

## **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