

Mitigating Projected Timber Supply Declines

2017 Winter Workshop Vancouver Island University February 21st 2017



Photo Courtesy of Don Pigott

Acknowledgements

The Coastal Silviculture Committee (CSC) wishes to thank the following people for contributing their time and efforts in organizing the 2017 Winter Workshop...

- Jocelin Teron (Workshop Co-chair)	- Lauchlan Glen (Workshop Co-chair)
- Craig Wickland	- Jack Sweeten
- Dave Weaver	- Margaret Symon
- Don Pigott	- Neil Hughes
- Doug Corrin (VIU org. & booklet lead)	- Shaun Mason

The current CSC Board of Directors would like to thank the directors that left the active board in 2016 and to express our appreciation of these folks' years of valuable contribution to the CSC:

- Bryce Bancroft
- Cosmin Filipescu
- Lisa Meyer
- Michel Vallee
- Ron Elder

The CSC would also like to thank Vancouver Island University for the venue. On behalf of the CSC, the organizing committee would like to thank all the presenters for taking the time out of their very demanding schedules and lives to share their experience and knowledge with the rest of us.

Mitigating Projected Timber Supply Declines

The CSC 2017 Winter Workshop will be of interest to anyone concerned about declining annual allowable cuts (AAC's) on the Coast. For various reasons the AAC has been steadily declining for over thirty years. This workshop will discuss some of the factors contributing to this decline. It will also outline how silviculture, tree breeding and other factors may mitigate the AAC downfall. For example, growth and yield assumptions form the basis of timber supply modeling, but many of these assumptions have changed over time. In some instances the changes may negatively impact timber supply, while in other instances the effect may be positive. Find out what's behind timber supply assumptions and how silviculture may mitigate the AAC decline.

2017 Coastal Silviculture Committee (CSC) Winter Workshop – Feb. 21, 2017 Vancouver Island University – Building 356 Room 109/111

"Mitigating Projected Timber Supply Declines"			
Times	Topic Theme	Specific Topic Details	Speakers
9:00 am	Workshop Chair	Introductions, Safety,	Lauchlan Glen Chair
	Welcome	Washrooms, CSC directors -	Jocelin Teron Co-Chair
		retirees, Todays Agenda	
9:15 am	Uncertainty relative to	What uncertainties? Why do	Anthony Britneff RPF(ret)
	the TSR Process	they exist? What are the	Retired FLNRO
		implications? How to	Martin Watts RPF
		improve the TSR process?	Consultant Analyst
			Intro Dave Weaver
10:00 am	Coffee Break		
10:30 am	Modelling / projecting	How do our present models	Eleanor McWilliams RPF
	regenerated stand	reflect reality? What	Consultant Analyst
	growth for TSR and silv.	information do we need	
	decision making	moving forward?	Intro Lauchlan Glen
11:05 am	Using RESULTS Data as	An update on the ongoing	Dan Turner RPF FLNRO
	a "Managed Stand	project to develop a	RESULTS Analyst and
	Yield Table" input	methodology to use RESULTS	Dave Waddell FLNRO
		data as inputs to TASS/TIPSY	FAIB Staff
		for Timber Supply analysis.	Intro Craig Wickland
11:40 am	CSC Business Meeting	Including Silviculturist of	Jack Sweeten CSC
12:00 are	and Awards	Year to Award	Michel Vallee VIU
12:00 am 1:00 pm	Lunch Genetic Gain Impact on	How is Genetic Gain	Pat Martin RPF FLNRO
1.00 pm	TSR	determined/measured and	A/Director Tree
	151	how is it best built into TSR?	Improvement Branch
			Intro Don Piggott
1:35 pm	"Silviculture informing	The TSR experience in a TFL -	Rick Monchak RPF
1.55 pm	Timber Supply" - from	how the modeling works,	Timber West
	an industry perspective	how silviculture assumptions	
	and the second s	tie into the whole picture,	Intro Neil Hughes
		and highlighting the issues.	
2:10 pm	Coffee Break		
2:25 pm	Forest Health Impact	What data is used in TSR? –	Stefan Zeglen RPF FLNRO
	on TSR	YSM and/or SDM 1.0 mid-	Coastal Pathologist
		rotation managed stand	-
		data?	Intro Craig Wickland
3:00 pm	Final Summary Wrap		Cosmin Filipescu
	and		
	Intro CSC Summer 2017	Welcome to the Fraser	Jack Sweeten and
		Valley	Lauchlan Glen
3:35 pm	Miller Time!!		Everyone

Uncertainty relative to the TSR Process 9:15

Name: Anthony Britneff, RPF (ret)
Affiliation: None
Position: Engaged resident
Responsibilities: Advocates for the forests and animals of the B.C. Commons and promotes the rights of all life to clean air and water and to productive soil.
Academic training: BScF and MPA
Previous employment: BC Forest Service for 40 years



Name: Martin Watts, RPF, EP(GHG)
Affiliation: FORCOMP Forestry Consulting Ltd.
Position: Growth and Yield Specialist
Responsibilities: Quantification, validation and verification of forest carbon offset projects; data validation, management and compilation; statistical analysis of data; and computer programming.
Academic training: MScF
Previous employment: T.M. Thomson and Assoc.



ABSTRACT: Uncertainty relative to the TSR Process

The presenters will provide:

- o Historical context to uncertainty in the Timber Supply Review (TSR) process;
- o Explanations as to what is meant by uncertainty and why it needs to be accounted for;
- o Briefing on some of their work undertaken since 2014 and on work in progress;
- Connection between uncertainty in the TSR process and investment in coastal silviculture; and,
- o Identification of areas in which the TSR process needs to be improved.

Modelling regenerated stand growth for TSR and silviculture decision making 10:30

Name: Eleanor McWilliams, RPF Affiliation: Associated Strategic Consulting Experts Inc. Position: Partner Responsibilities: Analyst, project manager Academic training: BSF, UBC Forestry, MSc Forest Biometrics, U of Minnesota Previous employment: Canfor, Forestry Canada, JS Thrower and Associates Ltd.



ABSTRACT: Modelling and projecting regenerated stand growth for timber supply and silviculture decision making.

Growth projections are an integral component of timber supply review and analysis of silviculture options. The reliability of the growth projections are based on both the model used and the data used to initiate the model. This presentation will provide a brief introduction to the TIPSY and TASS models currently used for projecting managed stands in BC. It will also review the key input variables required to initiate the models and the sensitivity of projected results to these inputs. This will be followed by a discussion of how to improve the collection of data required for model inputs.

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RESULTS Data for "Managed Stand Yield Table" input 11:05

Name: Dave Waddell, RPF Affiliation: FLNRO – Forest Analysis & Inventory Branch Position: Modeling Forester Responsibilities: Technical Solutions Academic training: BSF(82), MF(87) Previous employment: 1986-present: FLNRO – Forest Analysis and Inventory Branch



Name: Dan Turner, RPF Affiliation: FLNRO – Resource Practices Branch Position: Forest Management Analyst Responsibilities: Silviculture data analysis Academic training: BScF UNBC 2000 Previous employment: 1997-1999 – Three coop positions while at school 2000-2006 – J.S.Thrower & Associates Ltd. 2006-2009 – Timberline Natural Resource Group 2009-2014 – CTQ Consultants Ltd. 2014-2015 – FLNRO - Forest Analysis and Inventory Branch



ABSTRACT: Using RESULTS Data as a "Managed Stand Yield Table" input

An update on the ongoing project to develop a methodology to use RESULTS data as inputs to TASS/TIPSY for use in timber supply analysis.

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Coastal Silviculture Committee Business Meeting Agenda February 21, 2017

Call to order

Additions to the agenda

- 1. Financial Statement (next page): January 2016 December 2016
- 2. Discussion Items:
 - Ratify CSC name
 - CSC logo
 - CSC website
 - New look & feel
 - o Transition & future registration
 - Open Discussion
- 3. Bursary Presentation to Vancouver Island University recipients
- 4. Confirmation of Status of Current Directors, and Election of New Directors
- 5. Adjourn

FINANCIAL REPORT JANUARY 1 - DECEMBER 31, 2016 COASTAL SILVICULTURE COMITTEE

JANUARY 1 2016 BALANCE 4180.59 Coast capital savings 17118.01 VIU account CSC BUSINESS COSTS post office box -163.80 Minister of finance -50.00 -213.80 **BURSARIES/FINANCIAL SUPPORT** VIU Perpetual (April 30/16) -5000.00 UBC (December 14/16) -2200.00 BCIT -1200.00 CFI National Forest Week (April 14/16) -500.00 -8900.00 WINTER WORKSHOP Income 10970.80 Registration 10970.80 Expenses -4362.70 catering, A/V rental, gratuity/extension services/MC,Visa -472.60 printing costs presenters costs & gifts -107.80 -4943.10 6027.70 SUMMER WORKSHOP Income Registration 13366.51 13366.51 Expenses room rental/catering, gratuities/presenters gifts/awards -6663.12 snacks -480.47 bus/van/BC park fees -2094.35 -50.85 award participants gifts -1047.20 -721.60 printing costs Extension Services/ MC, VISA charges -257.66 -11315.25 2051.26 OTHER bank interest 18.59

December 31 2016 BALANCE

SUMMARY			
	balance in Coast Capital	7723.61	
	balance in VIU account	12558.74	
		20282.35	(

21298.60

20282.35

0.00

Genetic Gain Impact on TSR 1:00

Name: Patrick Martin Affiliation: FLNRO Position: A/Director, Tree Improvement Branch Responsibilities: FLNRO's tree improvement and genetic resource management program Academic training: BSF, UBC 1988 Previous employment:



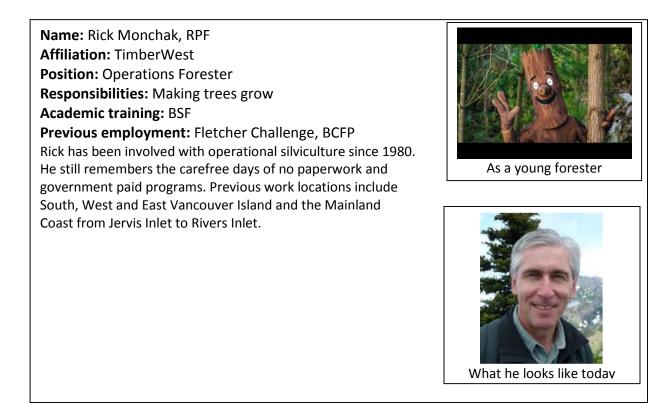
ABSTRACT: Genetic Gain Impact on TSR

In this presentation, I will:

- **1.** discuss some aspects of tree improvement and forest yield that are particularly relevant to silviculture in BC;
- 2. briefly review how tree improvement is handled in TSR;
- **3.** offer a few comments on the interplay between a high-yielding forest, a high-performing tree improvement program, and a high-profile TSR process; and
- **4.** conclude with a discussion of the contribution of tree improvement to mitigating timber supply declines.

"Silviculture informing Timber Supply" Industry Perspective

1:35



ABSTRACT: "Silviculture informing Timber Supply" - an industry perspective

Silviculture on the coast has the potential to have a significant positive impact on timber supply. Historically, most silviculture related inputs to timber supply have been assumptions, not reality. In many cases, these assumptions are conservative. When an effort is made to quantify these silviculture inputs, rather than use assumptions, it is most often found that actual performance surpasses the assumptions.

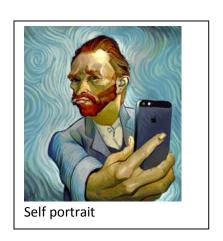
Achieving a timber supply forecast that is anchored on actual silviculture performance is a tremendous opportunity. What is needed is an improved understanding by forest professionals of the silvicultural factors that influence timber supply and the role they have in affecting these factors. Once this is achieved, what can be done to encourage silviculture performance that is "above the bar"?

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Forest Health Impact on TSR 2:25

Name: Stefan Zeglen, RPF
Affiliation: BC MFLNRO
Position: Forest Pathologist
Responsibilities: Dead trees
Academic training: B.Sc.(For.), M. S.
Previous employment:

1994 to present – regional forest pathologist, Nanaimo
1989 to 1994 – regional forest pathologist, Smithers



ABSTRACT: Forest Health Impact on TSR

Currently there are three typical ways that pest damage can be accounted for in timber supply reviews – as non-recoverable loss estimates, operational adjustment factors (OAF) and as landscape-level or catastrophic loss estimates. Each of these is derived differently and influences timber supply in its own unique fashion.

Examples are provided as to how each method has been incorporated into the TSR process and how pest impacts might be better accounted for in the future. Some discussion of the value and limitations of forest model inputs and the value of mid-rotation monitoring for quantifying forest health damage will be provided.

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2017 CSC Winter Workshop Registrants

