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Joe Andrews AllPro Vector Group & TMA
If a Zika Outbreak Occurs

- Spraying backyards is necessary to control container mosquitoes once adults begin to emerge
- The predominant species of concern are *Aedes albopictus* and *Aedes aegypti*
- The spray cloud needs to linger & move around obstacles such as fences, shrubbery and buildings
- Spraying can be done if certain conditions are present
- Effective applications will depend on good equipment, the right conditions and evaluations of control
Inversions

- An inversion is needed for best results from adulticiding.
- An inversion occurs when the air near the ground is several degrees cooler than the air 20-30 ft above the ground.
- An inversion can occur in heavily shaded backyards.
- Usually occurs at sundown or early morning.
- An inversion helps to keep the spray cloud near the ground.
Inversion Conditions

- Warm air
- Cool air

Temperature Probe at 25 feet
Temperature Probe at 2 feet
The Weather

Best conditions for spraying

An inversion with low wind speed!
Adulticiding: Optimizing Applications

Timing
- Spray during peak activity period for mosquitoes: morning or evening
- Consider Inversions, Thermals

Environmental Factors
- Don’t spray during rain
- Don’t spray when winds exceed label directions
- Barriers can limit spray drift

Record Keeping
- Chemical used
- Area treated
ULV: Gas Handheld
ULV: Portable Units
Thermal Fogging

- Propane fogger
Barrier Sprays & Mosquito Control for Hire

Joe Andrews
MAMCA 2012
Back yard mosquito control

- One man companies
  - Yard Screen Raleigh NC
    - Surveillance
    - Tip and Toss
    - Barrier spray
    - Larvicides
  - Mist Pro New Bern NC
    - Surveillance
    - Tip and Toss
    - Barrier spray
    - Larvicides
    - Misting Systems
    - IFA’s
    - Ticks
    - ULV & Thermal applications
Franchises

- Mosquito Squad
- Mosquito Terminators
- Mosquito Authority
- BuzzOff
- MosquitoNix
- Terminix
- Cleggs
- Many others
Misting Systems

- Either natural Py’s or Synthetic pyrethroids
- Set on a timer (digital or analogue)
- Two to three sprays per 24 hours
  - Set at sunset midnight and 4-5 AM
- 30 to 45 seconds in duration
- 200+ psi
- An estimated 8 micron droplet
- Nozzles placed around the perimeter on risers in and around harborage
- Mixing drums or self injecting systems
Barrier Applications

- Can be made with a variety of products that are NOT labeled for ULV applications
- Can keep mosquitoes away from certain areas such as playgrounds, schools, etc
- Are usually “wet” sprays applied to foliage
- Products for Barrier applications are usually applied using a backpack or pump up “hand held” sprayer
- Are applied at much higher rates than ULV
Backpack sprayers

Stihl 450
Backyards: Factors to Consider

Obstacles
- High Fences, Trees, Shrubbery
- Thermal Updrafts
- Buildings change air currents

Environmental Factors
- Good Inversions help
- Rain or fog limits control
- Wind may be from wrong direction

Keep /Maps/Good Records
Information

• Considerable information online
• Visit our website for labels, and SDS (MSDS)
• Equipment information is available on our website with the link
• Additional information is available on the GMCA website
• Contact our office at www.allprovector.com or call 888-603-1008
Barrier Sprays

- 80-120 micron droplets applied with a motorized mister blower
- Applications to harborage especially along the perimeter
- Products vary widely
  - Bifenthrin
  - Cyfluthrin
  - Lambda Cyhalothrin
  - Deltamethrin
  - others
ULV applications
ATV mounted ULV
Thanks for your time &
BE WELL...