

# Research and Regulatory Wrap Up

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# WHITE ROT UPDATE

- Registration Status
- Grant-In-Aid Program
- White Rot Master Plan
- GPS Mapping Program Grant



# 2012 Research Projects

## WHITE ROT

- Davis/Ferry (UCDavis)- Sensitivity of white rot to various fungicides
- BoMing Wu (Oregon State) New strategies for managing white rot
- Eady (New Zealand Crop & Food Research) Biotech development white rot resistance
- Turini/Biscaro/Wu White Rot mapping and site specific management for garlic and onion fields in Fresno County

# White Rot Mapping Plan

- Utilize GPS mapping system
- Use software to allow mapping of infected sites
- Use computer software to treat, when possible, infected sites plus offset
- Obtain additional grant \$\$ to expand program and purchase additional hardware and software for mapping and application



**EZ-OFFICE MOBILE SOFTWARE AND THE TRIMBLE NOMAD HANDHELD COMPUTER**

AN EFFECTIVE TOOL FOR GROWERS, CROP CONSULTANTS, SOIL SAMPLERS AND SCOUTS

**EZ-Office mobile**

**SIMPLE USER INTERFACE:**

- Familiar and easy to use. Check, Focus, Field, and Job data management.
- Comprehensive tool display on screen.
- Touch screen provides large buttons and map area for finger navigation.

**SCOUTING:**

- The field imagery tool allows scouts to capture the look of GPS locations and upload images on the Trimble Nomad handheld computer to capture and geo-reference pictures of problems such as weeds and insects.
- Save the geo-referenced photos for applications, such as historical photo-logs, reports of weeds, the infected sites, etc., and jobs.

**SAMPLING:**

- Create soil sampling grids on any size, pattern, and orientation.
- Report results by sampling location on your Trimble Nomad software or other GIS programs.
- Easily compare to soil sample locations and other layers.

**HARDWARE:**

- Rugged handheld is ready to return to work.
- Includes rechargeable battery designed for all day use.
- Available for all GPS receivers, Garmin, Trimble, and wireless text storage.

**MAPPING:**

- Add a field boundary in order to create a field or soil type data to create the database.
- Record soil sampling points on other maps of interest.
- Display boundaries, properties, ID's, and geo-referenced photos, aerial photos.

**DATA STORAGE:**

- Store data on one or several memory or removable Secure Digital data card.

**VIEWING DATA:**

- Data from a 2 other sources (remote database) can be set off on the handheld computer and a wireless data link connection.
- Data can be compared in shapefile format to see who's doing what/when.

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# WHITE ROT MASTER PLAN

- Inspection of all garlic seed fields
- Garlic seed field maintenance
- Policy for planting and harvesting from areas know to have white rot
- Reporting of fields with white rot infection
- Treatment for known infestations (all Allium producers)
- Certified Garlic Seed Programs
- Development of methods to reduce soil populations of white rot sclerotia

# CDFA Certification of Garlic Field



# Garlic Rust Management

- First observed CA 1934
- Severe outbreak spring 1998
- Section 18 for Folicur 1999 (7 years except 2003)
- Azoxystrobin (Quadris) is only other registered compound
- Steve Koike/Richard Smith (Salinas) to screen new products & evaluate management plan. Koike & Board Task Force build Management Plan



# IYSP and Thrips Control

- Researchers:
  - Hanu Pappu (WA State Univ.Virology)
  - Eric Natwick (UCCE Imperial Valley)
  - Donna Henderson (UCCE Imperial Valley)
  - Steve Orloff/Larry Godfrey (Tulelake)
  - Tom Turini (UCCE Fresno County)
  - Mike Davis (UC Extension Pathologist, Davis)
  - Howard Schwartz (CSU)



# IYSP and Thrips Control

- Determine effects of early season preventative treatments
- Identify thrips species during season
- Evaluate an alternating programmed spray program for thrips
- Determine overwintering sites for thrips
- Evaluate new chemistries for control

# Seed Corn Maggot



- Rob Wilson/Larry Godfrey (UCCE/IREC)
  - Evaluation of seed treatment products
- Mary Ruth McDonald (Univ. of Guelph, Ontario)
- Commercial evaluation of FarMor seed treatment

# Weed Control Processed Onions

- Weed Control
  - Rob Wilson  
(IREC)Herbicide  
programs for weed  
control in processed  
onions



# Thank you to:

- Syngenta
- Dow Chemical
- Bayer CropScience
- DuPont
- Valent
- MANA
- BASF
- Bejo Seeds
- John Deere Water





**QUESTIONS???**

**THANKS FOR YOUR TIME**