

## Evaluation of Three Methodologies for the Population-Level Control of *Aedes albopictus* and *Aedes aegypti* - Chris Lesser

- 1) Need for control
  - a) Both species are a huge nuisance
  - b) Both are competent vectors
  - c) Both are daytime biters
  - d) Both come off asynchronously
  - e) Both are difficult to control on a large scale
- 2) Purpose
  - a) Develop an effective control measure for albos and aegypti
  - b) Independent of source reduction or public education
  - c) Large scale control
- 3) Testing protocol
  - a) Ground ULV larviciding
  - b) Combined with time-sensitive adulticiding applications
- 4) Product used - Altosid
- 5) Results - close to 100% control after 16 days
- 6) Study
  - a) 4 study sites - old residential
    - i) Larvicide only
    - ii) Adulticide only
    - iii) Both larvicide and adulticide
    - iv) Control - nothing
  - b) Products
    - i) Altosid 5% liquid
    - ii) Permethrin/PBO 30:30
  - c) Applications occurred ~1 hour before sunset
  - d) Surveillance
    - i) 30 ovitraps per site (LBJs)
    - ii) 2 different designs
  - e) Results
    - i) Reduction seen in adulticide plus larvicide plot
    - ii) Adulticide only - similar to control site
    - iii) Larvicide only - saw an increase in numbers