

Backyard Adulticiding Caribbean model

Thanks to:

David Sykes; AllPro Vector Group

Dr. Claude Thomas: Curtis Dynafog B&G

Mosquito Control of Iowa

Jasmik

Joe Andrews AllPro Vector Group & TMA

If a Zika Outbreak Occurs

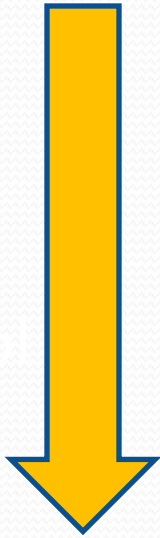
- Spraying backyards is necessary to control container mosquitoes once adults begin to emerge
- The predominant species of concern are *Aedes albopictus* and *Aedes aegypti*
- The spray cloud needs to linger & move around obstacles such as fences, shrubbery and buildings
- Spraying can be done if certain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

Inversions

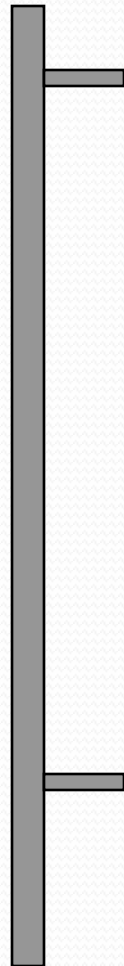
- An inversion is needed for best results from aduaticiding
- An inversion occurs when the air near the ground is several degrees cooler than the air 20-30 ft above the ground.
- An inversion can occur in heavily shaded backyards
- Usually occurs at sundown or early morning
- An inversion helps to keep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

Inversion Conditions

warm air



inversion



Temperature Probe at 25 feet

Temperature Probe at 2 feet

cool air

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



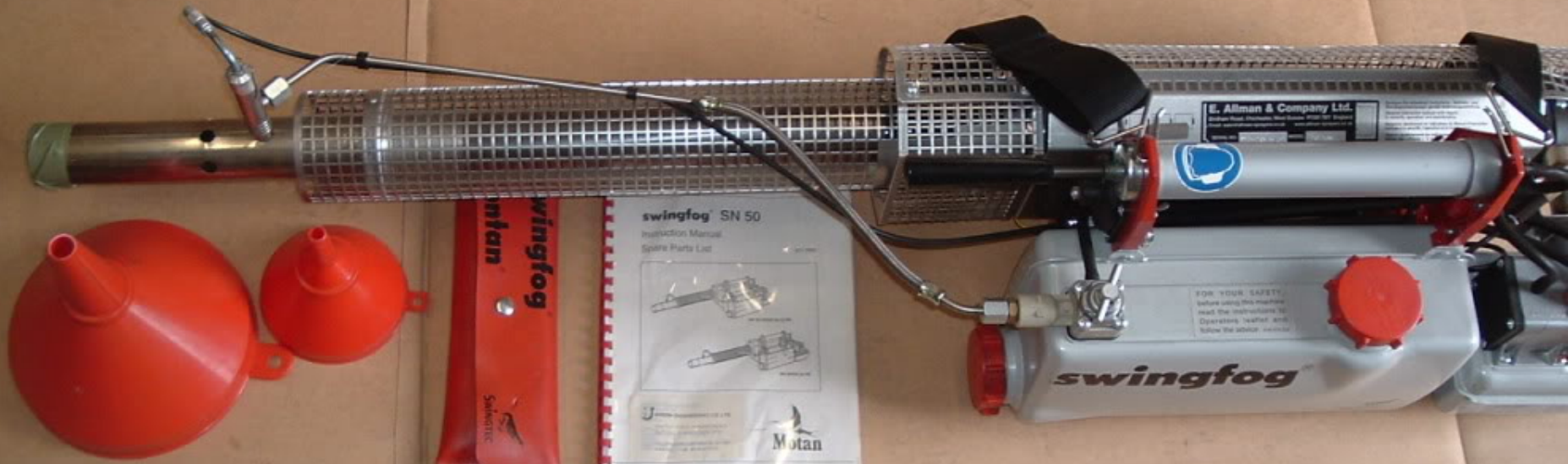
ULV: Portable Units



Thermal Fogging

- Propane fogger





swingfog SN 50

Instruction Manual
Spare Parts List



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swingfog

FOR YOUR SAFETY,
before using this machine,
read the instructions to
Operators, wear PPE,
follow the safety manual.





04/23/2015



04/23/2015













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

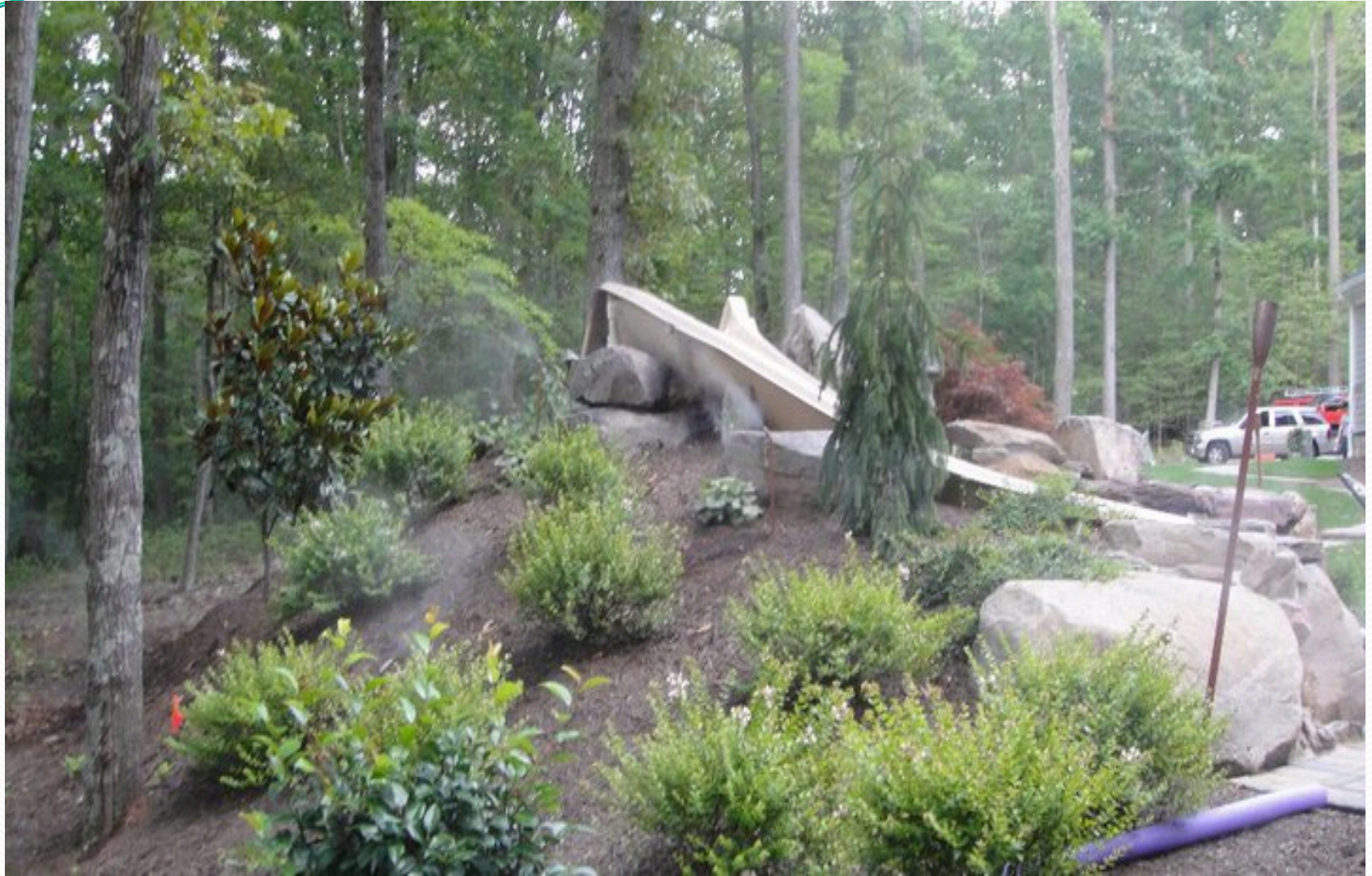
- Mosquito Squad
- Mosquito Terminators
- Mosquito Authority
- BuzzOff
- MosquitoNix
- Terminix
- Cleggs
- Many others

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 haborage
- 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

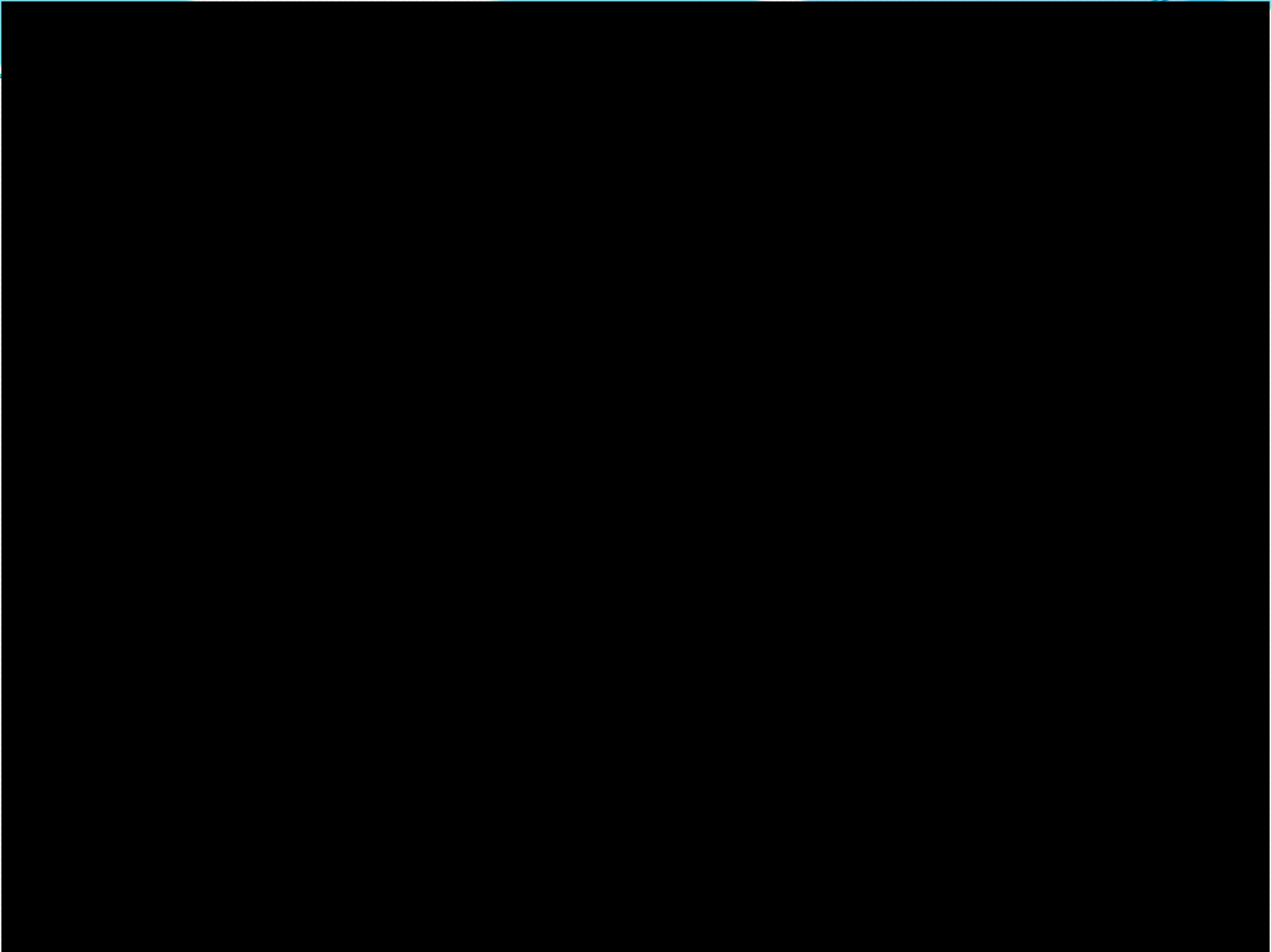


Information

- 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...

