



MORE WOOD. LESS LAND.®



Hardwood Nursery Mgmt

A title card for "Hardwood Management" featuring a black background with scattered autumn leaves in various shades of orange, red, and brown. The text "Hardwood Management" is centered in a large, bold, white serif font.

Hardwood Management

Topics - Outline

- Introduction
- Field Prep
 - Pit
 - Fumigation
 - Mycorrhizal
 - Soil Testing
- Seed
 - Selection
 - Pre-plant Treatment
- Planting – Crop Care – Harvest
- Information Resources

Introduction

- Robert Cross
 - Manager GA SuperTree Nursery
 - Shellman, GA
- Started with IP 1972
 - Second Creek Nursery 1976
- Experience – 32 years
- Produced 40 Million Hardwoods
- Eighty Species
- David South & Herb.



GA SuperTree Team



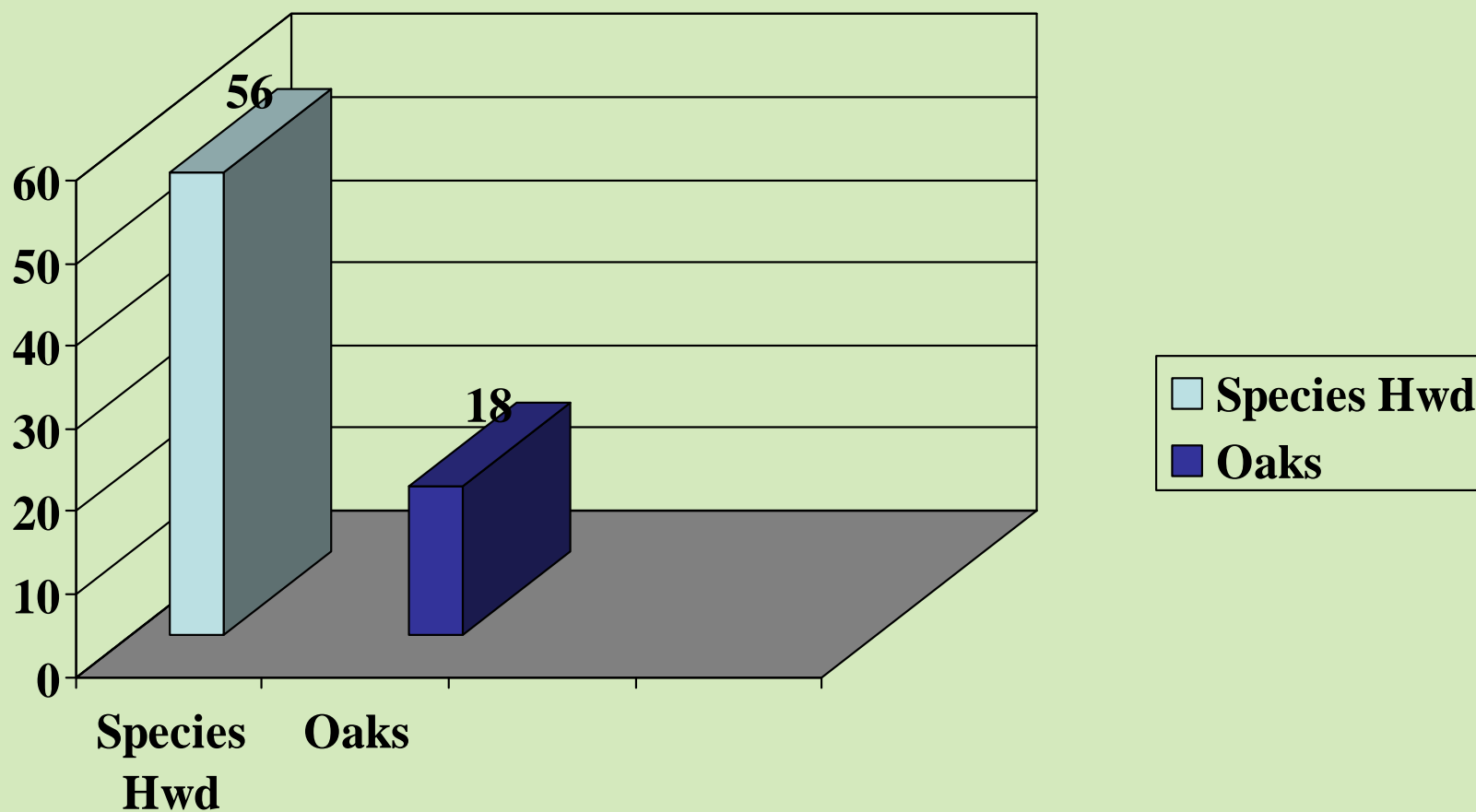


Introduction

GA SuperTree Nursery

- Built 1996 – Randolph County, GA
- Produce 2.5 Million Hwds
- Produce 55 Million Pines
- Produced 56 Different Species Hwd
- Eighteen Species of Oaks
- Customers in five states
- Wetlands Mitigation - Restoration
- Wildlife Plantings
- Forestry

Georgia SuperTree Nursery 2008 – 2009 Season



Field Prep

- Field Pit
- Fumigation
- Mycorrhizal
 - Endo
- Soil Testing

Field Prep

- Field Pit



Site Prep Soil Compaction



Gotcha !

Field Prep

- Fumigation



Strip Fumigation





Fumigation 1st Solid Tarp Applicator



Yea, That
makes it go
forward !



Fumigation 1st Solid Tarp Applicator



Did you see that ??



Fumigation 1st Solid Tarp Applicator

Are there
buffers
required with
this rig?





Fall Fumigation MC-2 400 lbs/ac



Field Prep

- Mycorrhizal
 - Endo



Sweetgum Planting



Sweetgum
1977 – LA
Forestry
Commission
Columbia, LA



MYC Sweetgum

Treated w/ Endo MYC.





Sweetgum With & Without Myc





Myc Trials





MYC – 10" Clay Pots





Strip Fumigation



Myc Application





Cover Crop Sudex – 100 lbs/AC





Fall Cover Crop Sudex 60 lbs/ac





Ed Cordell Myc Applicator

It worked fine
yesterday ☹





Ed Cordell Myc Applicator





Mary Lou & Sweetgum 4' – First Year





Sweetgum 1 Year Old





Hardwoods With Myc



Mycorrhizal Summary

- Fumigate – 400 Lbs MC-2
- Use Sudex or Sorghum – 100 lbs/ac
- Cover crop is a good indicator
- Very prolific with a suitable host
- Does not have to be incorporated every year
- Some benefits can be offset using DAP

Field Prep

- Soil Testing
 - Taken in the Fall
 - A&L Labs
 - Dr. Chuck Davey
 - The Southern Forest Nursery
Soil Testing Program



Field Prep - Amendments

- Cotton Gin Trash
- Pearl Millet
- Sudex

Hardwood Seed

- Selection

- Customer Needs
- Planting Zones
- Seed Vendors
- Substitutions
- Personal Knowledge
- Seed Size – Oaks
- Storage – Handling
- Planting Equip.
- Planting Density
- Production by Species



Hardwood Seed

- Preplant Treatment

- Handbook 470
- Networking
- Fall Planting
- Stratification
 - In-House
 - Outside
- Seed Sizing
 - Floating Acorns
- Germination %





No Seed Greenash from Cuttings



1 Yr Seedling
2 Yr old Stump Sprout
10 Sec dip in IBA
400,000



Hardwood Production

- Planting
- Crop Care
- Harvesting



Hardwood Planting



Hardwood Planting



Hardwood Planting



5 – Row Oyjord Planter



BARK on BEDS



Oats 1 Bu/Ac





Fall Planted w/Oats





Oak Seedlings at 2 Months



Weed Control





Weed Control – David South





Weed Control - Hardi





Weed Control – Egedal



TOP PRUNING



Top Pruning Shumard



Nuttall Oak



Sawtooth Oak



Nine Month Willow Oak





“Get Hooked on Fishing”

1st Saturday June





LATERAL PRUNER & UNDERCUTTER





LATERAL PRUNER





LATERAL PRUNER





UNDERCUTTER





UNDERCUTTER



Sawtooth Undercut 8"





INVENTORY

Jim are
you in
there?



Inventory vs Snakes





Red Oaks Ready to Harvest



Mann Lifter



FOBRO Lifter



Hardwood Lifting Crew





Harvesting Hardwoods In bags





Haul-In Wagon



Gelling Roots



Strapping Hardwoods





Strapping Hardwoods



Hardwood Storage



Hardwood Production

- Information Resources
 - Handbook 470
 - Google
 - Networking – BMP's
 - Auburn Coop
 - Newsletters
 - Publications
 - Internet Site
 - Dr. Chuck Davey
 - Forest Nursery Notes
 - Tree Planter's Notes
 - recross@arborgen.com

“Make My Day”



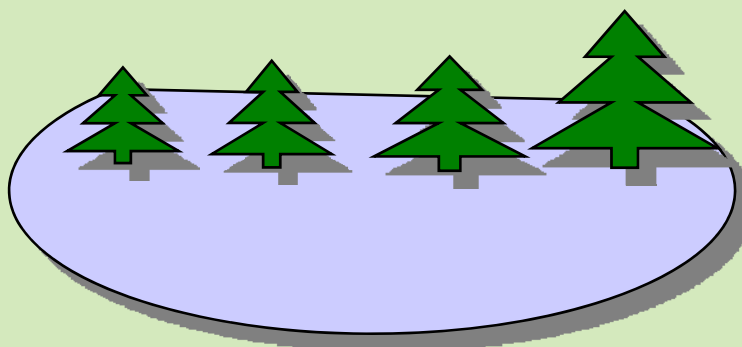
“Raving Fans”

Roundabout Swamp

- Acres – Approx. 1,240
- Seedlings
 - Bald Cypress - 534,400
 - Pond Cypress - 50,000
 - Container LL - 58,000

=====

642,400





“Raving Fans”





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