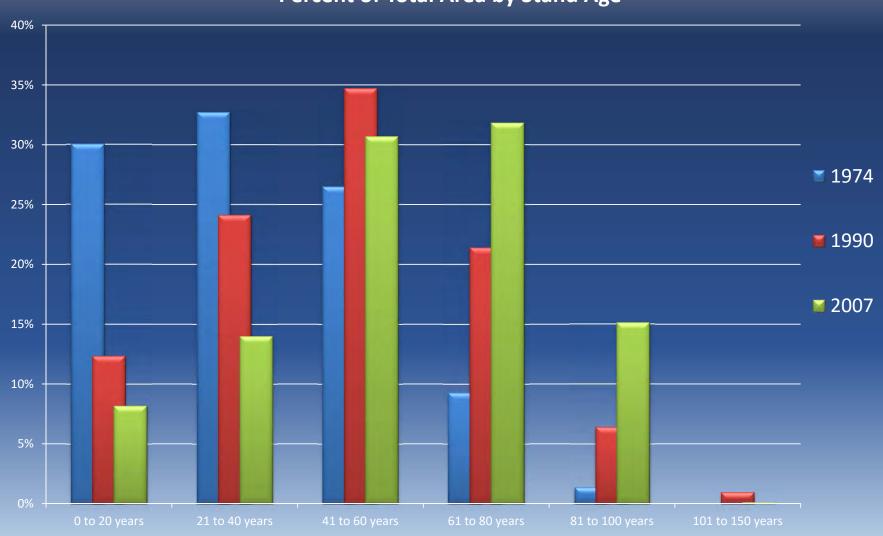


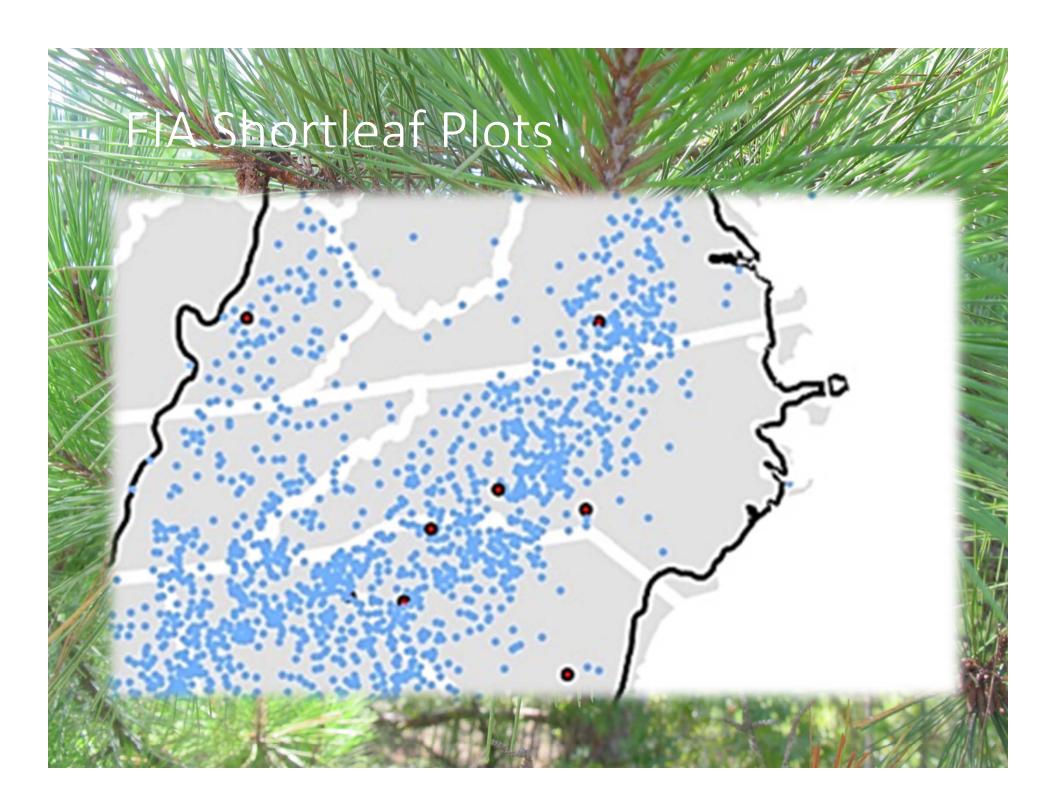
### Shortleaf is losing ground ... & numbers



## 75% is > 40 years old

#### **Percent of Total Area by Stand Age**





#### Successes - Outreach

Sponsored 4 Shortleaf focused workshops

NCSAF Meeting June 2005

NCSU Forestry Outreach Teleconference January 2006

Shortleaf Pine Restoration Conference Sept. 2010

Shortleaf 101 Workshop

Shortleaf in the Appalachians

May 2015

July 2015

- 7 presentations from 2011 2015
  - Consulting Forester, Landowners, Forestry Guild, NCFS Foresters, Fire Council



### Successes – Tree Improvement

- Established a New 2<sup>nd</sup>
   Generation Shortleaf
   Orchard
  - Scion material from Tennessee and USFS
- Re-measured progeny tests established 25 – 30 years ago
  - Best Growers were the best on all sites
  - Survival, height = no differences in Piedmont or Mountain

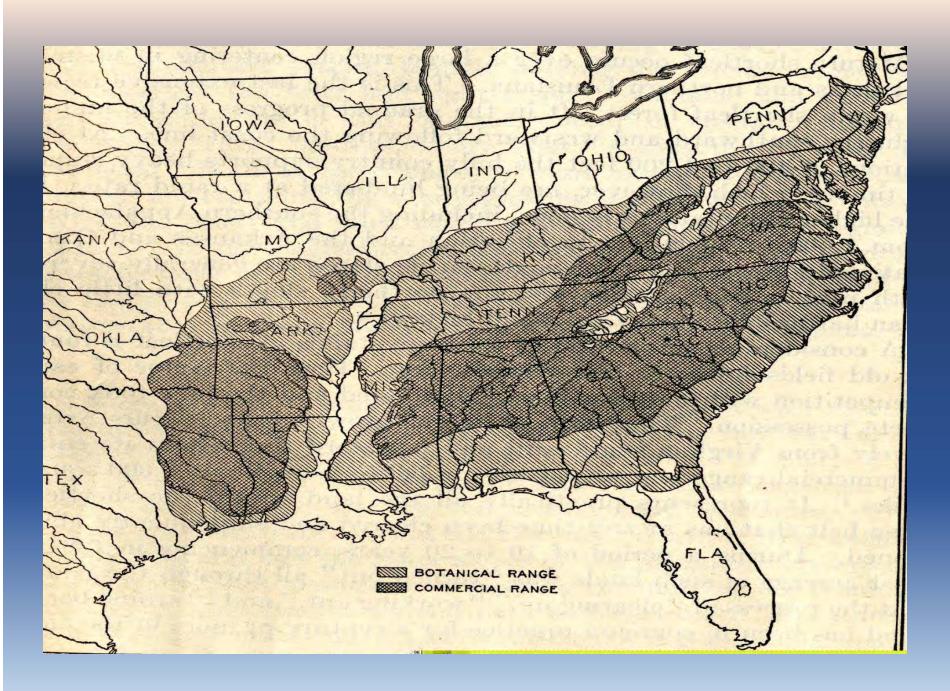


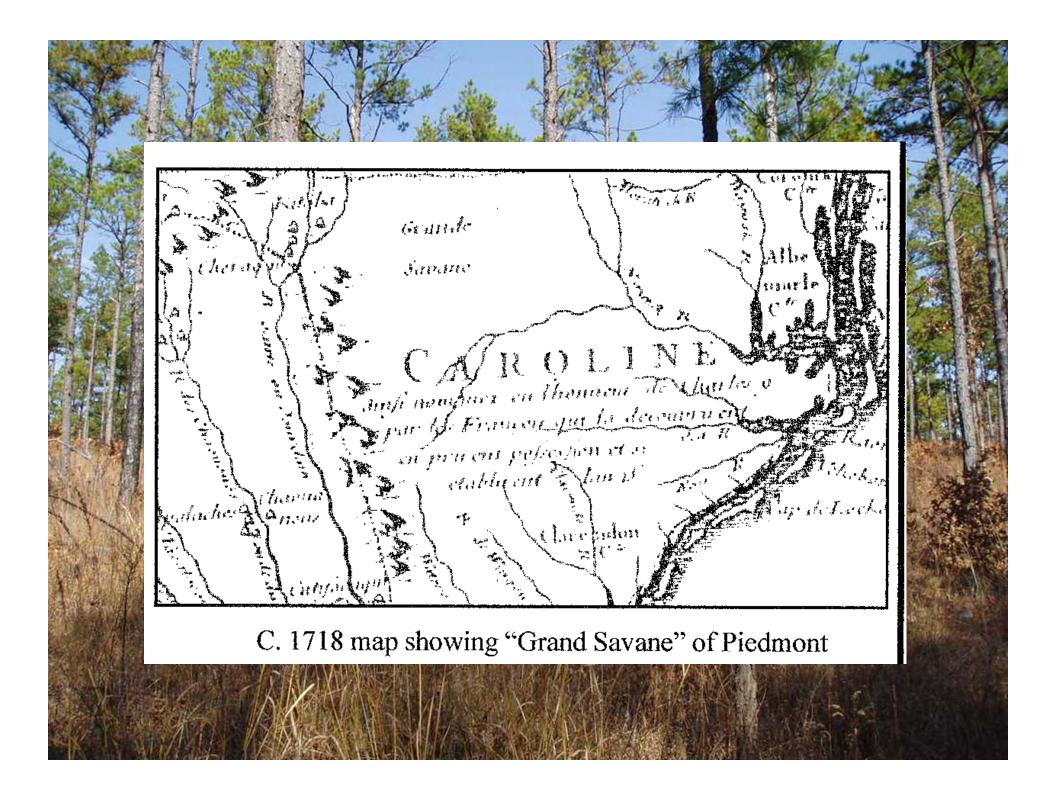












#### Naturally occurred .....

- Dry Oak—Hickory Forest
- Dry-Mesic Oak—Hickory Forest,
- Dry Basic Oak—Hickory Forest
- Dry-Mesic Basic Oak—Hickory Forest,
- Piedmont Monadnock Forest
- Xeric Hardpan Forest (all subtypes),
- Dry Piedmont Longleaf Pine Forest



What do we want our Shortleaf Forests to Look Like?











# Lessons Learned There is a lot of:

- > Competition
  - Growing space
  - Funds
  - Interest
- **≻**Interest

# Lessons Learned There is a lot of:

- Gaps in Knowledge and Experience
- ► Gaps in Research
- > Real and perceived bias
  - SPB Risk
  - Littleleaf Disease Risk
  - Growth
  - Site Suitability

#### Lessons Learned

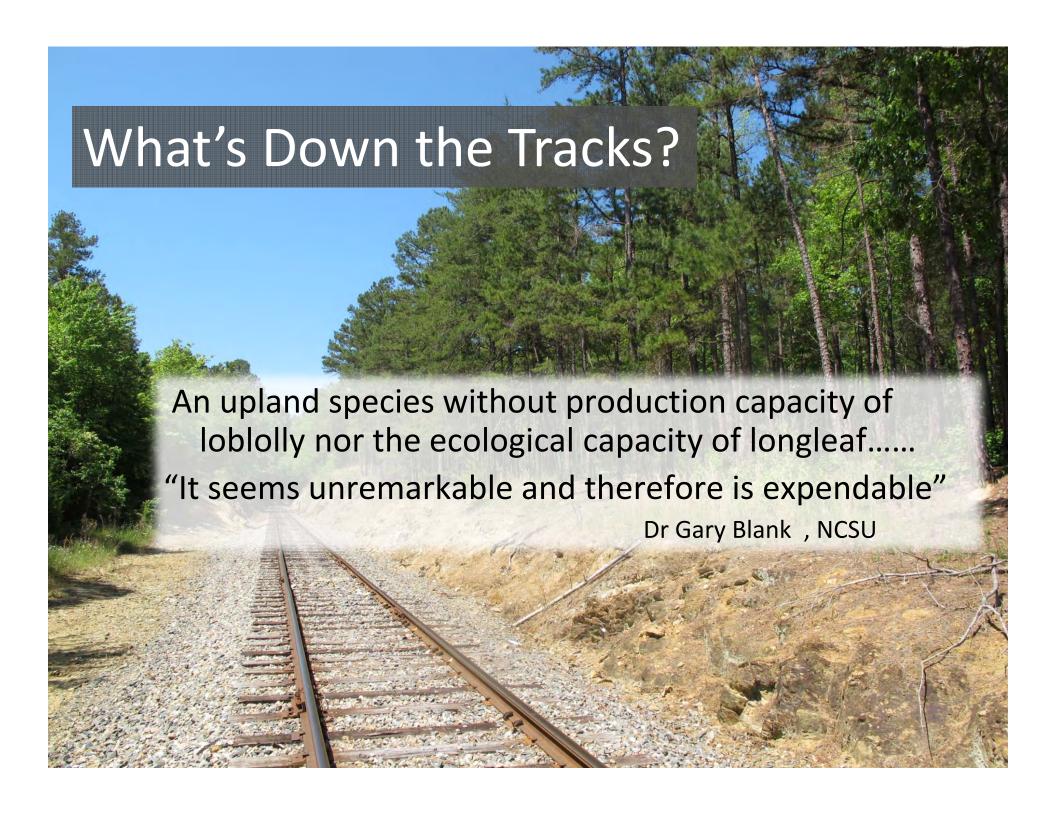
**Smoke Management Concerns** 

Shortleaf takes time to establish

Natural regeneration has not been dependable

SL is not fire proof

A lot of Shortleaf does not sprout after top-kill



### "Shortleaf is the New Longleaf"

- Include Private Landowners
- Make an Economic argument to Complement an Ecological one
- Be "Honest Brokers" of Information
  - SL is an option
- Find a Hook
  - Cultural, ecological, history
- Educate and Demonstrate
- Be Patient

