

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Longleaf Pine Establishment and Management

Instructors: Dr. David Dickens & Dr. Dave Moorhead  
Bulloch County Ag Center – Conference Room  
151 Langston Chapel Rd, Statesboro, GA  
November 5-6, 2013



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### Purpose

Approximately 210,000 acres of former cropland, pastureland and hayfields have been planted to longleaf pine in Georgia since 1999. A number of cut-over tracts have also been planted to longleaf pine in recent years in Georgia and the southeastern US. There have been challenges with longleaf pine establishment, especially on old-field sites. This workshop will address the various aspects of establishing longleaf pine from site preparation, seedling quality, the planting phase (timing, planting depth, interval between imazapyr and planting), post-plant herbaceous weed control. The workshop will also address longleaf management with the use of prescribe burning and fertilization. We will also address estimated longleaf pine growth rates on old-field sites through the early 20's years, pine straw yields as well as longleaf pine growth rates and pine straw yields on poorer sites, and economics of growing longleaf pine. The goal of this course is to provide information necessary to effectively establish and manage longleaf pine stands with an emphasis on seedling survival and reasonable stand growth.

### Participants will:

- Learn about longleaf pine establishment factors and ways to maximize survival and early growth.
- Review cut-over and old-field longleaf pine wood and pine straw studies.
- Learn how the effects of various herbicides and timing effect longleaf pine survival and early growth.
- Learn about prescribe burning and the effects on survival and growth.
- Learn about the effects of fertilization on wood growth and pine straw yields on cut-over and old-field sites.
- Discuss the economics of growing longleaf pine on old-field and low fertility cut-over sites.

### How One Will Benefit

Upon completion of this course, a forest landowner or land manager will be able to make effective silvicultural and economical management decisions on managing longleaf stands

### Who Should Attend?

Foresters, land managers, forest landowners, and others interested in effectively managing their longleaf pine stands with an emphasis on early survival and growth .

### Instructors

Dr. David Dickens – Professor of Forest Productivity UGA-WSF&NR  
Dr. Dave Moorhead – Professor of Silviculture UGA-WSF&NR

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### Registration Fee

The fee for this course is \$210, which includes lunch, refreshment breaks, and instructional materials. There is a \$25 discount for fees paid and postmarked by October 15, 2013.

### Continuing Education Credits

- 12 Continuing Forestry Education (CFE) hours- Category 1 (approved)
- 12 Continuing Logger Education hours - Environment (approved)
- Pesticide Applicator Credits: Georgia 4 hrs Cat 21; 4 hrs Cat 23 Commercial; 2 hrs Cat 10 Private (approved)

*Full Attendance is Mandatory to Receive Credit*

Tuesday, November 5, 2013

Time	Event
8:30am	Registration
8:50	Welcome—Dickens
9:00	The Establishment phase—preparing the site—Dickens
10:00	Longleaf genetics and seedlings; size, quality, bareroot vs containerized, handling—Moorhead
11:00	Planting phase; timing, planting depth, interval between imazapyr and planting—Moorhead
Noon	Lunch
1:00pm	Post-plant herbaceous weed control—products, timing, dosages—Dickens
1:45	Prescribe burning; timing, frequency, effects on survival and growth—Moorhead
2:30	Break
2:45	Fertilization of longleaf pine; using diagnostic tools and growth responses on old-field and cut-over sites
3:30	Longleaf pine growth rate estimates through age 21-yrs on two old-field sites—Dickens
4:15	Pine straw production rates for longleaf pine on low fertility deep sand cut-over sites and higher fertility old-field sites—Dickens
5:15pm	Adjourn

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Wednesday, November 6, 2013

Time	Event
8:15 a.m.	Economics of growing longleaf pine—Dickens
9:00	Management implications for longleaf pine on old-field sites—Moorhead
10:15	Depart to longleaf study areas—Oliver GA
10:40	Discussion in a thinned old-field longleaf stand (planted in December 1986) where pine straw production was a management objective prior to thinning and a longleaf seed source study.
	Old-field longleaf pine stand discussion points: pine straw management, stand management pre- and post-thin, prescribe fire use, planting spacing, thinning, % defect, longleaf growth rate through age 21-yrs, growing poles, herbicide use, fertilization, and economics.
	Longleaf seed source study discussion points—seed source survival and eventual % out of the grass stage, growth and stem quality differences over time.
1:40pm	Adjourn

### Directions

For directions we suggest using [googlemaps.com](http://googlemaps.com). You may also contact David Dickens 912-690-1678 or e-mail him at [ddickens@uga.edu](mailto:ddickens@uga.edu).

### Special Needs

For special services or dietary considerations contact David Dickens at 912-690-1678 or e-mail him at [ddickens@uga.edu](mailto:ddickens@uga.edu) prior to October 15, 2013.

### Hotels in the Area Include:

Baymont Hotel (912-489-7368)  
Holiday Inn (912-489-4545)  
Hampton Inn (912-681-7700)  
LaQuita Inn (912-871-2525)  
Quality Inn (912-489-3995)

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Register online at

<http://conted.warnell.uga.edu/courses/longleaf>

### Registration by Regular Mail

\_\_\_\_\_  
Name - please print

\_\_\_\_\_  
Preferred name for badge

Business mailing address or  Home address (please check one)

\_\_\_\_\_  
City State Zip County, if Georgia

\_\_\_\_\_  
Home phone Work phone Fax

\_\_\_\_\_  
Email address  Please send me e-mails about other Warnell Continuing Education programs.

\_\_\_\_\_  
Position Organization/employer

*By registering for this event I agree to comply with all event and lodging cancellation policies.*

### **Longleaf Pine Establishment and Management**

November 5-6, 2013

Early registration through October 15, 2013: .....\$185.00

Regular registration:.....\$210.00

Enclosed is a check #\_\_\_\_ (payable to Warnell School of Forestry and Natural Resources). Fee must be received to process payment.

**Cancellations:** Notify Ingvar Elle at 706-583-0566 (ingvar@uga.edu) by 5:00 p.m. Oct 22, 2013 to receive a refund.

Mail payment to: Attn:

Ingvar Elle  
Warnell School of Forestry & Natural Resources  
University of Georgia  
180 East Green Street  
Athens, Georgia 30602