Using Plant Associations from FRIS Data to Support Ecosystem-Based Management

Richard Bigley and Lowell Dickson (RPAM)

Project Objectives
- Provide DNR managers with a common language to describe forest ecosystems.
- Provide a framework for organizing ecological information and management experience about ecosystems.
- Promote a better understanding of forest ecosystems and their interrelationships.
- Improve our ability to plan, prescribe, and monitor site-specific treatments.

Steps to creating statewide Plant Association layer: (Glenwood example)

1. Collect plant association data (DNR statewide FRIS project).

Plant Associations: What are they?
- Defined in the field using a plant association key guide.
- Consists of an overstory and understory component.
- Names abbreviated from the first two letters of genus and species.
- Thirteen different guides used for FRIS projects in Washington.

Statewide FRIS Plant Association Guide Use

Applications and Uses

Planning:
- Landscape planning templates require and ecological context. FRIS-derived plant associations will provide the best available data to landscape planners at multiple scales.

Science, Monitoring, and Research:
- Plant associations provide required data for site-specific growth and yield modeling and are one link that allows FRIS data to interface with the Forest Vegetation Simulator (FVS).
- Plans that are currently in development utilize statistical blocking of HCP monitoring sites by ecosystem type to allow more specific interpretations and conclusive analysis.

Local Land Management:
- Silvicultural uses, such as future planting, vegetation management and intermediate treatments can be anticipated, based on the specific vegetation and productivity of sites.
- As a compliment to existing hydrology data, Wetlands not on the National Wetlands Inventory are plainly visible below, based on plant association.

Plant Association Group, NWI Wetlands Locations and Soil Drainage Classes, Kitsap Peninsula

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