

NEW JERSEY STATEWIDE SURVEILLANCE

Week 40 Report for 28 September to 04 October, 2004

Submitted by Lisa Reed and Wayne Crans

Mosquito Research and Control Unit

Rutgers University, New Brunswick, NJ 08901

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.

This is New Jersey Agricultural Experiment Station publication No. PT-08-40500-42-04 supported by Hatch funds and funding from the NJ State Mosquito Control Commission. Prepared by Lisa M. Reed and Wayne J. Crans.

Figure 1a: Map of ten regions selected for the New Jersey Surveillance Program overlaid with county borders.

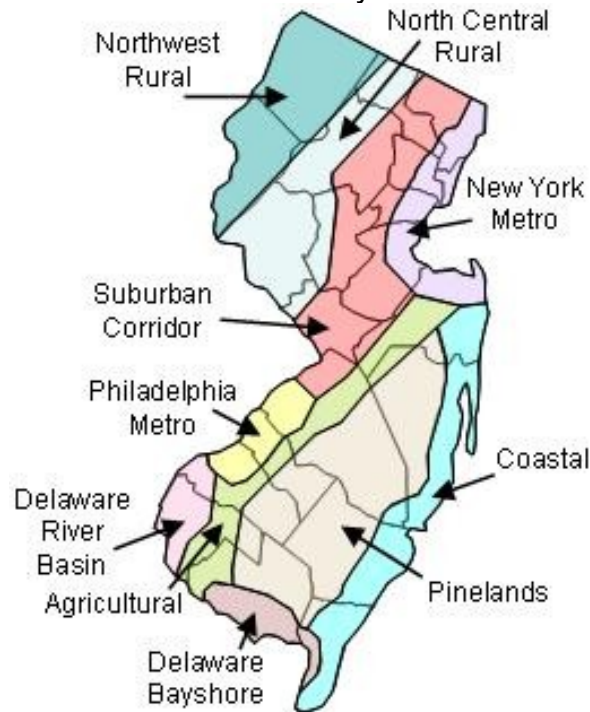


Figure 1b. Trap lat-long locations.



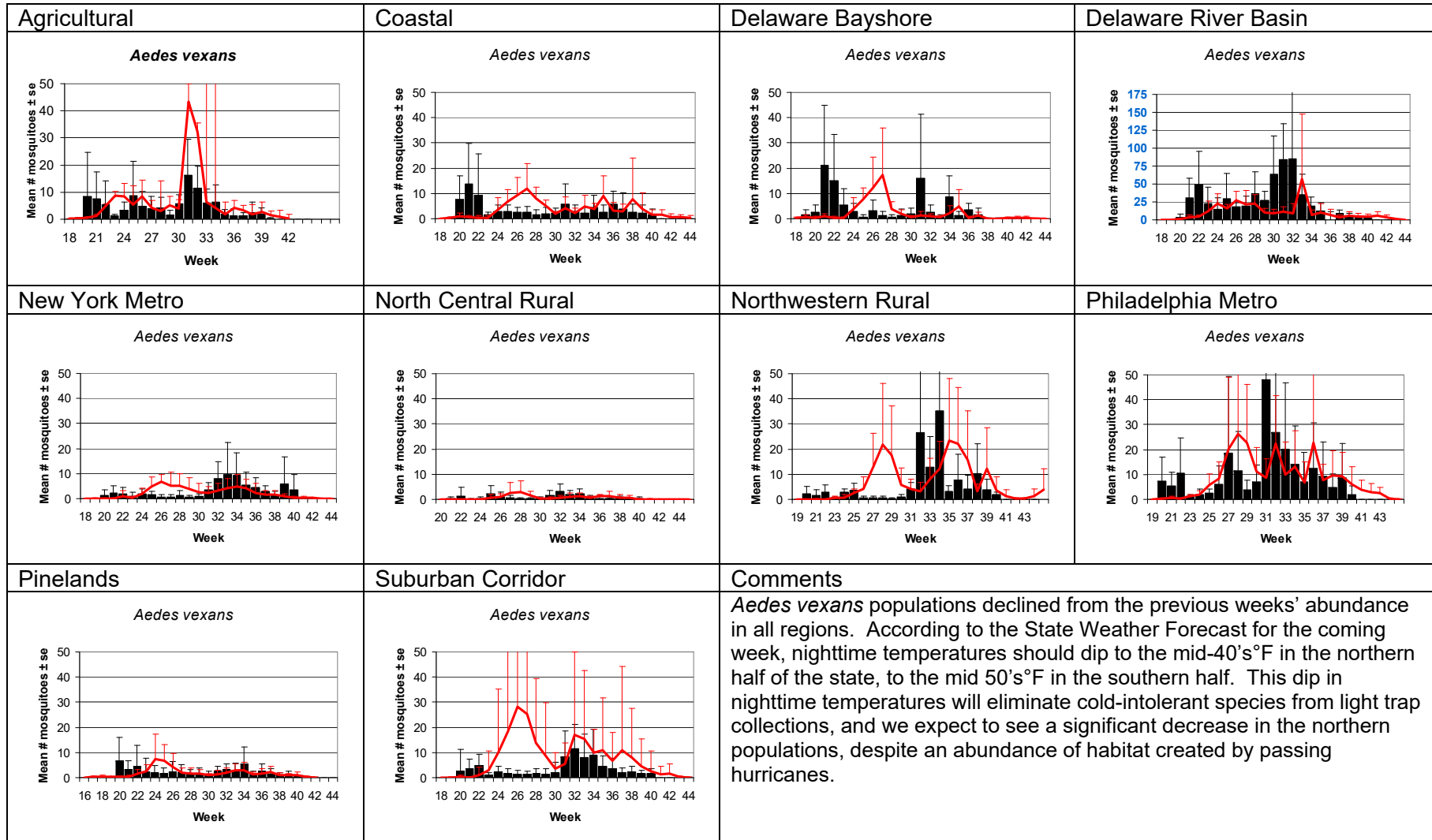
Summary table

	<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	0.26	1.82	3.14	3.70	0	0	0	0.18
Coastal	1.52	1.71	0.32	2.87	0	0	4.02	5.98
Delaware Bayshore	0	0.19	3.88	1.02	0	0	5.19	0.21
Delaware River Basin	1.82	4.14	0.21	3.21	0	0	0	0.24
New York Metro	3.63	0.45	1.97	2.46	0	0	0	0.21
North Central Rural	0.45	0.06	0.31	0.00	0	0	0	0
Northwest Rural	1.95	1.31	0.57	0.40	0	0.04	0	0
Philadelphia Metro	1.91	3.78	1.33	1.28	0	0	0	0
Pinelands	0.34	0.87	0.90	6.12	0	0	0.03	0.05
Suburban Corridor	1.58	2.63	1.03	0.89	0	0	0	0

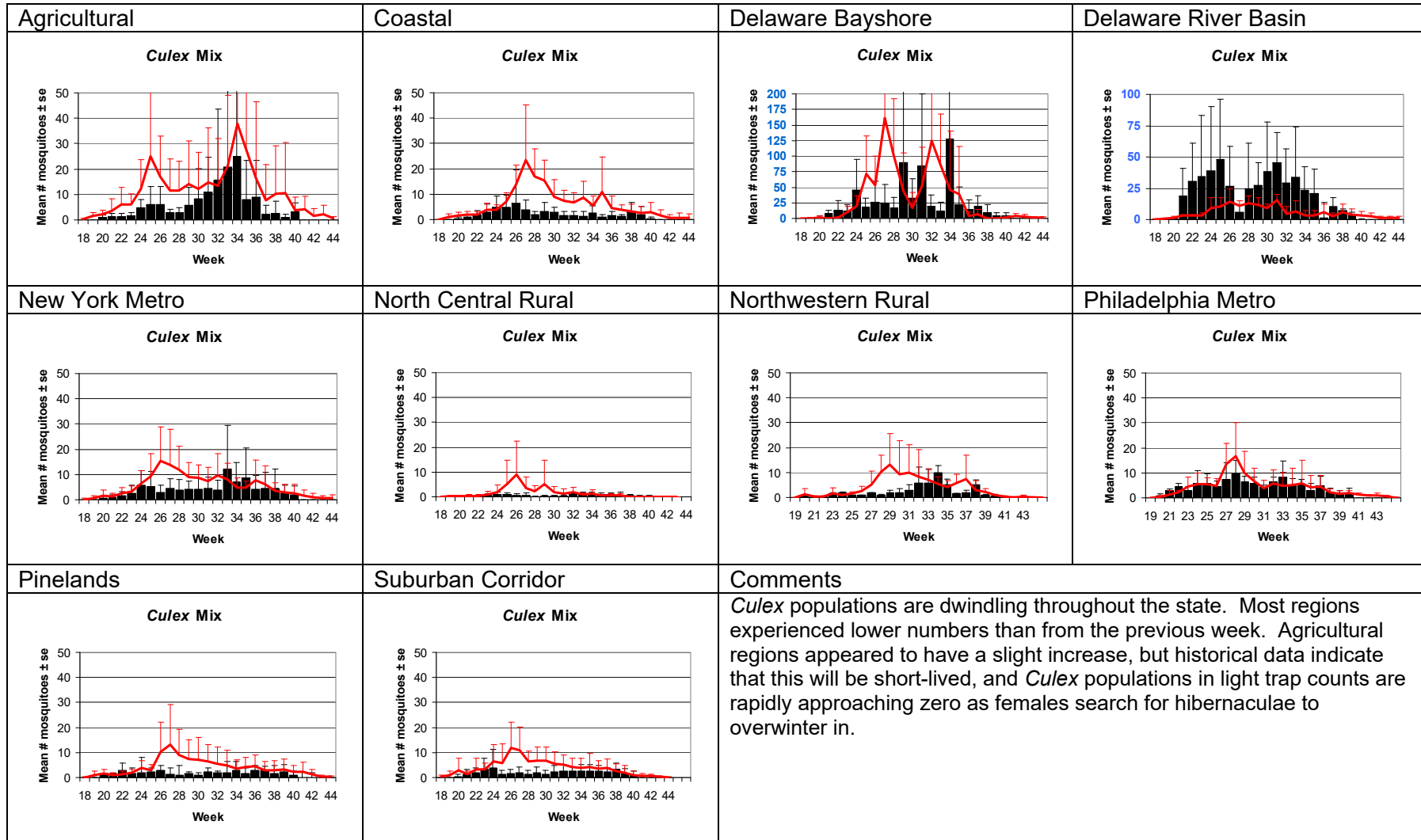
Additional Species, include *Ochlerotatus japonicus*. Top Ten regional species is also featured.

15 Counties reporting

Aedes vexans - Fresh Floodwater Species



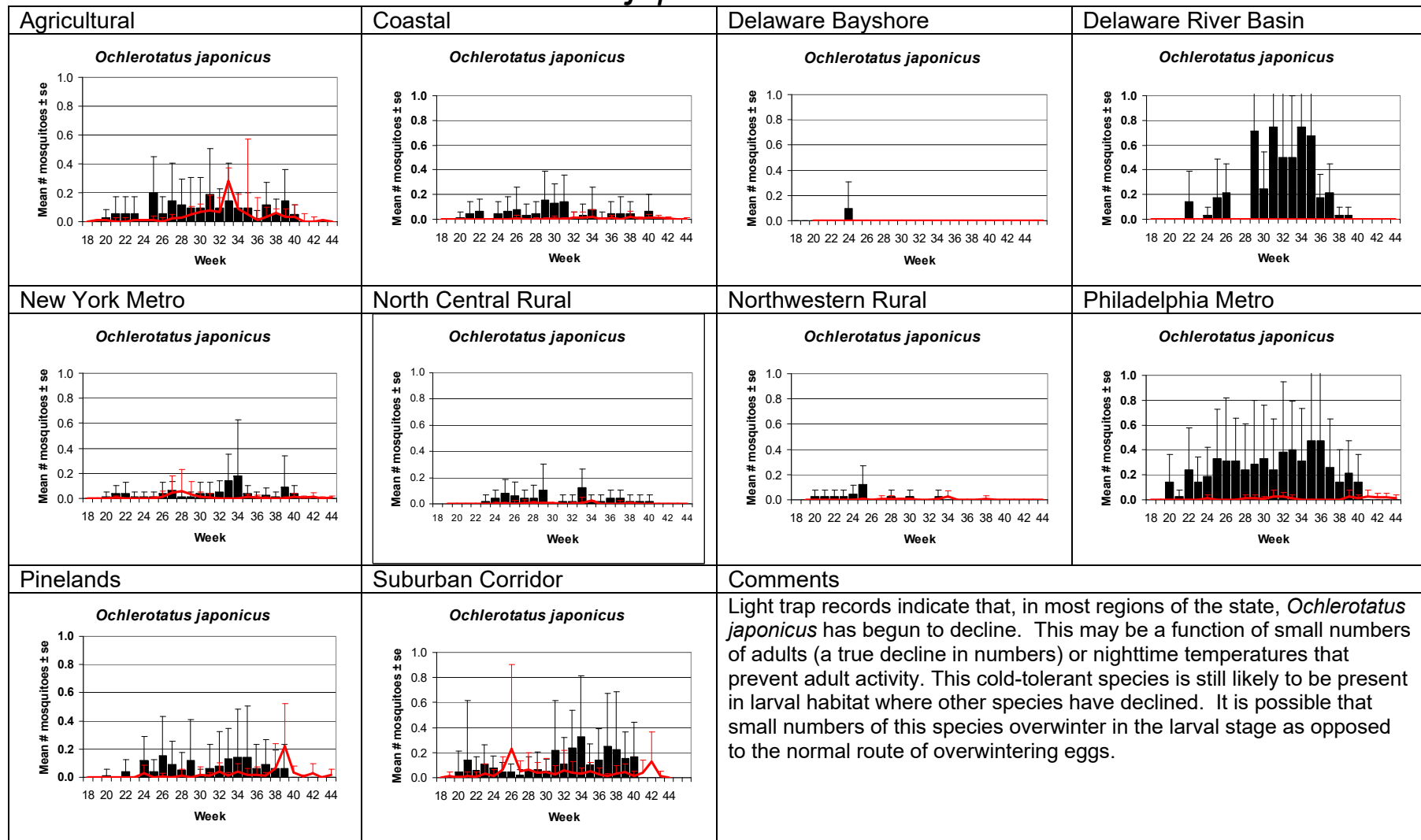
Culex Complex - Multivoltine Culex Species



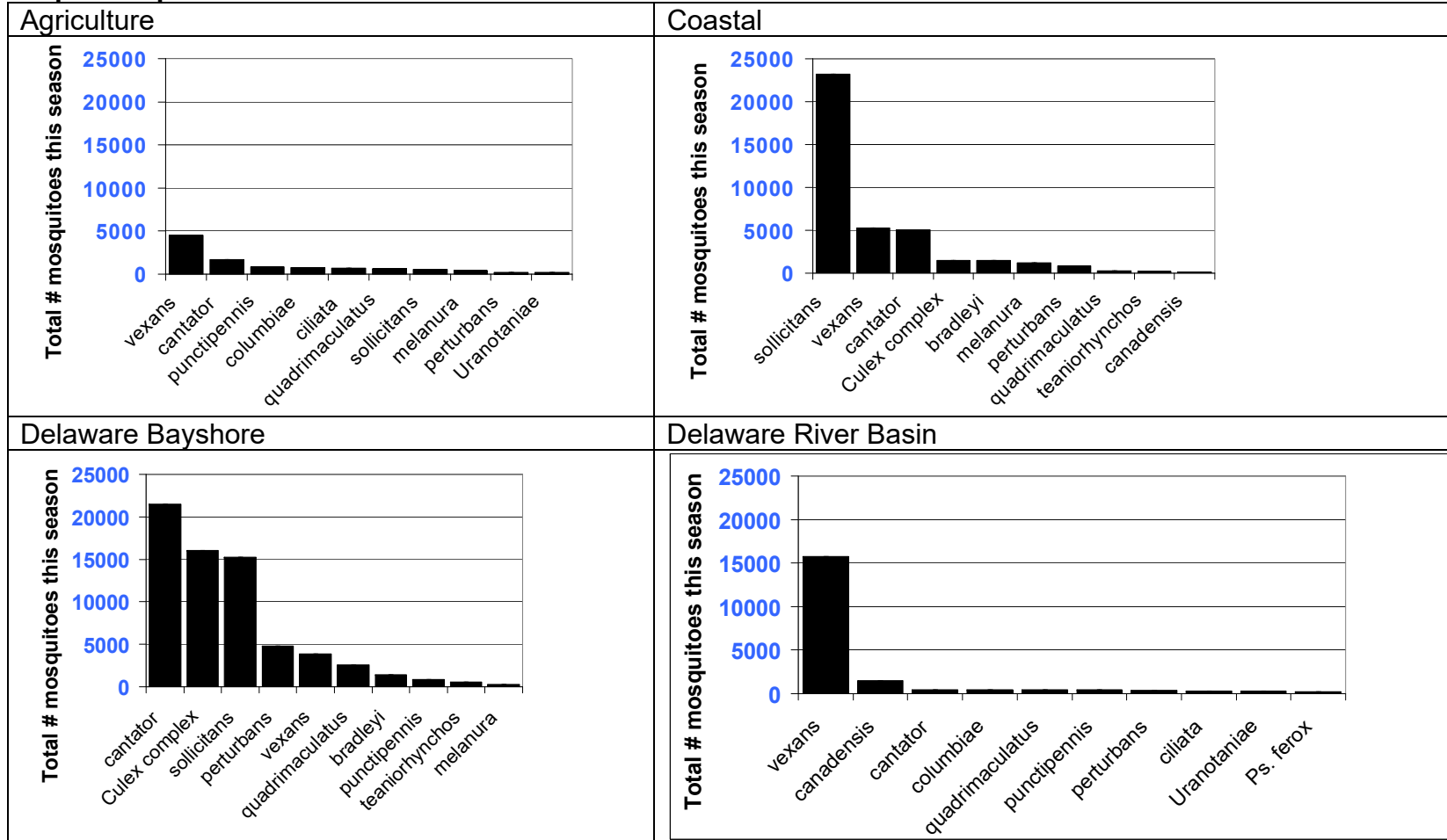
Ochlerotatus sollicitans - Salt Marsh Floodwater Species

Agricultural <i>Ochlerotatus sollicitans</i>	Coastal <i>Ochlerotatus sollicitans</i>	Delaware Bayshore <i>Ochlerotatus sollicitans</i>	Delaware River Basin <i>Ochlerotatus sollicitans</i>
New York Metro <i>Ochlerotatus sollicitans</i>	North Central Rural <i>Ochlerotatus sollicitans</i>	Northwestern Rural <i>Ochlerotatus sollicitans</i>	Philadelphia Metro <i>Ochlerotatus sollicitans</i>
Pinelands <i>Ochlerotatus sollicitans</i>	Suburban Corridor <i>Ochlerotatus sollicitans</i>	Comments Tidal floodings from this point in the season onward might still produce some larvae of <i>Ochlerotatus sollicitans</i>. But cool weather will minimize nuisance behavior from any adults that do emerge. Eggs of this species are entering diapause, which will not be broken until the coming spring.	

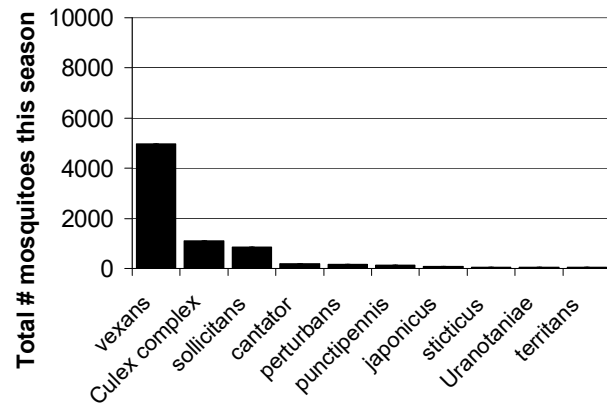
Ochlerotatus japonicus – Multivoltine Aedine



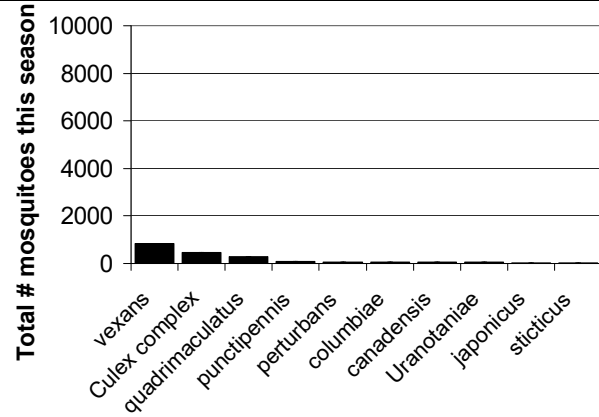
Top Ten Species for the 2004 Season.



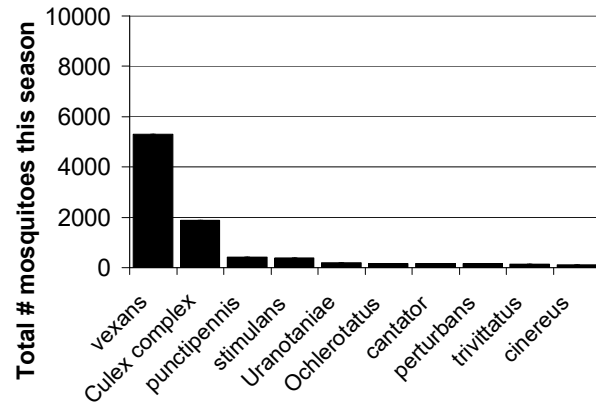
New York Metro



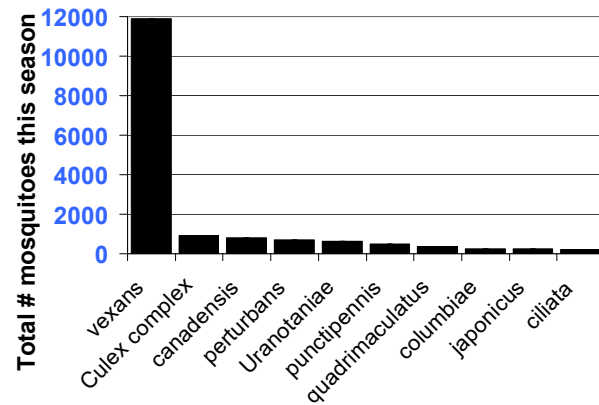
North Central Rural



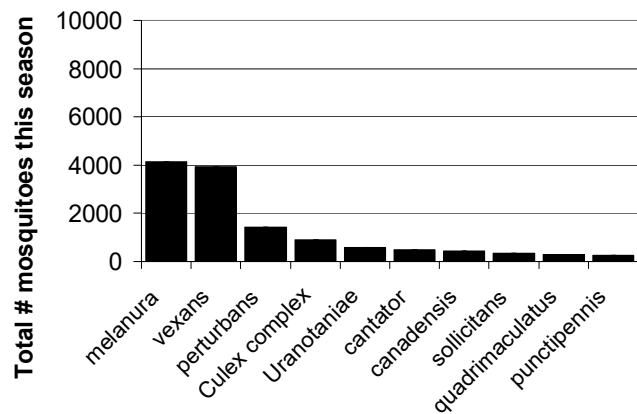
Northwest Rural



Philadelphia Metro



Pinelands



Suburban Corridor

