

# PREDICTING OUTCOMES

Newsletter from the Stand Tending Unit, BC Ministry of Forests, Forest Practices Branch

AUGUST, 1999

## Editor's Note

This is the third in a series of newsletters that will provide updates on the activities of the Stand Tending Unit, Forest Practices Branch, BC Ministry of Forests. Although the Stand Tending Unit is involved in many activities, this newsletter focuses on a single theme—predicting outcomes of stand-tending treatments.

I hope you enjoy the brief, informal articles in this newsletter. At this time, I anticipate four issues over a one-year period—one per season.

If you have any comments on anything you read in this newsletter, please contact me.

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## Attention Information Junkies

Frank Barber has compiled three compendiums of literature: *Pruning for Value* (June 1997), *Compendium of Literature on Partial Pruning* (June 1999), and *Compendium of Spacing Literature* (April 1999). These compendiums contain the latest published research and technical papers on operational procedures, research trial results, and the impact of these treatments on wood volume, wood quality, return on investment, and other resource objectives. Two additional compendiums (on forest fertilization and the impacts of enhanced forestry practices on wood quality) will be available this fall.

**Copies of these compendiums have been circulated to each region and district. If you would like a copy of one of them, please contact Frank Barber at 250-387-8910.**

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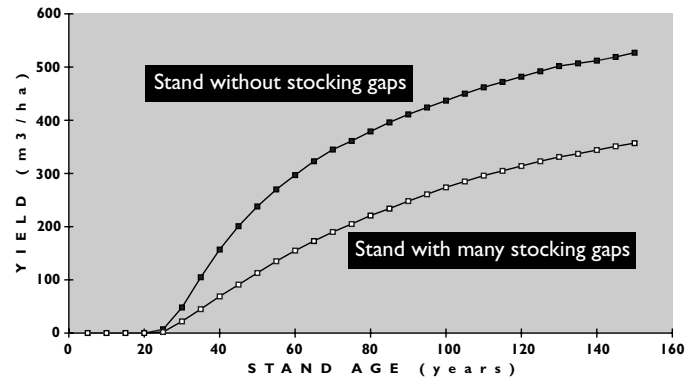
email: Barry.Snowdon@gems7.gov.bc.ca

# The New OAF1 Survey Simplified

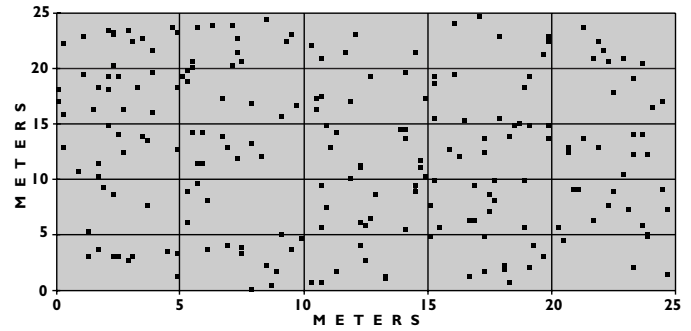
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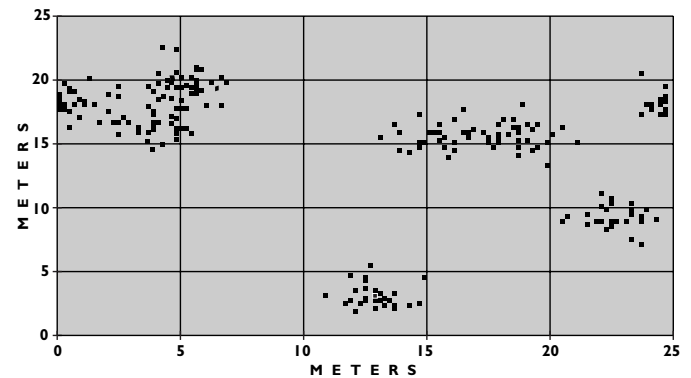
1. Most harvested areas develop numerous small gaps in tree stocking.



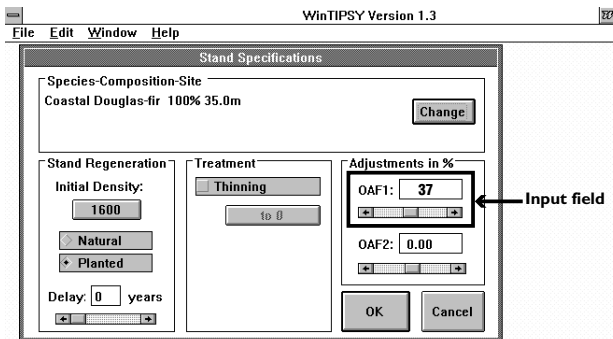
2. Stocking gaps reduce yield.



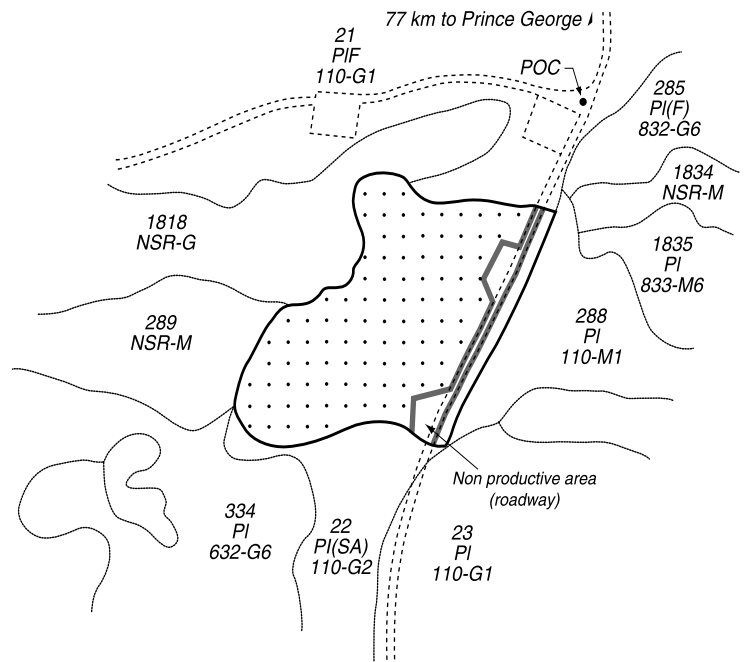
3. When you enter a #/ha into TIPSY, the program assumes a pattern of trees on the ground.



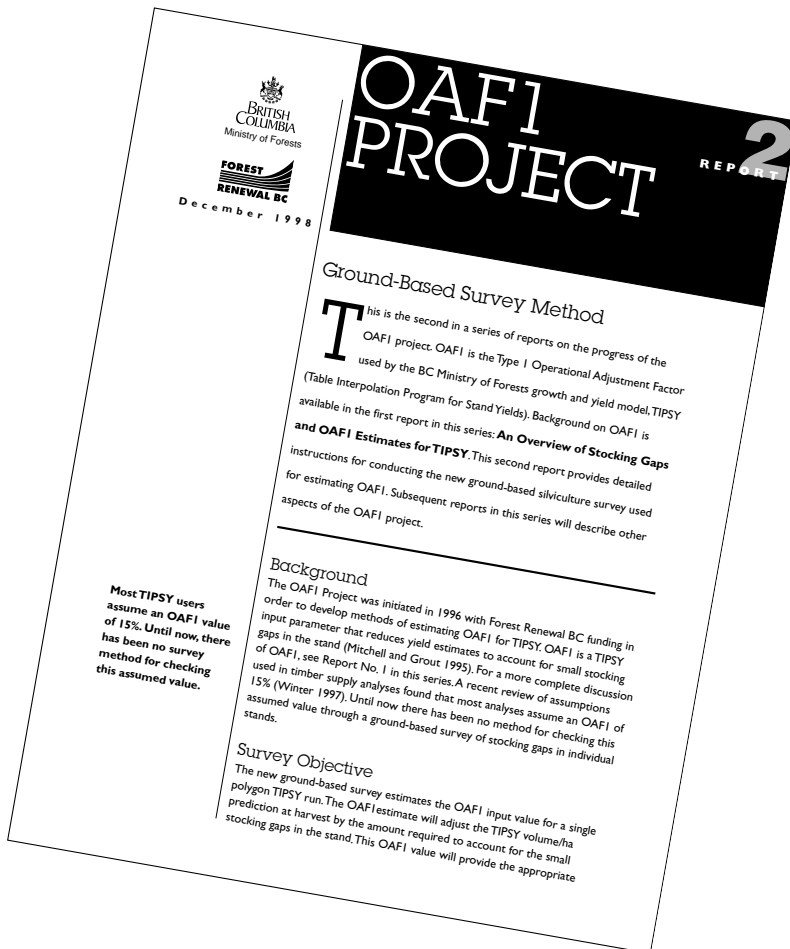
4. A stand may have a different stem pattern than TIPSY assumes.



5. The correct OAF1 is necessary in order to account for the difference between the tree locations assumed by TIPSY and the tree locations in the real stand.



6. There is a new survey for estimating OAF1.



7. This publication describes the new survey.

8. To obtain more information, call Pat Martin (250) 356-0305, or access the following publications on our web site:

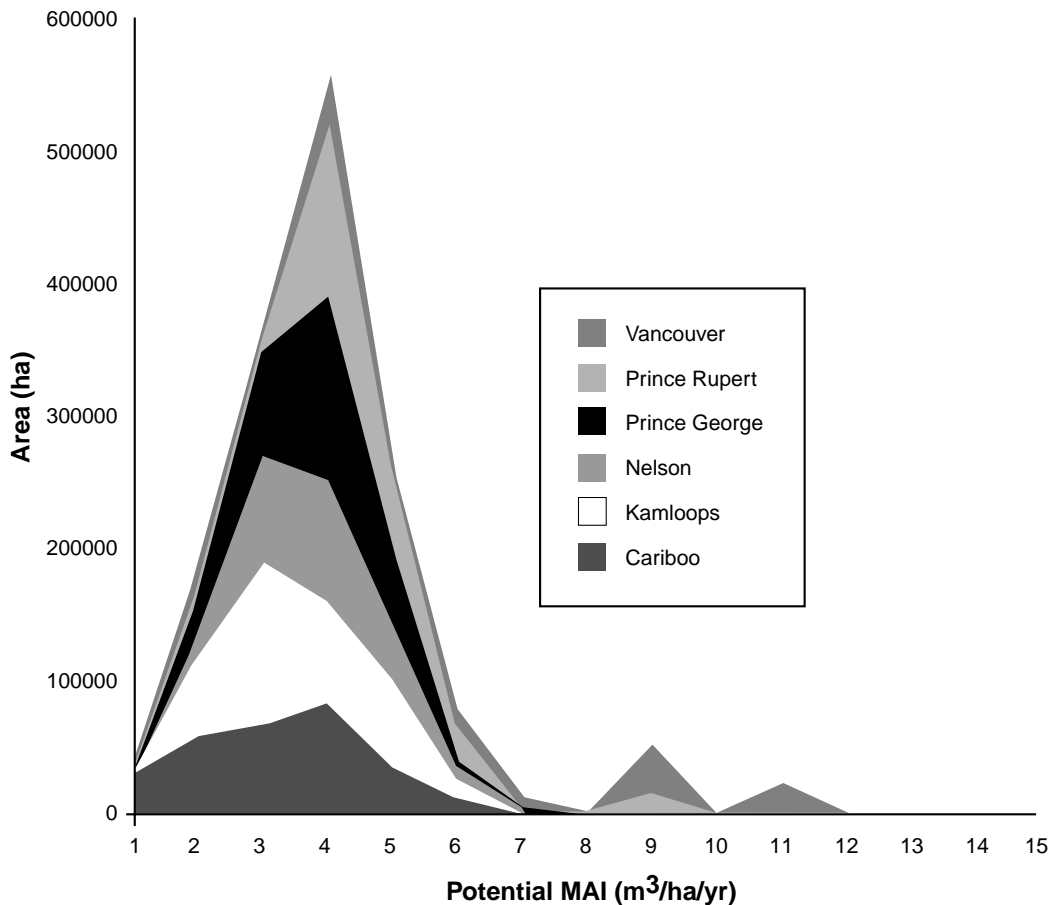
- [http://www.for.gov.bc.ca/hfp/pubs/silviculture\\_notes/oaf12.pdf](http://www.for.gov.bc.ca/hfp/pubs/silviculture_notes/oaf12.pdf)
- [http://www.for.gov.bc.ca/hfp/pubs/silviculture\\_notes/oaf1.pdf](http://www.for.gov.bc.ca/hfp/pubs/silviculture_notes/oaf1.pdf)

# Timber Growing Potential of 1.6 Million Hectares of Regenerated Forest Land

The Integrated Silviculture Information System, or ISIS, is the provincial store-house for data on millions of hectares of harvested and regenerated forest land. With FRBC funding directed through the Site Productivity Working Group, we are adding site index estimates to ISIS forest cover polygons that lack them. Obtaining these site index estimates involves comparing each polygon's ecological classification to a table that shows average site index by ecosystem. In 1998, this process was used to add site index estimates to 100,000 ISIS forest cover polygons. This year, work on the project will continue with the Major Licensee Silviculture Information System (MLSIS).

One by-product of this process is a summary of area by potential MAI class for the 1.6 million hectares of young forest in ISIS to which missing site index estimates have been added. Potential MAI is the mean annual increment of merchantable volume/ha that good silviculture is likely to produce at culmination age. Figure 1 shows the distribution of area by potential MAI class by region for this 1.6 M hectares.

**For more information, contact Pat Martin (250-356-0305) or access the project report in pdf format on our branch web site at: <http://www.for.gov.bc.ca/hfp/pubs/interest/ISIS/ISIS.pdf>**



**Figure 1.** Area by potential MAI class by region for 1.6 million hectares in ISIS.

## Courses

Want to do a better job selecting the equipment to use, identifying the right sites for treatment, and prescribing treatments that will yield the results you want? Consider taking one of our courses.

Course name	What is the course about?	Length
How to determine site index in silviculture	Site index (SI) concepts, selecting the best method for estimating SI, and field training in the correct use of the new methods for estimating SI.	1 day
Forest fertilization	How to plan, initiate, implement, and monitor a forest fertilization program in your management unit.	1 day
Pruning	The pruning techniques, equipment, and standards necessary to maximize the return on your pruning investment.	1/2 day
Wood quality	Basic wood properties, the impact of silvicultural activities on these properties, and how to build treatment regimes to produced desired wood properties and products.	1 day
Using growth and yield concepts to build effective stand tending prescriptions and programs	How to use stand growth simulators and stand development concepts to create prescriptions and silviculture programs that meet your timber or non-timber objectives.	2 days
Guidelines for developing stand density management regimes	The importance of stand density control, why and how to determine appropriate stand densities to meet specific stand level objectives, and tools that can assist field foresters in determining appropriate stand densities for their management regimes.	1 day
Prognosis training	How to run the new stand growth simulator, PrognosisBC.	2 days
Part Cuts 99 Demo	Demonstration of equipment used for partial cutting, and the harvesting, forwarding and milling equipment available for small volume removal. Part Cuts 99 will be held September 15/16, 1999 in Vanderhoof.	2 days
Commercial thinning	The planning and implementation of a commercial thinning program to meet Forest Practices Code requirements.	2 days

Several of our courses are offered through the FCSN. Visit their web site at <http://www.fcsn.bc.ca/> or call toll-free 1-877-222-9993 to see what is currently being offered. To arrange for a course to be delivered on-demand, call **Ralph Winter at 250-387-8906**.

## New On Our Web Site

Our web site contains numerous recent publications.

Here are some of the titles you'll find listed at <http://www.for.gov.bc.ca/hfp/hfp.htm>.

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### OPERATIONAL PLANNING AND PRACTICES

#### Strategic Silviculture Planning

Strathcona Timber Supply Area Resource Management Plan. pdf, 156 k. Posted May 26, 1999

MS Powerpoint presentations:

Type I Silviculture Strategies.

Incremental Silviculture Strategy for B.C. ppt., 2,905 k. Posted July 8, 1999

Forest Level Analysis for Silviculture Investments - Workplan Draft 10. MS Word 7, 165 k. Posted July 8, 1999

#### Stand Density Management

Chief Forester's Policy on stand density management. Adobe Acrobat pdf, 40 k. Posted March 8, 1999

Pre-Commerical Thinning Operational Guidelines. Posted February 15, 1999

Guidelines for Developing Stand Density Management Regimes

Guidelines for Developing Stand Density Management Regimes | PDF version (335 k) Posted February 10, 1999

Description of revisions to the maximum density requirements in section 13 of the Silviculture Practices

Regulation deposited December 18, 1998. Posted February 10, 1999

#### Stand Tending Unit Newsletters

Predicting Outcomes - newsletter from the Stand Tending Unit, March 1999. Posted April 1, 1999

Predicting Outcomes - newsletter from the Stand Tending Unit, November 1998. Posted January 15, 1999

#### OAF 1 Project

OAF 1 Project Report #2 - Ground-based Survey Method. Posted December 18, 1998

OAF 1 Project Report #1 - An Overview of Stocking Gaps and OAF 1 Estimates for TIPSy. Posted November 6, 1998

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### TRAINING

Workshop: Developing a Silviculture Strategy. External link. Posted July 7, 1999

How to Determine Site Index: Participants' Workbook 999. Posted April 9, 1999