

RESEARCH REVIEW: Forest Systems of the Upper Midwest
January 10, 2002 - Cloquet Forestry Center
AGENDA

8:00 - 8:30 **Registration** - Auditorium Foyer, Lower Level Administration Building

8:30 - 8:40 **Welcome**

❖ Jim Sanders, USDA Forest Service, Superior National Forest

8:40 - 9:10 **Research Overview**

◆ North Central Research Station

❖ Dave Shriner

◆ College of Natural Resources

❖ Alan Ek

◆ Natural Resources Research Institute

❖ Jerry Niemi

9:10 - 10:30 **Research Review**

IMPACTS OF HARVESTING

◆ Ecological Considerations for Riparian Silviculture

❖ Brian Palik

◆ The Influence of Soil Compaction and Residual Forest Canopy on Tree Regeneration and Understory Plant Composition in Aspen Forests

❖ Alaina Berger

INSECTS AND DISEASE

◆ Current Research on Forest Insects in Northern MN: Silvicultural Management of Spruce Budworm in White Spruce, Insect Responses Following the Boundary Waters Blowdown, and the Larch Beetle Outbreak

❖ Steve Seybold

◆ Blister Rust and Restoration of White Pine in the Lake States

❖ Mike Ostry

10:30 - 11:00 **Poster Session / Break**

11:00 - 12:00 **Research Review**

FOREST WILDLIFE

◆ Goshawk: Home Range, Breeding, Habitat Use and American Woodcock Research on Population Decline

❖ Dave Anderson

◆ Forest Bird / Habitat Modeling and Trends

❖ Tim Jones

◆ Forest Fragmentation and Vernal Pool Habitats

❖ Cathy Johnson

12:00 - 1:00 **Lunch / View Poster Display**

1:00 - 2:30 **Research Review**

FOREST ECOLOGY: Issues of Scale

- ◆ Changes in Overstory and Understory Vegetation in Northeastern Minnesota Due to Fire and Logging
 - ❖ Peter Reich

- ◆ Quantifying and Predicting Sustainability of Forest Harvest with Indicators: The SUSTAIN Model
 - ❖ JoAnn Hanowski

- ◆ Landscape and Spatial Analysis for Forest Management
 - ❖ George Host

- ◆ Modeling Fire Risk at a Landscape Scale
 - ❖ Brian Sturtevant

2:30 - 3:30 **Poster Session / Break**

3:30 - 4:15 **Research Review**

SOCIO-ECONOMIC CONCERNS

- ◆ Natural Resources Economics and Policy Research: Findings From a Decade of Change and Implications for Minnesota
 - ❖ Mike Kilgore

- ◆ Hot Spots of Landscape Change in the NC Region
 - ❖ Rob Potts

4:15 - 4:30 **Closing Remarks**

- ❖ Jim Sanders

4:30 **Adjourn**

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POSTER SESSION

1. **An Overstory Retention Experiment in a Red Pine Ecosystem: Managing for Mixed-Species Regeneration and Biological Diversity**, Palik, et al.
2. **Climate Change Effects on Northern Forests**, Kurt Pregitzer
3. **Effect of Biosolids and Boiler Ash on Forest Soil Properties and Poplar Growth**, M. A. Cavaleri, et al.
4. **Effects of Blowdown and Fuel Reduction Activity on Forest Succession Pathways in Northern Minnesota**, Paula J. Anderson, et al.
5. **Effects of Forest Harvest Edge on Nesting Success of Songbirds in North Central Minnesota**, Jim Manolis, et al.
6. **Impacts Of Invading European Earthworms On Understory Plant Communities In Previously Worm-Free Hardwood Forests Of Minnesota**, Cindy Hale, et al.
7. **Impacts of the Spruce Budworm (*Choristoneura fumiferana*) on White Spruce (*Picea glauca*) Plantations in Northern Minnesota**, Darren C. Blackford, et al.
8. **Integrated Research Programs in the North Central Research Station**, Dave Shriner (contact)
9. **Mapping the Potential Distribution of Native Plant Communities Using Current and Historic Vegetation Data in the Northern Superior Uplands, Minnesota, USA**, Mark A. White and George Host
10. **Near-boreal Tree Species Susceptibility to Large Wind Disturbance**, Roy Rich, et al.
11. **Predicting Future Change: Linking Habitat Models to a Landscape Simulation Model**, Malcolm T. Jones, et al.
12. **Recent Forest Cover Type Transitions and Landscape Structural Changes in Northeast Minnesota**, Peter Wolter
13. **Responses of Sub-boreal Beetles to a Severe Windstorm Event and Silvicultural Practices in Northeastern Minnesota**, K. J. Gandhi, et al.
14. **Soil Frost and Snow Accumulation in Hybrid Poplar, Natural Forest, Switchgrass, and Agricultural Fields in Northwestern Minnesota**, Jeffrey Christoperson and Kenneth Brooks
15. **The Hydrologic Effects of Short-Rotation Woody Crop Production on Agricultural Land in Minnesota**, Brett Shank, et al.
16. **The Status of Timber Resources in the North Central United States**, Steve Schifley
17. **Using Strategic Models to Compare the Landscape Pattern Effects of Timber Management Alternatives**, Eric Gustafson and Larry Leefers
18. **Where Is It, and Does It Matter? Predicting In-stream Conditions from Land Use at Varying Distances from the Channel**, L. B. Johnson, et al.