

WELCOME TO THE 2012 CALIFORNIA GARLIC & ONION SYMPOSIUM

Kevin Lehar

Chairman

California Garlic & Onion Research Advisory Board



The CA Processed Onion and Garlic Industry

- **Garlic**

- Estimate 17,731 acres for 2012 crop
- 91% of total US production
- 95% Fresno, Kern, Kings Counties
- 65% processed
- Farm gate value \$293 million
- Ranks 31st in state crop value

- **Onions**

- 49,000 acres statewide (rank 27th in state crop value)
- 22,350 processing onions
- Also grow in AZ, NV, OR
- ~50% of production processed
- Farm gate value processed onions \$100 million
- * Based on 2010 Ag Commissioner's Data

FORMATION OF MARKETING ORDER: MEMBERSHIP

- All fresh, dehydrated and processed garlic
- All processed onions
- All seed onion and garlic growers
- Areas include Southern desert, San Joaquin Valley and Tulelake production regions

CURRENT MEMBERS:

Sensient Dehydrated Flavors,
Christopher Ranch,
Harris Fresh,
Sequoia Packing,
The Garlic Company,
Olam Spices and Vegetables,
George Chiala Farms and their growers

RESEARCH BUDGET

Commitment to Generate
\$100K per year for :

- **White rot research and**
 - Conventional and Biopesticide research
 - Application technology
 - Biotech project w/New Zealand Institute for Crop Research
- **Solutions to other pest problems:**
 - Garlic Rust
 - Iris Yellow Spot Virus
 - Bulb mites
 - Nutsedge and bindweed
 - Onion Maggot



2011 Research Projects

WHITE ROT

- **Davis/Ferry (UCDavis)**- Sensitivity of white rot to various fungicides
- **BoMing Wu (Oregon State)**- New strategies for managing white rot
- **Giles/Moules (UCDavis Ag Engineering)**- Machinery development for chemical placement of white rot products
- **Turini (UCCE Fresno)**- Fungicide applications through drip irrigation for white rot
- **Eady (New Zealand Crop & Food Research)**- Biotech development white rot resistance

2011 Research Projects

- **INSECT CONTROL**

- **Rob Wilson/Larry Godfrey (UCIREC/ UC Davis)**- Seed corn maggot control with seed treatments
- **Mary Ruth McDonald (Univ. of Guelph, Ontario)**- Seed treatments for control of maggots on onions
- **Hanu Papu (WSU)**- Management of Iris Yellow Spot Virus and thrips in onions
- **Steve Orloff/Larry Godfrey (UCCE Siskiyou Co./UC Davis)**- Thrips management in Klamath Basin
- **Eric Natwick (UCCE Imperial Co.)**- Management of IYSV and thrips in onions

2011 Research Projects

- Weed Control
 - **Rob Wilson (UC IREC)**
Herbicide programs for weed control in processed onions
- Disease Control
 - **Steve Koike (UCCE Monterey County)** Rust control program for garlic
- Other
 - **Rachael Long (UCCE Yolo County)**
Investigation into onion seed production decline



RESEARCH FUNDING 2005-2012

- WHITE ROT RESEARCH
 - **\$389,213**
- ONION THRIPS, WEED CONTROL & RUST/DISEASE MANAGEMENT
 - **\$196,561**

**Seven year total
\$585,774**



OUTREACH ACTIVITIES

- Participated in WASH DC meeting with USDA, Dept. of State and EPA Office of Pesticide Programs



OUTREACH ACTIVITIES

- Participated in Minor Crops Tour with 48 participants from USDA, EPA, CDFA, CA DPR, IR-4, Cal Poly, UC Davis and UC IPM



CAGORAB CORE OBJECTIVES

- 1. Reinstate White Rot Master Plan**
 - Industry agreed to guidelines for preventing further spread of white rot
- 2. Develop Garlic Rust Management Plan**
- 3. Consider new white rot integrated strategies, including biotech, biopesticides, & cultural control**
- 4. Expand scope of Research Board to include All Allium Crops**
 - Ask dry bulb industry to participate on ad hoc basis for non-white rot problems
 - Provide a unified voice for CA Allium production
- 5. Update Research Objectives with Input from all of Allium Industry**

White Rot Management Plan

- **Recommendations**
 1. Inspection of all Garlic Seed Fields
 2. Garlic Seed Field Maintenance
 - Wash seed bins before use
 - Inspect all seed fields for white rot or other pathogens
 - Minimize equipment movement in and out of seed fields
 - Sanitize all equipment before entering a seed field
 3. Restrict Planting and Harvesting in areas known to have white rot
 4. Report all Fields with White Rot Infestations
 5. Establish Garlic Seed Certification Programs
 6. Develop Methods to Reduce Soil Populations w. rot

WELCOME TO :

WWW.CAGARLICANDONION.COM



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About



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QUESTIONS???

**THANKS FOR YOUR INTEREST
AND SUPPORT!**