# Barrier Sprays & Mosquito Control for Hire

David Sykes GMCA 2013

#### Services

- Misting systems
- Barrier sprays
- Tick control (where allowed) and fire ants
- May be part of Pest Control Contract
- Spraying for special events, weddings
- Neighborhood spraying contracts, homeowner Assns
- Golf Courses
- Service not provided by municipal or county programs

## 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

### Larger Regional Companies

- Mosquito Experts
   – Raleigh & East NC
  - Misting Systems
  - Barrier Sprays
  - General pest control
- Arrow Pest Control- Atlanta based
  - Misting Systems
  - Barrier Sprays
  - General pest control

#### Franchises

- Mosquito Squad
- Mosquito Terminators
- Mosquito Authority
- BuzzOff
- MosquitoNix
- Terminix Corporate, hired Stan Cope for mosquito ops
- Cleggs
- BugBusters, SC

# Biting flies



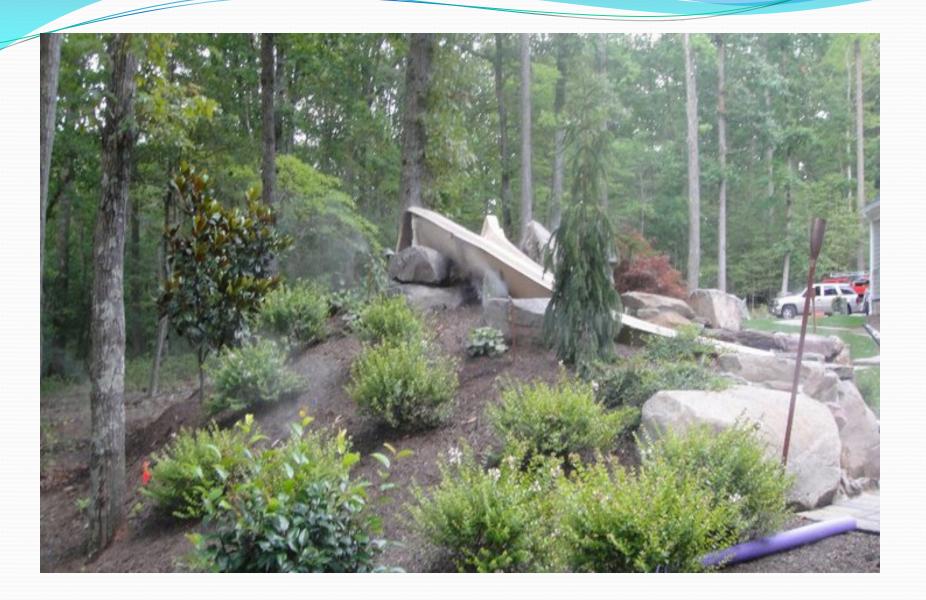
#### Misting Systems

- 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











### Misting Systems- Other Uses

- For management of pests on deer farms
- Deer Epizootic Hemorrhagic Disease is a concern
- Carried by biting midges, Culicoides
- Deer farming is big business in some states
- Use misting nozzles on fences, shelters, gates
- EHD does not affect humans or livestock
- Very specific to whitetail deer

#### Ad for control of Whitetail EHD



#### **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, "Demand"
  - Deltamethrin, "Suspend"
  - others

#### Thermal and ULV

- Synthetic pyrethroids, oil or water diluted
- Organophosphates, malathion or chlorpyrifos
- With OPs odor is a problem
- ULV Pyrethrum products usually diluted with water
- Applied using handheld or smaller ULV Equipment
- Sprayers may be mounted on ATVs, utility vehicles
- Many products to choose from

# **ULV** applications





#### ATV mounted ULV



# Cost & Treatment cycle Barriers

- Costs vary by region and competition
- Typically a range between \$69 to \$120 per application
- Most barrier applications begin in April/May and run through November
- Most companies have adopted a 20 day cycle (Due to the degradation of most synthetic pyrethroid products)

### Misting Systems

- The cost of a misting system varies widely
- Again in part to regional affluence and (of course competition)
- Generally a simple 55 gallon analog system will start around \$1400.00
- For larger more sophisticated multi zonal tankless systems cost may be around \$6K.
- Refills are determined by usage
  - With a three time/day spray a system will need to be recharged every 45 days or so

#### So...What are the concerns?

- Non-target effects
  - Family members, children
  - Pets, some dogs very susceptible, cats and fish
  - Birds are susceptible to residual insecticides
  - High application rates, barrier
  - Effect on Butterflies, bees and assorted other critters
- Chemical trespass, adjoining yards or property
- The "bubba" factor
  - Fob actuators, turns misting system on, may be misused
  - Off label pesticide use, mix your own, over application

## Use pesticides responsibly



# Thanks for your time & BE WELL...

