

Culex Flight Activity in Suffolk, VA - Charles Abadam

- 1) Looking at variations in *Culex* behavior geographically
 - a) Studies
 - i) Reddy et al 2007 - Questing and Oviposition Behavior
 - ii) PA WNV Control Program, 2007-2009
 - b) When did the behaviors occur
 - c) Helps to fine tune adulticiding efforts
- 2) Results from 2 studies in NE US
 - a) MA - 2 hours after sunset
 - b) PA - highest activity found from 9-11 PM
- 3) What about Suffolk County, VA
 - a) Would temperature make a difference in oviposition behavior?
 - b) Experimental design
 - i) 2 trapping sites (gravid traps)
 - ii) One meter transects
 - iii) Trapped from April - September
 - iv) Trapped once a month
 - (1) Set one hour before sunset
 - (2) Collected at one hour intervals
 - (3) Stopped one hour after sunrise
 - c) Identified mosquitoes on site
 - d) Did not collect egg rafts
 - e) Weather info
 - i) Temperature
 - ii) Wind speed
 - iii) Humidity
 - f) Results
 - i) Huge peak of activity one hour before sunset through 2 hours after sunset
 - ii) Spikes in activity an hour before sunrise and an hour after sunrise
 - g) Conclusions - oviposition behavior similar to what was found in the NE