

Outreach Efforts: Educating Foresters and Influencing Change on the Ground

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PINEMAP is one of three Coordinated Agricultural projects funded by the USDA National Institute of Food and Agriculture



Accomplishing Project Objectives Through Forester Education

PINEMAP's ultimate goals are to influence changes on the ground (direct forest management) that will **increase carbon sequestration, reduce fertilizer use and ensure more resilient forests**. Educating foresters who directly manage land or provide guidance to forest landowners is key towards achieving PINEMAP goals.

PINEMAP Aim 6 team has co-hosted and developed a series of workshops throughout the southern region, featuring PINEMAP themes and research and included PINEMAP researchers as presenters.

Response to the workshops was very good, with 70% + of respondents indicated knowledge gain and would be making management changes or adaptations as a result of the training.

PINEMAP trained foresters own or managing millions of acres. Most and indicated they would be implementing many adaptations from the workshop on significant portions of their land. Additional workshops are planned for the remainder of the grant.

PINEMAP Workshops

- 1 Western Gulf Silvicultural Technology Exchange
- 2 Texas Forest Service Training
- 3 North Carolina State University Tree Improvement Cooperative Meeting

General Workshop Objectives

- Highlight new science and technology developments for pine plantation growers and managers
- Equip growers and managers with knowledge regarding how to reduce risks and increase profits under uncertain future scenarios

PINEMAP Extension Audience



Foresters & resource professionals are "gatekeepers" for sharing forestry knowledge and practices and are a key outreach audience for PINEMAP.

Western Gulf Silvicultural Technology Exchange

- 93 foresters
- Half reported knowledge gain in all subjects
- 50% + plan to adopt (or have adopted) one or many new forest management practices

- Attendees manage 6 million acres



Texas Forest Service Training

- 37 Texas Forest Service foresters
- In-Service Training
- 28,000 acres represented per attendee
- 1 + million acres potentially influenced
- Attendees work with smaller landowners (and extension agents)
- Knowledge and management change multiplier

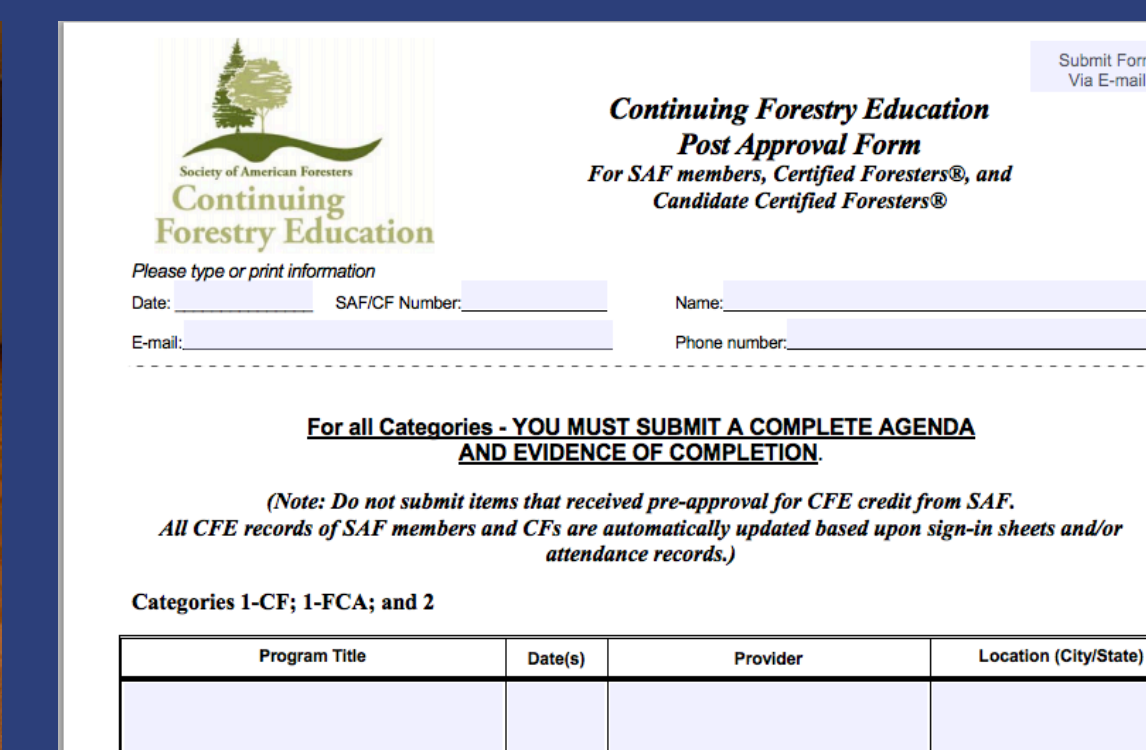


All Workshops

- Qualify for Continuing Forestry Education Credits
- Include PINEMAP Researchers among speakers
- Include Evaluations
- Well-received

Thanks to PINEMAP researchers
 Tim Martin, Steve McNulty, Jason Vogel, Gary Peters, Damian Adams, Rod Will, Fred Raley, Tom Byram, John Nielsen-Gammon and NCSU TIP staff for speaking!

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North Carolina Tree Improvement Cooperative Workshop Session

- 60 attendees work for primarily forest industries
- Respondents (20%) collectively **directly manage ~2.5 million acres**, and indirectly manage
- Influence 18+million acres (84% were pine plantations)

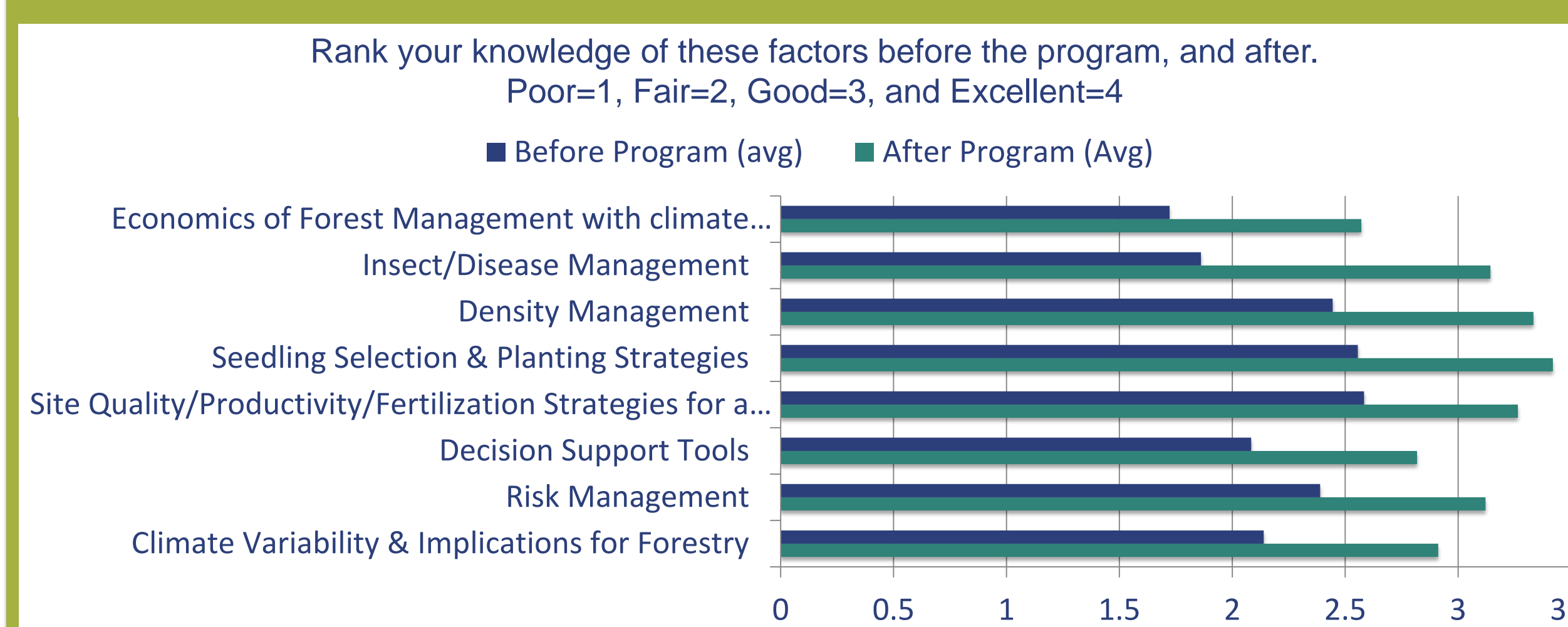


Knowledge Gain Responses from Workshop Attendees	Fair =1	Very Good=3
	Good =2	Excellent=4
Your Understanding of.....	Before Program	After Program
Climate as an Additional Risk to Consider	2.2	3.3
Performance Rating System	2.8	3.3
Loblolly DSS (Genetic Suitability)	2.4	3.3
Cold Hardiness Information	2.7	3.4
Evaluating Seedling Deployment for Future Climate (Temperature and Precipitation)	2.1	3.3
Methods for Determining the Genetic Basis of Growth, Drought Tolerance, and other Adaptation Traits	2.0	2.6

Do you plan to...	Definitely Will NOT	Probably Will NOT	Probably Will	Definitely Will	Already Adopted
	Deploy Best Genetics				★
Select Family with Best Performance rating				★	
Explore Top Families				★	
Revisit Seedling Deployment Guidelines				★	
Request a COOP Staff Visit				★	

Growing Pines in Changing Times

- About 70 foresters
- 93% of respondents agreed that they would alter their management practices based on something they learned at the workshop
- Possibility of ~6.5 million acres may be affected by management changes



Organized by Leslie Boby, Bill Hubbard, Dave Dickens, Dave Moorhead, Phil Dougherty, Buford Sanders, Wayne Bell

