

NEW JERSEY ADULT MOSQUITO SURVEILLANCE

Report for 8 July to 14 July 2012, CDC Weeks 28
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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.

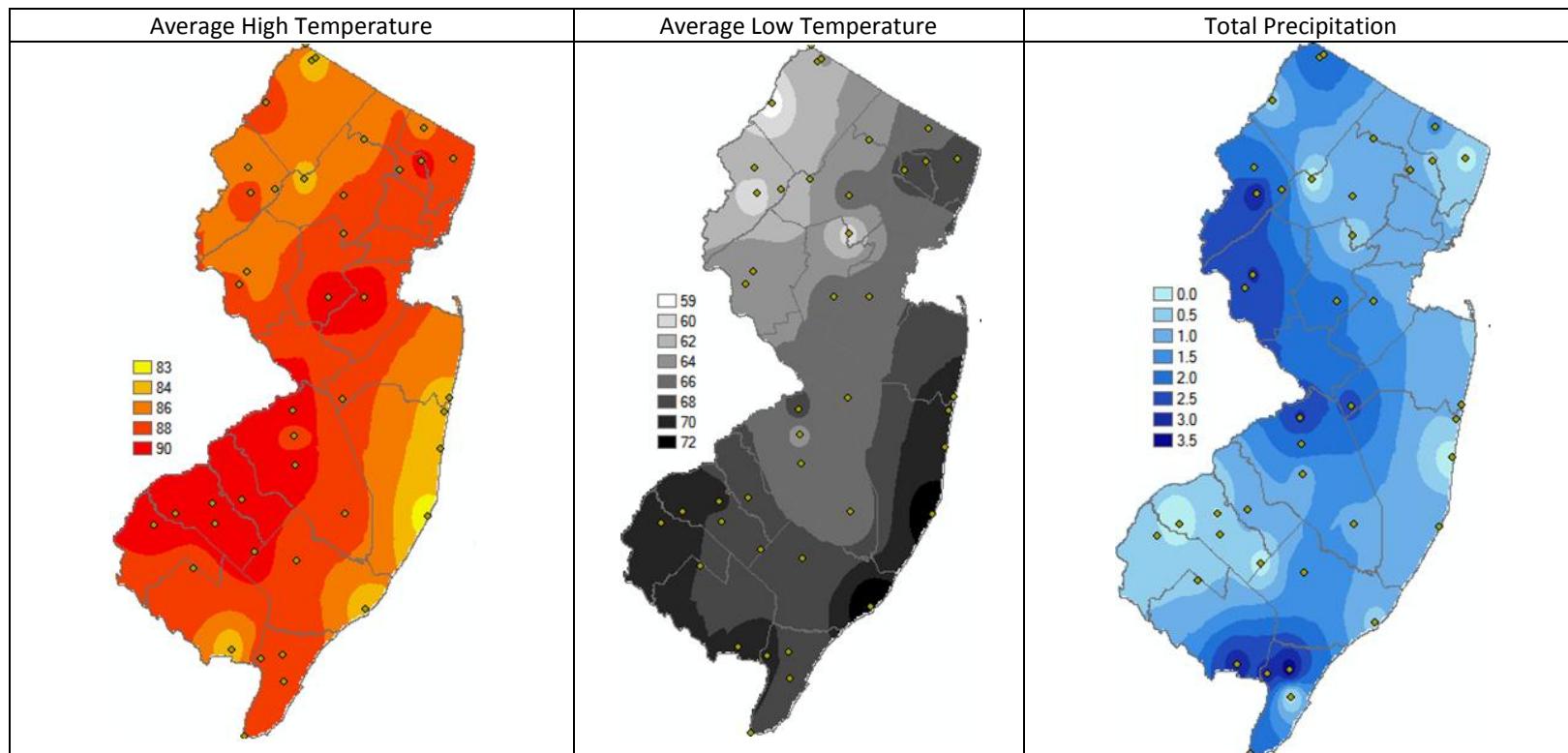
Summary Table – Week 28

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	0.45	1.14	0	1.36	1.94	0	0.17	0.42	0	0.21	0.02	4
Coastal	0.77	3.51	0	3.16	5.85	0	0.07	0.52	0	13.95	13.65	1
Delaware Bayshore	0.23	1.62	0	16.23	16.39	0	0.26	1.62	0	1.89	3.37	0
Delaware River Basin	nd	6.60	0	nd	2.01	0	nd	0.16	0	nd	0.09	0
New York Metro	0.71	5.30	0	4.69	11.40	0	0.07	0.24	0	0.23	0.29	0
North Central Rural	0.00	0.34	0	0.02	0.80	0	0.00	0.03	0	0.00	0.00	0
Northwest Rural	0.74	14.82	0	2.91	6.39	0	0.69	1.64	0	0.00	0.00	0
Philadelphia Metro	0.75	5.10	0	2.36	6.20	0	0.18	0.38	0	0.00	0.00	0
Pinelands	0.17	1.44	0	1.60	3.26	0	0.14	0.75	0	0.03	0.08	0
Suburban Corridor	0.50	6.11	0	1.67	2.97	0	0.48	0.70	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: Apart from *Aedes sollicitans* in the Agricultural and Coastal regions, all of the other pestiferous species in the table above were either at or below historical averages.

Climate Factors

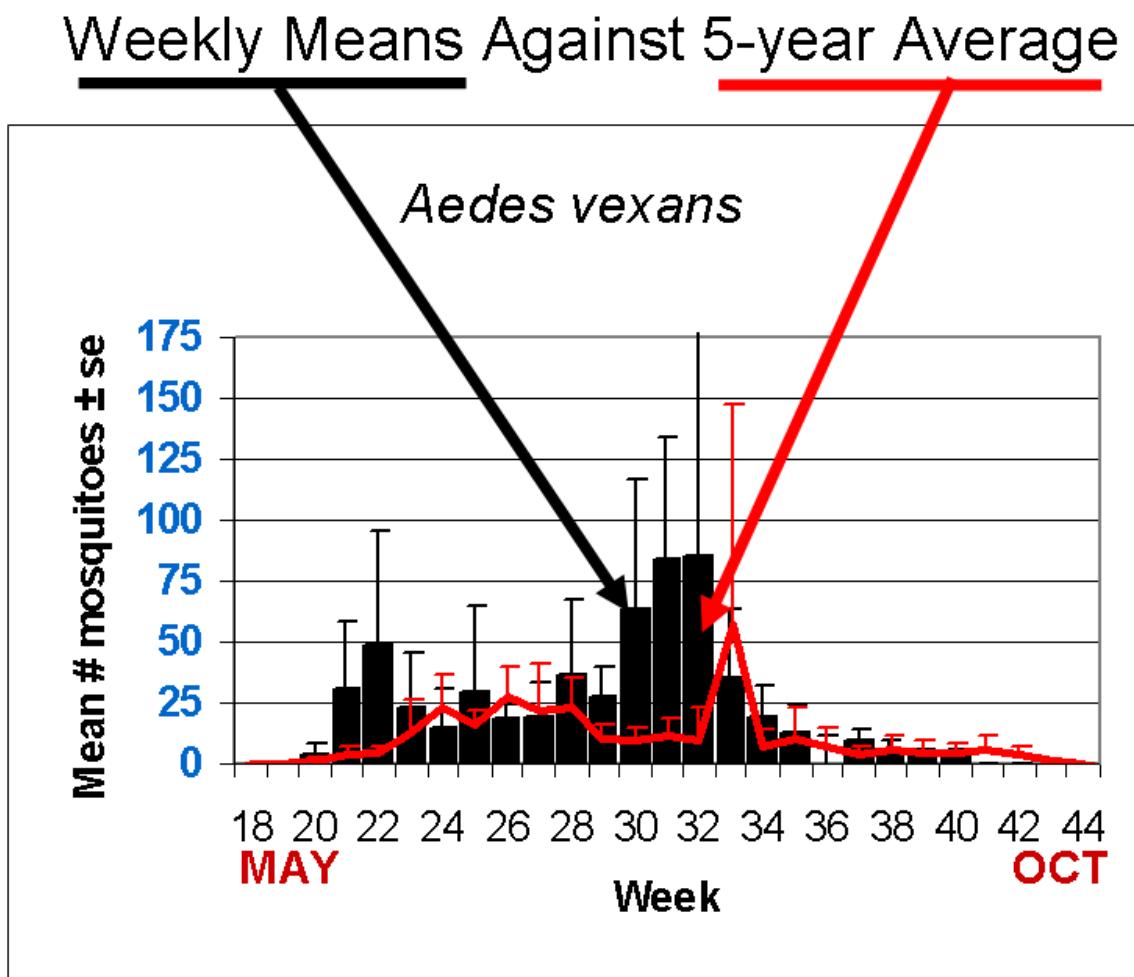


The three figures show the interpolation of average maximum and minimum temperature and total precipitation through 1 July to 19 July, 2012 in New Jersey. Data points are from about 43 weather stations maintained through the New Jersey Weather & Climate Network and the State Climatologist. Interpolation between points was performed using ArcMap 9.2/10.

Average high, low temperatures and precipitation for the first three weeks of June is presented.

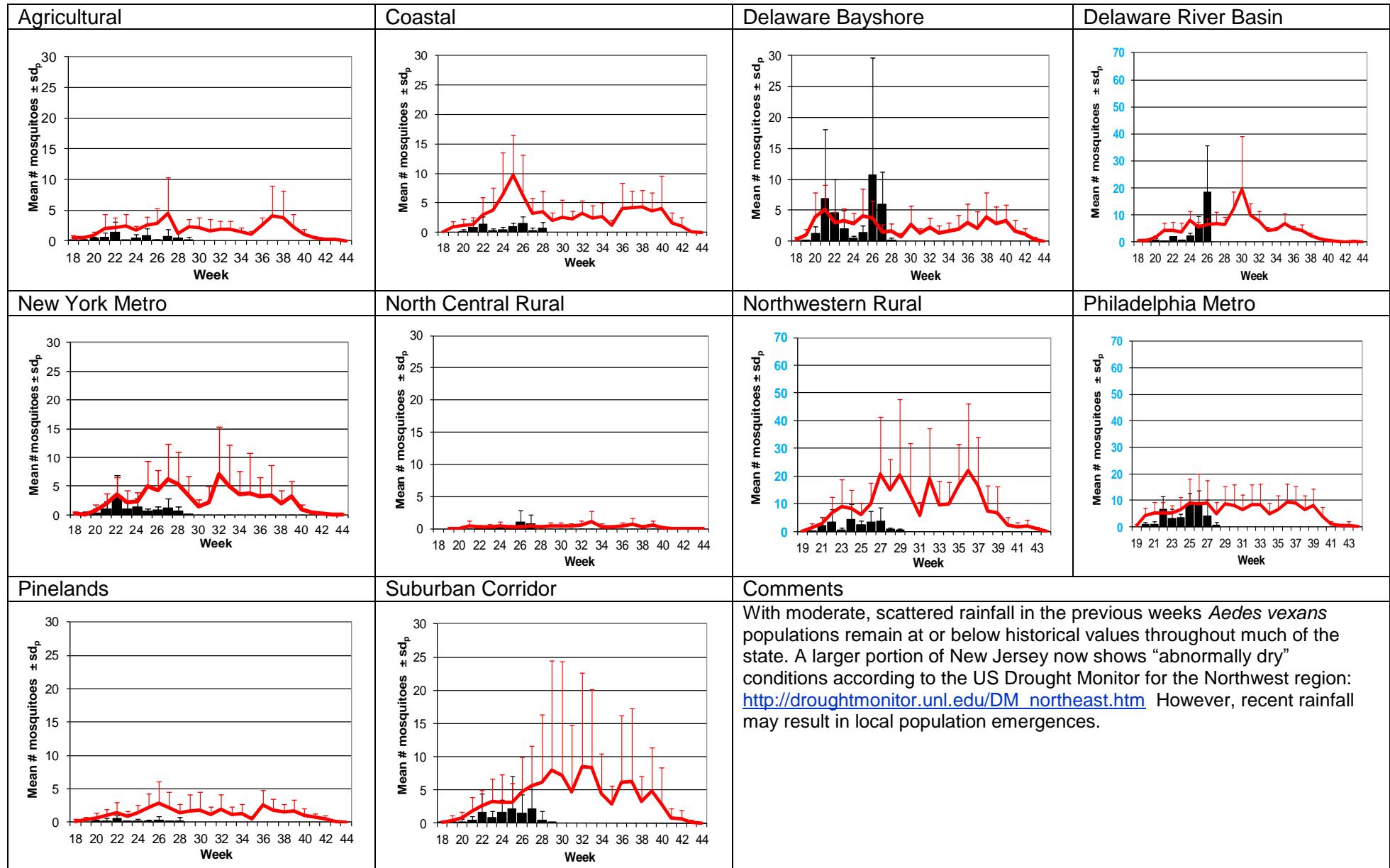


The Species Graphs: The species graph pages include a graph with two plots for each of the ten regions defined on the first page (Agricultural, Coastal, Delaware Bayshore, Delaware River, New York Metro, North-Central, Northwestern, Philadelphia Metro, Pinelands, and Suburban Corridor). Below is an example 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 report are from Atlantic, Bergen, Camden, Cape May, Essex, Hudson, Mercer, Middlesex, Monmouth, Ocean, Sussex, Union and Warren counties. Data for the previous week is from Bergen, Camden, Cape May, Essex, Hudson, Mercer, Middlesex, Monmouth, Morris, Ocean, Somerset, Sussex, Union and Warren counties. Note: County data is sent in at a variety of times during the week.



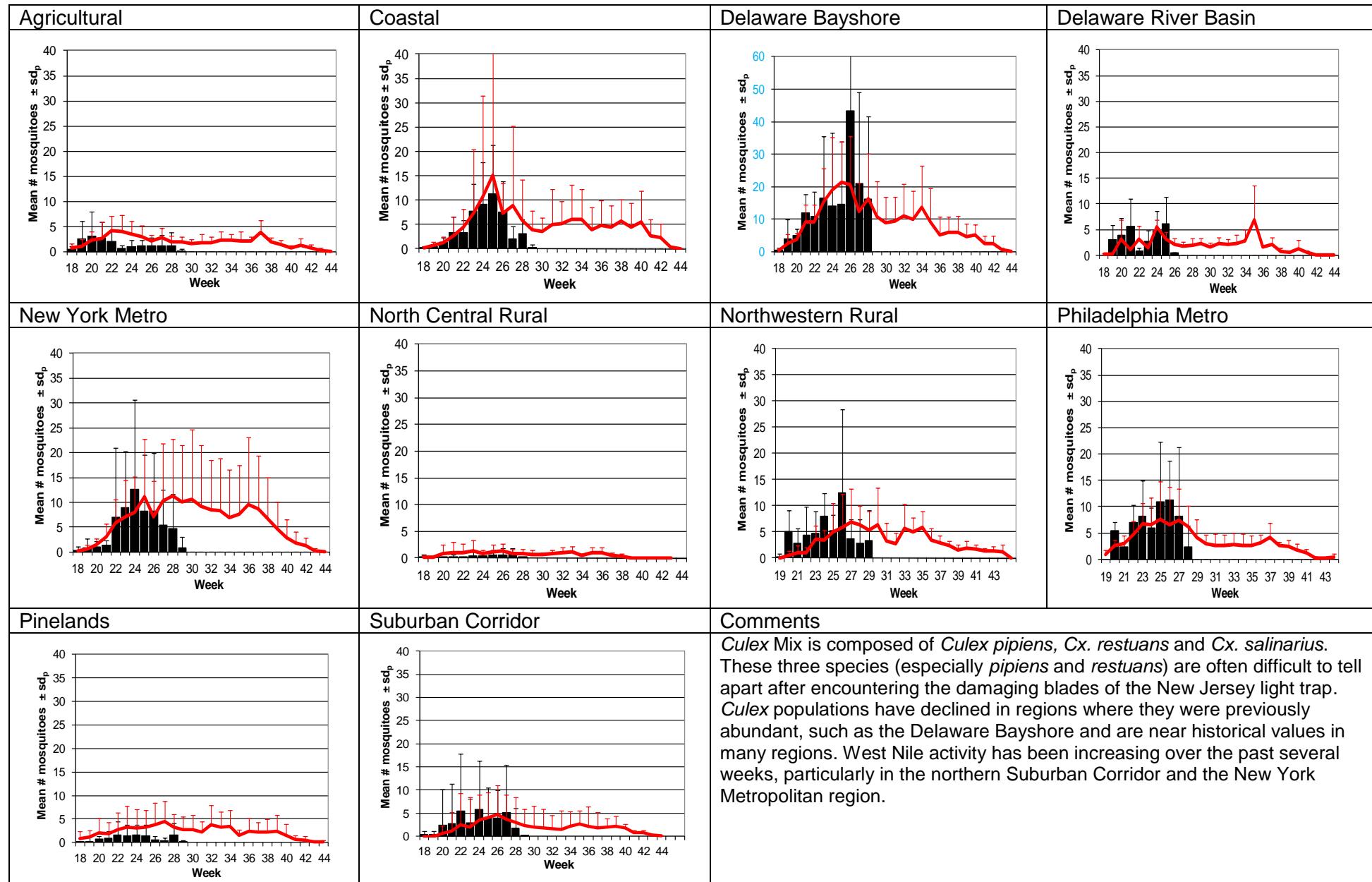
Aedes vexans - Fresh Floodwater Species

Multivoltine Aedine (Ae. vexans Type)



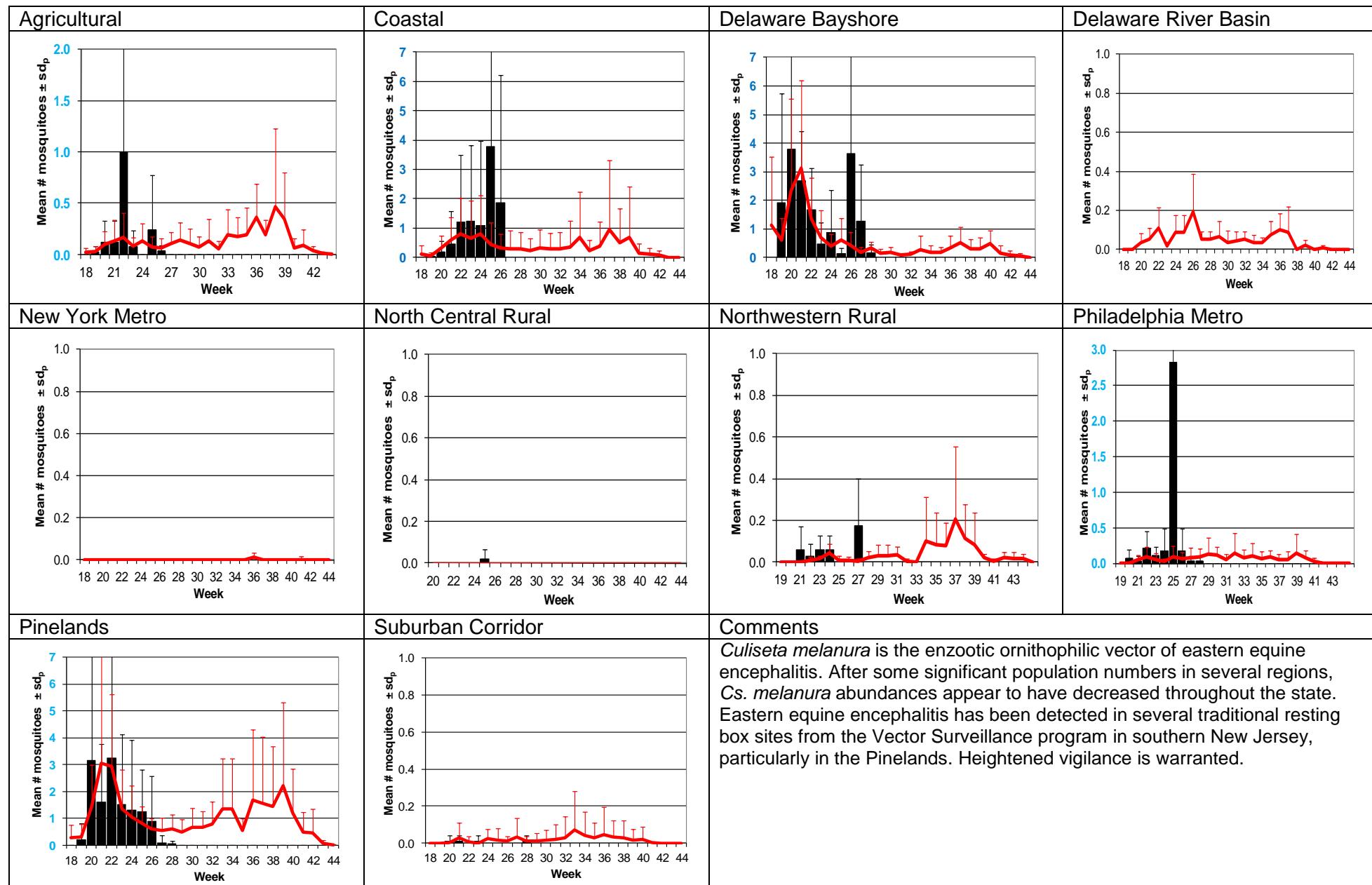
Culex Mix – Permanent Water Species

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

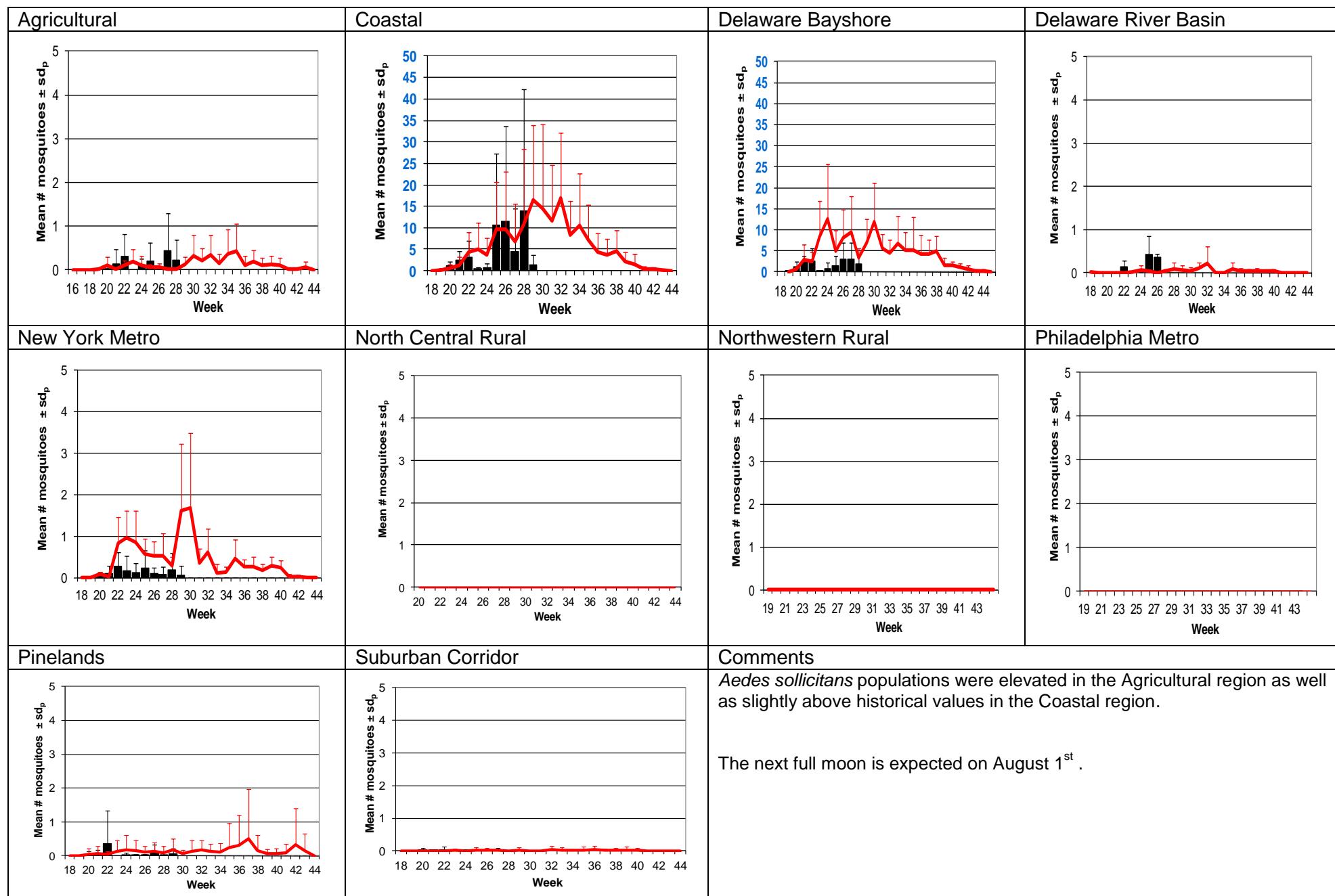


Culiseta melanura – Miscellaneous Group

Unique (*Cs. melanura* Type)

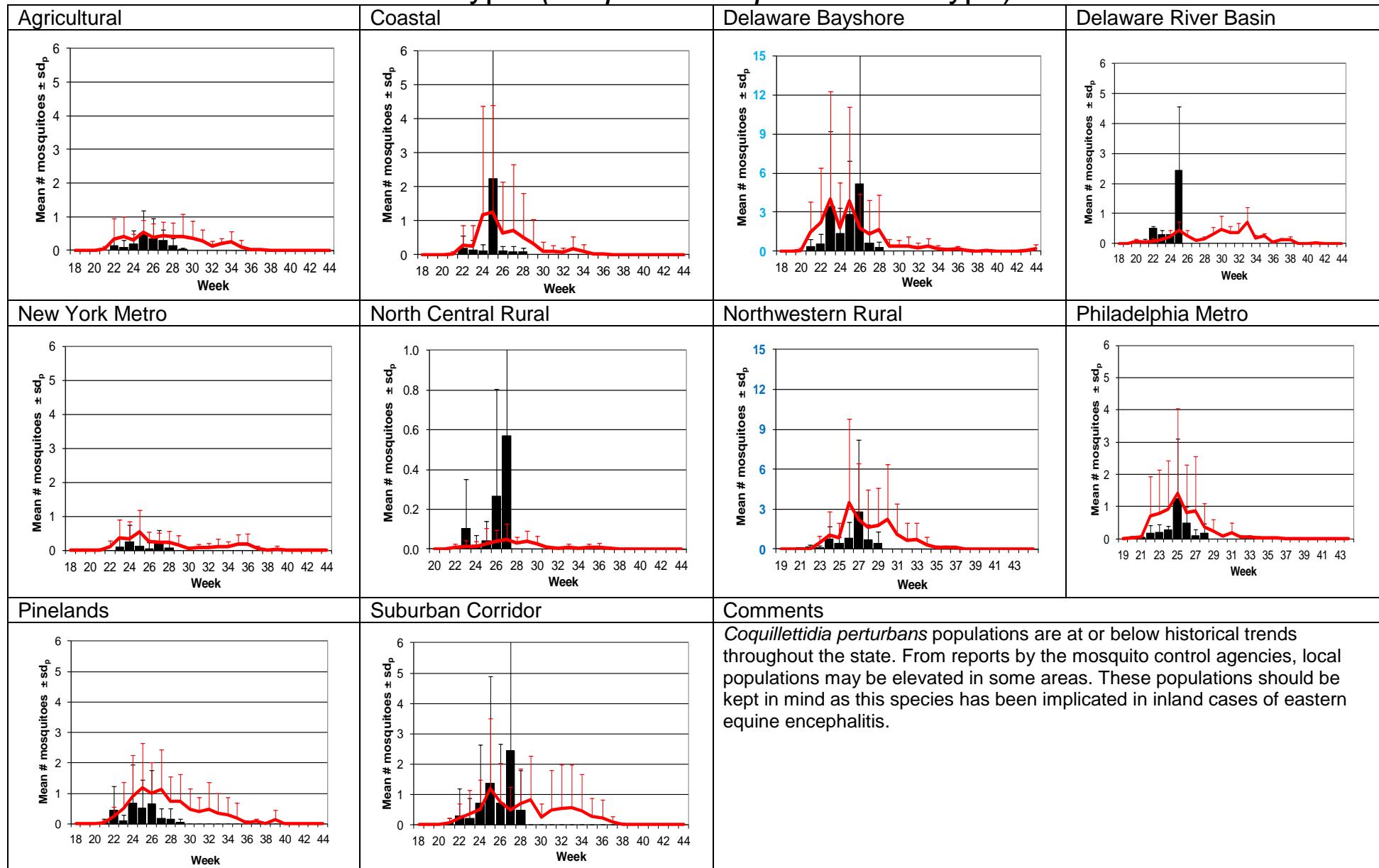


Aedes sollicitans - Salt Floodwater Species Multivoltine Aedine (*Ae. sollicitans* Type)



Coquillettidia perturbans

Monotypic (*Coquillettidia perturbans* Type)

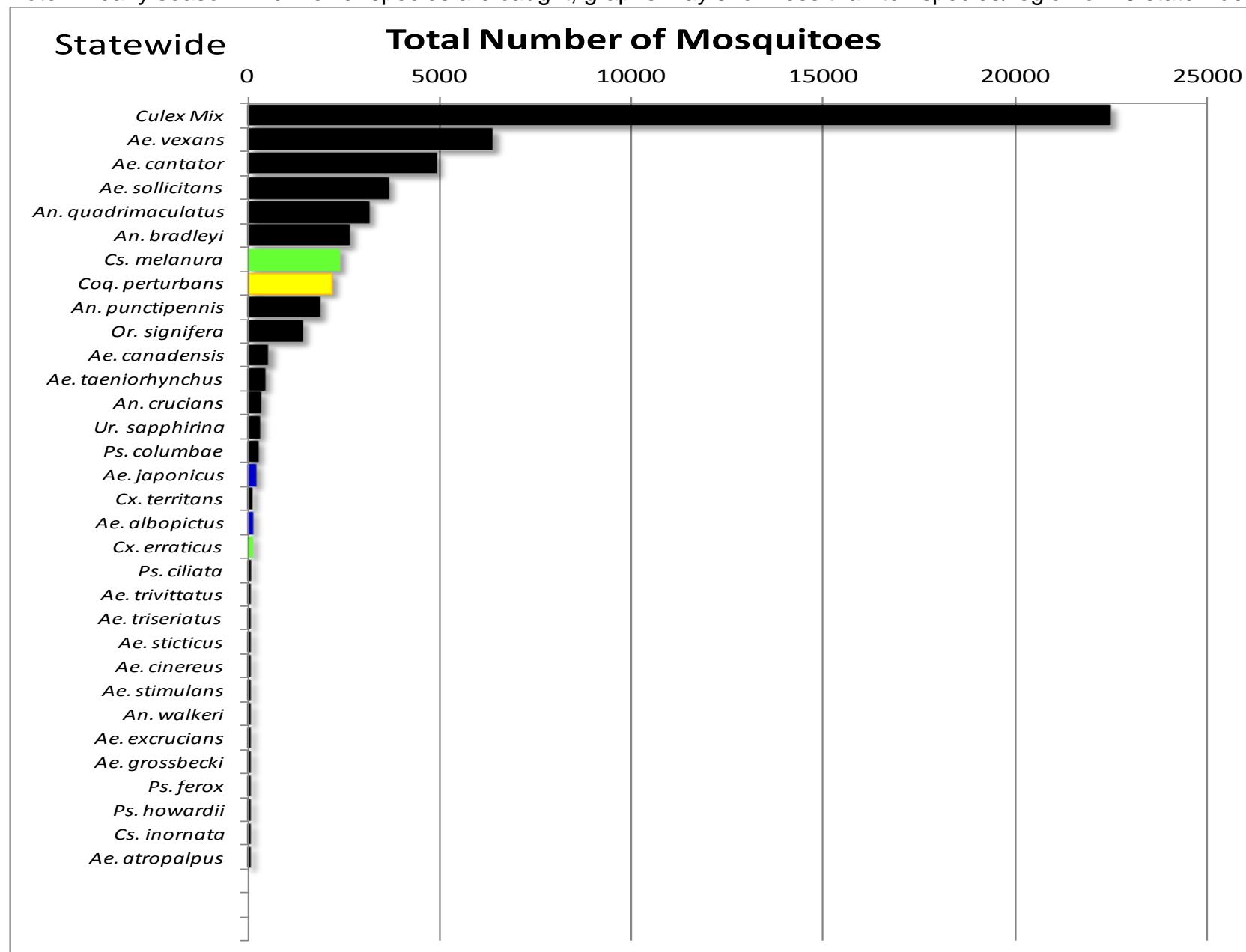


WNV

EEE

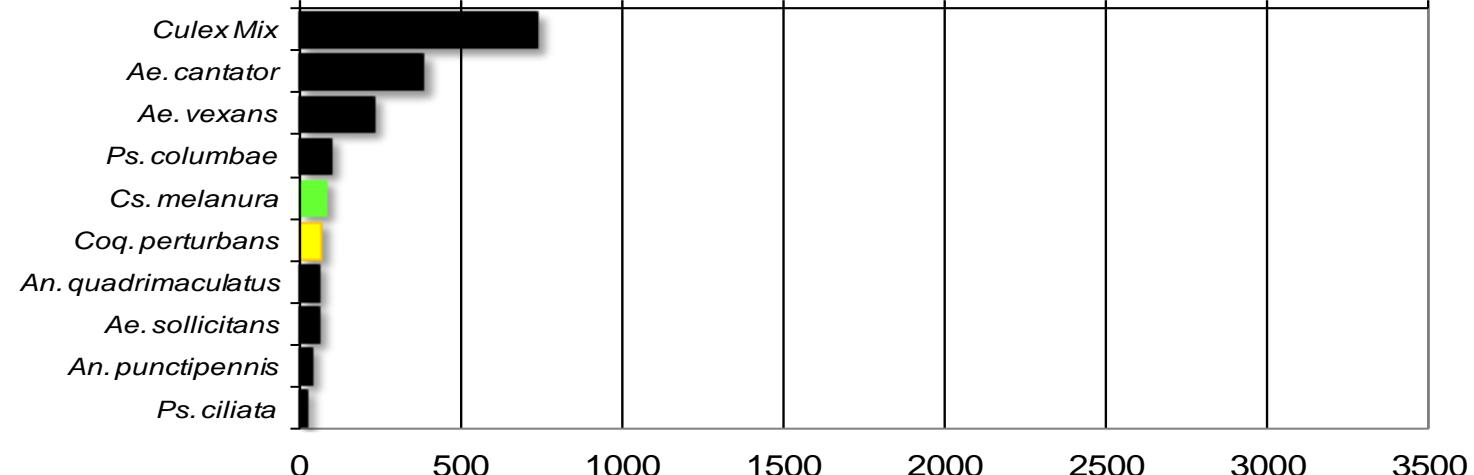
Top Ten Mosquito Species/Region - ■ Ae. albopictus, ■ Ae. japonicus (invasives); ■ Cs. melanura or Cx. erraticus ■ Coq. perturbans

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



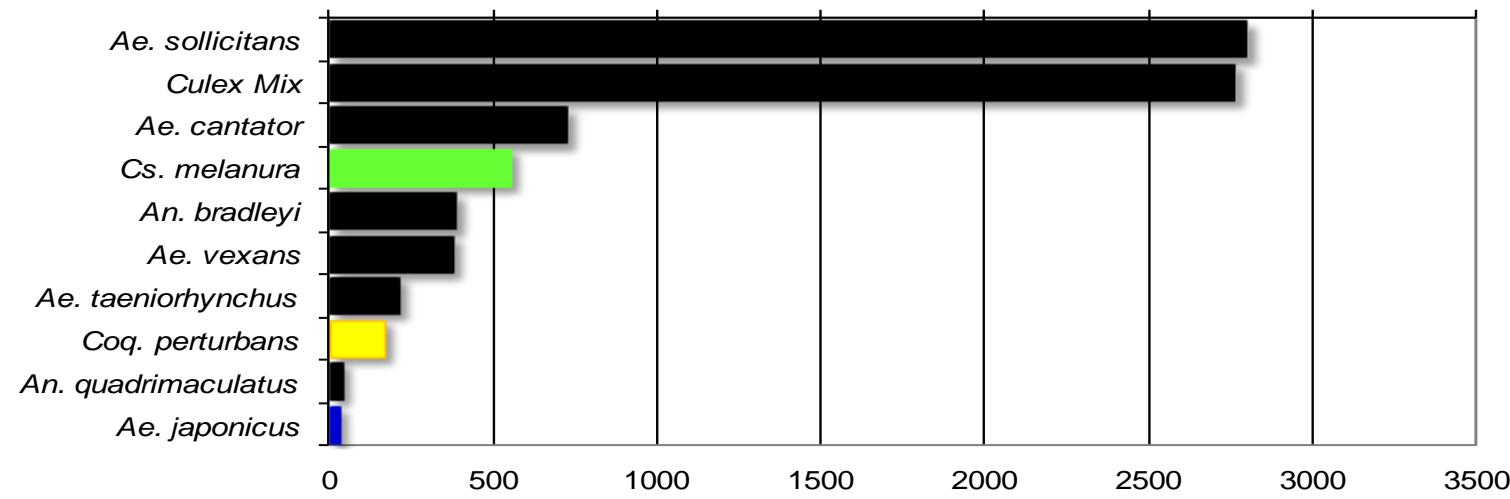
Agricultural

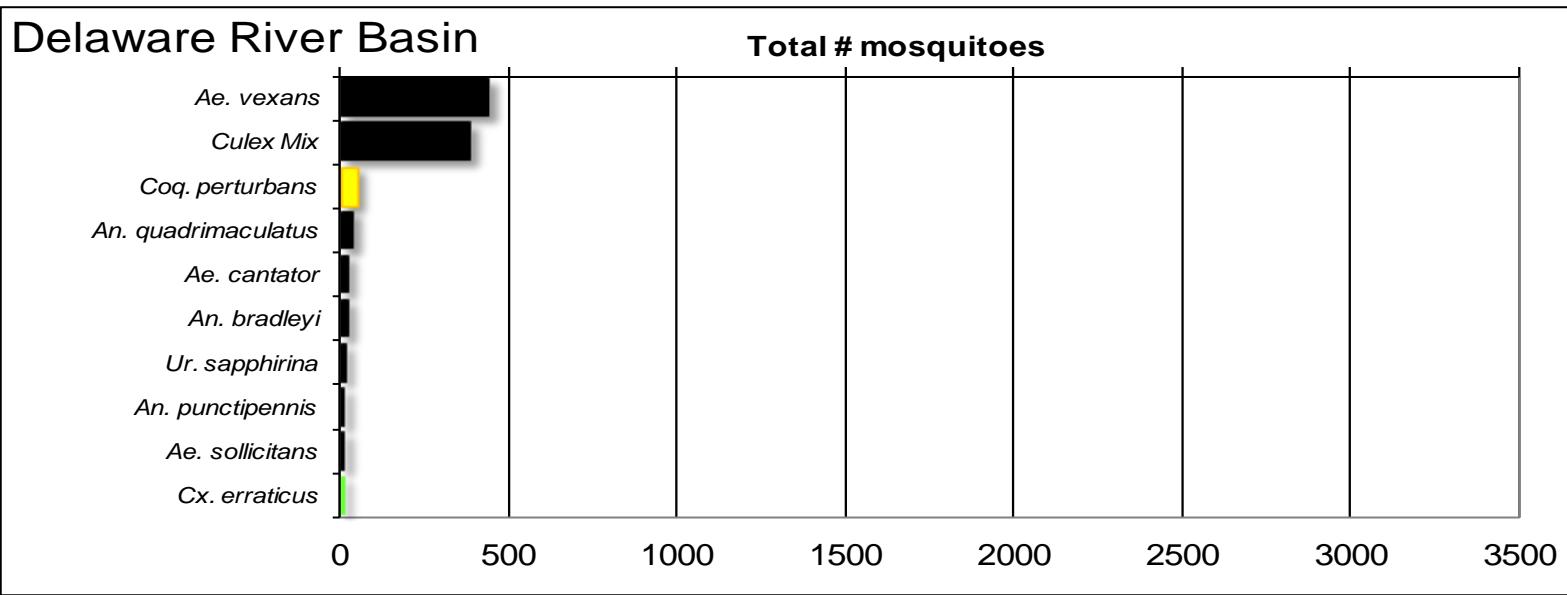
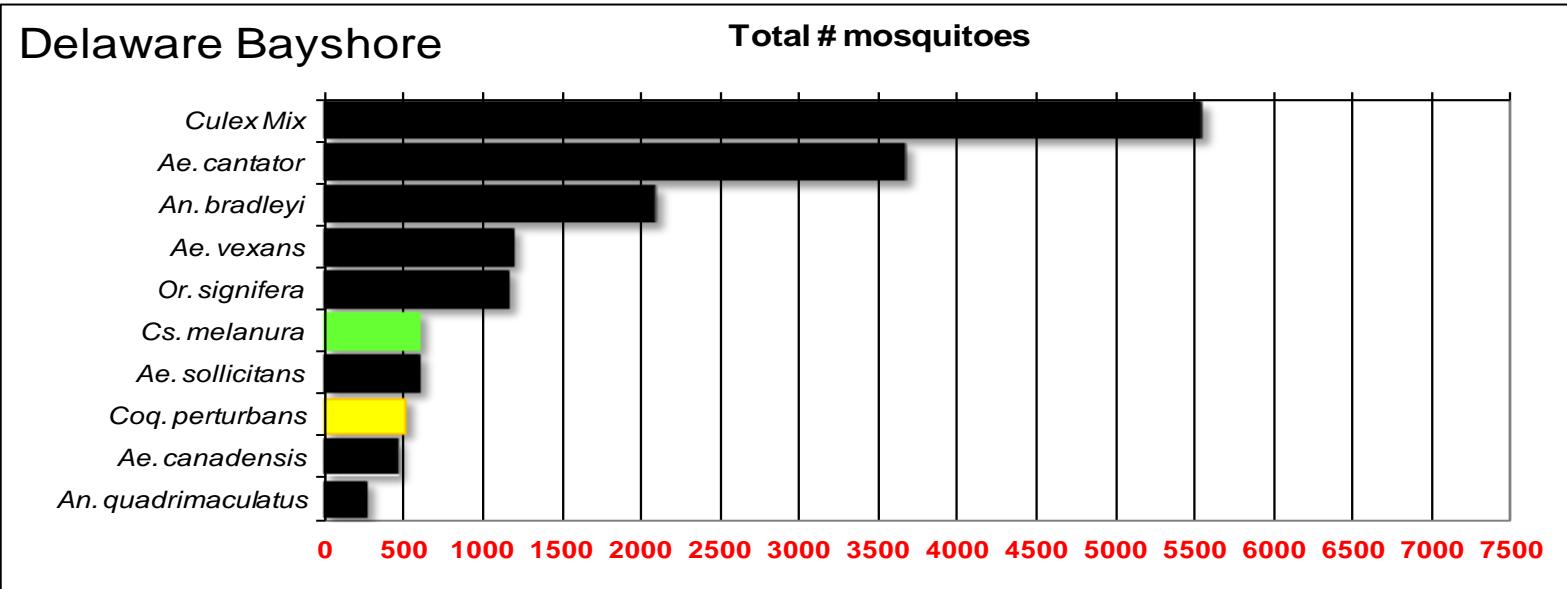
Total # mosquitoes

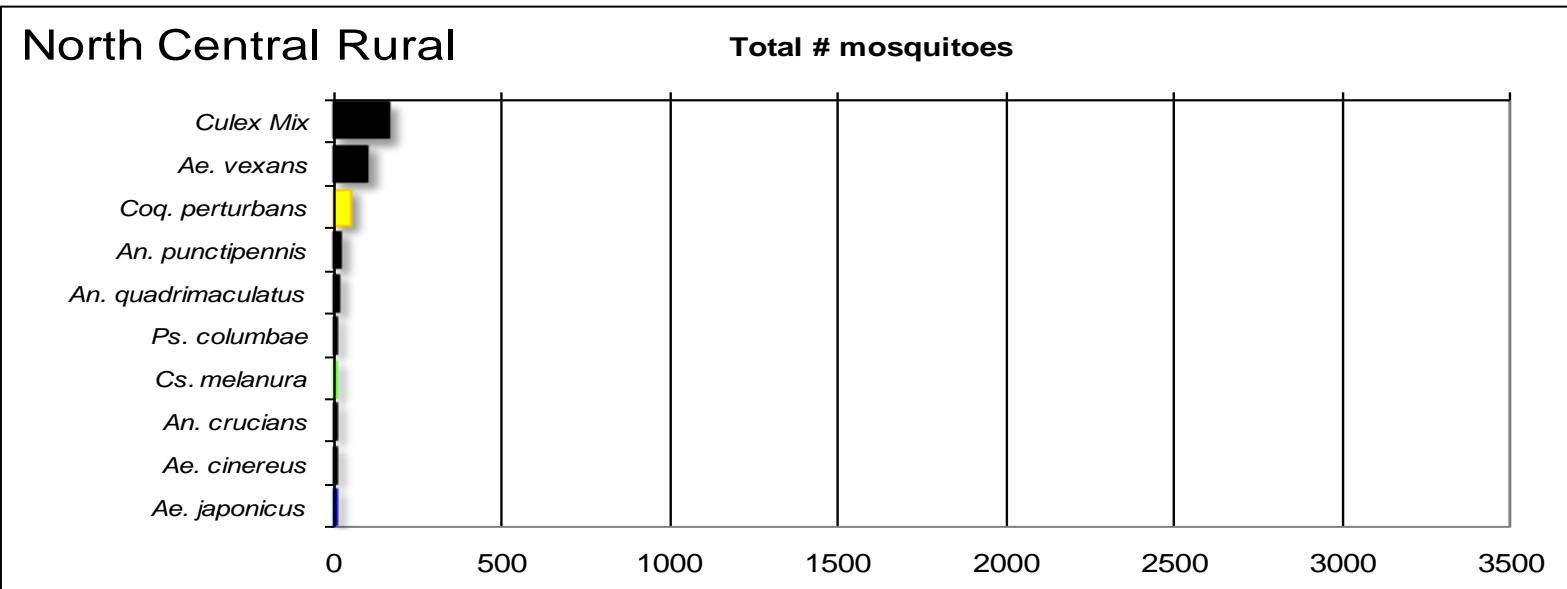
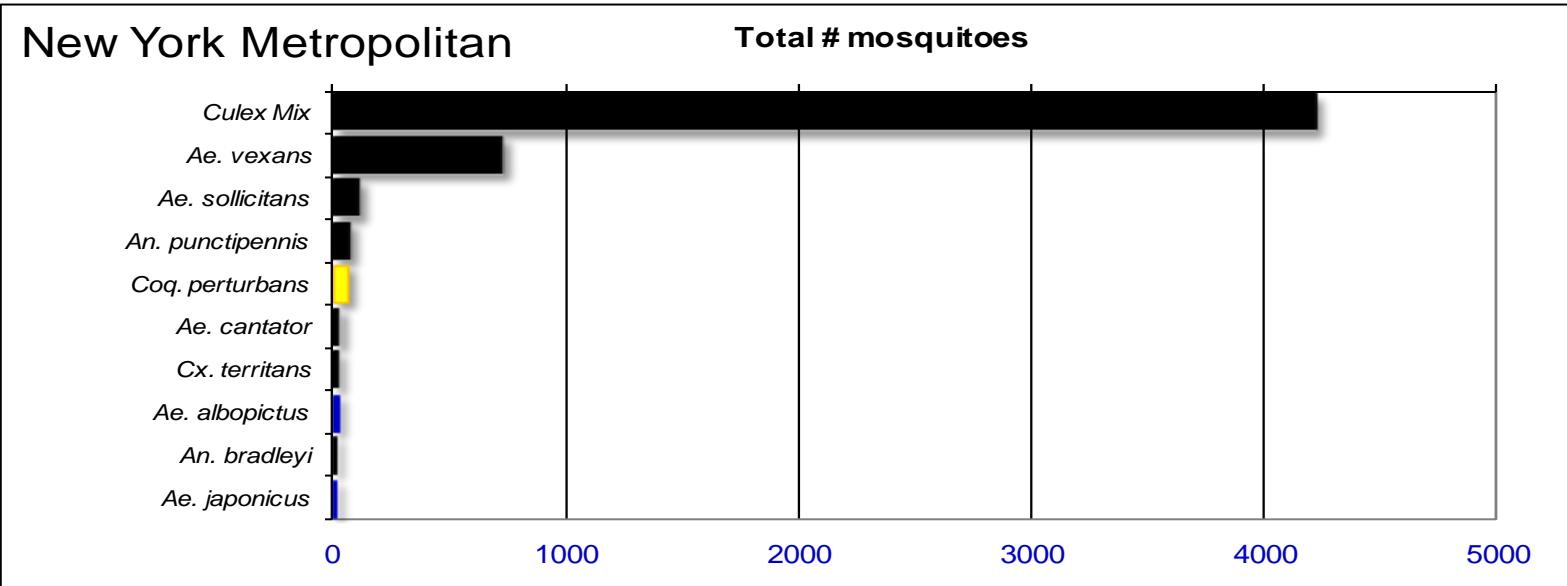


Coastal

Total # mosquitoes

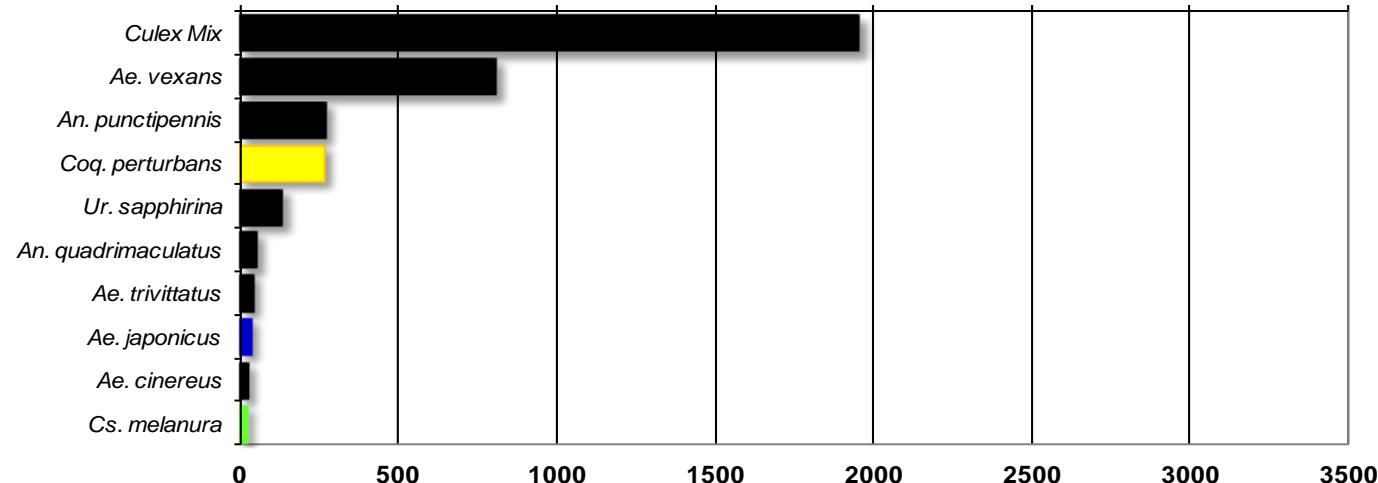






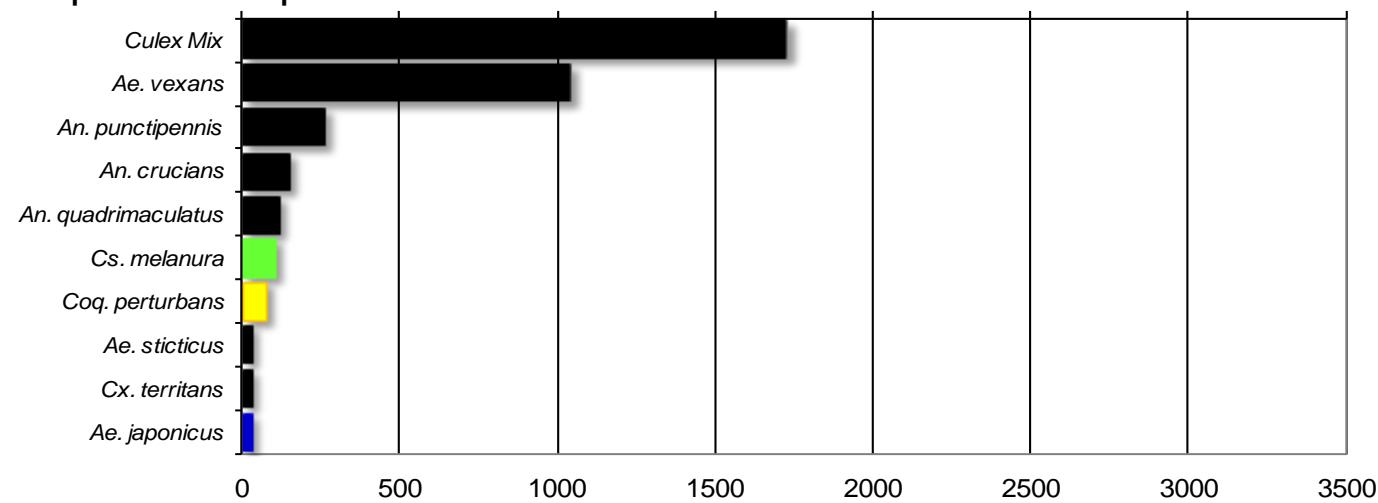
Northwest Rural

Total # mosquitoes



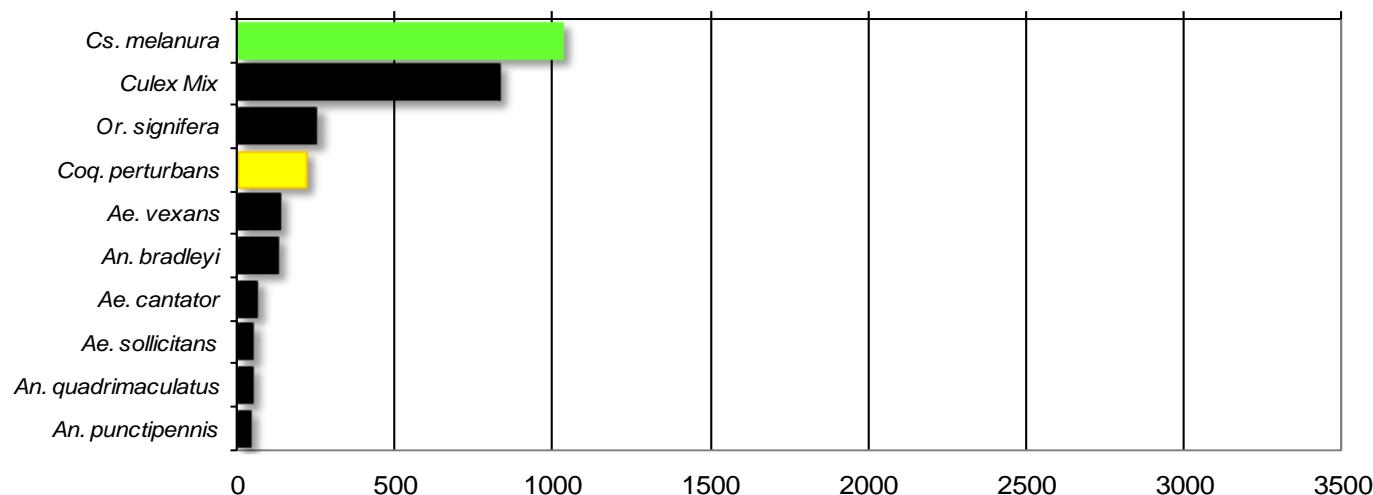
Philadelphia Metropolitan

Total # mosquitoes



Pinelands

Total # mosquitoes



Suburban Corridor

Total # mosquitoes

