

Barrier Sprays & Mosquito Control for Hire

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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



**YOUR #1 SOURCE
FOR EHD CONTROL
FOGGERS
MISTERS
CHEMICALS
FREE CONSULTATION**

YOUR BEST DEFENSE AGAINST EHD VIRUS

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...

