

An abstract graphic composed of numerous thin, light blue lines that curve and intersect to form a complex, organic shape resembling a stylized flower or a network of connections. The lines are most dense in the center and become sparser towards the edges, creating a sense of depth and movement.

OPTIMIZING DECISIONS IN A COMPLEX WORLD

REMSOFT

Modeling Fundamentals Workshop
2010

Training workshop on the Remsoft Spatial Planning System (RSPS)

Day 1 - Modeling with Remsoft technology – Learn how to build and run Remsoft models

Days 2 - Running Models – Learn how to use the RSPS to address different planning issues. Focus is on analysis, running models and generating results.

Modeling with Remsoft

The Modeling training session is an intensive two day course focused on learning how to build forest planning harvest scheduling models.

By the end of the course you will:

- have the skills necessary to effectively model your forest management planning problems;
- have a solid background in the concepts behind the Remsoft Modeling System so that you are confident that your models are doing what they are purported to do, and that you are capable of explaining your models to others and/or writing reports which may include a description of them.
- be familiar with the underlying assumptions and limitations of Remsoft technology.
- be familiar with and capable of effectively applying, the logic, structure and syntax of the modeling language to construct a working model.

DAY 1 – Building a Model

1. Introduction
2. Overview
 - 2.1. Hierarchical planning
 - 2.2. Software demonstration
3. Conceptual and computer models: Remsoft technology as a modeling framework
 - 3.1. Time
 - 3.2. Forest attributes
 - 3.3. Forest dynamics
 - 3.4. Outputs
 - 3.5. Model formulation
4. Anatomy of a model
5. Introduce modeling exercise

6. Creating new models
 - 6.1. Landscape
 - 6.2. Lifespan
 - 6.3. Areas
7. Modeling exercise - implement landscape, lifespan and areas
8. Yields section
9. Modeling exercise - implement yields
10. Actions & transitions sections
 - 10.1. Conceptual models of silviculture - regeneration harvest
 - 10.2. Modeling exercise - implement clear-cut action
11. Outputs section
 - 11.1. Modeling exercise - implement outputs
12. Optimize section
 - 12.1. Objective functions
 - 12.2. Constraint equation formats

DAY 2 – Running a Model

1. Review of fully functional model that represents the training modeling exercises.
 - 1.1. View and discuss outputs to calculate wood supply, financial, habitat, hydrological recovery and other indicators of interest
 - 1.2. Create reports and graphics for reporting on flows of wood supply, financial, habitat, hydrological recovery and other indicators of interest
2. Defining management strategies (refer to modeling exercise):
 - 2.1. Wood supply
 - 2.2. Financial
 - 2.3. Habitat
 - 2.4. Hydrological recovery
3. Preferred management strategy – develop a management strategy that balances the tradeoffs between wood supply, financial, habitat and hydrological recovery objectives.
4. Scenario management
5. Questions & Answers
6. Wrap-up