

Mid Atlantic Mosquito Control Association

2013 Conference Notes

WNV Surveillance & Intervention in TN - Kimberly Freyman

- a) WNV
 - i) 2001 - 18 cases
 - ii) 2012 - 33 cases
 - iii) Spread throughout state
- b) Mosquito control
 - i) Primarily larviciding
 - ii) Many city programs
 - iii) Davidson County
 - (1) Backyard inspection day
 - (2) Larval surveillance and larviciding
 - (3) Adult surveillance and testing
 - (4) No adulticiding since 2008
 - iv) Knox County
 - (1) Educational outreach
 - (2) Adult traps
 - (3) Adulticide based on CDC recommendations
 - (4) Larval surveillance and larviciding
 - v) Shelby County
 - (1) Most human cases
 - (2) Larval surveillance and larviciding
 - (3) Adult surveillance and adulticiding
 - (4) Mosquito fish
 - (5) Look at restuans/quincs crossing point to determine probable risk
- c) Mosquito pool testing
 - i) Multiplex
 - (1) WNV
 - (2) LAC
 - (3) Flanders
 - ii) 3 counties
 - iii) Flanders virus used as a predictor of WNV
 - (1) Peaks about 2 months before WNV
 - (2) Found in same general area
- d) Lessons
 - i) Early intervention
 - ii) Surveillance and testing