Meeting the Challenge of the Asian Citrus Psyllid in California Nurseries

A two-day workshop in Riverside, California

June 11- 12, 2009


Florida-Foundation Block


Brazil-Citrus Nursery

Organizing Committee:

T. Delfino-California Citrus Nursery Society
A. Eskalen-Dept. of Plant Pathology & Microbiology, University of California Riverside
R. Lee-USDA- ARS, National Clonal Germplasm Repository for Citrus and Dates
G. Vidalakis-Citrus Clonal Protection Program, Dept. of Plant Pathology & Microbiology, University of California Riverside

Invited Speakers:

J. Ayres-Fundecitrus, Brazil
J. Bethke-UC, CA
G. Baze-Golden Pacific Structures, CA
T. Delfino-CCNS, CA
F. Dixon-Wells Fargo, CA
D. Elder-American Ag Credit, CA
T. Gast-Southern Gardens Citrus, FL
P. Gomes-CHRP, USDA -APHIS, NC
E. Grafton-Cardwell-UCR, CA
D. Howard-AgraTech, CA
N. Jameson-Brite Leaf Nursery, FL
R. Keijzer-KUBO, The Netherlands
P. Llatser-AVASA, Spain
S. McCarthy-CDFA, CA
G. Vidalakis-UCR-CCPP, CA

Registration: http://ccpp.ucr.edu & http://eskalenlab.ucr.edu

Location:
Sunkist Center
Citrus State Historical Park
9400 Dufferin Avenue
(Corner of Van Buren Blvd)
Riverside, California

Sponsored by:

California Citrus Nursery Board
Citrus Research Board
Stuewe & Sons, Inc. Tree Seedling Nursery Containers
Golden Pacific Structures, A Rough Brothers Company
AgraTech Greenhouse Manufacturers
Bayer CropScience

Information on line at: http://eskalenlab.ucr.edu

"Dan Howard" <Dan.Howard@agratech.com>

Building a Psyllid Proof Greenhouse

AGRATECH
GREENHOUSE MANUFACTURERS

Dan Howard (925) 597-0780

Things to Think About First

1. Customer Base
2. Growing container
3. Benches
4. Location
5. Irrigation
6. Budget

Roof Styles

Truss or A-Frame

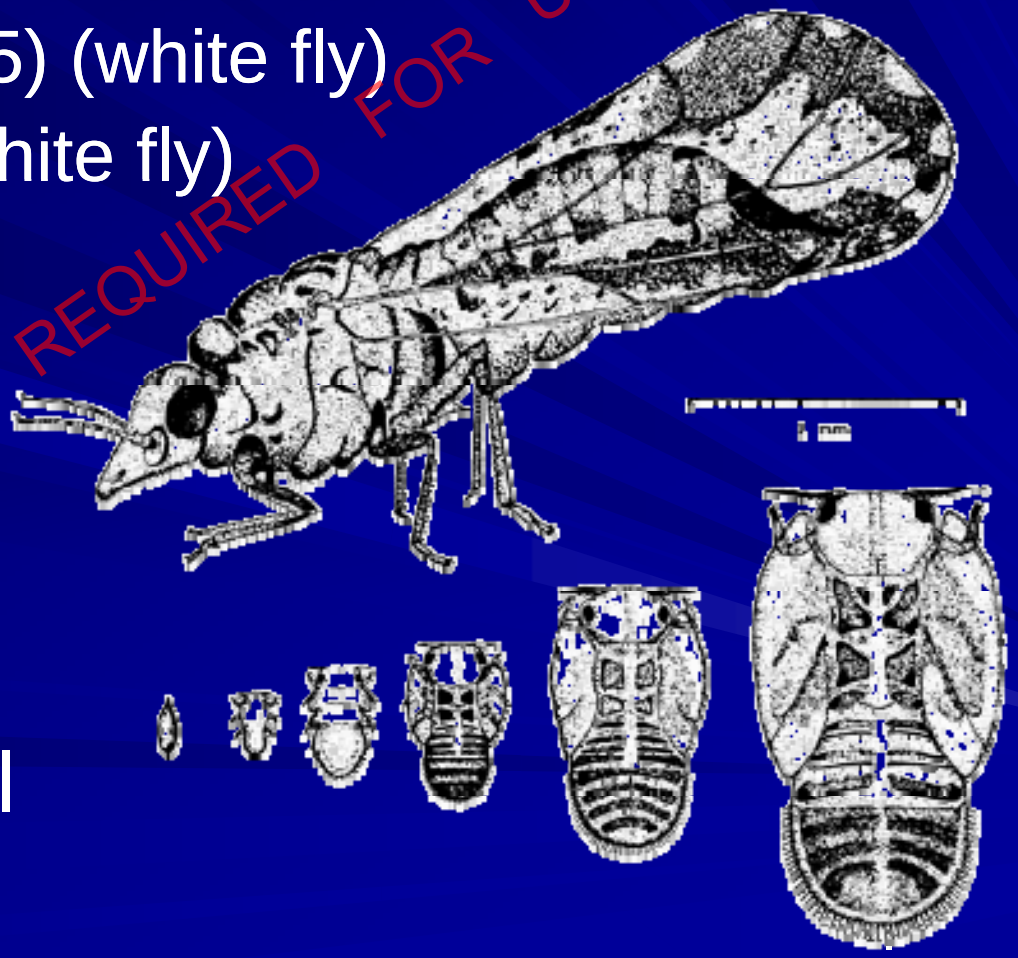
Arched

Sawtooth

Flat

Coverings

- Insect net
  - 50 mesh (50 x 25) (white fly)
  - 41 x 43 mesh (white fly)
  - 75 mesh (thrip)
- Polycarbonate
  - Corrugated
  - Twin wall
- Polyethylene
- GR7 Sheet metal



Types of Locks

Agra lock

Spring lock or Wiggle wire

Other Options

- Heat and Cooling
- Vestibules
- Partitions
- Doors
- Air Curtains
- Rollup wall, dropwalls and vents
- Energy systems (Shade & Heat Retention
- Roll-a-roof

Citrus Nursery Houses

- Bud wood house
- Propagation house
- Adaptation house for tissue culture
- Finishing house

Bud Wood Greenhouse

- Mature trees *usually* growing in the ground but can be grown in large containers
- Gutter or eave height is 10 to 16 feet
- Arched house w/ insect net on top & sides
- Stem wall around perimeter (concrete, corrugated, or twin wall polycarbonate)
- Double entry vestibules w/ small doors

Compliments of Willits and Newcomb

Propagation Greenhouse

- Smaller overall dimensions
- Solid covering
- Pad & fan or fog cooling
- Shade system
- Heat
- Benches
- Double entry

Compliments of Willits and Newcomb

Finishing House

- Same concept as Bud Wood House
- Gutter connected vs. Cold frames
- Lower height than Bud Wood House
- Many growers have finishing houses, however not many are psyllid proofed

Finishing Houses

Thank You

Dan Howard (925) 597-0780