



# WELCOME TO THE 2009 CALIFORNIA GARLIC & ONION SYMPOSIUM

Kevin Lehar

Chairman

California Garlic & Onion Research Advisory Board



# The CA Processed Onion and Garlic Industry

- **Garlic**
  - 17,000 acres statewide
  - 95% of total US production
  - 95% Fresno, Kern, Kings Counties
  - 60% processed
  - Farm gate value \$150 million
- **Onions**
  - 48,000 acres statewide
  - 23,000 processing onions
  - Also grow in AZ, NV, OR
  - ~50% of production processed
  - Farm gate value \$150 million



# FORMATION OF MARKETING ORDER: PURPOSE

- Organize onion and garlic growers to develop white rot management program
- Conduct long and short term research in white rot management
- Develop White Rot Master Plan to prevent further spread of disease
- Initiate other research programs on processed onions and all garlic as problems are presented
- Maintain CA position as leader in superior quality Allium products
- Compete in an ever increasing competitive world (China/India)

# 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:** Con Agra Food Ingredients, Sensient Dehydrated Flavors, Christopher Ranch, Harris Fresh, Sequoia Packing, The Garlic Company and their growers (Olam Int. pending)

# Research Proposal Priorities

- Diseases
  - White Rot (garlic & onions)
  - Garlic Rust
  - Botrytis
  - Soft Rots
  - Downy Mildew
- Nematodes
  - Bulb & Stem
- Insects/Mites
  - Thrips (onions & garlic)
  - Maggots
  - Bulb Mites
- Weeds
  - Pre-emergence materials
  - Pre-harvest control of morningglory/bindweed/nutsedge

# RESEARCH BUDGET

- Commitment to Generate \$100K per year for :
  - White rot research and commercial implementation of tools to manage white rot
    - Conventional and Biopesticide research
    - Application technology
    - Biotech project w/New Zealand Institute for Crop Research
  - Solutions to other pest problems facing CA growers, handlers, and processors
    - Garlic Rust
    - Iris Yellow Spot Virus
    - Bulb mites
    - Nutsedge and bindweed /morningglory control

# ACCOMPLISHMENTS

- Working with Ag Chem Companies obtained:
- Bayer CropScience
  - Section 18 Folicur for garlic rust control (7 years running)
  - Section 3 full label for Folicur use to control garlic rust and for white rot management (pending DPR)
  - Research Authorization to evaluate Folicur fungicide commercially on 100 acres in Tulelake and SJV 2008
  - Section 18 for use of Poncho (clothianadin) for seed corn maggot control Klamath Basin 2009

# ACCOMPLISHMENTS

- BASF
  - Provided research data to support registration of Outlook Herbicide for nutsedge control
  - Supported IR-4 research project for registration of Endura fungicide for white rot management (pending)
- MONSANTO
  - Section 24(c) for use of Roundup VVMax after dry-down to control bindweed and morningglory in garlic
- VALENT
  - Supported research data for registration of Chateau on garlic
- FMC Corporation
  - IR-4 project ongoing to register Shark (carfentrazone) in season for bindweed and morningglory control (Shark to follow Roundup for burndown)

# ACCOMPLISHMENTS

- ACETO Chemical Co.
  - Developed data package and assisted with submission and registration of DADS biostimulant in CA
- SYNGENTA

Jointly developed garlic rust management strategy using Quadris as preventative and Folicur Section 18 for active rust infection

  - Cooperated in developing Dual Magnum use through sprinklers on onions and garlic
  - Working on getting Section 24(c) for use on onions after dry down for bindweed and nutsedge
  - Through cooperative effort support IR-4 registration of Cannonball (fludioxanil) in furrow on onions and garlic for white rot

# ACCOMPLISHMENTS

- In third year of long term research program with Dr. Colin Eady at New Zealand Institute for Plant and Crop Research in New Zealand to develop white rot resistant garlic and onion plants (\$25K per year invested)
- Have worked with NV Onion and Garlic Council to fund projects of joint interest
- Working with Allium Research Committee to find answers to managing Iris Yellow Spot Virus. Funding Dr. Hanu Pappu, Virulogist at WA State Univ.
- Participate in CA Specialty Crop Tour for EPA, USDA, CA DPR and other state and federal agencies
- Presented white rot data at the National Allium Conference in Savannah, GA (Tom Turini)
- Board member and CEO trips to WA DC to promote research funding for garlic and onion projects







EXIT

California's Finest  
**HARRIS RANCH**  
PREMIUM GARLIC

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## California Garlic & Onion Research Advisory Board

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## About



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**QUESTIONS???**

**THANKS FOR YOUR TIME**