

NEW JERSEY STATEWIDE SURVEILLANCE

Week 42 Report for 11 October to 17 October, 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.

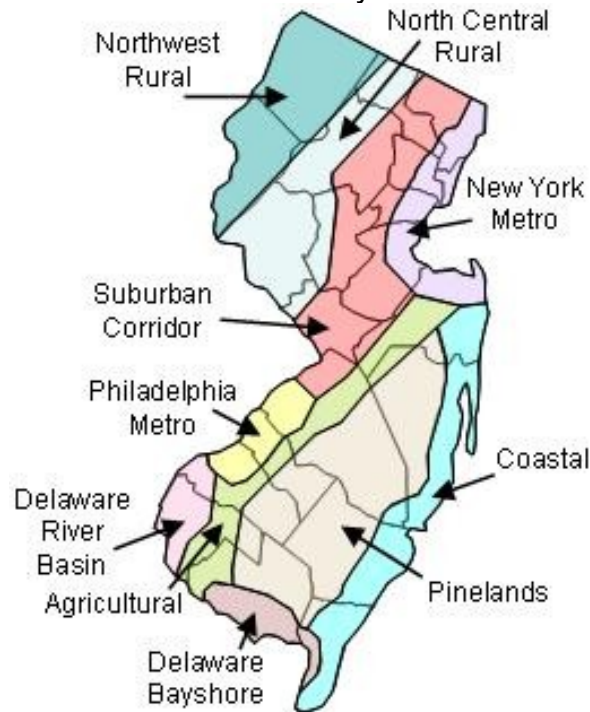


Figure 1b. Trap lat-long locations.



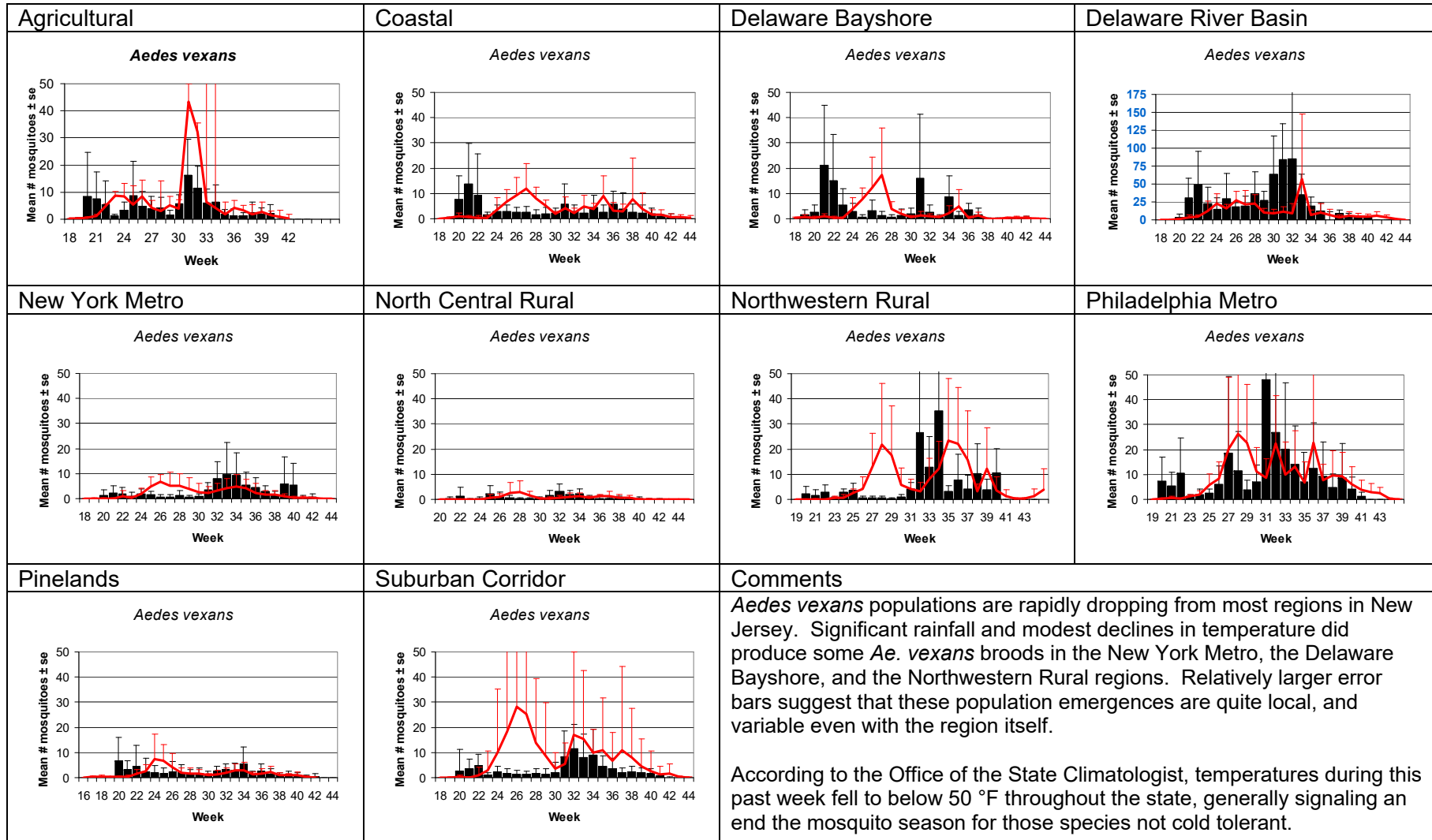
Summary table

	<i>Aedes vexans</i>		<i>Culex complex</i>		<i>Coquilleltidia perturbans</i>		<i>Ochlerotatus sollicitans</i>	
Region	This Week	Average*	This Week	Average*	This Week	Average*	This Week	Average*
Agricultural	0.02	1.38	0.38	1.74	0	0	0	0.15
Coastal	0.70	0.77	0.21	0.73	0	0	0.11	0.32
Delaware Bayshore	0.43	0.29	1.36	2.98	0	0	0.19	1.05
Delaware River Basin	0	3.37	0	1.13	0	0	0	0.24
New York Metro	0.51	0.16	0.59	1.00	0	0	0	0
North Central Rural	0.10	0	0.01	0.02	0	0	0	0
Northwest Rural	0	0.29	0	0.35	0	0	0	0
Philadelphia Metro	0	2.51	0	1.01	0	0	0	0
Pinelands	0.45	0.90	0.96	1.15	0	0	0	0.03
Suburban Corridor	0.09	1.67	0.10	0.59	0	0	0	0

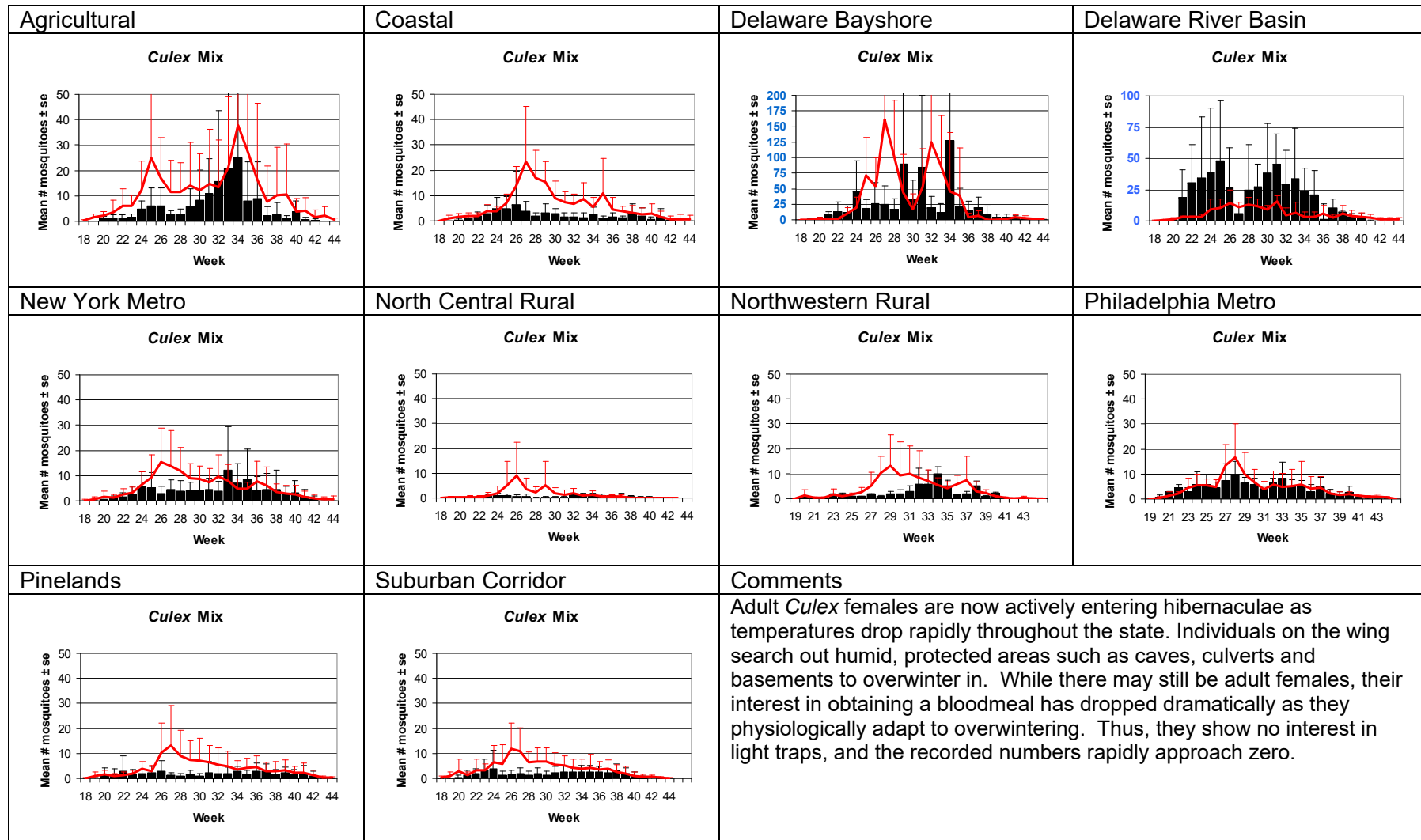
Additional Species, include *Ochlerotatus japonicus*. Top Ten regional species is also featured.

8 Counties reporting

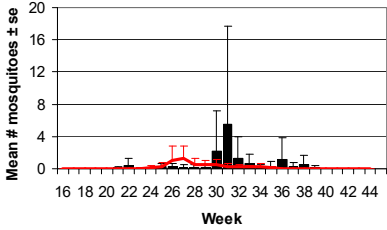
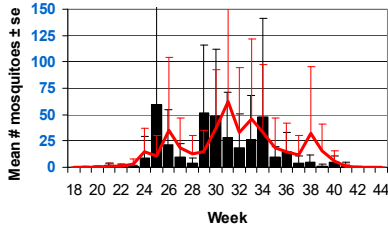
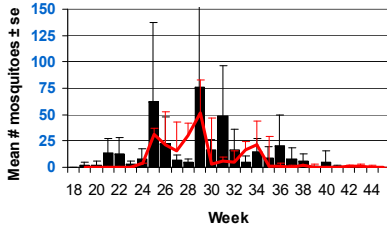
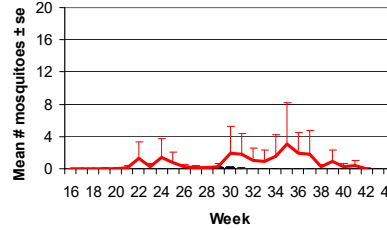
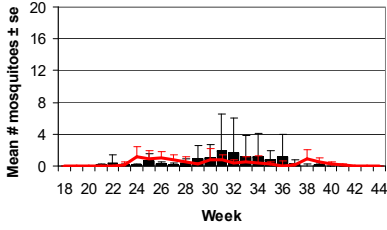
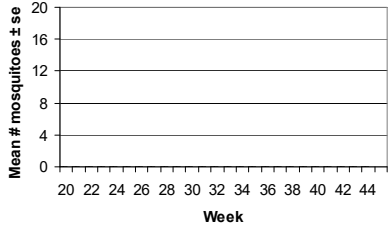
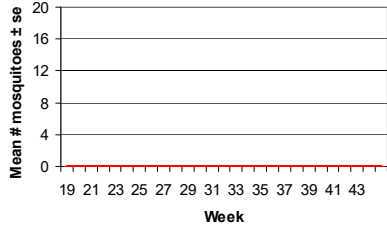
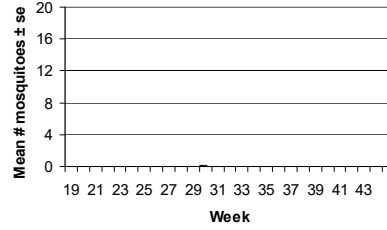
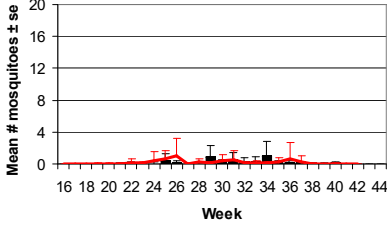
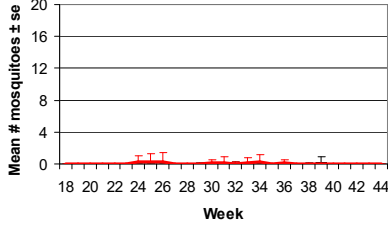
Aedes vexans - Fresh Floodwater Species



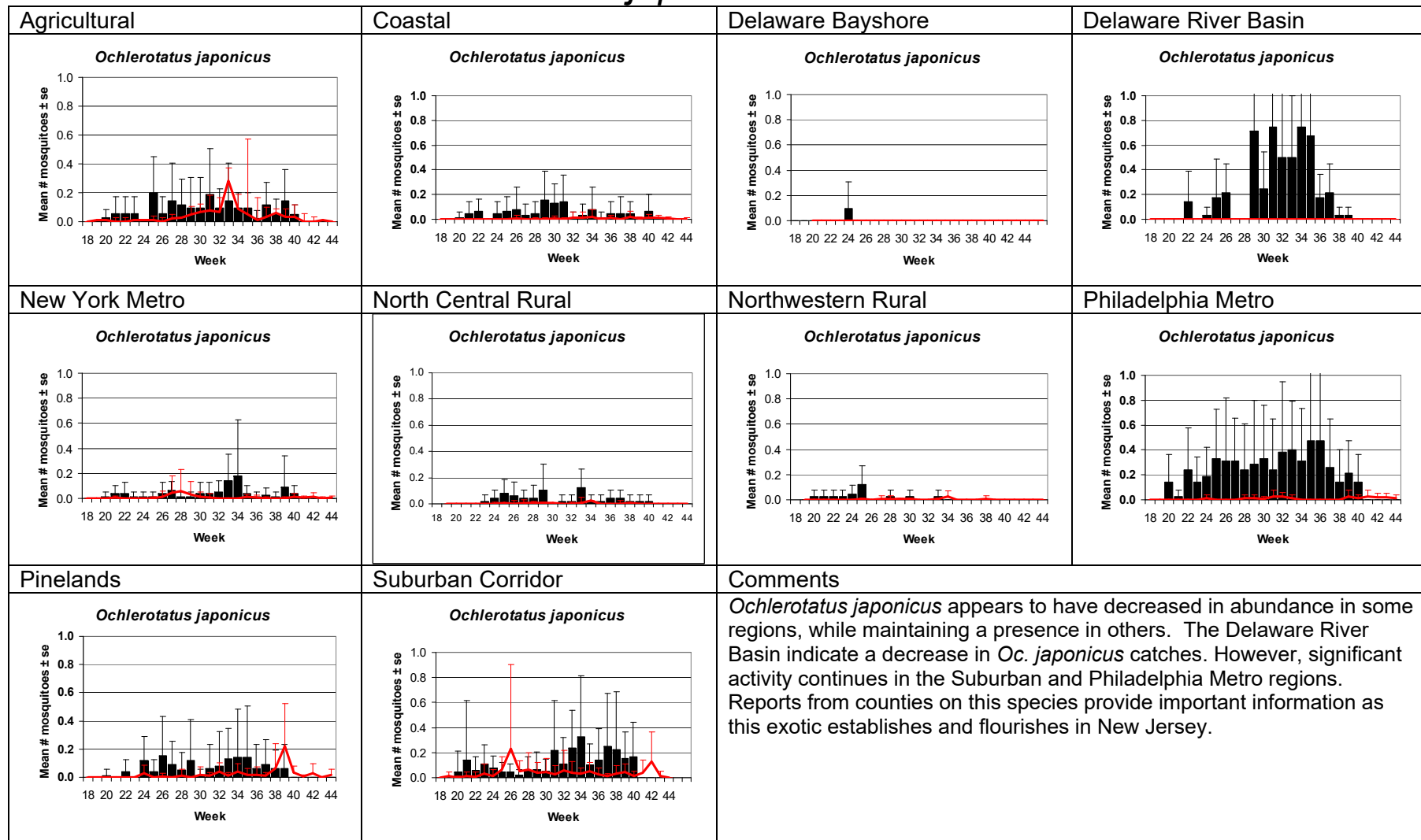
Culex Complex - Multivoltine Culex Species



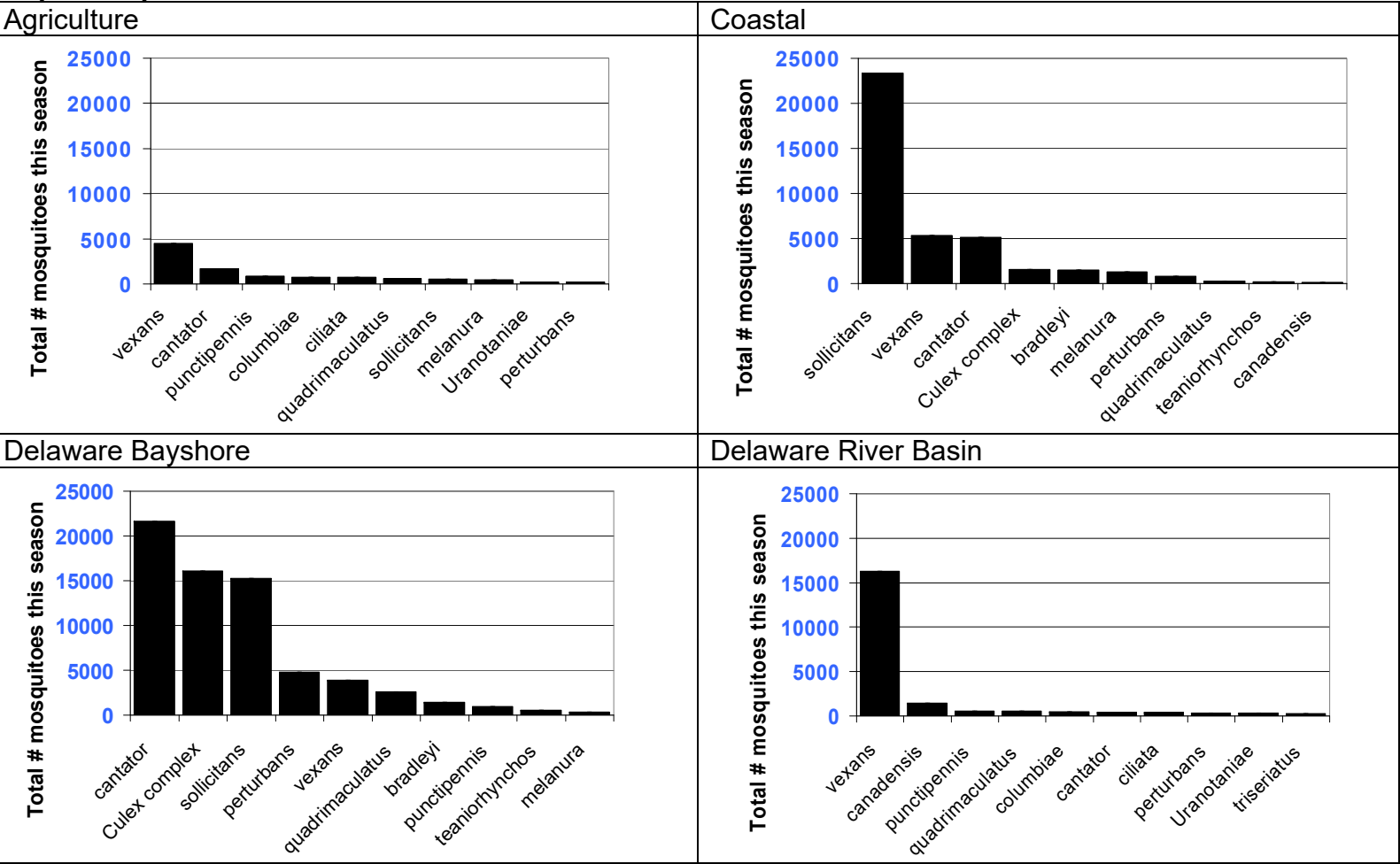
Ochlerotatus sollicitans - Salt Marsh Floodwater Species

Agricultural	Coastal	Delaware Bayshore	Delaware River Basin
<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 
New York Metro	North Central Rural	Northwestern Rural	Philadelphia Metro
<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 
Pinelands	Suburban Corridor	Comments	
<i>Ochlerotatus sollicitans</i> 	<i>Ochlerotatus sollicitans</i> 	After four significant emergences, <i>Ochlerotatus sollicitans</i> appears to have finally declined in light traps in both the Coastal and Delaware Bayshore. A very minor fifth emergence appears to have occurred this past week. However, eggs laid late by females are now entering diapause to overwinter and will not hatch this season. The effects of this saline-tolerant floodwater species are widespread. Migrants from coastal areas show up in inland regions, such as Agricultural, Pinelands and the Suburban Corridor.	

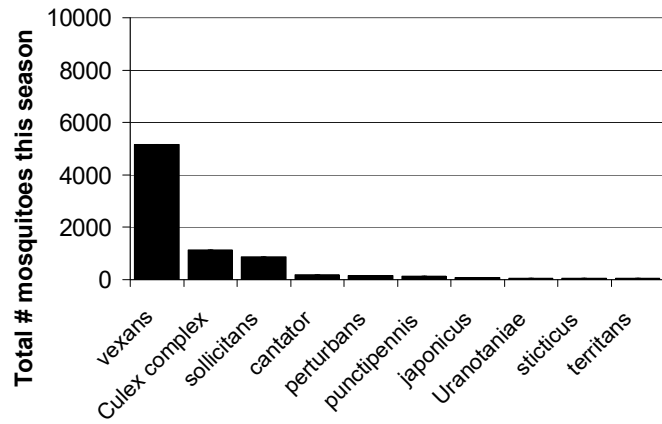
Ochlerotatus japonicus – Multivoltine Aedine



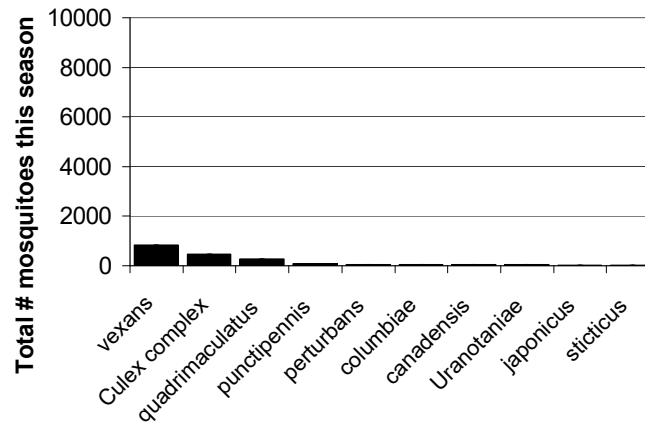
Top Ten Species



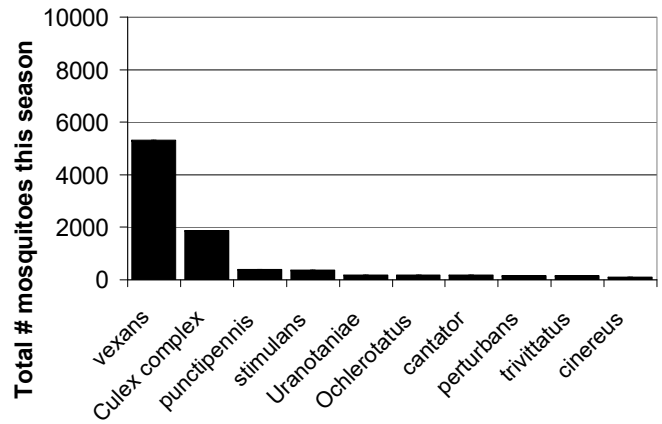
New York Metro



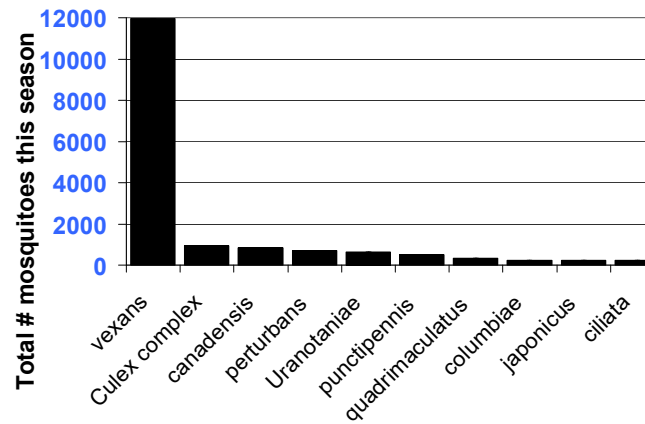
North Central Rural



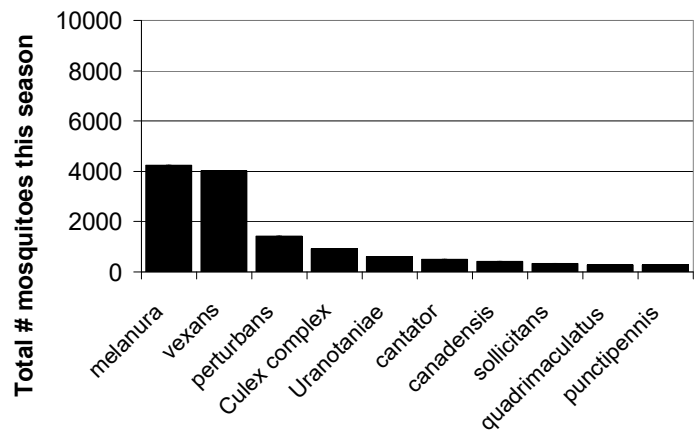
Northwest Rural



Philadelphia Metro



Pinelands



Suburban Corridor

