

# Upland Hardwood Silviculture Workshop

July 9-11, 2013

## Agenda

### Tuesday, July 9

8:00 - 8:20     **Registration**

8:20 - 8:30     **Welcome**

8:30 - 9:00     **Introduction**

*The purpose of Silviculture and Terminology*

**Speaker:** Tara Keyser, Research Forester, Bent Creek Experimental Forest

9:00 – 10:00    **Forest Site Classification, Environmental Gradients and Forest Composition**

*Henry McNab will discuss where different forest types occur on the landscape looking at classification techniques and forest compositions. There will be a short field exercise.*

**Speaker:** Henry McNab, Research Forester, Bent Creek Experimental Forest

10:00 – 10:15   **Break**

10:15 – 11:00   **Silvicultural Systems**

*Tara Keyser will review and discuss several silvicultural methods currently used in the management of upland hardwood forests.*

**Speaker:** Tara Keyser, Research Forester, Bent Creek Experimental Forest

11:00 – 12:00   **Regeneration Ecology**

*Tara Keyser will discuss the regeneration ecology of the predominant hardwood species in upland oak ecosystems.*

**Speaker:** Tara Keyser, Research Forester, Bent Creek Experimental Forest

12:00 – 1:00    **Lunch on your own**

*There are several restaurants and fast food establishments located within 2 miles of the training facility or bring a lunch and sit outside at the picnic table.*

1:00 – 4:30     **Field Trip to Bent Creek Experimental Forest**

Participants will travel in their personal vehicles to Bent Creek Experimental Forest (5 minute drive) to view research projects, silvicultural treatments and discuss regeneration problems.

The field trip will cover the following topics:

- Silviculture and regeneration strategies of oak and other upland hardwood species
- Acorn and native fruit production
- Participants will participate in a field exercise collecting data

5:00             **Adjourn**



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## Wednesday, July 10

- 8:00 – 9:15      **Markets and Economic Constraints**  
*Tammy Cushing will discuss markets in the Southeast and economic constraints to managing forests. Also discuss property, income, and estate taxation issues for forest landowners*  
**Speaker:** Dr. Tamara Cushing, Assistant Professor and Extension Forestry Specialist, Clemson University
- 9:30 – 11:30      **Artificial Regeneration**  
*Stacy Clark will discuss options and procedures for introducing oaks that are not currently present in stands. American chestnut restoration project will also be discussed.*  
**Speaker:** Stacy Clark, Research Forester, Southern Research Station
- 11:30-12:30      **Lunch on your own**  
*There are several restaurants and fast food establishments located within 2 miles of the training facility or bring a lunch and sit outside at the picnic table.*
- 12:30-2:00      **Low Quality Stands**  
*Jeff Stringer will discuss the management of stands which have been cut over, or high-graded, to the extent that they no longer meet management objectives. He will present real-life examples in which intermediate stand treatments and regeneration harvests were used to manage the depleted stand.*  
**Speaker:** Jeff Stringer, PhD, Research Silviculturist/Extension Specialist, University of Kentucky
- 2:30 – 4:30      **Low Quality Stands Field Exercise**
- 5:00                **Adjourn**

## Thursday, July 11

- 8:00-9:30      **REGEN Model**  
*Tara Keyser will use data collected in the field to model regeneration potential and likely response to disturbance in upland hardwood stands. Participants will need their laptops.*  
**Speaker:** Tara Keyser, Research Forester, Bent Creek Experimental Forest
- 9:45-10:45      **Drive to Green River Game Lands**
- 11:00-2:45      **Lecture and field tour with Dr. Tom Waldrop and Dr. Katie Greenberg**  
**Topics:**  
**Fire and Fire Surrogate Study: Regeneration Response of Oak and Other Hardwood Species to Fire and Other Fuel Reduction Treatments**  
*Tom Waldrop will discuss and show regeneration response of oak and other hardwood species after single and multiple burns in upland hardwood forest. Students will walk to burn sites.*  
**Speaker:** Tom Waldrop, Research Forester, Southern Research Station
- Lunch will be delivered in field**
- Effects of fire on wildlife populations**  
*Katie Greenberg will present results from wildlife research on the Fire and Fire Surrogate Study in the field.*  
**Speaker:** Katie Greenberg, Research Ecologist, Bent Creek Experimental Forest
- 2:45                **closing remarks**
- 3:00                **Adjourn from field**  
*Students may leave for home from Green River (off Highway 26) or return back to the training center.*



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