

Hand-Held and Truck Mounted Application of Bti to Control Container Breeding Mosquitoes - LT James Dunford

- a) Reasons for this study
 - i) Would be more time efficient
 - ii) Population reduction prior to adult emergence
- b) Purpose
 - i) Evaluate ability to control larvae using ULV application
 - ii) Look at mortality and product penetration
- c) Methods
 - i) Bti - efficacy known
 - ii) Various equipment evaluated
 - iii) Evaluated droplet size
 - iv) Used *Aedes albopictus* in study
 - (1) Larvae placed in cups
 - (2) Cups placed in rows
 - (3) Field plots had varying vegetation density
 - (4) Cups placed at varying distances from applicator
- d) Summary
 - (1) Particle deposition was usually low in areas with low mortality
 - (2) Shape/size of larval habitat affected particle penetration as did vegetation
 - (3) Deposition decreased with distance from sprayer
 - (4) Results vary depending on equipment used
 - (5) Environmental factors
 - (a) Weather conditions were a big factor
 - (b) Humidity affected spray distance
 - (6) Droplet size is important
 - (7) Dilution rates affected results
- e) More work is needed