

NC STATE UNIVERSITY
College of Natural Resources
Forestry Educational Outreach Program
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www.ncsu.edu/feop

Weight Cruising February 5, 2003

Decision Analysis Tools for Procurement Foresters February 6, 2003



**Wilson County Agricultural Center
Wilson, NC**

Sponsored by
North Carolina State University
Department of Forestry
Forestry Educational Outreach Program
NC Cooperative Extension Forestry

About the Workshops

Weight Cruising - This workshop will provide attendees with the information and tools necessary to effectively incorporate weight calculations into their timber cruises. Emphasis will be placed on developing weight-based tools from existing volume tables and equations. Topics will include selecting appropriate tables for local areas and species, accounting for moisture, specific gravity, and seasonal variations in tree weight, and converting existing cruise data to a weight basis. The course will include extensive examples and applications.

Decision Analysis Tools for Procurement Foresters - This workshop will provide attendees with decision-making tools to assist them in the various aspects of procuring and managing purchased tracts. Emphasis will be placed on recognizing that the stand at harvest may be quite different from the stand at purchase, one or two growing seasons later. Simple growth and yield methods will be used to show how stands transition from a lower valued product to a higher valued one (such as pulpwood to chip-n-saw) and how timing the harvest can have significant financial impacts. The impact will be analyzed for both thinnings and final harvests with detailed examples.

The afternoon session will incorporate the harvest findings into procurement cruising. Attendees will be shown how to incorporate current and projected volumes into their inventory decisions. Emphasis will be placed on deciding which tracts to cruise, which methods to use, and what data to collect.

CFE Credits

Each workshop will offer 6.5 Category 1 CFE credits authorized by the Society of American Foresters.

Wednesday, February 5, 2003

Weight Cruising

8:00 a.m. Registration

8:30 a.m. Workshop Begins

TOPICS TO BE COVERED:

- Where weight fits into the inventory picture - Brief review of plot and point sampling
- Components of tree weight: Volume, Specific Gravity, Moisture Content, Seasonal Variation, Bark
- Conversions between weight and volume: Converting an existing volume table to a weight table, Converting an existing volume equation to a weight equation
- Merchantable stem weights: pine vs. hardwood, juvenile vs. mature wood, importance of taper and form class, weight change with change in top diameter, weight change with tree age, considering bark, considering quality
- Cruise Examples

4:00 p.m. Adjourn

About the Instructor

Steve Daniels is a forestry consultant in North Carolina. In addition to traditional forest management, Steve specializes in large inventories and mensuration projects, including growth and yield modeling, volume table construction, and photogrammetry. Steve has a B.S. and M.F. in forest management from NC State University, where he has taught mensuration since 1993.

Registration and Fees

The registration fee for the workshops includes course notebook, lunch, and refreshment breaks. Registration fees are:

Feb. 5-6 - Both Workshops: \$245

Feb. 5 - Weight Cruising: \$145

Feb. 6 - Decision Analysis Tools: \$145

Registration deadline is January 29th. *Cancellations made by January 29 will receive a refund less a \$20 service charge.*

Thursday, February 6, 2003

Decision Analysis Tools for Procurement Foresters

8:00 a.m. Registration

8:30 a.m. Workshop Begins

TOPICS TO BE COVERED:

Stand Growth and Harvest Timing

- Evaluating the stand and stock tables now
- Appraising the stand and stock table late in the cutting contract
- Economics, discount rates, and the pros and cons of timing
- Harvest method
- Changing merchantability specs, top diameters

Allocating Time Among Competing Tracts

- Picking the tracts to cruise - using time wisely
- When to sample, when to tally 100%
- Choosing the right method when sampling, weight or volume, prism or plots
- Sample size
- Faster plots and switching plots size/BAFs
- Cruising by dbh only
- Volume by basal area

4:00 p.m. Adjourn

Workshop Location and Lodging

The workshops will take place at the Wilson County Agricultural Center in Wilson, NC. A map to the Center will be included with your registration confirmation letter.

Lodging is not included in the registration fee. Some local hotels include: Comfort Inn (252) 291-6400, Best Western Inn (252) 237-8700, Hampton Inn (252) 291-2323, Holiday Inn (252) 246-1588.

Coming in April:

Accurate Forest Inventory

For more information about this and other upcoming workshops, visit the FEOP website at www.ncsu.edu/feop or contact Becky Bowers at 919-515-9563 (phone), 919-515-6883 (fax), or becky_bowers@ncsu.edu.

Registration Form

Registration Deadline is January 29th.

Registration Fee: (check one)

___ **Feb. 5 and 6 - Both Workshops: \$245**

___ Feb. 5 - Weight Cruising: \$145

___ Feb. 6 - Decision Analysis Tools: \$145

Name _____

Organization _____

Address _____

City _____ State _____ Zip _____

Daytime Phone _____

Fax _____

E-Mail _____

Vegetarian Meal Required? _____

Method of Payment

___ Check (*make payable to NC State University*)

___ Credit Card (*MasterCard or Visa ONLY*)

Card #: _____ - _____ - _____ - _____

Expiration Date: _____

Name of Cardholder: _____

Address of Cardholder: _____

I agree to allow NC State University to charge this credit card for the workshop registration.

Cardholder Signature: _____

Send payment to FEOP, NC State University, Campus Box 8003, Raleigh, NC 27695; or FAX: 919-515-6883

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