# 2015 JOINT AUBURN UNIVERSITY NURSERY COOPERATIVE & FOREST HEALTH COOPERATIVE MEETING





#### **Forest Health Dynamics Laboratory**

Dr. Lori Eckhardt
Co-director

Dr. Scott Enebak
Co-director

# Sudden Oak Death State Laboratory for Alabama & Mississippi

Dr. Lori Eckhardt - Co-director Dr. Scott Enebak - Co-director

#### **Mission Statement**

To provide for watershed sampling and laboratory detection of Sudden Oak Death causing pathogen in waterways outside of nurseries which have had infected nursery stock in Alabama and Mississippi

#### Staff

Dr. Ryan Nadel 1 open position

#### **Forest Health Cooperative**

Dr. Lori Eckhardt - Director

#### **Mission Statement**

To address important, current and pertinent forest health issues (disease, insect, invasive species) in a way that addresses real world management problems in the southern United States

#### Staff

Dr. Nancy Loewenstein
Dr. Ryan Nadel
1 open position

## Southern Forest Nursery Management Cooperative

Dr. Scott Enebak - Director

#### **Mission Statement**

To develop and disseminate available cultural, biological and chemical technologies using an integrated system for the economical production and utilization of forest tree seedlings in the southern United States

#### **Staff**

Dr. Tom Starkey Nina Payne Barry Brooks

# Sudden Oak Death State Laboratory Field Sampling — Stream Baiting









# Membership – Forest Health Cooperative

#### Industry

- Weyerhaeuser
- Plum Creek
- Hancock Forest Management
- Rayonier
- Westervelt Company
- Arborgen
- Scotch Lumber Company
- Delaney Development
- Molpus Timber Management
- F&W Forestry Services
- Burgin Land, LLC
- Forestry & Land Resource Consultants
- Alabama Farmers Federation
- Beth Richardson

#### **Federal**

- USFS National Forest System
- USFS Southern Research Station

#### State

□ Alabama Forestry Commission

## Main Research Thrusts

- Pine decline associated fungi and root-feeding bark beetles
- Physiological changes induced by pine decline associated fungi in loblolly pine
- Family resistance to pine decline associated fungi
- Sirex distribution in Alabama
- Effects of cogongrass invasion in pine stands

# Pathogenicity & Virulence









### Fungi

- L. procerum
- L. terebrantis
- G. alacris
- G. huntii

10 new undescribed species of Leptographium. Grosmannia and Ophiostoma

# Pinus taeda Family Resistance









Cogongrass: Does it affect pine health, root-feeding bark beetle populations and pine decline susceptibility?

## Cogongrass



## Non-Cogongrass

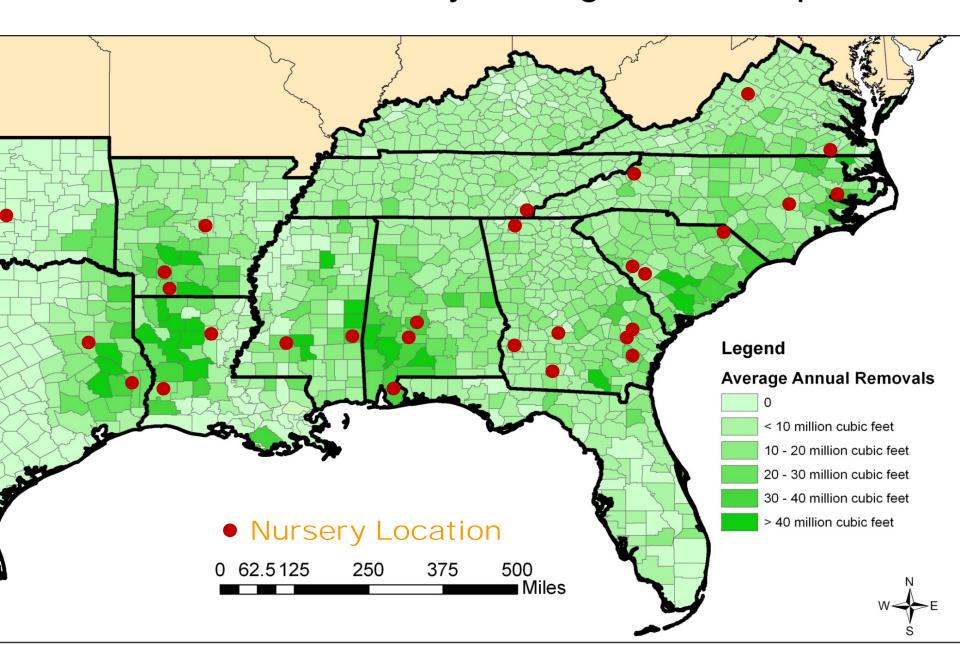




# Membership – Nursery Cooperative

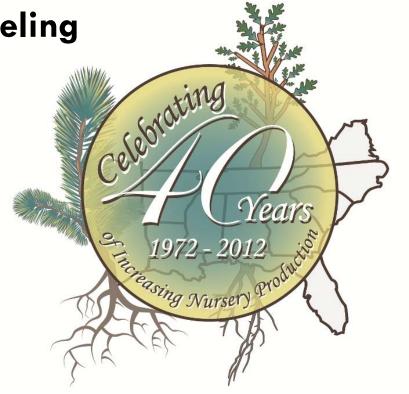
<u>States</u>	<u>Industry</u>	<u>Private</u>
Arkansas Georgia North Carolina Oklahoma South Carolina Tennessee	Plum Creek Rayonier Weyerhaeuser	International Forest Co Arborgen Native Forest Nursery Campbell Group Westervelt
Virginia		<u>Federal</u> US Forest Service

## Southern Forest Nursery Management Cooperative



## Main Research Focus Areas

- Herbicide testing and labeling
- Seedling quality and survival
- Fungicide testing and labeling
- Soil fumigant testing



# Fungicide Testing and Labeling

The Nursery Cooperatives' research efforts lead to the identification of a new fungicide, prothioconazole (Proline) for the control of three important forest-nursery fungal diseases.

Fusiform Rust



Pitch Canker



Rhizoctonia Foliage Blight





