



~ AGENDA ~

Thursday, Jan 27

8:00-9:30 **Registration/check-in, Posters & Exhibits**
 (coffee/pastries)

9:30-9:45 **Welcome**

BASICS OF FOREST-LEVEL SILVICULTURE

9:45-10:30 **Thinking Silviculture at the Forest vs. Stand-level**
 Chris Fletcher (MoF, TSB)

10:30-11:15 **Silviculture Linkages to Timber Supply**
 Albert Nussbaum (MoF, RB)

11:15-12:00 **C.S.C. Business Meeting**

12:00-1:00 **Buffet Lunch** provided (exhibit time)

FOREST-LEVEL SILVICULTURAL DECISION MAKING

1:00-1:45 **Biological Assumptions**
 John Barker (UBC)

1:45-2:30 **Socio-Economic Assumptions**
 Mark Messmer (JS Thrower & Assoc)

2:30-3:15 **Non-Timber Values**
 Mike Fenger (MoELP)

3:15-3:45 **Break** and exhibit time (coffee, softdrinks)

OPEN FORUM

3:45-4:00 **Monitoring silvicultural responses**
 Eleanor McWilliams (JS Thrower & Assoc)

4:00-4:15 **Vegetation Mgt. Observations in VFR**
 Hal Reveley (MoF, VFR)

4:15-5:00 **Open Forum cont.**

5:00-6:00 **Exhibit Time**

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- 6:00-7:00 No-host bar reception at Princess Mary Restaurant
7:00-8:00 Banquet Dinner at Princess Mary Restaurant
8:00-9:00 **Dinner Speaker:** *Larry Pedersen, Chief Forester*
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Friday, Jan 28

- 7:00-8:00 **Breakfast** (provided) & Exhibit Time
8:00-8:30 Breakfast clearing & Exhibit Time

IMPLEMENTATION: COASTAL EXPERIENCES

- 8:30-9:15 **Opportunities for Coastal Timber Supply**
Myles Mana (MoF, VFR)
- 9:15-10:00 **Strategic Silviculture Planning Initiatives**
Ralph Winter (MoF, FPB)
- 10:00-10:30 **Break** and Exhibit time (coffee/juice)
- 10:30-11:15 **Industry Perspective**
Larry Promnitz (TimberWest)
- 11:15-12:00 **Industry Perspective**
Randy Webb (Olympic Res. Mgt.)
-
- 12:00 Closing Remarks & Adjourn



Acknowledgements & Thanks

We wish to thank the volunteers of the Coastal Silviculture Committee for their time and dedication in putting this year's Winter Workshop together and making it a reality.

Steve Stearns-Smith, Co-Chair, Ministry of Forests

Doug Stables, Co-Chair, Western Forest Products

Louise de Montigny, Sctry/Treas., Ministry of Forests

Bruce Colquhoun, Noel Roddick Ltd.

Lauchlan Glen, Glenviron Consulting

David Lloyd, Pelton Reforestation

Lisa Meyer, Ministry of Forests

Chris Nunn, Western Forest Products

Paul Rehsler, Ministry of Forests

Colene Wood, Min. of Env., Lands & Parks

Tom Hedekar, Malaspina University-College: (*contracted workshop administrator*)

The committee also recognizes the "in kind" contribution made by the BC Ministry of Forests .

COVER PHOTO BY: Armin Seilopp, Capitol Regional District, Parks Division

Coastal Silviculture Committee - Financial Report

December 1998 Through November 1999

Income

Account Closure - Savings	43.91 ✓	
Account Interest	-21.70 ✓	
Credit - Membership	9.21 ✓	
Summer Workshop - 1999	9,733.67 ✓	
Winter Workshop - 1999	10,040.60 ✓	
Total Income		19,849.09
		19,849.09

Expenses

Bursary - 1999

BCIT	500.00	
UBC	1,000.00	
Total Bursary - 1999		1,500.00 ✓

Office Expense

Bank Service Charges	87.90	
Post Office Box Rental	89.56	
Voice Mail	28.18	
Total Office Expense		205.64 ✓

Summer Workshop - 1999

Advertising	50.00	
Brochure	710.06	
Buses	3,000.00	
Catering	3,977.24	
Band	650.00	
Faxes	54.00	
Support Services	1,868.75	
Workbook	135.45	
Total Summer Workshop - 1999		10,445.50 ✓

Winter Workshop - 1999

Brochure	494.58	
Catering	4,541.98	
Faxes	116.00	
Support Services	1,756.25	
Refund	80.00	
Travel Expenses	175.10	
Workbook	316.52	
Total Winter Workshop - 1999		7,480.43 ✓

Winter Workshop - 2000	63.48	63.48
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Total Expenses		19,695.05
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Grand Total		154.04
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"Thinking Silviculture at the Forest vs. Stand level"

Chris Fletcher, RPF

ABSTRACT

Timber supply is the flow of timber available over time, subject to physical, biological, social, economic, and environmental considerations. In very broad terms, timber supply is defined by the balance between the availability of inventory, and the productive capability of the land base. Availability of inventory depends on the land base available for harvesting, utilization levels, harvests by other biological or physical processes, management objectives affecting forest cover, and timing of second-growth availability. Land base productivity can be affected by the area available for timber production, inherent site productivity, practices that alter site productivity (genetics, fertilization), damage agents, and management objectives. Under different historical, and biophysical and climatic conditions, the relative importance of these influences will change. Silviculture strategies should therefore recognize the influences on timber supply, and the management objectives specific to an area. As well as timber quantity - implicit in most measures of timber supply - other objectives may include environmental features and processes such as biodiversity and wildlife, timber quality and potential product mix, and sustainability or stability. What works in one management unit may not work in another. What's best for a single stand may not provide benefits at the forest level. Silviculture strategies likely to provide reasonable benefits under a wide range of future conditions, may hold up better than plans for optimum net benefits under currently forecast conditions.

A biography

Chris Fletcher has worked in Timber Supply Branch, B.C. Ministry of Forests since late 1991. From his current position as a manager, he glances back fondly to the days he actually got to do timber supply analysis.

Chris Fletcher
Timber Supply Branch
B.C. Ministry of Forests
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"Silviculture Linkages to Timber Supply Analysis"

Albert Nussbaum, RPF
Timber Supply Forester
Ministry of Forests, Vancouver Region

~ ABSTRACT ~

Timber supply analysis is the process of exploring the timber supply effects of alternative forest management strategies and timber harvest levels. It is carried out to support forest management planning, land use planning and to determine allowable annual cuts. Information requirements for timber supply analysis can be grouped into three broad categories: land base, management and growth and yield. Silviculture information is a key component of management and growth and yield information.

Evaluation criteria of alternative timber supply forecasts include: annual volume harvested, total standing volume, average area and volume harvested per hectare, age class structure and harvest flow. Elements of a harvest flow graph include the initial harvest, transition to second growth stands and the long term harvest level. Key influences on timber supply include: environmental, social, economic and biophysical factors. Silviculture treatments can effect both the short term and long term timber supply.

A biography

Albert Nussbaum received his BSF Forestry from the University of British Columbia (UBC) in 1984. From 1984 to 1990 he worked as a research assistant at UBC. In 1990 he joined the Ministry of Forests' Research Branch as a Growth and Yield Applications Specialist. He is currently on secondment as a Timber Supply Forester to the Ministry of Forests', Timber Supply Branch.

"Biological Assumptions"

Dr. John Barker

FRBC Chair in Silviculture
Dept. of Forest Science
University of British Columbia

Western Forest
Products.

(Abstract unavailable at time of printing)

"Considering Economics in Silviculture Investments"

Mark Messmer, RPF

Abstract:

Scarcity is a fundamental determinant of demand. Demand for wood products over time can be characterized with many examples of technical change, substitution, and conservation that have acted to keep scarcity, and thus prices, from rising beyond the aggregate price level in any economy. These facts have implications not only for the efficacy of investments in silviculture, but also for the policy context in which timber harvest property rights are assigned to B.C.'s forest industry. The purpose of this presentation is to outline the relationships between the need for silviculture investment, and the competitiveness of the forest products industry. This relationship is ultimately affected by the demand for wood products, and therefore policies that affect the economic value of B.C.'s timber supply in turn affect the ability to make investments in silviculture, or for that matter, investments in forest management in general.

Bio

Mark Messmer, R.P.F.

Mark Messmer has 10 years experience in forest modeling, forest policy analysis, and economic analysis from across Canada. He has a Bachelor of Science in Forestry from the University of Alberta and a Master of Science specializing in Forest Economics from the same institution. He spent five years with the Canadian Forest Service in Fredericton, Ottawa, and Victoria conducting applied research in forest estate modeling, and policy analyses of both supply and demand factors in the Canadian Forest Sector. Subsequent to this he spent two years with the B.C. Ministry of Forests implementing forest level silviculture strategies for various regions of B.C. and participated in the development of new Provincial stand density management guidelines. For the past two years, he was a Senior Resource Analyst with MacMillan Bloedel Ltd. (now Weyerhaeuser) responsible for development and implementation of tools aimed at forest level strategic analysis. In December of 1999, he joined J.S. Thrower and Associates as Senior Project Forester, where he will continue work related to forest resource analysis with an economic flavour.

Non-Timber Values

Mike Fenger, RPF

Abstract

Non-timber is a term that comes from the lexicon of the timber supply analyst. Non-timber values are seen as a constraint to timber supply. Non-timber are addressed by measures in land use plans, policy or guidelines that conserve biodiversity, maintain supply of water for fish or human use, and retain critical habitat for species at risk and other valued species. Non-timber also includes sustaining a supply of habitat for botanical products and managing for more natural viewsapes. Here the focus will be on sustaining environmental values. Silviculture practices provide both concerns and opportunities. **First the concerns.** Pressure to increase timber volume continues. Forest Renewable BC has a five year target to increase the available harvest by a further 25 million cubic metres annually. Council of Forest Industries and Truckloggers have a provincial target of 100 million cubic metres. There is risk that these increases will be gained at significant cost to the environment. Little effort is being placed on assessment of measures needed to sustain environmental values in the timber supply debate. What is the risk to environment based on our current management practices? What is the base case for sustaining environmental values? When maximizing one value and minimizing others a small timber gain may be achieved but at a disproportionately higher cost to non-timber values. Trends in state of the environment reporting are cause for alarm. The Watershed Restoration Program is also an indicator of past planning where harvesting practices did not account for environmental risk and costs. To ensure we do not achieve increases to timber by passing the risk to the environment conservation assessments (environmental risk) must be done today. This can be done using environmental indicators such as; stand structure (Coarse Woody Debris and Wildlife tree retention), seral stage distribution, old forest representation, forest fragmentation/connectivity, species composition, and habitat for species at risk. Risk can be understood from past, current, and projected conditions of these environmental indicators. In general, the risk is assessed by the degree to which the indicator has varied from natural conditions. **Secondly, the good news.** After understanding if there is concern silviculture practices can be used to mitigate and lower risk. This is most effectively done at the forest level during planning prior to harvest approvals and when harvesting retains sufficient forest structure across the landscape. Although second growth stands are more homogenous and simplified, silviculture investments can improve suitability of these stands for non-timber values. We are at a cross roads, if we continue with pursuit of volume and disregard the associated impacts our forests will have fewer species, lower water quality, and thus produce fewer fish and supply poorer quality water for domestic use. In the longer term managed forests may also function poorly and produce less volume than anticipated due to loss of ecosystem functions. The wisdom to sustain the environment and the risk to environment is largely in the hands of foresters.

Mike Fenger is the Habitat Forester for Ministry of Environment, Lands, and Parks. He works to co-ordinate the Ministry's input to Timber Supply Reviews, biodiversity conservation, and advises on silviculture, ecosystem restoration and land use planning.

Monitoring treated stand growth and yield

Eleanor McWilliams M.Sc., R.P.F.

J.S. Thrower & Associates Ltd.

Abstract

J.S. Thrower & Associates Ltd. currently has a contract with the Ministry of Forests, Resources Inventory Branch to develop protocols and sampling methods for growth and yield monitoring. Growth and yield monitoring is defined as "*The process of comparing the actual G&Y of a forest or stand to the predicted or expected G&Y for that forest or stand.*" It could also be called "checking growth and yield estimates and predictions."

Recommendations of particular interest to silviculturists include:

- 1) *Discontinue the Silviculturally Treated program. It is not suited for monitoring and it does not provide the data required for the models under development by the MOF.*
- 2) *Address the needs of silviculturists for feedback on the performance of treated stands by monitoring stand-level growth and yield after treatment. This could be done using modified silviculture surveys designed to enumerate stand conditions and estimate stand yield.*
- 3) *Treatment response should not be monitored. Checks on projections of treated stand growth and yield should be done by monitoring growth and yield after treatment. This recommendation has been accepted by the MOF.*
- 4) *Estimates of treatment response should be obtained from statistically designed trials outside the growth and yield monitoring program.*

The objective of the brief presentation at the CSC workshop is to make people aware of this project and invite questions and comments on all aspects of it. After the workshop please send any comments or questions via email (eleanor@istar.ca).

Bio-sketch

Eleanor obtained a B.Sc.F. from UBC in 1984. After graduation she worked for Canfor and the CFS before heading back to school. In 1990 she obtained a M.Sc. in forest biometrics from the University of Minnesota. Since 1991 Eleanor has been working as a forest biometrics consultant specializing in quantitative silviculture, sampling, experimental design, and financial analysis of silviculture investments. She is now a member of the J.S. Thrower & Associates Ltd. team. Outside of paying work her real job is mom to three wonderful little boys (2, 5 and 7 years).

"Free Growing: Are There Still Problems Out There?"

Hal Reveley, RPF

~ ABSTRACT ~

This past fall I did an overview assessment of 5 forest districts including small business and major licensees. This wasn't an audit and did not result in any formal report. It was simply an assessment of how well we appear to be managing vegetation on blocks which are or will soon be free growing. Blocks harvested between 5 and 20 yrs ago were targeted, mostly concentrating on the deciduous brush complex.

The results indicated different approaches were being taken but some level of concern in three of the five districts. The prime observation was that not enough attention was directed towards alder. There appeared to be too much alder along roads, in small creeks and wet areas, and in the block in general. Some districts and licensees are treating roadside alder and alder within blocks, while others are not. Two districts appeared current in their management of alder while the others had a large backlog.

What are the impacts of the lost growing space to G&Y; is it worth treating the thousands of hectares of this backlog where up to 30% of a block may be impacted by alder; what should we be doing to prevent adding to this backlog? These are some of the issues and questions that need to be discussed.

The TSR netdowns associated with roads is a good example. If we assume that 7% of the Timber Harvesting Landbase is in roads, we might be able to reduce the actual netdown used to a range of 2-4% where a licensee has full stocking up to the road surface. If, on the other hand, alder is left on the road surface (no opportunity for conifer crowns to use this area to photosynthesise) and alongside the road, and include the large crown area that extends out over the plantation, the netdown probably should be considerably more than the 7%, perhaps in excess of 10%. You can see the possible impact this could be having.

The next big concern are the trends in the amount of brushing and weeding taking place on the coast. In comparing total, chemical and manual brushing, there are distinct trends over time. The total amount of brushing has gone down considerably but the amount of manual brushing has actually gone up. Manual brushing is far more expensive and often less effective. We need to re-evaluate our approach to plantation management.

Biography:

BCIT Forestry Diploma in 1976

Worked in Powell River in Silviculture for nine years leaving in 1986.

Took the pupil program and was registered in 1990

Was fast tracked through the SIBC program and completed this in 1992

Worked in Vancouver Regional office in Silviculture for 7 years in the fields of auditing; planning; silviculturist; and Silviculture Officer.

Am currently the Forest Practices Manager with a staff of 7 covering all aspects of biodiversity, wildlife, harvesting, recreation, visual landscape, forest health, silviculture and certification.

Opportunities/Issues for the Coastal Timber Supply

Myles Mana, RPF
Timber Supply Forester
Ministry of Forests, Vancouver Region

~ ABSTRACT ~

Overview of the coastal timber supply - will start with a discussion of the coastal timber supply as a whole and the history of changes in the coastal AAC over the last five to ten years. Will also discuss the variability (site productivity, logging history, managed stands, species, etc.) between the various TSAs/TFLs contributing to the coastal timber supply (emphasis on TSAs).

Brief discussion of why AACs have typically been reduced over the past few years (the expected "falldown", land use decisions, increased consideration for non-timber values via the Code)

Discussion of emerging issues and opportunities and the possible effect on the future timber supply.

Potential downward pressures:

- market pressure encouraging non-clearcut systems – discuss potential G&Y impacts, economic operability under non-clearcut systems
- potential for new protected areas

Potential upward influences on the timber supply:

- improved site index/G&Y information
- tree improvement programs
- forest zoning and "high intensity" forest management areas
- some alternatives to silviculture for increasing the coastal timber supply (e.g. "buying" more land through investment in access to currently "uneconomic" drainages, rehabilitation of overmature, currently uneconomic stands,)

Other emerging issues – time permitting, will discuss the concept of area based AACs and how it may affect silvicultural assumptions used in timber supply analyses.

Biography

Myles Mana is currently a timber supply analyst for the Vancouver Forest Region and has been involved in timber supply analysis since first joining the Ministry of Forests, Timber Supply Branch in 1991.

"Strategic Silviculture Planning Initiatives in British Columbia "

Ralph Winter, RPF

There has been a long-standing need to develop strategic plans for incremental silviculture investments in BC. Audits done on FRDA 1, FRDA 2 and FRBC have all clearly documented the need for strategic silviculture plans. With FRBC funding the Ministry has developed the *Incremental Silviculture Strategy for British Columbia (interim)*. The strategy was developed in 1997, field tested in 1998 and released in 1999. The strategy is intended to provide broad general direction and encourage patterns of activities. The provincial strategy provides context for the development of management unit strategies, stand level analyses and FRBC required Resource Management Plans. It is expected that the strategy will be refined upon completion of management unit strategies.

In 1999 FRBC allocated \$3 million over two years to develop management unit incremental silviculture strategies. A number of analytical and forest level modelling approaches are used to produce specific harvest level, timber quality and habitat supply objectives. The strategies contain silviculture regimes and silviculture programs aimed at achieving the desired management unit objectives. The strategies are intended to help guide the allocation of available funding towards the timber supply, timber quality and habitat supply goals. There are 39 management units, which have a silviculture strategy underway or complete. One of FRBC's key performance indicators is to have a strategy in place for every unit within the next 2 years.

For more information and copies of the *Incremental Silviculture Strategy for British Columbia*, the workplan for *Forest Level Analysis for Silviculture Investments*, sample management unit strategies and workshop materials see the Forest Practices Branch Web site (<http://www.for.gov.bc.ca/hfp/pubssilvstrat.htm>)

BIOGRAPHICAL SKETCH Ralph Winter

Stand Management Officer, Forest Practices Branch, Ministry of Forests

1981	BSF - Resource Management, University of British Columbia
1981-1985	Resource Assistant Silviculture with the Ministry of Forests, Campbell River Forest District
1985-1991	Silviculture Surveys and Development Studies Forester, Ministry of Forests, Silviculture Branch
1991-2000	Stand Management Officer, Forest Practices Branch, Ministry of Forests. Responsible for managing the Stand Management Unit which is involved in the development and training of spacing, pruning, fertilization and commercial thinning, legislation, policy and guidelines. The unit is responsible for the implementation of the <i>Incremental Silviculture Strategy for British Columbia</i> , provincial direction and coordination of the <i>Forest Level Analysis for Silviculture Investments</i> . In addition, the unit is also involved in the production and training of site productivity, decision support and wood quality information for silviculture operations.

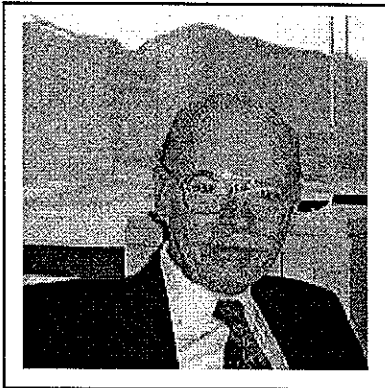
Address: 1st Floor, 1450 Government Street, Victoria B.C.
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"Industry Perspective"

Larry Promnitz, Ph.D.

TimberWest Forest Corporation
Suite 2300, 1055 West Georgia Street
Vancouver, BC
604-654-4600

(Abstract unavailable at time of printing)



Dr. Lawrence C. Promnitz, Director, Strategic Planning

Dr. Promnitz joined TimberWest Forest Corp. at its inception in 1997 and has been responsible for various business and development functions. Industrial experience has included working for TimberWest Forest Ltd., Fletcher Challenge Canada, Crown Forest Industries, Crown Zellerbach Canada and Crown Zellerbach Corporation. Industrial roles have included Business Planning, IT management, Forest Information Management and Forestry Research. Prior to joining industry in 1977, Dr. Promnitz was Associate Professor with joint appointments in the Departments of Statistics and Forestry at Iowa State University.

Dr. Promnitz has a Bachelor of Science degree from Southern Illinois University and a Master of Science and Doctor of Philosophy from Iowa State University.

"Industry Perspective"

D. Randy Webb, RPF

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(Abstract unavailable at time of printing)



L. P. (Larry) Pedersen
Assistant Deputy Minister
Chief Forester
Ministry of Forests
P. O. Box 9525 Stn Prov Govt
Victoria, British Columbia
V8W 9C3

Location: 4th Floor, 595 Pandora Avenue
Victoria, British Columbia

Phone: (250) 387-1296
Fax: (250) 387-6267
E-Mail: larry.pedersen@gems5.gov.bc.ca

Larry Pedersen was appointed Chief Forester in September, 1994.

Born in Summerland, B.C., Mr. Pedersen first joined the Forest Service in 1975. A graduate from the University of British Columbia with a Bachelor of Science in Forestry (B.Sc.F.) in 1975, he became a Registered Professional Forester in 1977.

Mr. Pedersen's career with the British Columbia Forest Service began in Victoria in 1975 as an inventory forester.

During his career, he has advanced through a number of positions in the Prince Rupert, Prince George and Cariboo Forest Regions. He also worked five and one-half years in the private sector.

AS Chief Forester, Mr. Pedersen is responsible for developing plans and programs to manage provincial forest and range lands; determining timber harvest levels for each timber supply area and tree farm licence in the province; and overseeing the development and maintenance of British Columbia's new Forest Practices Code.



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CSC Winter Workshop 2000 Attendees

<i>Attendee Name</i>	<i>Company Name</i>	<i>Address</i>	<i>Phone</i>	<i>Fax</i>	<i>Email Name</i>
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Ackhurst, Peter	Ackhurst Consulting	Box 472 Whistler, BC V0N 1B0	(604) 932-5222	(604) 932-5298	Ackhurst@direct.ca
Amundale, Geoff	G.C. Gallagher & Assoc. Ltd.	4570 C - 10th Ave. Port Alberni, BC V9Y 4X8	(250) 724-6552	(250) 724-6582	gcgltld@home.com
Bancroft, Bryce	Ministry of Forests, Silviculture	P.O. Box 9513, Sin Prov Gov't Victoria, BC V8W 9C2	(250) 652-6509	(250) 652-9328	
Bealing, Rod	Private Forest Landowners As	556 Herald Street Victoria, BC V8W 1S6	(250) 381-7565	(250) 381-7409	rod.bealing@pfla.bc.ca
Beese, Bill	Weyerhaeuser	65 Front St. Nanaimo, BC V9R 5H9	(250) 755-3422	(250) 755-3550	bill.beese@weyerhaeuser.com
Beltzma, Brigitte	Malaspina University-College	Forestry Student Nanaimo, BC			
Blumel, Chantal	Tamarix Forestry Consulting	P.O. Box 482 Ladysmith, BC V9G 1A4	(250) 245-4291		tamarix@seaside.net
Bontkes, Peter	TimberWest	5055 Nanaimo River Rd. Nanaimo, BC V9X 1H3	(250) 754-3206	(250) 754-4122	BontkesP@timberwest.com

<i>Attendee Name</i>	<i>Company Name</i>	<i>Address</i>	<i>Phone</i>	<i>Fax</i>	<i>Email Name</i>
Brewer, Russell	GFC Forest Management Ltd	5287 Manson Ave. Powell River, BC V8A 3P5	(604) 485-4016	(604) 485-4018	gfc@pvcn.org
Bronstein, Ron	Forest Renewal BC	Room #110 - 1180 Ironwood St Campbell River, BC V9W 5P7	(250) 286-7714	(250) 286-7720	Ron.Bronstein@gems3.gov.bc.ca
Brown, Ione	Mill & Timber Products Ltd.	PO Box 106 Port Hardy, BC VON 2P0	(250) 949-6642	(250) 949-3036	ione@island.net
Brown, Jeffery	Western Forest Products	118 - 1334 Island Highway Campbell River, BC V9W 8C9	(250) 286-3767	(250) 286-3375	jbrown@westernforest.com
Buss, Collin	TimberWest	P.O. Box 2500 Campbell River, BC V9W 5C5	(250) 286-7328	(250) 286-7315	busscc@timberwest.com
Cafferata, Bill	Forest Practices Board	Victoria, BC			
Campbell, Trevor	Meyerhaeuser Stillwater Timb	#201 - 7373 Duncan St. Powell River, BC V8A 1W6	(604) 485-3100	(604) 485-9829	
Chan, Sam	USDA FS Pacific NW Resear	3200 SW Jefferson Way Corvallis, Oregon 97331	(541) 750-7270	(541) 750-7329	schan@fs.fed.us
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Connor, Mike	Ministry of Forests	2100 Labieux Road Nanaimo, BC V9T 6E9	(250) 751-7093	(250) 751-7198	mike.connor@gems6.gov.bc.ca
Cooper, Rick	International Forest Products L	#207 - 1100 Island Highway Campbell River, BC V9W 8C6	(250) 286-6684	(250) 286-8335	rick_cooper@interfor.com
Courtin, Paul	BC Forest Service	2100 Labieux Rd. Nanaimo, BC V9T 6E9	(250) 751-7120	(250) 751-7198	Paul.Courtin@gems7.gov.bc.ca
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