Davidson & Forsyth Counties
A Vector Control Collaborative
Davidson County-North Carolina
Geography & Demographics

- Located within the Piedmont Region of NC
  - Gently rolling hills and shallow valleys
  - Exception southwesterly portion of the county- Uwharrie Mountains
    - Oldest mountain range in North America
    - High Rock Mountain highest elevation 1,119 feet above SL
- 100 Counties in North Carolina
  - 15th in population 163,545
  - 27th in water area 14 square miles
  - 31st in land area 552 square miles
Davidson County-North Carolina
Geography & Demographics

- Cities
  - Lexington- County Seat
    - BBQ
  - Thomasville- Largest City
    - Furniture

- Towns
  - Denton
  - Midway
  - Wallburg
Davidson County, North Carolina
Geography & Demographics

- High Rock Lake
  - Built 1926-1927
  - 15,180 acres
Davidson County
Program Structure

- Davidson County Health Department
  - Environmental Health Division
    - On-Site Water Protection Section (5 staff)
      - Programs
        - Waste Water Treatment and Disposal
        - Private Water Supply
        - Private Recreational Water Facilities
        - Public Management Entity
        - Manufactured Home & Travel Trailer Parks
        - Migrant Housing
        - Rabies Control (35% 1 staff member)
        - Vector Control
Davidson County
Vector Control Program pre-VCC

- Complaint Driven Only
VCC Program
Accomplishments

- Surveillance
  - Strategies – locations
  - GIS GPS
  - Supplies – CDC Gravid Trap
VCC Program
Accomplishments

- NCMVCA Meeting
- Specimen Identification
- Outreach Materials
VCC Problems

- Started late
  - Funding for surveillance materials late = ordered traps late
- Manpower & funding
  - Limited & very limited
  - Get creative trapping
- Disturbance
  - Trap locations need to be selected carefully
Moving Forward

- Public Health Applicators Course
  - Limited locations and dates offered
    - Eastern NC April 1-2
- Increase Surveillance
  - Parks
- Increase Community Outreach
  - Partnering local cities
- Pooling
Forsyth County North Carolina

- Winston-Salem
- 20 minutes from Mayberry
- Old Salem - established Moravian settlement
- 420 square miles
- Population of about 400,000
- Over 300 Vernal pools and flood plains
Our Program

- Two full time staff members (as of 2019)
- 100-300 mosquito complaints a season
- 36 species
- WNV – Cx. pipiens complex surveillance with gravid traps
  - Yearly positive pools in our city center
  - 231 pools submitted last season
- 95% Larvicidal program: with WALS, BTI granular/ dunks, Altosid

- Adulticides only used when there is WNV activity, or extreme deviations from established thresholds
Assessment & Support

- Advocated a gravid trapping program
  - Gravid traps catch our 5 top vectors
  - Ae. albopictus, Ae. triseriatus, Ae. japonicus, Cx. pipiens complex, and Cx. restuans (much easier identification than 30+ flood water species)
- Provide logistical support with ID work etc..
- Provide support with future mosquito pooling
How Forsyth County Vector Control Utilized its NACCHO award

Forsyth County Vector Control lacked continuity in data collection. Purchased Field Seeker Software to help cohesively join our work with our data, we are very excited about deploying the software in our day to day work flow this season.

Zones
Green: Wetlands
Yellow: Beekeeper no spray zones
Storm Drain Mapping
Green: Treated
Red: Untreated
Trap Locations

Trap Location: Tanglwood BMX
Name: Tanglwood BMX
Zone: 27012
Habitat: woodland/vernal pool
Priority: Medium
Active: True
Description: County property, full access
Access:
Comments: 
created_user: godbyynx_mapf
created_date: 12/3/2019
last_modified_user: godbyynx_mapf
last_modified_date: 12/3/2019 1:29 PM
Would like to extend our gratitude towards NACCHO
Thank you so much!

Ryan Harrison
Vector Control Specialist
Forsyth County Department of Public Health
799 North Highland Avenue
Winston Salem NC, 27101

336.703.3170
Harrisrl@forsyth.cc