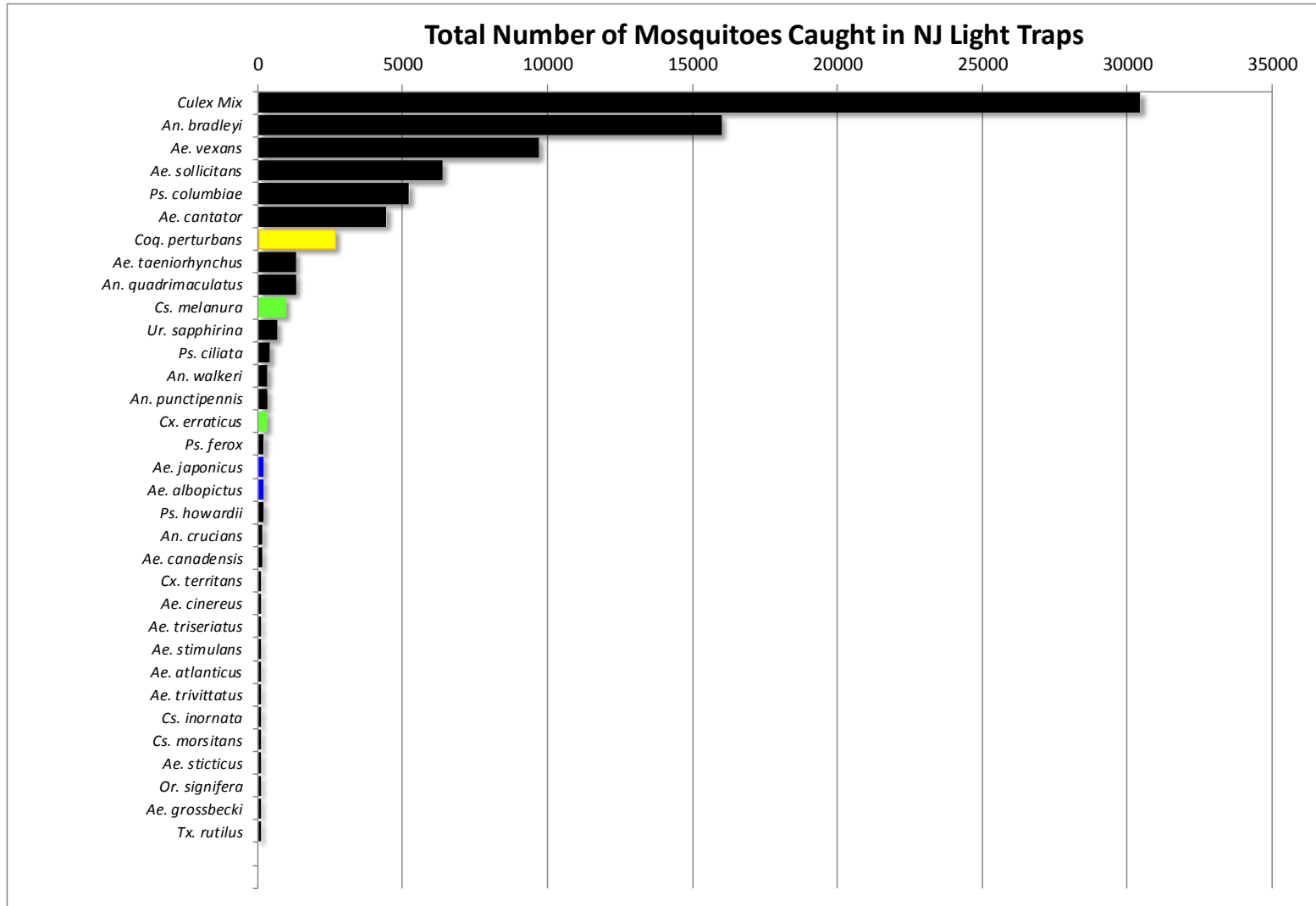


WNV

EEE

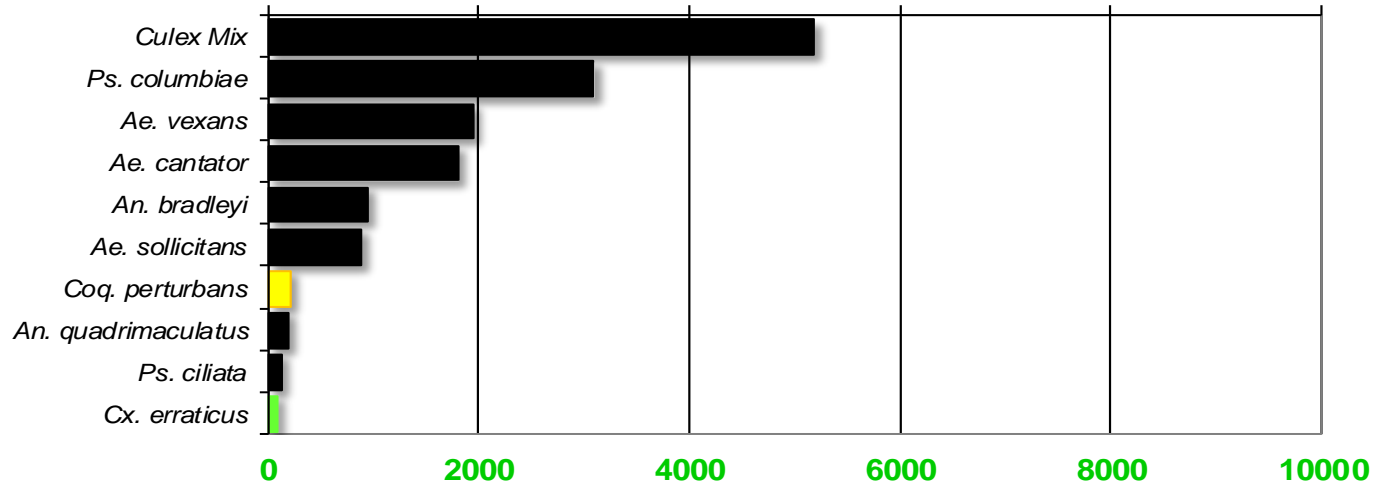
Top Ten Mosquito Species/Region - ■ *Ae. albopictus*, ■ *Ae. japonicus* (invasives); ■ *Cs. melanura* or *Cx. erraticus* ■ *Coq. perturbans*

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



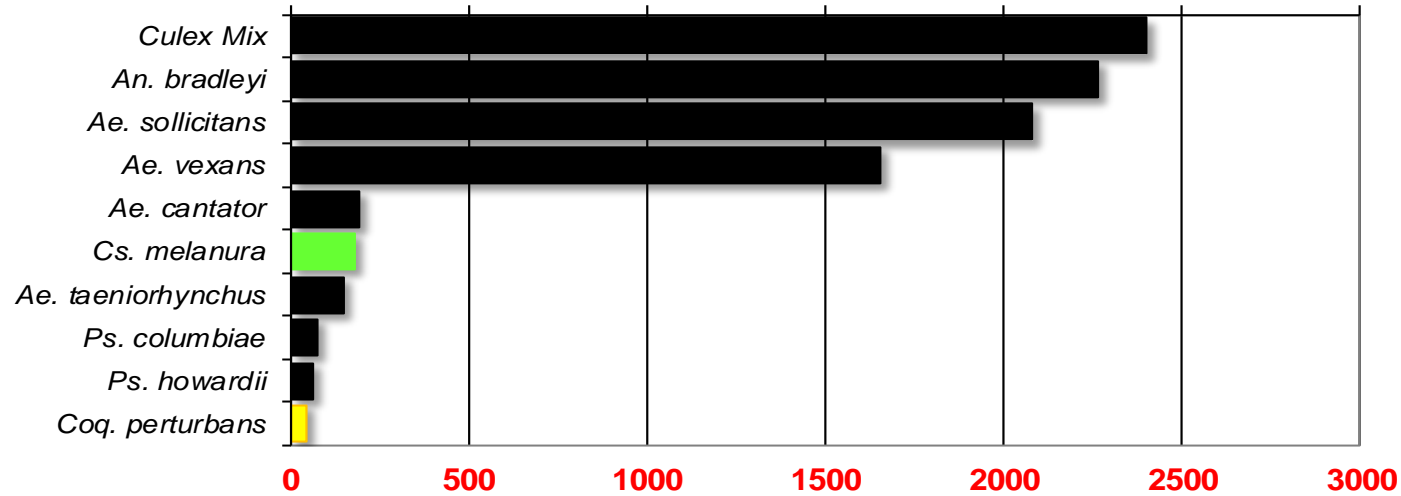
Agricultural

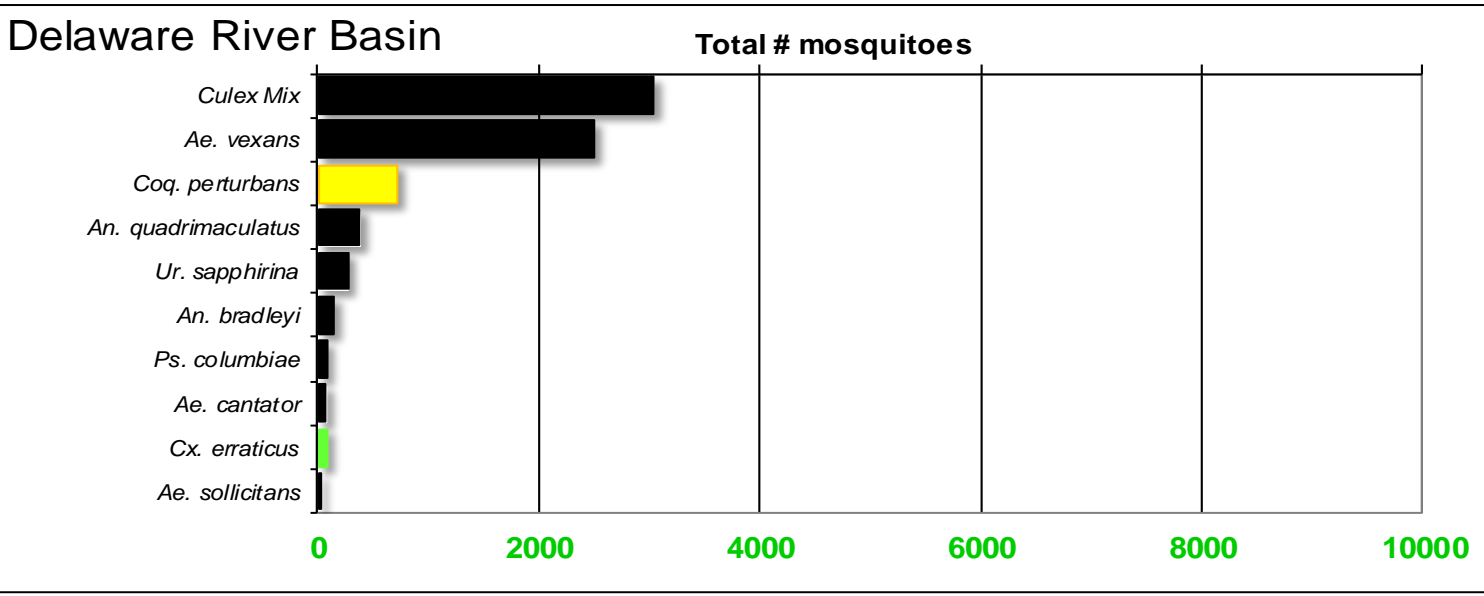
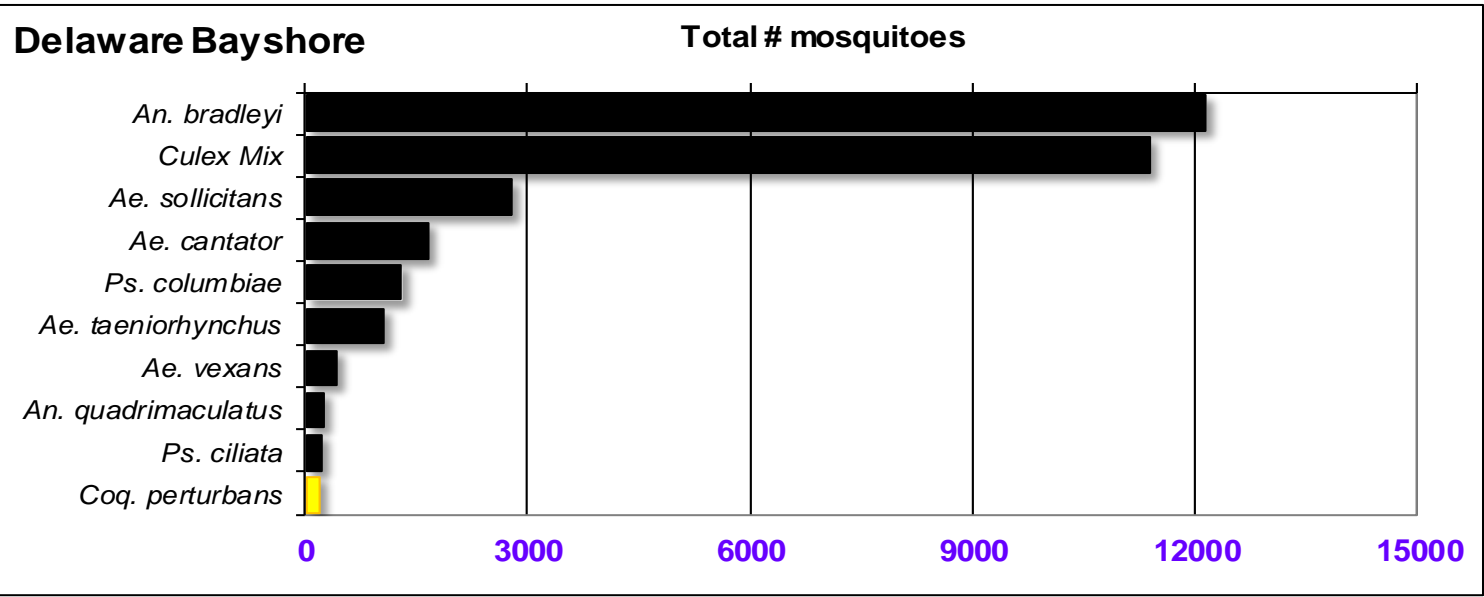
Total # mosquitoes



Coastal

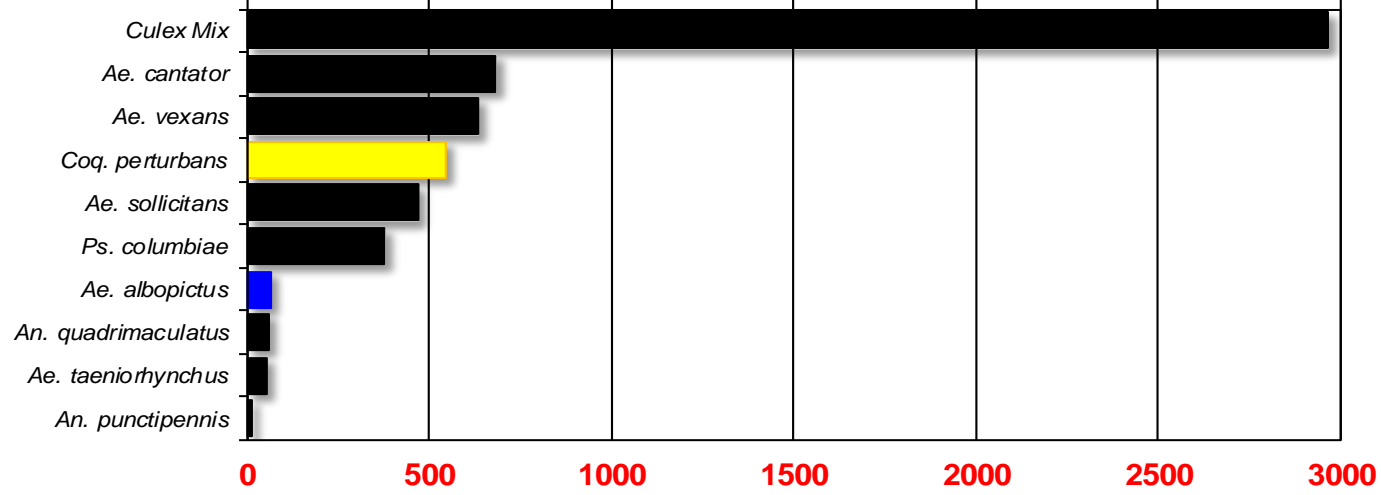
Total # mosquitoes





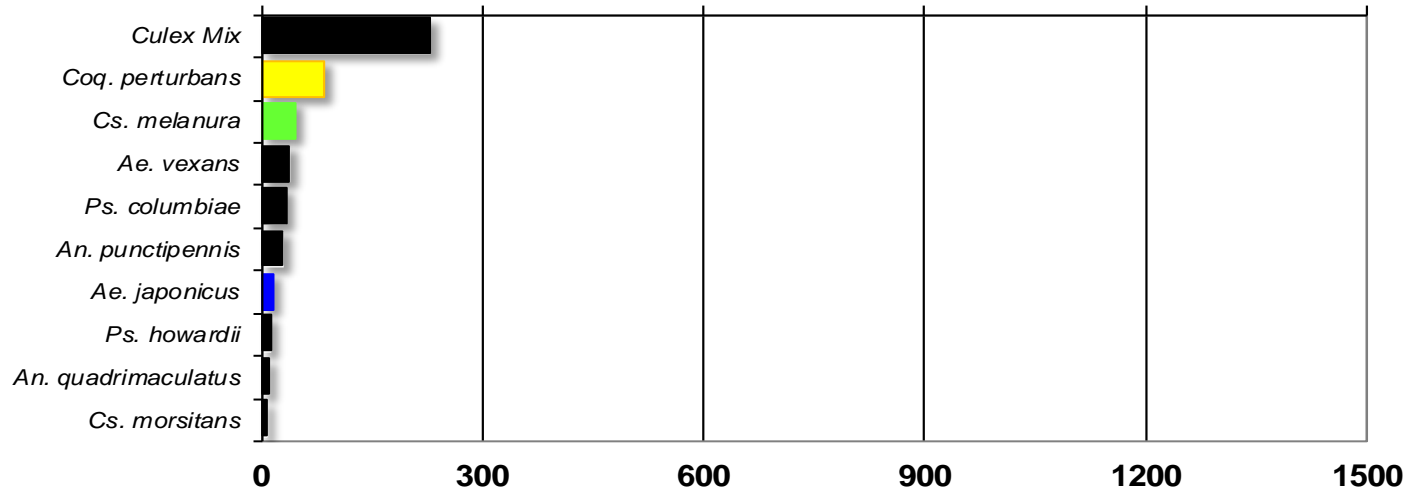
New York Metropolitan

Total # mosquitoes



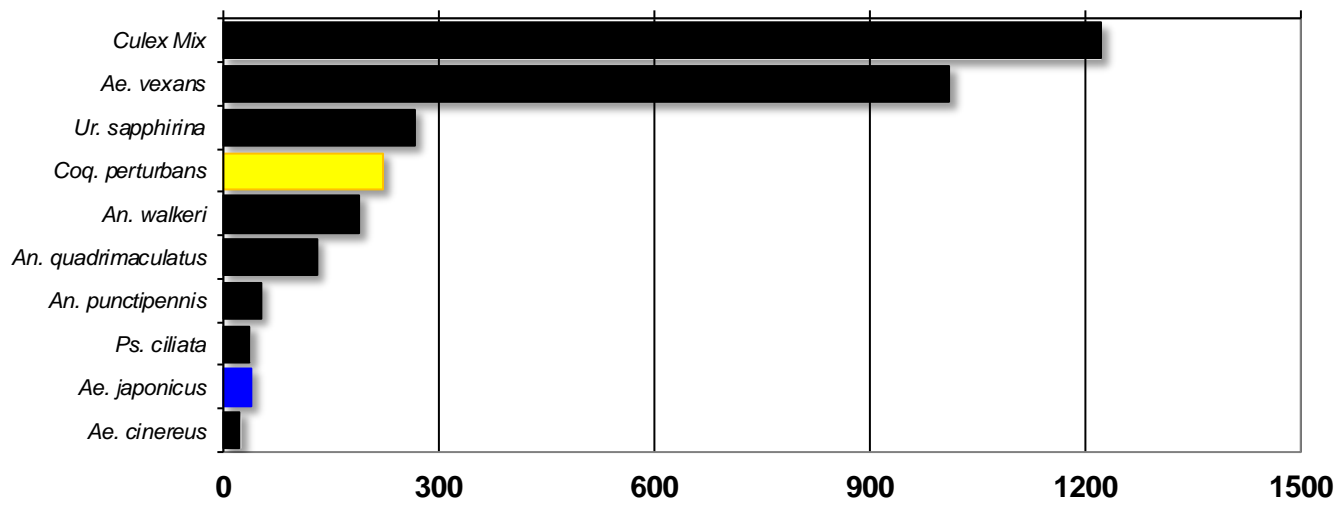
North Central Rural

Total # mosquitoes



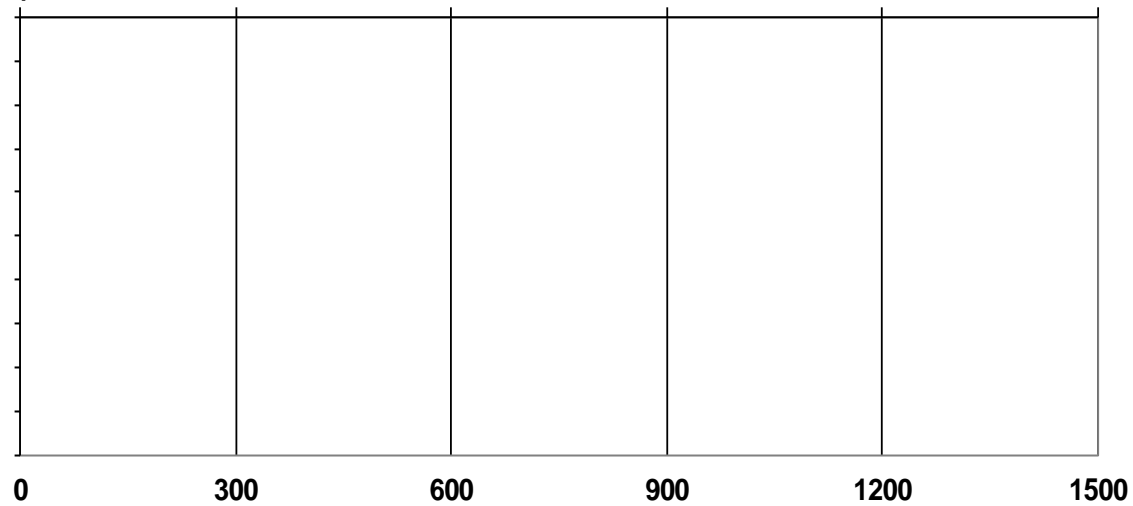
Northwest Rural

Total # mosquitoes



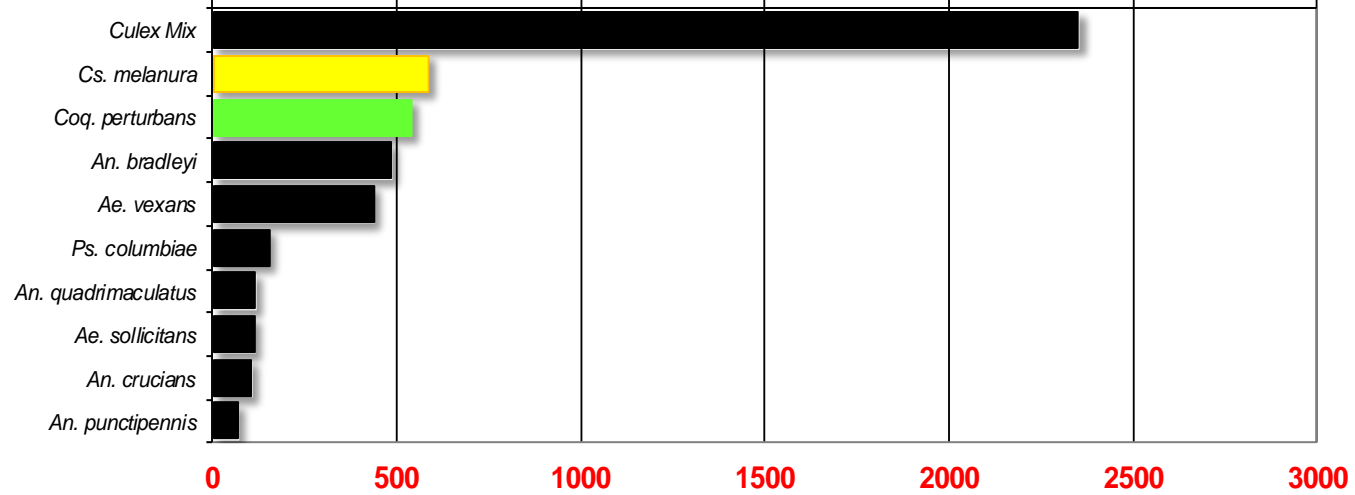
Philadelphia Metropolitan

Total # mosquitoes



Pinelands

Total # mosquitoes



Suburban Corridor

Total # mosquitoes

