

The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

Pine Straw Production: Stand Management, and Economics

May 5-6, 2009

Instructors: Dr. David Dickens & Dr. Dave Moorhead
Tifton Campus Conference Center, Tifton, GA



WARNELL
SCHOOL OF FORESTRY AND NATURAL RESOURCES
THE UNIVERSITY OF GEORGIA

Purpose

This course will provide information that will help you to effectively manage pine stands for pine straw production. Revenues for pine straw paid to forest landowners in Georgia have increased from an estimated \$15.5 million in 1999 to more than \$25 million in 2003. During the same period, stumpage revenues in Georgia declined by 27%. Many forest landowners and land managers are interested in managing their loblolly, longleaf, or slash pine for pine straw

Objectives

Participants will:

- Learn about pine straw yields by species, site quality, land-use history, and basal area.
- Review cut-over and old-field pine straw studies, as well as other factors that affect pine straw yields.
- Learn how the effect of pine straw raking (semiannual, annual, periodic) relates to soil moisture status, nutrient cycling, and stand growth.
- Learn the effect of fertilization on pine straw yields on cut-over and old-field sites.
- Learn how to use diagnostic tools and soils information to determine fertilizer needs, herbicide use, and recommendations.
- Learn how to control invasive exotic species.
- Learn management alternatives to moving a cut-over pine stand into pine straw production, hear about sequencing fertilizer and herbicide use, and discuss the economics of pine straw in overall pine stand management.

Who Should Attend?

Foresters, landowners, land managers, pine straw contractors, and others who are interested in making effective silvicultural and economic management decisions for loblolly, longleaf, or slash pine stands for pine straw.

Instructors

David Dickens is an associate professor of forest productivity with the University of Georgia Warnell School of Forestry and Natural Resources. David develops, coordinates, and implements educational materials and programs for County Extension agents, private nonindustrial forest landowners, and natural resource professionals.

Dave Moorhead is a professor of silviculture with the University of Georgia Warnell School of Forestry and Natural Resources. His program areas focus on silviculture, vegetation management, invasive species and prescribed fire

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Course Itinerary

Tuesday, May 5, 2009

| Time | Event |
|------------|---|
| 8:00 a.m. | Registration |
| 8:30 | Introduction :Pine straw revenues vs. stumpage revenues in Georgia, Factors affecting pine straw yields |
| 9:30 | Cut-over and Old-field pine straw studies (Loblolly, longleaf, and slash pine) |
| 10:00 | Refreshment Break |
| 10:30 | Raking regimes (semi-annual, annual, periodic) and pine straw production, stand growth, and soil moisture |
| 11:20 | Magnitude and duration of fertilization responses Case Studies: Fertilization payoffs; Weed re-growth with fertilization |
| 12:00 p.m. | Lunch |
| 1:00 | Magnitude and duration of competition control benefits |
| 1:30 | Using diagnostic tools (Leaf Area Index Estimations, Soil, and Foliar Sampling), soils, and yield information to make effective recommendations |
| 2:15 | Refreshment Break |
| 2:30 | Nutrient cycling and forest floor nutrient release rates |
| 3:00 | Herbicides and herbicide use |
| 3:30 | Identification and control of invasive exotic species |
| 4:15 | Forest management alternatives for moving a cut-over pine stand into pine straw production |
| 5:00 | Adjourn |
| 5:15 | Professional Ethics in Forestry (optional) |

Wednesday May 6, 2009

| Time | Event |
|-----------|---|
| 8:00 a.m. | Sequencing fertilization and herbicide use to reduce over-all costs |
| 8:30 | Economics of pine straw at various returns per acre in Overall Pine Stand Management |
| 9:20 | Case study reviews – old-field and cut-over sites |
| 10:00 | Refreshment Break |
| 10:15 | Visit old old-field longleaf pine stands managed for pine straw production Lunch provided |
| 2:30 p.m. | Adjourn |

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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 April 27, 2009.

Continuing Education Credits

- 11 Continuing Forestry Education (CFE) Hours—Category 1
- 11 Continuing Logger Education (CLE) Hours -Environment
- Pesticide Applicator Certification applied for GA, SC, FL, AL

Full Attendance is Mandatory to Receive Credit.

Register on-line at

<http://www.ugatiftonconference.org/>

Registration by Mail

| | | | |
|---|---|--------------------------------------|--------------------|
| _____ | | | |
| Name - please print | | | |
| _____ | | | |
| Preferred name for badge | | Birth-date (for credit hour records) | |
| _____ | | | |
| <input type="checkbox"/> Business mailing address or <input type="checkbox"/> Home address (please check one) | | | |
| _____ | | | |
| City | State | Zip | County, if Georgia |
| _____ | | | |
| Home phone | | Work phone | Fax |
| _____ | | | |
| Email address | <input type="checkbox"/> Please send me e-mail about Warnell Continuing Education programs. | | |
| _____ | | | |
| position | | organization/employer | |
| By registering for this event I agree to comply with all event and lodging cancellation policies. | | | |
| Straw Production | | | |
| May 5- 6, 2009 | | | |
| Early registration by April 27, 2009: | | \$185.00 | |
| Regular registration: | | \$210.00 | |
| Professional Ethics (optional): | | \$20.00 | |
| Enclosed is check # payable to UGA-TCCC/Pine Straw | | | |
| Your registration will not be processed until payment is received. | | | |
| Cancellations: | | | |
| Notice must be received by 5:00 p.m. May 1, 2009 to receive a refund. | | | |

Mail payment to : Tifton Campus Conference Center
Attn: Pine Straw Production
P.O. Box 1209
Tifton, GA 31793

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Special Needs

For special services or dietary considerations, contact Dave Moorhead 229-386-3298 or e-mail him at moorhead@uga.edu prior to April 27, 2009.

Parking and Directions

The UGA Tifton Campus Conference Center is strategically located in the geographic center of South Georgia at the crossroads of I-75, U.S. 319, U.S. 82 Sunshine Parkway and U.S. 41, at the intersection of I-75 and Highway 41 North in Tifton, Georgia.

The UGA TCCC is only a one-hour drive from Albany, a two-hour drive from Macon or Tallahassee, and a three-hour drive from Atlanta, Athens, Savannah, Jacksonville and Montgomery.

From I-75, take Exit 64.

For map and directions go to:

<http://www.ugatiftonconference.org/location/index.html>

Lodging - Tifton

Please visit <http://www.ugatiftonconference.org/location/lodging.html> for hotels close to the I-75 area.