INTRODUCTION

- State agency, 40 cities & towns in Middlesex & Worcester counties
- Overseen by State Reclamation & Mosquito Control Board, consisting of reps from Dept. of Agricultural Resources, Dept. of Environmental Protection & Dept. of Conservation & Recreation – w/close coordination with Dept. of Public Health
- Year round program of Integrated Mosquito Management (IMM)
- $73,000 approximate annual cost
DISEASE MONITORING

- Weekly trapping and testing of mosquito samples
- Indications if WNV or EEE is in the environment
- Risk communication to residents
REDUCTION IN DISEASE RISK

- Press releases to the public
- Spraying to lower mosquito populations
- Determination of infection rates in local mosquito population
MAINTENANCE OF DITCH SYSTEMS

- Restores historic flow patterns
- Management for beaver impacts
- Reduces larval mosquito habitat
EDUCATION

- Coordination with residents on mosquito biology & disease
- Information on risk reduction
- Information to school systems & senior populations (*at risk)
REGIONAL PROGRAM

- Cost sharing with other communities
- More effective – mosquito fly beyond town borders
- Better risk communication
SCOPE OF SERVICES

- Public Education
  - Education to schools, senior centers, etc
  - Educational materials in town hall, libraries...

- Larval Mosquito Control
  - Biological (organic) controls targeted to most vulnerable life stage
  - Catch basin program for WNV control
SCOPE OF SERVICES

- Mosquito Surveillance
  - Specialized trapping on a weekly basis
  - Samples sent for virus testing

- Ditch Maintenance
  - Restore historic flow patterns
  - Supervised by Wetland Scientist on staff
  - Best Management Practices guidance document
SCOPE OF SERVICES

- **Research & Efficacy**
  - Test new products & current procedures

- **Adult control (spraying)**
  - Residents request service
  - Any areas can be excluded
  - State & Federal regulations in place for environmental & human health protection
  - Notification system in place
SCOPE OF SERVICES

- Source Reduction (tire recycling)
  - Curbside, large tire removal, coordination with community events
  - Reduces larval mosquito habitat
  - 10,000+ tires recycled in 3 years

- Beaver mitigation
  - New for 2014
  - Working under emergency permitting from BOH & ConCom
  - All work using CMMCP staff & materials, no additional cost
HUMAN HEALTH RISK

- No effects noted after aerial spraying by State in 2010 & 2012*
- Residents can register location & opt out of spraying
- Notification system in place
- Consumer based pesticides: low risk & low use rates

*http://www.mass.gov/eea/agencies/agr/pesticides/mosquito/mosquito-control-updates.html
ENVIRONMENTAL RISK

- No effects noted after **aerial** spraying by State in 2010 & 2012*
- Buffer zones for sensitive areas
- No restrictions in endangered species habitat (NHESP)
- Federal NPDES permit requires investigation if notified – none to date

RISK TO BEE POPULATIONS

- No effects noted after **aerial** spraying by State in 2010 & 2012*
- Beekeepers can register location & opt out of spraying
- Spraying is done after sunset
- State regulations in place for bee protection

*http://www.mass.gov/eea/agencies/agr/pesticides/mosquito/mosquito-control-updates.html
RISK TO NON-TARGET SPECIES

- Pesticides used in pet products
- Risk to other wildlife classified as “does not pose an unreasonable risk” by EPA*

*http://www2.epa.gov/mosquitocontrol/permethrin-resmethrin-d-phenothrin-sumithrinr-synthetic-pyrethroids-mosquito-control
Exclusion properties (No Sprays)

- Letters sent to all City/Town Clerks in January
- Can register with Clerk, CMMCP or through our website
- Detailed list sent with all pesticide applicators & on GPS units
Spray Notifications

- Monthly schedules sent to all Boards of Health, City/Town Clerks & Police Dept. 2 weeks prior to start of each month
- Street listings on CMMCP phone system after 3:30pm each day
- Street listing on CMMCP website after 3:30pm each day.
- Detailed listing given to Police Dept. each afternoon
Adult Control (cont.)

- If no service requests are received from residents, then no spraying will be done. Other work like larval control, landing counts, etc. may be performed in town on the scheduled day/evening.

- If spraying is done for virus control, will be done only after consultation with local and state officials.
Research & Efficacy

Resident Survey 2005-2010

- 92.3% (avg.) are satisfied with service
- 98.5% (avg.) will use service again
- 1,260 respondents from 6,000 (21%)

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