

Forests For Tomorrow

Work Plan

2005 – 2006

*Planning, Reforestation and Brushing in
Catastrophic Event-Impacted Management Units*



Ministry of Forests and Range

Forest Practices Branch

November 2005

EXECUTIVE FORWARD

The 2005/06 Work Plan outlines the 2005/06 projects as of October 2005 directed at reducing the damaging impacts of the mountain pine beetle infestation and wildfires of the central interior. The projects are consistent with the goals and objectives of the Forest for Tomorrow Program Management Plan. Project details are presented in the proceeding pages. Over the next two years, project emphasis will shift from information surveys and planning to mitigation and reforestation treatments.

Jim Snetsinger, RPF
Chief Forester

Tim Sheldan, AScT
Assistant Deputy Minister, Operations

Date

Date

TABLE OF CONTENTS

EXECUTIVE FORWARD	2
GOALS AND OBJECTIVES	6
FORESTS FOR TOMORROW 2005/06 WORK PLAN SUMMARY	7
FORESTS FOR TOMORROW OVERALL BUDGET 2005/2006	10
FFT – 2005 – 2006 WORK PLAN TABLES	11
FOREST PRACTICES BRANCH.....	12
FORESTS ANALYSIS & INVENTORY BRANCH.....	17
RESEARCH BRANCH.....	18
TREE IMPROVEMENT BRANCH.....	20
NORTHERN INTERIOR FOREST REGION	21
SOUTHERN INTERIOR REGION.....	24
FOREST ANALYSIS & INVENTORY BRANCH AND INTEGRATED LAND MANAGEMENT BUREAU	27
MINISTRY OF ENVIRONMENT.....	32
APPENDICES	41
APPENDIX I – PWC - FFT 2005-2006 ALLOCATION BY REGION AND MANAGEMENT UNIT	42

GOALS AND OBJECTIVES

Goal:

To address the increasing not satisfactorily restocked (NSR) area of the catastrophically damaged stands that are within the mountain pine beetle infestation and wildfire areas of the central interior, and outside of industry obligations.

Objectives:

1. To speed the recovery of the timber supply, biodiversity and other non-timber forest values in forest management units affected by catastrophic MPB infestations and large fires, through strategically planned reforestation and brushing.
2. To revise silviculture strategies of management units catastrophically impacted by MPB, and survey, assess, and plan the high priority silviculture work not required of licensees.
3. To ensure that licensees restore burnt plantations with free-growing obligations, by funding reforestation according to Section 108 of the *Forest and Range Practices Act*.
4. To make cost effective investments by ensuring that young forests that are established under the program achieve free growing status.
5. To update information for accurate timber supply forecasts and other planning to support informed decision-making.
6. To ensure a sound scientific foundation and informed decision-making through incorporating research, effectiveness evaluations, monitoring and timber supply analysis.

Note: Budget and Project tables subject to quarterly revisions.

FORESTS FOR TOMORROW 2005/06 WORK PLAN SUMMARY

Table 1 – LEAD, PROJECTS, EXPENDITURE

LEAD	RESPONSIBILITY	\$ M
Section 108 Repayments	Forest Practices Branch <ul style="list-style-type: none"> • Administration of FRPA S108 	\$1,500,000
MPB Research	Research Branch <ul style="list-style-type: none"> • MPB and FFT Stewardship Research Strategy • BEC Upgrades • MPB Policy Support • Information Acquisition • Detailed Assessment of MPB Attack in Selected Provenance Trials • Pli Provenance Trials re-measurement • Confirm Pli Mortality Level Estimates 	\$680,000
Inventory and TSR	Forest Analysis and Inventory Branch (FAIB) Provincial MPB analysis <ul style="list-style-type: none"> • Year 1 – High level analysis of timber supply impacts (non spatial) showing general mitigation opportunities & alternative timber supply management strategies. • Year 2 & 3 - Aspatial / spatial analysis of all aspects of current / alternative timber supply management 	\$282,000
	FAIB and ILMB <ul style="list-style-type: none"> • 2003/04 Fire Maps • Map exempted openings (trial basis) • Purchase remote sensing products • Amortization of VRI cut-in Tool Set • Communication of Access to LRDW • Quesnel MPB VRI Strategic Inventory Plan • Beetle Attack Layer in LRDW • MPB Change Detection Inventory Coordinator	\$1,622,500
Monitoring Evaluation	Forest Practices Branch <ul style="list-style-type: none"> • Effectiveness Evaluation and Worker Safety 	\$250,000

LEAD	RESPONSIBILITY	\$ M
Field Program Planning	Forest Practices Branch <ul style="list-style-type: none"> • Program Management Plan / Work Plan • Budget & Program Administration & Coordination • Policy Development • Implementation Support • Annual Report • Seed and Seedling Acquisition • Species Deployment Project • Silviculture Strategy Updates • RESULTS Data Entry • Fertilization Planning 	\$2,879,691
	Tree Improvement Branch <ul style="list-style-type: none"> • Seed Planning and Analysis • Improving Pli (interior lodgepole pine) Seed Utilization 	\$85,000
	NIFR <ul style="list-style-type: none"> • Backlog NSR / Impeded Stand Assessments in impacted units • Reforest bankrupt NRFL • Assessment of rust infected Pli stands in Lakes District • Identify areas eligible for treatment in MPB impacted units • Identify potential stands for fertilization • Tamarack trials • Red/ Green Analysis in Vanderhoof 	\$1,044,000
	SIFR <ul style="list-style-type: none"> • 2003 fire surveys / prescriptions / sowing requests / silviculture plans - Rocky Mountain Forest District, Kootenay Lake, Arrow-Boundary , Kamloops, Cascades , Okanagan-Shuswap, Headwaters, Chilcotin • Type 2 Silviculture Strategy (Quesnel, other districts) • Survey backlog (Quesnel, Williams Lake, 100 Mile) • High density Pli installations • Pine Mushroom Study 	\$2,489,853
	MOE <ul style="list-style-type: none"> • Develop an Ecosystem Restoration Strategy and plan to guide treatments conducted under FFT and federal funding, that links to the Silviculture Strategic process • Develop an Information Collection / Inventory / Monitoring Strategy for for Non-Timber Allocation decisions, eg, fish, wildlife, recreation and water • Design methods of collecting information related to aquatic and wildlife management that will assist in making silviculture decisions • Develop specific guidance on herbicide use for MPB and wildfire affected ecosystems • Conduct several restoration treatments to develop the linkages to reforestation of wildfire areas • Use third party administration for a portion of the MOE program to test application and affectiveness • Provide MOE input to Silviculture Strategies using contractors 	\$1,200,000

LEAD	RESPONSIBILITY	\$ M
PwC	<ul style="list-style-type: none">• FFT Allocation under Investment Schedules See Appendix 1 for details.	\$10,362,250

FORESTS FOR TOMORROW OVERALL BUDGET 2005/2006

Forests For Tomorrow Reforestation Program Budget 05/06									
Expenditure/Program	FSD					OPS	Agencies	CPG	TOTAL
	FPB	FAB	RB	TIB	CFO				
Program Management									
Prog Mngt - FTEs	2	2			0.83	6.0		0.17	
Salary/Benefits	\$ 174,000	\$ 168,000			\$ 70,000	\$ 504,000		\$ 13,600	
Overhead	\$ 20,000	\$ 19,800			\$ 8,700	\$ 21,600		\$ -	
Corp Pool transfers								\$ 220,000	
Staffing subtotal	\$ 193,800	\$ 187,800			\$ 78,700	\$ 525,600		\$ 233,600	\$ 1,219,506
Section 108 repayments	\$1,500,000								
MPB related research			\$ 680,000						
Inventory and TSRs		\$ 282,000							
Monitoring and Evaluation	\$ 250,000								
Field Program Planning									
Forest Practices Branch	\$ 2,879,691								
Tree Improvement				\$ 85,000					
NIFR						\$ 1,044,000			
SIFR						\$ 2,489,853			
FAIB							\$ 1,375,000		
ILMB							\$ 247,500		
MOE							\$ 1,200,000		
Third Party Field Programs	\$1,500,000							\$ 12,386,446	
PWC service Fee								\$ 361,000	
Forests For Tomorrow Total	\$4,823,491	\$ 469,800	\$ 680,000	\$ 85,000	\$ 78,700	\$ 4,059,453	\$2,822,500	\$ 12,981,046	\$ 26,000,000

FFT – 2005 – 2006 WORK PLAN TABLES

FOREST PRACTICES BRANCH

Project No. & Title	Objectives	Deliverable & Output(s)	Estimated Costs	Lead/ Support	Time Frame	
					Start	Finish
Program Planning and Management						
1. Program Management Plan (PMP), and 2005 / 06 Work Plan (WP)	<ol style="list-style-type: none"> 1. Establish a formal, auditable program, endorsed by executive. 2. Produce and maintain program control documentation. 3. Alignment between program implementation staff. 	<ol style="list-style-type: none"> 1. Program Management Plan 2. Work Plan 3. Budget analysis – excel “tool” 	\$20,000	FFT. Officer Operational Planning	Immediate for 05/06 PMP and WP	Complete
2. Program Management Support	1) Assist with the development of briefing materials, workplan updates, TORs, and other priority projects where additional resources are required.		Up to \$95,000 per year depending on need	FFT Officer	August, 2005	Option to renew for 2 more years
2) Contractor tender package development	1. assist with developing contract tender packages to assist in program planning and PMP, Work Plan maintenance.	RFPs and ITQ tender packages	\$3600	FFT Officer	May 2005	March 31, 2006
3) Implementation Contractors – SIFR	1. Startup contracts to initiate the organizing, tendering , and administration of survey contracts of 2003 fires, ensure quality assurance.	Planning, quality assurance, sowing request development	\$75,000	SIFR Regional Planner/ FFT Officer		Complete
4) Communication Strategy	<ol style="list-style-type: none"> 1. Key partners understand program. 2. Timely communication of new developments, policy & updates. 3. Public and other stakeholders know about program. 	<p>Communication materials</p> <p>FFT Website</p>	\$20,000	AI Randall Communication Team	April 2005	Ongoing
5) Provincial aerial spray sys. calibration	Ensure accurate aerial spray applicator calibrations.	Accurate and functional aerial spray applicators.	\$12,000	Jacob Boateng FPB	May 2005	Sept 2005

Project No. & Title	Objectives	Deliverable & Output(s)	Estimated Costs	Lead/ Support	Time Frame	
					Start	Finish
6) Sheep Health Protocol Agreements	Ensure sheep contractors are following protocol agreements and audits guidance. Efficacy monitoring including assessment of free growing.		\$25,000	Jacob Boateng	Apr 2005	Mar 2006
7) Pesticide Mgmt Template	Develop a template to facilitate PMP applications	PMP Template	\$15,000	Jacob Boateng	Aug 2005	Mar 2006
8) Develop performance indicators & targets	<ol style="list-style-type: none"> 1. Measure & communicate program achievements. 2. Establish standard "output" measures. 3. Identify a program key performance indicator KPI tied to the Ministry KOI. 4. Targets established based on Regional planning. 	<ol style="list-style-type: none"> 1. KPIs identified 2. Targets for activities and other measures identified Reports, PMP documentation	\$20,000	Ralph Winter Performance Measurement and Reporting		Complete
9) Species at risk coordination	Establish a species at risk office to function between 5 primary resource ministries. MOFR, MOE, MEM, MAL, LWBC		\$40,000	FFT Officer Corporate Serv. MOE Louise Bowlin		
10) Seedling Acquisition	Funding to cover sowing requests initiated for seedling production to plant the 2003 fires.	Up to 10 M seedlings subject to progress on fire surveys and ability to meet sowing deadlines	\$1,000,000	FFT Officer	September 2005	December 2005
11) Seed Acquisition	Purchase of seed from Operations Division	Seed required for 2006 sowing	\$300,000	FFT Officer	September, 2005	December, 2005
12) FFT 2 nd Quarter Meeting	Mid term program evaluation	2 day agency staff and multi stakeholder meeting	\$25,000	FFT Officer		
13) Desk Top Publishing Services	Preparation of final reports and presentations	As required	\$25,000	FFT Officer		March 31,05

Project No. & Title	Objectives	Deliverable & Output(s)	Estimated Costs	Lead/ Support	Time Frame	
					Start	Finish
Subtotal (Program Planning and Mgmt)			\$1,675,600			
Planning Tools, Field Activities and Reporting						
14) RESULTS a) Updates b) Queries and Reports Re:TOR	<ol style="list-style-type: none"> 1. Provide accurate/updated RESULTS information for planners. 2. Provides material for Annual Report Updates. 3. Provide understanding forest cover, regenerated blocks, potential fill planting/brushing area. 4. Assess accuracy of the RESULTS database information. 	<p>RESULTS updates, accuracy assessment</p> <p>Area disturbed, treated, forest cover; information to guide silviculture activity planning</p>	\$25,000.	FFT Officer Performance Measurement & Reporting		Aug
15) FFT Annual Report	<ol style="list-style-type: none"> 1. Annual report: goals, activities, accomplishments 	Executive/Public Summary Report	\$28,000	Nigel Fletcher Performance Measurement and Reporting		Feb 2006
16) RESULTS Service Centre Data Entry	<p>Complete the loading of forest cover attribute and spatial data that was generated in 2004/2005. Due to a number of key decisions outside the control of this branch a significant additional workload ended up at the Service Centres.</p> <ol style="list-style-type: none"> 1. 		\$570,000	Ralph Winter , Performance Measurement and Reporting		March 31,06
17) Growth and Yield Analysis Financial Analysis	Provide financial and G&Y analysis and consulting support.		\$5,000	Craig Farnden Consulting		March 31, 06
18) Update Type 1 Silviculture Strategies	Provide updated forest level analysis information to strategically guide silviculture investments in 12 units.	An updated incremental silviculture strategy – 12 MUs	\$ \$187,666	Silviculture Strategy Team R. Winter Colene Wood		March 31, 06
19) UNBC Chris	Fertilization Monitoring	Report	\$1500	Ralph Winter		March 31,

Project No. & Title	Objectives	Deliverable & Output(s)	Estimated Costs	Lead/ Support	Time Frame	
					Start	Finish
Hawkins						06
20) Fertilizer Planning	Identifying and quantifying fertilization opportunities in impacted units		\$250,000	Ralph Winter		March 31, 06
21) FFT Fire Maps	Materials provided by Kootenay Lake Forest District		\$6925.00			Complete
22) Vole Population Monitoring UBC Tom Sullivan	Monitor vole populations in 2003 fire areas to identify risk areas for	Report with recommendations to guide reforestation decisions on fire areas	\$25,000	Nigel Fletcher / Nola Daintith		March 31, 05
23) FPB Program Support	Staff travel, interview expenses , office expenses, etc...		50,000			
Subtotal (Planning Tools and Field Activities)			\$1,149,091			
Trials, Adaptive Management, Program Evaluation						
24) Effectiveness Evaluation	<ol style="list-style-type: none"> 1. Coordinate and implement monitoring and evaluation projects related to issues affecting stands killed by mountain pine beetle or wildfire. 2. Monitor and evaluate the effectiveness and efficiency of FFT Program activities and expenditures. 3. Develop the Effectiveness Evaluation Working Group and Terms of Reference. 4. Identify completed, current and proposed monitoring projects. 5. Identify gaps and regional needs. 	<ol style="list-style-type: none"> 1. Complete 2-3 monitoring projects for the 2005 field season. 2. Program Charter. 3. 18 month and 5 year plan. 4. List descriptions and priority ranking of potential future evaluation and monitoring projects. 	\$250,000	FFT Effectiveness Evaluation Team		

Project No. & Title	Objectives	Deliverable & Output(s)	Estimated Costs	Lead/ Support	Time Frame	
					Start	Finish
	6. Develop program charter. 7. Develop 18 month and 5 year plan.	5. Plan for evaluation of FFT Program.				
25) Small Scale salvage Program stewardship Evaluation	FPB Contribution (JV) to RTEB project	Report on stewardship issues arising from the SSS program	\$5,000	Brad Harris	August, 2005	March 31, 2006
26) Species Deployment Project	Provide recommendations for species deployment in FFT reforestation activities	Presentation to Executive and report	\$50,000	Pat Martin Species Deployment Advisory Group		March 31, 2006
Subtotal (Trials, Adaptive Management, Evaluations)			\$305,000			
TOTAL			\$3,129,691			

FORESTS ANALYSIS & INVENTORY BRANCH

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
FAB – 001 Re:TOR	<ol style="list-style-type: none"> 1. Analysis of impacts of harvest uplifts, shelf-life, larger cutblocks. 2. Study and inform mitigation strategies. <p>3 yr project, this represents phase 1. analysis may include 18 TSAs and 5 TFLs.</p>	<p>Phase 1, yr 1:</p> <ol style="list-style-type: none"> 1. High level analysis of the provincial timber supply impacts of the MPB. 2. identify mitigation opportunities, and 3. alternative timber supply mgmt strategies 	<p>\$282,000</p> <p>2 FTEs</p>	Albert Nussbaum	June 2005	Mar. 31, 2006
Total			\$282,000			

RESEARCH BRANCH

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
1. MPB Research Strategy	Develop a strategy for addressing MPB stewardship-related research issues.	Research strategy for MPB stewardship issues.	\$25,000	FFT Research Team/ Gord Nigh	April 1, 2005	July 31, 2005
2. FFT research Strategy	Develop a FFT research strategy	Research strategy for FFT	\$50,000	FFT Research Team/ Gord Nigh		
3. Assessment of MPB attack in selected provenance trials	Assess for potential patterns of genetic resistance.	Report. Identification of MPB resistant provenances.	\$30,000	Alvin Yanchuk	September, 05	March 31,06
Cumulative total			\$315,000			
4. MPB policy support Re:TOR	1. Finalise interior lodgepole pine silviculture publications. 2. Provide ecological and earth sciences support for post-MPB planning.	Advice/Policy support Publications	\$50,000	FFT Research Team/ Gerry Still	April 1, 2005	March 31, 2006
5. Information acquisition access and indexing Re:TOR	1. Acquire relevant information outside the agency, for MOFR, MAL, MOE 2. Create shape files for Interior Research 3. Make available key materials related to forest health, catastrophic disturbance and its consequences	1. Acquire and catalogue reports books, journals and databases. 2. Installation shape files ready to be uploaded to the Map Layer of the LRDW	\$95,000	FFT Research Team/ Susanne Barker M. Blache K. Thomas	May 2/05 May 2/05 Sept 6/05	March 31/05 Aug 26/05 Dec 30/05

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
6. 35 year measurements of the lodgepole pine provenance study Re:TOR	<ol style="list-style-type: none"> 1. Measure 35 year height, diameter, and form on ~153 provenances on 60 sites 2. Assess disease and insect damage on ~153 provenances on 60 sites 	<ol style="list-style-type: none"> 1. Updated transfer functions for PI; 2. Updated response curves for specific PI provenances. 3. Develop response surfaces for disease and pest traits <p>Update seed transfer zones for based on CC models</p>	\$120,000	FFT Research Team/ Alvin Yanchuk Mike Carlson	July 05	Oct 05
7. Confirm Pli Mortality Estimates Re: TOR	Confirm inventory mortality estimates for Pli to better assess extent of damage and plan mitigation treatments.	Ground verified PI mortality estimates and report on project and estimates of error.	\$100,000	Marvin Eng	June	Nov 2005
Total			\$680,000			

TREE IMPROVEMENT BRANCH

Project No. & Title	Objectives	Deliverable & Output(s)	Estimated Costs	Lead/ Support	Time Frame	
					Start	Finish
1. Seed Planning and Analysis	1. Develop FFT Seed/Gene Resource Management Plan. 2. Develop standards, methods, and protocols to support updated seed needs. 3. Develop seed mitigation strategies. SIFR wildfire areas, highest priority	1. Benchmark of land-based seed inventories. 2. Seed needs analysis	\$25,000	FFT Seed Planning Team Brian Barber		
2. Improving Lodgepole Pine Class A Seed Utilization	1. Improve lodgepole pine Class A seed utilization. 2. Develop protocols for increasing seedling production recovery to support projected FFT SEEDLING requirements.	1. Reduced culling and over sowing of Pli seed.	\$60,000	FFT Seed Planning Team Brian Barber		
Totals			\$85,000			

Northern Interior Forest Region

Project No. & Title	Objective(s)	Deliverables	Estimated Cost for 05/06 FTE +/-or \$K	Lead/Support	Time Frame	
					Start	Finish
1. Recreation Sites Rehabilitation	Recover all forest values, safe access and use of recreational sites after the MPB infestation.	Harvesting/planting/vegetation restoration	DVA - \$63,000 DPG - \$10,000 DJA - \$24,000 DNA - \$17,000	DVA, DPG, DJA, DNA, RNI, Licensees	June/05	3 year project
2. Ft. St. James All Nations NRFL Outstanding Silviculture Obligation	Reforestation NSR area left after Ft. St. James all Nations Forest Corporation declared bankruptcy	Planning, survey, site plans, order seedlings	\$250,000	DJA, RNI, Licensees	June/05	4 year project
3. Backlog NSR and Impeded Stands for the PG and Lakes TSA	Office review and update the status of openings harvested in 4 (four) districts prior to 1987 that have NSR status	Information to be used for developing a long term plan for silviculture.	\$20,000	DVA, DJA, DNA; DPG; RNI	June/05	Oct./05
4. MPB epidemic on Age Class 2, 3 and 4 (Pine leading stands)	To identify area for treatment	Surveys and prescriptions for rehabilitation and reforestation	\$60,000	DPG, DNA; DVA, RNI and licensees	June 05	Unknown
5. Backlog NSR and Impeded Stands for the PG and Lakes TSA	To identify potential backlog treatment areas and classify the remaining area with an appropriate forest cover label in the PG and Lakes TSA.	Hectares scheduled for treatment or reclassified	Flying \$20,000	DVA, DJA, DNA; DPG; RNI and licensees	June 05	March 06
Cumulative			\$464,000			

Project No. & Title	Objective(s)	Deliverables	Estimated Cost for 05/06 FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
6. FFT Project Manager	On behalf of the District and TSA Licensees, the Project Manager would take a lead role in implementing all of the FFT projects within the PG and Lakes TSA.	Development of potential projects. Manage treatment contracts. Provide QA and complete the appropriate reporting.	\$80,000	DVA, DJA, DNA; DPG; RNI and licensees	June 05	March 06
7. Assessment of potential Forest Fertilization Stands	Identify blocks for potential forest fertilization in preparation of back filling the expected fall down in AAC from catastrophic MPB damage. Will include young stands as well as mid to late rotation stands.	Forest Fertilization Plan	\$4,000	DVA, DJA, DNA; DPG; RNI and licensees	Unknown	
8. Cone Collection for Lakes TSA (Fdi, BL)	Collect an estimated 10+ years supply (2 to 10 years between viable crops for collection)	If not successful in Year 1 we need to monitor and do cone collection in Year 2.	\$60,000	DNA, RNI, Licensee	Sept. 06	Unknown
9. Tamarack DNA study	Research the possibility to increase the use of tamarack as a component of pine stands	DNA study to characterize population of tamarack in central BC	\$5,000	Marten Geertsema/RNI	June 05	October 05
10. MLA - NSR and MPB Area Mapping Project	To identify area eligible for FFT initiative related treatments	Plot file maps. All digital data used to produce maps Tables of NSR and MPB sites indicating levels of infestation	\$5,000	RNI, MSRM	June 05	Sept. 05
Cumulative			\$618,000			

Project No. & Title	Objective(s)	Deliverables	Estimated Cost for 05/06 FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
11. Rust Infected Backlog Stands In the Lakes TSA	To monitor, assess, prescribe treatments and order seedlings for 6389.4 ha of stands infected by rust. (Estimated 500K for fill/under plants 500K at \$0.24 = \$120,000 and \$166,124 for surveys)	Late fall stock order for 2007 planting. Surveys and prescriptions for rehabilitation and reforestation	\$286,000	DNA, RNI, Licensee	June 05	March 06
12. 2004 Wildfires in the Lakes TSA	To implement surveys contracts on the Nadina Fires of 2003/04.	Provide survey contract administration on about 1100 hectares in the Nadina District	\$30,000	DNA, RNI, Licensee	June 05	March 06
13. Reforesting Small Scale Salvage sites in the Ft. St. James District	Reforesting of approximately 200ha with no silviculture obligations	Site plans, brushing, seedlings	\$110,000	DJA, RNI, Licensee	July 2005	March 06
Total			\$1,044,000			

Southern Interior Region

SIFR, Kamloops, Okanagan/Shuswap Wildfires

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/- \$K	Lead/ Support	Time Frame	
					Start	Finish
1. Survey	Survey and development of treatment prescriptions and fire rehabilitation plans	39,155 ha Surveyed treatment prescriptions, boundaries traversed, data entered into RESULTS.	\$1,565,853	Mike Madill. Rocky Chan	July 2005	March 31, 2006
2. Aerial Reconnaissance	Helicopter time to conduct quality assurance work and conduct reconnaissance work.	Appropriate areas surveyed, Work done to acceptable standards.	\$65,000	Mike Madill	July 2005	March 31, 2006
3. Plotting of Maps	Provide Implementation Contractors with digital and hard copy maps.	Accurate maps.	\$30,000.	Ivan Lister Mike Madill	July 2005	March 31, 2006
4. Implementation Contracts	Implementation contracts being used to deliver the program at the field level.	2005-06 Survey program ie. Treatment Prescriptions. Traversed boundaries. Results measured.	\$182,000	Mike Madill	July 2005	March 31, 2006
5. FTE Travel & Training	Ability of FTE Staff to travel and have related training.	Support of all deliverables.	\$30,000	Al Randall	July 2005	March 31, 2006
6. Contract	Hire a part time staff to manage	Completed contracts &	\$30,000	Al Randall	July 2005	March 31,

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
Administrative Support.	FTE budget and contract Support.	Financial accounting				2005.
7. Rehabilitation of Recreation Sites.	Rehabilitate rec sites where the mature timber has been killed.	Planning Snag falling Planting Vegetation Restoration.	\$185,000	Dan Peterson	July 2005	March 31, 2006
8. Silviculture Strategies Support .	Hiring of a consultant to assist FFT staff wrt the carrying out of Type 1 & 2 Silviculture Strategies .	Blocks safe to plant.	\$60,000.	Rocky Chan	Oct 2005	March 31, 2006
Total SIFR Fire			\$2,230,053			

Special Projects

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
9. MPB Young Pli Study	Projected funded out of FPB allocation.	Identification of potential rehab areas.	\$0.00	Lorraine Maclauchlan	July 2005	March 31, 2006
10. Pine Mushroom Project	Identification and mapping of high value pine mushroom areas.	Report	\$68,000	Bill Chapman	Sept 2005	March 31, 2006
11. Seedling Survival Study	Study seedling survival under different canopy covers	Report	\$14,000.	Walt Klenner	Sept 2005	March 31, 2006
Total SIFR Special Projects			\$82,000			

SIFR - Quesnel, Central Cariboo, 100 Mile House Forests Districts

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/Support	Time Frame	
					Start	Finish
12. Backlog NSR and Impeded Stands	To identify potential backlog treatment areas and classify the remaining area with an appropriate forest cover label in Quesnel TSA.	Hectares scheduled for treatment or reclassified – approximately 8300 ha.	- \$100,000.	DQU/RSI(WL) and district licensees.	June/05	Nov./05
13. Backlog NSR and Impeded Stands for Williams Lake TSA	Identify and survey and outstanding pre 1987 harvested stands that have not been declared FG. Estimated areas is in the range of 3,000 hectares.	Hectares assesses and reclassified.	Aerial \$100,000	DCC&DCH/RSI (WL) and district licensees.	June/05	Nov./05
14. File review of impeded stands	File review to determine FG surveys done on impeded stands. Update RESULTS to reflect surveys. .	Initial review indicates that approximately 75,000 ha are impeded. Significant area has been surveyed but not entered into RESULTS	\$60,000	Noal Daintith DQU/RSI(WL) and district licensees	Nov /05	March/06
Cariboo Total			\$595,000			
Total Program SIFR			\$2,489,853			

**FOREST ANALYSIS & INVENTORY BRANCH
AND INTEGRATED LAND MANAGEMENT BUREAU**

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
- 1. Update VRI / RESULTS files for 2003/2004 fires.	1. Produce reconnaissance maps of 2003/2004 fires for silvicultural surveys 2. Update VRI files	1. External boundary, shape files and maps from Landsat maps showing 2003/2004 fires	\$20,000	FAIB : Rick Baker/Ann Morrison	May 05	July 05
		2. Option A VRI delineation, full VRI/RESULTS attribution shape files for fires from 2004 MPB photos	\$250,000	FAIB: Rick Baker/Bill Strodl	May 05	Mar 06
- 2. Map Small Scale Salvage Blocks: • Burns Lake • Quesnel • Vanderhoof • Williams Lk • Okanagan/ Shuswap		1. Change Detection shape file maps showing SS Blocks 0.25 to 1.0 ha openings for reconnaissance surveys	\$3000 + 0.12 FTE	FAIB: Rick Baker/Ann Morrison	May 05	July 05
		Shape files for VRI and RESULTS	\$275,000 + 0.15 FTE	Rick Baker/ Phil Spencer	July 05	Mar 06

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
- 2. Purchase remote sensing products	1. Analyse gaps for remote sensing products	1. AT control for 68 mapsheets (2004 MPB flying)	\$20,500	ILMB: Paul Quackenbush	June 05	Sept 05
					Sept 05	Feb 06
	2. Identify appropriate products for strategic and tactical needs	2. Ortho photos for 150 mapsheets (2004 MPB flying)	\$27,000	ILMB: Paul Quackenbush	Aug 05	Multi-year
					Aug 05	Multi-year
	3. Annual acquisition and processing of provincial Landsat coverage	3. Provincial coverage for Landsat 5	\$75,000	FAIB: Rick Baker/Ann Morrison/Graeme Weir		
	4. Acquisition of SPOT5 imagery on strategically important operational areas	4. SPOT 5 imagery	\$200,000	ILMB: Malcolm Gray/Ann Morrison/Graeme Weir		
5. Make products available to clients and stakeholders	5. Updated Image warehouse	\$75,000	FAIB: Ann Morrison/Graeme Weir			
6. Landsat purchase for <u>retrospective</u> study on MPB spread	6. Landsat imagery. This will require funding for change detection processing and mapping once the image purchase has been made.	\$295,000	FAIB: Xiaoping Yuan/ Ann Morrison/ Graeme Weir			
	Note: Funding estimate to be made once the project TOR is fleshed out.					





Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
3. Amortization of VRI cut-in Tool Set.	<ol style="list-style-type: none"> Operationalizing data conversion and implementation costs. Amortization costs over 5 years (\$53,000 or 10,600 per year). Amortization begins in fiscal 2006, and is therefore not added to the totals. 	<ol style="list-style-type: none"> VRI Cut-in Tool Set. 	\$137,000	FAIB: Rick Baker/ Doug Say	May 05	Mar 06
4. Communication of Access to Information (LRDW)	Agencies and stakeholders know where to go and how to get information from RESULTS and LRDW	<ol style="list-style-type: none"> Communication Strategy and Plan Delivery of Plan 	\$20,000 \$50,000	FAIB: Angelo Facchin/Al Becker	Jul 05	Oct 05
5. Quesnel MPB VRI Strategic Inventory Plan	<p>Develop a VRI Strategic Inventory Plan for the Quesnel TSA that will:</p> <ul style="list-style-type: none"> include input from a wide range of stakeholders Identify business drivers that require a VRI activity response Develop, enhance and/or modify VRI standards and procedures to respond to MPB-impacted business driver Pilot test and recommend appropriate standards and 	<ol style="list-style-type: none"> Peer reviewed strategic inventory plan for use by Quesnel TSA stakeholders Enhanced public domain VRI standards and field procedures that address MPB inventory needs Accelerated inventory information for next TSR 	<p>Total: \$65 k (VSIP: \$30k, Field: \$10k, Contract: \$25k)</p> <p>Approx. 8 staff will be involved in various aspects throughout project lifecycle. Funding for activities which may be initiated in</p>	<p>FAIB :Laurence Bowdige, Victoria</p> <p>Al Hunter, Quesnel Group</p>	<p>Completion of Bus. Driver list: May 15</p> <p>Completion of Quesnel VSIP: Sept 15</p>	<p>The VSIP will be staged so that some activities may commence in FY 05/06, prior to plan completion, which would require additional funding</p>

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
	<p>procedures for application in the Quesnel TSA</p> <p>Web-enabled products for use by other MPB-impacted units</p>	<p>4. Provision of inventory information for non-timber considerations</p> <p>Alternative funding will be sought for the aerial photography for the VRI (est. \$600,000)</p>	FY05/06			
4055USR07 6. Beetle Attack Layer	<p>Produce a "Beetle Attack Information" Layer in the LRDW that can be viewed using iMAP.</p> <p>Assumptions:</p> <ul style="list-style-type: none"> • Info not to VRI standards, so not loaded into VRI • Loaded from ARCINFO Coverage • Reloads are a complete refresh and infrequent; • "draft" coverage will exist by Sep 05 <p>If Option A (full VRI and RESULTS attribution and shape files) in project No. 1 is chosen then we add \$100,000 to the cumulative total costs.</p>	<ol style="list-style-type: none"> 1. Requirements and Design 2. Data Model 3. Load Routines 4. Layer in the LRDW 5. iMAP theme 	\$10,000	FAIB: Angelo Facchin/ Tim Salkeld	Sept 05	Dec 05

Project No. & Title	Objective(s)	Deliverables	Estimated Cost FTE +/-or \$K	Lead/ Support	Time Frame	
					Start	Finish
4055USR08 7. Project Coordinator/ Manager	Project coordinator to manage the inventory envelop.	<ol style="list-style-type: none"> 1. Coordination within and across related FFT inventory projects 2. TOR for all projects. 3. Ensure communication within and across all FFT inventory projects. 4. Regular reports to the FFT funding group on the inventory envelope. 	\$100,000	FAIB: Rick Baker	July 05	Mar 06
Totals		ILMB	\$247,500			
		FAIB	\$1,375,000			
Total Inventory			\$1,622,500			

Ministry of Environment

Table 2. List of Proposed 2005-06 MOE FFT Projects

LEGEND:  indicates implementation phase  planning projects
 extension projects  information/monitoring projects

Note: Projects are for all affected MOE regions except where otherwise noted.

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
1	Plan 2005-06 projects and manage program	Prioritized and comprehensive program and initialization of projects	1. Complete Project Summary Table and Project Descriptions; 2. Develop RFP and manage contracts for conservation contractors, HQ led Works Projects, and liaise with MOFR led projects; 3. Conduct third party audit and quality assurance (if necessary), and program implementation review	\$127	Colene Wood, Patrick Daigle/ Contractors (Mike Fenger, Janet Gagne)	April 1	March 31
2	Contract Administration	Provide cost effective admin. of contracts and financial efficiencies	Effective contracts	\$55	Corporate Services Division	June 1	March 31

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
3	Stewardship guidance for managing non-timber objectives in MPB and fire affected areas	Provide best information for implementing FFT treatments and protecting the environment and non-timber values when treating MPB and fire affected forests	Produce effective guidance for licenses and restoration groups to use for application to planning and treatments – 1. silviculture activities for MPB and catastrophic fire; 2. herbicide use; 3. other; 4. guidance for stewardship and managing habitat around communities; 5. Managing for specific non-timber resources, eg, Vaccinium; 6. Treatment effectiveness monitoring guidance	\$65	Colene Wood/Sylvia von Schuckmann	June-Nov	March 15
4	Draft Standards for Stewardship Contractors	Examine feasibility of using "stewardship contractors" to implement silviculture and restoration activities	Standards, guidance for LBIP and FFT activities	\$4	Colene Wood/MOFR	Jan	March 15
5	Conservation Contractors (MOE Implementation Contractors)	Lead and manage 4 FFT projects.	1) Develop and manage FFT Works Projects #8, 9, 10, 12, 13, 14T, 15T, 20, 20T, 21T, 22T 2) Liaise with other ministries, PWC and stewardship contractors for other FFT projects	\$44	Colene Wood/Patrick Daigle/Michael Burwash Regional Section Heads	July 1	March 31
Subtotal (Implementation phase)				\$295,000			
6	Watershed-	Initiate process of WFSP for	Planning team initiated,		Conservation	Sept 1	Cancelled

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
	based Fish Sustainability Plan (WFSP)	TSA's that will have a Silviculture Strategy Type 2 analysis.	meetings organized and held, progress to Stage 3 (developing a watershed plan)		Contractors		– two unsuccessful RFPs
7	Silviculture Strategies, Habitat Supply Modeling and Analysis	Provide data analysis and scenario running, in conjunction with analysis of TSR data for Silviculture Strategies analyses	1. Work with MOFR and licensee contractors developing SS; 2. Provide habitat input to develop models and interpret results	\$130	Colene Wood/Fenger & Asso.	July 1	March 31 (on-going 2006-07)
8	Develop MU level Ecosystem Restoration Plans	Develop a framework and model for Ecosystem Restoration Plans related to managing fire and MPB affected MUs, and produce plans for 12 MUs, within three geographic groupings. Intent is to help prioritize reforestation and silviculture work for FFT and restoration work that could be funded by feds, eg, for hydrological functioning, fisheries, SAR, etc, objectives.	Build on work done under FRBC; produce ecosystem restoration plans for geographic combinations of Must that are highest affected by MPB and 2003/04 fires.	\$90	Colene Wood/Forsite Consulting admin/ENAR-ESDE	July 1	March 15
8A	Regional ER Plans	Develop a strategic terrestrial ecosystem restoration plan, focus on dry forest and grassland ecosystems experiencing ingrowth and expansion.	1. Produce a Strategic Terrestrial Restoration Plan for the MOE Okanagan Region that indicates opportunities for investments that meet specified management objectives	\$25	Rob Stewart	Aug 1	March 31

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
Subtotal Planning Projects				\$245,000			
9	Extension on Restoration for Managing Natural Disturbance	Improve knowledge and understanding of restoration techniques that can be conducted with silviculture operations – target audience is licensees, stewardship contractors	<ol style="list-style-type: none"> 1) Develop and deliver workshops on restoration opportunities for MPB and fire affected forests; 2) produce 4 issues of “streamsides” 	\$20	Colene Wood/Forsite Consulting admin/ FORREX	July 1	March 15
Subtotal Extension Projects				\$20,000			
10	Inventory Collection Methods for Habitat Applications	Examine a variety of means for using inventory information, eg, remote sensing & low elevation flights, to determine effects of the MPB on habitat, and assessing silviculture options (ie, make treatment priority decisions and specific site prescriptions for areas with non-timber objectives)	<ol style="list-style-type: none"> 1. Test low level flight technology to provide information to reclassify backlog for habitat values and for other non-timber objectives; 2. Collect ungulate information as baseline for managing effects of MPB through silviculture 	\$87	Colene Wood/ Forsite Consulting admin/ Tom Ethier	July 1	March 15
10A	Inventory Methods for Habitat Applications	Develop a habitat capability model for bighorn sheep	<ol style="list-style-type: none"> 1) Assess the readiness of the habitat following the Okanagan Park fire to support bighorn sheep; 2) Provide silviculture recommendations to maintain habitat within and outside park; and 3) Produce a report recommending applications elsewhere 	\$15	Brian Harris	Aug 1	Dec 31

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
11	Wildlife Tree Assessment	Improve wildlife tree retention in MPB and meet worker safety requirements. Expedite planting and reduce costs and WT losses. Assessments to be linked to stand, site types and time since death of trees reducing single tree assessment needs along roads, skid trails and in areas of under-planting.	4) Model that uses input on site types, time since death, and other data, to forecast danger; 5) Test as Input to Danger Tree rating system.	\$50	Richard Thompson/ MOFR	July 30	March 15
12	Inventory/ Monitoring gap analysis, strategy and framework – habitat, SAR, water and other non-timber values	Produce a strategy that will help rank the need for inventories and monitoring for non-timber values and resources in MPB affected areas – build on inventory and monitoring project for TSR funded under FFT, commenced 04-05	Strategy and framework ready for implementation – RFP early Nov	\$30	Dave Clark/ Forsite Consulting admin	Aug 15	March 15
13	Retention mapping for non-timber objectives – Vanderhoof, Merritt, Quesnel	1. Map conservation emphasis areas for use in Silviculture Strategy modeling data package; 2. Provide landscape level information suitable for planning expedited harvest and silviculture activities associated with conservation.	Summary of existing conservation areas on 1:50,000 maps sheets. Location and rationale for new high conservation value areas. Some field verification of values and boundaries.	\$100	Colene Wood/ Forsite Consulting admin	July 30	March 15

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
14, 14C	Aquatic ecosystem information for Silviculture Strategies	Provide consolidated information on aquatic resources and values for silviculture strategies and salvage planning.	<ol style="list-style-type: none"> 1) Assemble existing data on aquatic ecosystems values where pine forests dominate in order to locate identify high aquatic values at 1:50,000; 2) Identify gaps needing field work; 3) Conduct agreed upon field work in August September to fill gaps, for salmon, bull trout and wetlands areas. 	\$50	Forsite Consulting admin/John Youds	July 30	March 15
15, 15C	Hydrology base line MPB & fire affected drainages	Reduce impacts of MPB and salvage operations on aquatic ecosystems by providing guidance for mitigation effects, eg, areas for planting/under planting that would affect changes in flow on stream crossing and fish passage.	<ol style="list-style-type: none"> 1) Select high priority drainages in conjunction with strategy for managing hydrological functioning; 2) Identify sites to monitor; 3) Establish some initial "test sites"; 4) Produce report recommending additional sites and monitoring regime; 5) Produce guidance on establishing sites and monitoring 	\$50	Forsite Consulting admin/ John Youds	July 30	March 15
16C, 16S	Cariboo Region, Skeena Region - Mountain Caribou	Assess how MPB have affected lichen succession. Gather data on terrestrial lichen and succession in the oldest available unharvested	<ol style="list-style-type: none"> 1) A report on succession, under story development and condition of terrestrial lichen; 	\$31	John Youds/Andy Macdonald	July 30	March 15

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
	Retrospective Terrestrial Forage Study	beetle-killed pine stands. Apply knowledge to caribou strategy. Needed for forecasting habitat supply and decisions on salvage harvest.	2) Proposed standards and guidance for silviculture practices; 3) Suggestions for application elsewhere in Caribou habitat.				
17	Wildlife Tree Assessment	Evaluation of wildlife tree retention current practices to help provide insight into placement of the conservation up-lift and input to Silviculture Strategy.	1) Report on assessing Wildlife Tree retention; 2) Input to Silviculture Strategy habitat Analysis	\$50	Richard Thompson	July 30	March 15
18C	Cariboo Region - Ungulate Winter Range Review	Use the most recent information to assess pine mortality in Ungulate Winter Ranges. Guidance on salvage, under planting and other management options in areas affected within UWRs.	1) Report and 2) maps that identify areas within UWR with high, moderate and low levels of mortality affecting UWR values; 3) Guidance on reforestation and salvage options that conserve UWR values.	\$25	John Youds	July 30	March 15
19B	Caribou habitat use study – Vanderhoof District	Understand Caribou responses as MPB has moved into their winter range. Build on five years baseline of habitat use study.	1) Continue radio telemetry monitoring; 2) Develop partnership with industry and others to understand Caribou response over next 5 years.	\$40	Chris Ritchie	July 30	March 15

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
20T	Encroachment in drier ecosystems – Thompson and Kootenay Regions	Assess encroachment and recommend silviculture treatments and practices to mimic natural disturbance	<ol style="list-style-type: none"> 1) Produce maps showing extent of encroachment that can be managed with silviculture and restoration treatments; 2) Recommend strategies, guidance (eg, alternative stocking standards), information gaps and suggested funding; and 3) Work with Grasslands Conservation Council and forest licensees 	\$40	Forsite Consulting admin	July 30	March 15
21T	Community Watershed Trials	Assess opportunities to establish silviculture trials to manage MPB and fire effects in community watersheds, ie, to manage water quality and quantity	Produce strategy showing suggested trial sites, partnerships and framework for monitoring	\$25	Forsite Consulting admin	Nov 30	March 15
22A	Invasive Plant Treatments – Okanagan Region	Monitor effectiveness of treatments on Tansy Ragwort	Complete project and report on treatment and anticipated effectiveness of treatment, with recommendations for applications elsewhere	\$10	Judy Millar	Aug 1	Nov 30
22T	Invasive Plant Treatments – Thompson Region	Develop invasive plant strategy in partnership with Tolko	<ol style="list-style-type: none"> 1. Produce strategy and recommended actions to mitigate invasive plant spread; and 2. Partner with Tolko 	\$10	Forsite Consulting admin	June 30	March 31

#	Project Title	Objective(s)	Deliverables	Estimated Cost \$K	Lead/Support	Start	Finish
23K	SAR Restoration – tailed frog (Ram-Cabin Fire) – Kootenay Region	Monitor effects of fire on Tailed frog habitat; propose treatments	Report on state of habitat, methods for assessing effects of fire on habitat, recommended treatments, including effectiveness monitoring	\$25	Irene Stewart/ Al Soobontin	Sept 1	Dec 31
24	Restoration – Towne-Dickie Fire, Community Watershed	Restore Community Watershed values; showcase an on-the-ground planting project	Produce prescription; plant area; and propose effectiveness monitoring	\$22	Colene Wood/ Ingrid Davis	Sept 1	Nov 30
Subtotal Information/Monitoring Projects				\$660,000			
Grand Total				\$1,200,000			

APPENDICES

Appendix I – PWC - FFT 2005-2006 Allocation by Region and Management Unit

Management Unit	Location	Investment Schedule #	Licensee	Allocation
<u>Northern Interior Forest Region</u>				
TSA 24	Prince George	NOTSA242464	Aleza Lake Research Forest	\$13,750
		NOTSA242469	Canadian Forest Products Ltd.	\$787,000
TFL 53	Naver	NOTFL532466	Dunkley Lumber Ltd.	\$1,250.00
			Regional Total	\$2,050,750
<u>Southern Interior Forest Region</u>				
TSA 01	Arrow	SOTSA014539	Beliveau Consulting	\$26,000
TSA 02	Boundary	SOTSA024640	Beliveau Consulting	\$6,000
TSA 05	Cranbrook	SOTSA054637	Beliveau Consulting	\$420,000
TSA 07	Golden	SOTSA074644	Louisiana-Pacific Canada Ltd.	\$216,500
TSA 09	Invermere	SOTSA094535	Beliveau Consulting	\$190,000
TSA 11	Kamloops	SOTSA114541	Genesis Restoration Consultants	\$610,000
		SOTSA114520	Integral Forest Management Ltd.	\$434,000
		SOTSA114525	Tolko Industries Ltd.	\$241,500
		SOTSA114616	Weyerhaeuser Company Ltd.	\$95,000
TSA 13	Kootenay Lake	SOTSA134638	Beliveau Consulting	\$376,000
TSA 22	Okanagan	SOTSA224642	Genesis Reforestation Consultants	\$217,500
		SOTSA224528	Louisiana-Pacific Canada Ltd.	\$87,000
		SOTSA224636	Okanagan Innovative Forest Association	\$260,000
		SOTSA224518	Weyerhaeuser Company Ltd.	\$610,000
TSA 23	100 Mile House	SOTSA234533	West Fraser Mills Ltd.	\$512,500
TSA 26	Quesnel	SOTSA264524	C&C Wood Products Ltd.	\$281,000
		SOTSA264521	West Fraser Mills Ltd.	\$937,500
TSA 27	Revelstoke	SOTSA274543	Genesis Reforestation Consultants Ltd.	\$27,500
TSA 29	Williams Lake	SOTSA294532	Alex Fraser Research Forest	\$30,000
		SOTSA294519	West Fraser Mills Ltd.	\$261,000
		SOTSA294527	Yun Ka Whu-ten Holdings Ltd.	\$901,000
TFL 05	Mac-Cariboo	SOTFL054522	West Fraser Mills Ltd.	\$120,000
TFL 15	Inkameep	SOTFL154517	Weyerhaeuser Company Ltd.	\$200,000
TFL 23	Arrow Lakes	SOTFL234529	Pope & Talbot Ltd.	\$89,000
TFL 35	Jamieson Creek	SOTFL354515	Weyerhaeuser Company Ltd.	\$325,000
TFL 52	Bowron-Cottonwood	SOTFL524523	West Fraser Mills Ltd.	\$812,000
TFL 66	Selkirk	SOTFL554545	Louisiana-Pacific Canada Ltd.	\$38,500
			Regional Total	\$8,311,500
			Provincial Total	\$10,362,250