

*Enhanced Forestry Program*

*Virtual Resource Centre*

*Supporting more informed*

*silviculture decisions*

<http://www.for.gov.bc.ca/hfd>

**Enhanced  
Forestry  
Program** 

help when you need it:

Following are other examples of the

Enhanced Forestry Program

products developed by MOF

and MELP under the

Headquarters Investment Plan.

For more information on these and the

other products available, visit the EFP

Virtual Resource Centre Website at

<http://www.for.gov.bc.ca/hfd/efp/index.htm>

or contact the sources following:



**BRITISH  
COLUMBIA**

**Ministry of Forests  
Forestry Division  
Services Branch**

**S**ilviculture decisions, growth and yield, partial cutting, backlog reforestation, stand tending, forest health, biodiversity, and adaptive management are some of the forest management areas fundamental to sustainable forest harvesting. With its new Website, the Enhanced Forestry Program Virtual Resource Centre brings the latest knowledge and training materials together in one place.

## need solutions today?

The Enhanced Forestry Program (EFP) Website has been developed by the Ministry of Forests (MOF) to support a key strategic objective of Forest Renewal BC: to ensure a sustainable harvest.

To this end, training, information, and tools available on the Website support more informed silviculture decisions. To help with your silviculture investment decisions, visit the EFP Website at

<http://www.for.gov.bc.ca/hfd/efp/index.htm>

This Website contains the latest training materials and information. Check the site regularly—new material will be added as it becomes available.



## solutions for operational problems

Together, the EFP and MOF are helping improve forest practices in eight key management areas:

### SILVICULTURE DECISIONS

In order to strategically focus silviculture investments to address future timber supply objectives, the Ministry of Forests developed an interim *Incremental Silviculture Strategy for British Columbia*. See the Website or contact MOF Forest Practices Branch, Stand Management Officer, (250) 387-6656.

Sound silviculture decisions are based on a clear understanding of how forest stands grow. The two-day course, *Using Growth and Yield Concepts to Build Effective Stand Management Prescriptions and Programs* provides stand management prescription writers with training in:

- the concepts of stand development,
- computer software to predict future yield, and
- appropriate data collection.

### GROWTH AND YIELD

Foresters rely heavily on site productivity estimates to select sites and develop silviculture prescriptions that will maximize EFP investment returns. To help forest managers access the latest information, the EFP funds growth and yield workshops. Highlights from the 1998/99 workshop, *Site Productivity Concepts in B.C.*, are available on video.

To address an increasing emphasis on alternatives to clearcutting, the next growth and yield workshop will focus on growth and yield of complex stands.

### PARTIAL CUTTING

The report *An Evaluation of Available Merchantable Volume in Areas Subject to Visual Quality Objectives* describes a procedure used to identify candidate stands suitable for partial cutting. The report then quantifies the potential change in availability and long-term timber supply when partial cut harvesting is used with clearcutting in scenic areas.

The analysis shows that due to the temporal constraints on the scenic timber harvesting land base, both



short- and long-term timber supply will increase when partial cutting is chosen over clearcutting. By how much? Check out the EFP Virtual Resource Centre.

### BACKLOG REFORESTATION

The study *Boreal Plant Community Diversity 10 Years after Glyphosate Treatment* examined 10- and 12-year post-treatment effects of broadcast and spot application of glyphosate for site preparation on structural diversity, species richness and diversity, and crop tree growth in two boreal forest plant communities in north-eastern B.C. Results indicate that a single application of glyphosate to prepare sites for reforestation can improve crop tree performance without adversely affecting vascular plant community diversity. The complete report is available in the *Western Journal of Applied Forestry* 15(1):15–26.

### STAND TENDING

Achieving forest management objectives for timber and non-timber resources at the stand level depends on the successful implementation of stand tending activities.

The MOF has developed in-depth courses for field foresters for spacing, pruning, fertilization, and commercial thinning. These courses provide the “how-to’s” of planning and implementing these activities in compliance with the Forest Practices Code.

These courses are available for delivery on demand, and materials are available on the EFP Virtual Resource Centre Website, or contact MOF Forest Practices Branch, Stand Management Specialist, (250) 387-6656.

### FOREST HEALTH

Forest health factors affect EFP investments by causing growth loss, form impacts, and mortality. Identifying these factors is a vital step in limiting such impacts. The EFP funded the completion of a PC-based diagnostic tool



called *Tree Doctor*, which integrates pest identification with the best available management information. See the Website or contact MOF Forest Practices Branch, Forest Health Project Specialist, (250) 387-6656.

In addition, the EFP assisted in the update and Web-distribution of the *Root Disease Management* course. Available on the Website or contact MOF Forest Practices Branch, Forest Pathologist, (250) 387-6656.



### HABITAT/BIODIVERSITY

Have you wondered how to monitor the impacts of your treatment on habitat or ecosystems? The Ministry of Environment, Lands and Parks (MELP) identified a list of general habitat/ecosystem objectives that can be used in writing prescriptions and monitoring enhanced forestry activities.

Prescription writers can refer to this list for specific and measurable objectives for their proposed treatments.

The report *Habitat/Ecosystem Objectives and Monitoring Procedures for Incremental and Backlog Silviculture Treatments* proposes a monitoring framework that complements planning and implementation of current EFP activities. See the Website or contact MELP Habitat Protection Branch, Habitat Silviculturist, (250) 356-7719.



### ADAPTIVE MANAGEMENT

Foresters throughout B.C. struggle with how to apply adaptive practices to their local issues. The course *De-Mystifying Adaptive Management* provides practical guidance on using adaptive management in B.C. forests. This three-day course progresses from concepts and principles the first day, to practical “how-to” steps the second day, to hands-on computer simulation modelling of forest management the third day. Visit the EFP Website or contact MOF Forest Practices Branch, Manager, Adaptive Forest Management, (250) 387-6656.





## SILVICULTURE DECISIONS

- *Evaluating Silviculture Projects*. 1998. [Training Course]. Contact MOF Forest Practices Branch, Stand Management Officer, (250) 387-6656.
- *Ecosystems of the Sub-Boreal Spruce Zone*. 2000. [Website]. Contact MOF Research Branch, Research Ecologist, (250) 387-6721.

## GROWTH AND YIELD

- *How to Determine Site Index in Silviculture*. 1999. [Training Course]. Contact MOF Forest Practices Branch, Stand Development Specialist, (250) 387-6656.
- *Guidelines for Collecting Input Data for Forest Growth Models in British Columbia*. 1999. [Report]. Available at <http://www.publications.gov.bc.ca>, or contact Government Publication Services, 1 800 663-6105.

## PARTIAL CUTTING

- *Planning and Harvest Layout for Partial Cutting Silviculture and Harvesting Systems*. 1998. [Training Course]. Contact MOF Forest Practices Branch, Silviculture Practices Forester, (250) 387-6656.
- *Evaluating the Available Volume for Harvesting If Alternative Silvicultural Systems Were Used on Biodiversity and Wildlife Set-aside Areas*. 1998. [Report]. Contact MOF Forest Practices Branch, Silvicultural Systems Forester, (250) 387-6656.
- *Enhancing Biodiversity through Partial Cutting*. 1999, March. [Report]. Contact Forest Practices Branch, Silvicultural Systems Forester, (250) 387-6656.

## BACKLOG REFORESTATION

- *Plant Community Responses to Mechanical Site Preparation in Northern Interior British Columbia*. 1999. [Journal Article]. *Canadian Journal of Forest Research* 29:1084-1100.

- *Site Preparation for Establishing Lodgepole Pine in the Sub-Boreal Spruce Zone of Interior British Columbia: The Bednesti Trial, 10-Year Results*. 2000. [Journal Article]. *Forest Ecology and Management* 126(2): 227-238
- *Summary of Backlog Not Satisfactorily Restocked Forest Land*. 1999. [Report]. Available at <http://www.publications.gov.bc.ca>, or contact Government Publication Services, 1 800 663-6105.

## FOREST HEALTH

- *Aerial Overview Surveys Training Program*. 1998. [Training Course]. Available at <http://www.publications.gov.bc.ca>, or contact Government Publication Services, 1 800 663-6105.

## partnerships

Forest Renewal BC's Enhanced Forestry Program (EFP) Headquarters Investment Plan funds the Incremental Silviculture Strategy, the EFP Virtual Resource Centre, and the products available there.

Ministry of Forests headquarters staff in Forest Practices, Research, Resources Inventory, Forestry Division Services, and Timber Supply Branches work with other agencies to develop state-of-the-art tools and techniques to help field staff make wise investment decisions.

Our partners include the Ministry of Environment, Lands and Parks, private forest companies, universities, Forest Engineering Research Institute of Canada, the BC Science Council, and MOF regions and districts.