

## **Mosquito control and surveillance in Fulton County, GA - Erica Wyatt**

- A. Clarke has contracted with Fulton County since 2001
- B. Working off of historic and current maps of drainage
- C. Program overview
  - 1. Control vector and nuisance species
  - 2. Emergency response
  - 3. Larviciding
    - a) Natular XRT - 2011
    - b) Treat catch basins in hot spot high risk areas first
    - c) Currently treating 1200 open street catch basins
  - 4. Barrier treatments
    - a) Positive mosquito sites
    - b) Citizen complaints based on protocol
  - 5. Inspection
    - a) Helicopter survey done in 2001
    - b) Continually update maps
    - c) Treat tire piles with Vectolex CG every 30 days
      - (1) County has been aggressive in fining illegal tire pile
      - (2) Number of tire piles has been decreasing
  - 6. EarthRight Program - Love the Earth, Not Mosquitoes
    - a) Use of low toxicity products
    - b) Treat using bicycles or Prius
    - c) Use electronic data transmission to reduce use of paper
    - d) Collect data to support NPDES permit
  - 7. Merus Trial
    - a) Introduce truck spraying to Fulton County
    - b) Fulton County has not been in board with this
    - c) Electric ULV applicator
    - d) First night
      - (1) Limited to Senior Centers and accessible Parks
      - (2) Permission given
      - (3) Last minute so no pretreatment data
    - e) Second night
      - (1) One neighborhood
      - (2) Successful treatment
  - 8. Surveillance
    - a) 13 trap sites
      - (1) ABC traps
      - (2) Gravid traps
    - b) ID to species
      - (1) Maintain cold chain
      - (2) Ship to Fairfax County where they are tested by PCR
      - (3) Data shared with GDPH
    - c) WNV
      - (1) Average percent positive is 7%
      - (2) Rotated trap sites off the historic positive sites into other high use areas
  - 9. CSOs
    - a) High positive mosquito sites
    - b) Extra education in areas
    - c) 19 sq mile area in central Fulton County (Atlanta)
  - 10. This is a partnership

