Forest Growth and Yield Models:
**Workshop Agenda**

### April 13, 2015

**1:00 PM**

**Understanding the types of forest growth and yield models with an emphasis on FVS, ORGANON and FPS.**
- Why are model classifications important? Understanding the ramifications from using the various models.
- Compare and contrast model parts and components, strengths and weaknesses.
- Data requirements for each model.
- Basic mechanics of the different models and associated ramifications for users.

**5:00 PM**

Adjourn

### April 14, 2015

**8:00 AM**

**Model Evaluation: Why are you using one particular model and does it give you the answers that you need? Where models succeed and where they are suspect.**
- How does one go about conducting an evaluation with data? What are the variables, time frames and scales for an evaluation?
- How does one evaluate models without data? Using biological patterns and biometric principles to see how your trees grow. Is your forest growing reasonably and will the model's predictions pass laugh tests?
- Techniques for comparing model predictions with data.
- An example will be provided to illustrate the types of comparisons.

**12:00 PM**

Lunch

**1:00 PM**

**How do I localize a model for my area? When is it necessary to do a calibration?**
- What is the difference between evaluation and calibration?
- You don't have to use the model right out of the box. How to adjust model parameters and the impact on diameter growth, height growth, mortality, and taper. Basic adjustments will be covered for FVS, FPS and ORGANON.

**2:30 PM**

**Working through the process: Selecting the best model for unfamiliar areas and little data.**
- Scenario 1: It is a project as a new acquisition or in an unfamiliar area, planting clone technology and non-native species.
- Scenario 2: It is a project with a new silvicultural technique and unfamiliar tools of geography, species, and carbon accounting.
- Scenario 3: It is a project with no long term data or comparables in an unfamiliar area.

**4:30 PM**

Adjourn
About the Instructors

Terry Droessler, PhD, CF
Terry has over 25 years of experience in quantitative natural resource analyses. His emphasis is in growth and yield model setup, projection of silvicultural scenarios, inventory design and processing, harvest scheduling, timberland appraisal and statistical analysis. Terry is president of Forest Analytics LLC in Monmouth, OR. Examples of past projects include:

- Net present value calculations of future harvest streams for multiple private and tribal entities in the PNW
- Independent analysis of growth, yield and harvesting scheduling for 600,000 acres private timberland in southern Oregon.
- Calibration of FPS growth and yield components for industry entity in California
- Tested and verified net present value calculations, silvicultural prescriptions and revenue flow over 640,000 acres for REIT formation.

Erin Smith-Mateja
Erin has over 15 years of experience in growth and yield modeling, specifically providing user support, training, and model development for the Forest Vegetation Simulator (FVS). She has collaborated on numerous projects with the US Forest Service and cooperators in the Pacific Northwest and throughout the country. Erin has a Masters in Forestry (Biometrics) from Michigan State University.

Dave Walters, PhD
David is the Director, Western Region Manager, and Biometrician for LandVest, an institutional timberlands group where he advises and assists institutional timberland owners in the acquisition, management and disposition of timberland properties in the western United States. He develops company consulting projects involving inventory, growth and yield, forestry research, harvest scheduling, and strategic planning and expands such projects into the western United States. Prior to joining LandVest, David was the Manager and Biometrician, Forest Planning Group with Roseburg Forest Products. He has a PhD in Forest Biometrics from the University of Minnesota.

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BEFORE April 6, 2015

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AFTER April 6, 2015

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Questions?

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or amanda@westernforestry.org

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