Land Based Investment Strategy

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Quarterly Report

September 30th, 2011

BRITISH COLUMBIA
The Best Place on Earth

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1. Overview

We are pleased to submit our report covering the operations and administration of the Land Based Investment Strategy for this reporting period.

This quarterly report reports out on the fifteen LBIS line of works being funded:

1) Current Reforestation
2) Timber Supply Mitigation
3) Tree Improvement
4) Fish Passage
5) Watershed Management
6) Inventory
7) Visuals
8) Ecosystem Based Management (EBM)
9) Forest and Range Health
10) Invasive Plants
11) Wildfire Planning
12) Ecosystem Restoration
13) Recreation
14) Range
15) Land Base Investment (LBI) development, monitoring, and continuous improvement

The break down of the budget is as follows:

$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
$ 30,359,228	$ 32,458,119	$ 5,235,654	$ 68,053,000

Definitions:

$ Spent and $ Committed	Funding already expended and funding committed to signed contracts
$ Planned Expenditures	Remaining funding not yet committed but planned to be used by the end of the fiscal
$ Not Committed	Funding which as of this reporting period is not being planned to be used

2. Progress (outputs) and Targets (outcomes)

1) Current Reforestation

Allocation: $ 33,408,000

Activities such as basic reforestation of wildfire and mountain pine beetle killed stands (Forests for Tomorrow), assisting in watershed management and reforestation.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
FIRS (Licensee Recipients)	$ 504,818	$ 0	$ 405,174	$ 909,992
FRPA s108 payments	$ 0	$ 0	$ 2,000,000	$ 2,000,000
PINES (FFT Recipients)	$ 6,188,560	$ 0	$ 2,152,713	$ 8,341,273
Regions, Districts and BCTS	$ 5,216,770	$ 2,340,783	$ 581,924	$ 8,139,477
Resource Practices Branch	$ 0	$ 9,090,292	$ 0	$ 9,090,292
Notes: Includes planning, admin program support and contracts				
Sowing	$ 300,000	$ 700,000	$ 0	$ 1,000,000
Redistributed to Fertilization	$0	$ 3,560,000	$ 0	$ 3,560,000
Total SUM	**$ 11,445,349**	**$ 13,732,569**	**$ 4,561,051**	**$ 32,541,034***

*Variation due to transfer of funds to inventory, invasive plants, and visuals.

Outputs:

Activity	Achievement
Deployment of government funded silviculture in basic reforestation of wildfire, MPB killed areas.	13.9 million trees planted. 14,640 ha of Surveys as to land status and necessary treatments in MPB impacted areas. A total of 64068.6 NSR hectares on list to action: 2348.6ha - Confirmed to have district/recipient management 1052.1ha - Resolved (either NSR updated or activity scheduled) 10513.2ha - Flagged for removal 7095.7ha - Reviewed in RESULTS and actioned for updates or district input 43059ha - Remaining to be reviewed and actioned.

Targets:

Target	Achievement
2.68 million m^3 in 65 years 2.6 million tonnes CO2e in 65 years $311 million GDP in 65 years	(13.9m/1200) x 2.9 m^3/ha x 65 = 2.18 million m^3 in 65 years 0.97/m^3 x 2.18m = 2.11 million tonnes CO^2e in 65 years $116/$m^3$ x 2.18m = 253 million GDP in 65 years

2) Timber Supply Mitigation

Allocation: $ 11,850,000

Activities such as fertilization, spacing and backlog brushing will increase the mid-term timber supply (available for harvest in 20 - 30 years).

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Fertilization	$ 2,257,939	$ 4,235,119	$ 0	$ 6,493,058
Notes: Includes some funding ($680k) for fertilizer pre-purchase.				
Spacing and Backlog Brushing	$ 2,301,674	$ 3,055,268	$ 0	$ 5,356,942
Notes: Spacing in Rocky Mountain District reduced due to heavy slash loading and snags. $350,000 already transferred to Forest Health treatments in District.				
Total SUM	**$ 4,559,613**	**$ 7,290,387**	**$ 350,000**	**$ 11,850,000**

Outputs:

Activity	Achievement
Fertilization	Projects are underway to acheive 24,000 ha of fertilization (61% Interior and 39% Coast) in 2011/12.
Juvenile Spacing and Backlog Brushing	Projects approved for 1855 ha of spacing and brushing with additional work planned for the interior and coast this fiscal. Planning is also underway for identification and prescriptions for spacing activities in 2012/13.

Targets:

Target	Achievement
479,000 m^3 in 10 years	Planned fertilization application of 24,000 ha. Expect acheivements posted in RESULTS in Q3 and Q4 reports.
360,000m^3 shifted from future harvest into the mid-term through spacing	Achievements will be posted in RESULTS in Q3 and Q4.

3) Tree Improvement

Allocation: $ 3,500,000

Through Forest Tree Genetic Resource Conservation and Management (GRM) the health, adaptability and productivity of forests are improved through the structure and dynamics of the trees genetic foundation.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Tree Improvement	$ 2,545,000	$ 955,000	$ 0	$ 3,500,000
Total SUM	**$ 2,545,000**	**$ 955,000**	**$ 0**	**$ 3,500,000**

Outputs:

Activity	Achievement
Tree breeding, seed production in orchards, and modifying seed transfer for climate change.	31,417 hectares reforested with select seed

Targets:

Target	Achievement
3.65 million m^3 in 65 years. 3.6 million tonnes CO^2e in 65 years. $423 million GDP in 65 years.	3.65 million m^3 in 65 years.

4) Fish Passage

Allocation: $ 1,500,000

Fish passage failure at road crossings constitutes a major loss of freshwater habitat for both migratory and resident fish populations in BC. Continued investment in the systematic assesssment of closed bottom structures and remediation of high priority sites will contribute to the restoration of fish habitat connectivity in BC and will significantly improve fish populations and aquatic health.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Fish Passage Assessments	$ 397,362	$ 336,638	$ 26,000	$ 760,000
Program Strategy, Co-ordination and Oversight	$ 136,896	$ 63,104	$ 0	$ 200,000
Remediation of fish stream crossings	$ 236,762	$ 303,238	$ 0	$ 540,000
Total SUM	$ 771,020	$ 702,980	$ 26,000	$ 1,500,000

Outputs:

Activity	Achievement
Fish passage assessments	Target for 2011/12 was to perform approximately 5,500 fish stream crossing assessments. Assessment work is currently underway by three BCTS offices: Strait of Georgia, Kootenay, and Okanagan. Initial indication is that the density of fish stream crossings in the specific watersheds is lower than expected which may affect the annual target being acheived.
# of stream structures replaced	2011/12 target was to remediate approximately four priority fish stream crossing suitable for demonstration projects. Two crossing in the Southern Interior (Baldy Creek (TFL 59) and Little Pinaus (TFL 49)) are near completion. Work is also underway to review existing site and crossing designs, complete new designs, and purchase material for 2012/13 installations.
Program Strategy, Co-ordintation and Oversight	Work completed on data base testing, data loading from previous years, GIS analysis and modifications to the data base, and ongoing edits and revisions to the Fish Stream Crossing guidebook. Resources also committed to the documentation of past activities and successes and extension material. Training work is being planned for later in the fiscal.

Targets:

Target	Achievement
5,500 fish stream crossing assessments	Projects currently underway with the majority of assessments expected by the third quarter and the remaining submissions from the coast in the last quarter.
Remediate four priority fish stream crossings suitable for demonstration projects.	Two crossing are being installed creating 25 kilometres of fish habitat and designs will be developed for 2012/13 installations.

5) Watershed Management

Allocation: $ 400,000

The process of creating and implementing plans, programs, and projects to sustain and enhance watershed functions that affect flora, fauna and human communities within a watershed boundary.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Watersheds	$ 355,000	$ 45,000	$0	$ 400,000
Total SUM	**$ 355,000**	**$ 45,000**	**$0**	**$ 400,000**

Outputs:

Activity	Achievement
Assessments in community watersheds and fisheries sensitive watersheds impacted by MPB and wildfire.	Number of assessments in critical watersheds as needed to determine where silviculture treatments can help mitigate risk was not reported.

Targets:

Target	Achievement
20 assesments in 5 TSAs	None Reported

6) Inventory

Allocation: $ 5,450,000

Inventory describes the forests of British Columbia now and how they are changing over time. The information captured is used in modeling habitat, volume, biomass and carbon and will help inform managers when making decisions on sustainable forest management.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Evaluation of Emerging Technologies for Inventory Applications	$ 27,919	$ 42,200	$ 17,081	$ 87,200
Notes: Includes the acquisition and evaluation of high resolution satellite and air-borne imagery for various inventory applications, an evaluation of new photo interpretation tools and processes, MPB-stand model assessments, and statistical support.				
Forest inventory - Ground Sampling and Analyses	$ 251,244	$ 758,220	$ 53,836	$ 1,063,300
Notes: Includes standard VRI audit sampling, NVAF sampling, and ground sample analyses.				
Forest Inventory - Monitoring	$ 39,750	$ 103,590	$ 3,660	$ 147,000
Notes: Includes the development of a young stand monitoring strategy and implementation plan, and remeasurement of 62 previously established monitoring plots in MPB-impacted management units.				
Forest Inventory - Photo Interpretation	$ 1,843,015	$ 1,367,446	$ -22,961	$ 3,187,500
Notes: The total includes air photo acquisition for TFLs 14 and 23, Kamloops TSA, portions of Williams Lake and 100 Mile House TSAs, standard VRI photo interpretation and photo interpretation to support new/ developing inventory methodologies				
Inventory Projection	$ 0	$ 30,000	$ 0	$ 30,000
Notes: Annual projection of the forest inventory database				
Large Scale Digital Photo Acquisition (DSC)	$ 45,649	$ 114,351	$ 0	$ 160,000
Site Productivity - Sampling, Analyses, Mapping	$ 510,223	$ 524,777	$ 0	$ 1,035,000
Notes: Includes SIBEC and PEM sampling and mapping.				
Total SUM	**$ 2,717,800**	**$ 2,940,584**	**$ 51,616**	**$ 5,710,000**

Outputs:

Activity	Achievement
Assessments in community watersheds and fisheries sensitive watersheds impacted by MPB and wildfire.	Sixty percent of lthe and base scheduled to be covered by aerial photography successfully captured. Fire and resulting smoke prevented completion of the project. Completion of this photo acquisition program scheduled for the summer of 2011. Photo interpretation to continue into 2011/12.
Large Scale Digital Photo Acquisition (DCS)	Air photo acquisition in the Northern Interior Region TSAs on schedule, on budget; image processing on schedule, on budget.
Forest Inventory - Photo Interpretation	100% of the planned air photo acquisition completed on budget, on schedule; Strathcona photo interpretation completed on budget, on schedule; Quesnel TSA Landscape Vegetation Inventory (LVI) Photo Interpretation and Audit completed on budget, on schedule; Mid Coast TSA photo interp on budget, on schedule; 100 Mile House TSA photo interp ahead of schedule, on budget; Haida Gwaii TSA, Williams Lake, and Sunshine Coast photo Interpretation and photo interpretation QA on budget and on schedule, but potential risk due to completion due to contractor bankruptcy.
Forest Inventory - Ground Sampling and Analyses	Ground Sampling Plans for TFL 53, Kootenay Lake TSA, and Mackenzie TSA completed on time, under budget; Ground Sampling in TFL 18, TFL 53, and Ft St John TSA completed on schedule, on budget; Ground Sampling in TFL 46 completed and Mackenzie TSA partially completed on schedule, over budget; Prince George Regional NVAF Sampling on schedule, on budget; Inventory Analyses in Dawson Creek, Strathcona, and Quesnel TSAs on schedule, under budget; Revelstoke NVAF Cedar Scale study on schedule, on budget.
Monitoring	Development of a Young Stand Monitoring Plan and Implementation Plan on schedule, on budget; Remeasurement of monitoring samples in 3 MPB-impacted TSAs on schedule, on budget.
Site Productivity Sampling, Analyses, and Mapping	SIBEC sampling in the Williams Lake and Morice TSAs, PEM Sampling in the Arrow and Kootenay Lake TSAs, and the development of a Site Productivity spatial layer all on schedule, on budget.
Large Scale Digital Photo Acquisition (DCS)	Air photo acquisition in the Northern Interior Region TSAs on schedule, on budget.
Evaluation of Emerging Technologies for Inventory Applications	High resolution satellite and air-borne image acquisition and reviews on schedule, on budget; evaluation of new photo interpretation tools and processes on schedule, on budget; MPB Stands Modelling Assessment completed on time, on budget.
Inventory Projection	Projection of forest inventory database scheduled for January 2012

Targets:

Target	Achievement
Inventories on key impacted units are not older than ten years.	Through the collection of appropriate inventory information for a given management unit (traditional inventory and/or the collection of new/alternative inventory information), current information is being collected for impacted and EBM management units as required. Most MPB impacted management units have been provided with relatively current inventory information; those that have not have been postponed to provide for the completion of ongoing projects or will commence when appropriate.
Forecasts of the productivity on existing and future second growth stands are improved.	Sampling for the priority SIBEC units in Williams Lake completed early October. Lakes SIBEC sampling completed. Vanderhoof PEM GIS exercise complete. Site Productivity Spatial Tile ongoing with Cariboo and Prince George management units expected to be completed by end of fiscal. Entire project is on target.
Improved decision making by ministry & licensees for AAC determinations, carbon sequestration estimation, forest management strategies and enhanced ability to focus land based investments to the highest priorities and returns on investment.	Ninety percent of planned inventory activities underway and will be completed as planned. Target will be achieved.

7) Visuals

Allocation: $ 150,000

Ensuring that the levels of Visual Quality desired by society are achieved on all crown land in Scenic Areas in keeping with the concepts and principles of integrated resource management.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Visuals	$ 157,930	$ 0	$ 0	$ 157,930
Notes: $11,000 over expendature authorized by Allan Powlson on August 18th 2011				
Total SUM	**$ 157,930**	$ 0	$ 0	**$ 157,930**

Outputs:

Activity	Achievement
Visuals	100 Mile House: Complete carryover project. Central Cariboo: Update key areas of the district that are out of date to tighten linework. Okanagan-Shuswap: update 1/3 of district to correct line work accuracy issues. Fort St. James: Replace North Road broad polygon with detailed mapping. Vanderhoof: Replace broad scenic area mapping with detailed inventory for Nechako River Corridor. Mid Coast & Kingcome TSAs: Improved visibility mapping. Sunshine Coast: re-inventory Sunshine Coast TS Provincial project to carryout QA on new VLI data and to cut new data to district tiles in preparation for upload to geographic warehouse.

Targets:

Target	Achievement
Visually constrained area is reduced within, Williams Lake, Okanagan-Shushwap, Fort St. James Vanderhoof, Mid-Coast, Kingcome, Sunshine Coast, and 100-mile House management units.	To be reported in Q4.
Measure will be difference in ha between district tile on LRDW March 31, 2011 and after completion of Inventory Work.	To be reported in Q4.

8) Ecosystem-Based Management

Allocation: $ 500,000

An adaptive approach to managing human activities that seeks to ensure the coexistence of healthy, fully functioning ecosystems and human communities. The intent is to maintain those spatial and temporal characteristics and processes of whole ecosystems such that component species and ecological processes can be sustained and human well-being can be improved.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Ecosystem Based Management	$ 152,825	$ 330,175	$ 17,000	$ 500,000
Total SUM	**$ 152,825**	**$ 330,175**	**$ 17,000**	**$ 500,000**

Outputs:

Activity	Achievement
TEM Mapping	By end of 2nd quarter, for Kingcome TSA the following are complete: image preparation, majority field sampling (for 6 LUs), structural stage layer, initial level-R attributing, QA report. By end of 2nd quarter the following are complete for MidCoast TSA (5 LUs): image prep, structural stage layer, QA report. On target for end of fiscal to complete terrestrial ecosystem mapping on 11 landscape units, including 5 in MidCoast TSA and 6 in Kingcome TSA.

9) Forest Health

Allocation: $ 7,170,000

Forest Health, a component of the Silviculture Program, is responsible for the detection and quantification of forest health problems, and, where necessary, the prescription and implementation of protective or suppressive treatments to prevent insect, disease and mammal damage to reforested areas and old growth stands. The forest health program also evaluates the effect of forest practices on forest health as these occasionally increase the risk of damage from insects, diseases and mammals.

Budget:

Program	$ Spent & Completed	$ Planned Expenditure	$ Not Committed	Total
100 Mile House - IBD/IBS surveys	$ 15,000	$ 0	$ 0	$ 15,000
BTK Purchase	$ 1,200,000	$ 0	$ 0	$ 1,200,000
Cariboo Region - AOS	$ 160,000	$ 12,000	$ 0	$ 172,000
Cariboo Region - Monitoring	$ 3,000	$ 0	$ 27,000	$ 30,000
Cariboo Region - TSA FH strategies	$ 0	$ 5,000	$ 0	$ 5,000
Notes: Not identified in June allocation letter - will be corrected in Oct letter.				
Cariboo Region - WSBW	$ 400,000	$ 0	$ 0	$ 400,000
Cascades - IBD/IBS surveys	$ 35,299	$ 19,701	$ 0	$ 55,000

Ft St James - IBD/IBS surveys	$ 10,500	$ 26,500	$ 0	$ 37,000
Notes: $9,280 will be balanced with 3rd Q allocation letter				
Hazard rating	$ 50,000	$ 0	$ 0	$ 50,000
Kamloops - IBD/IBS surveys	$ 45,900	$ 5,100	$ 0	$ 51,000
$9,000 will be balanced with 3rd Q allocation letter.				
Kootenay Boundary Region - AOS	$ 136,673	$ 13,327	$ 0	$ 150,000
Kootenay Boundary Region - Monitoring	$ 0	$ 5,000	$ 0	$ 5,000
Kootenay Boundary Region - TSA FH strategies	$ 0	$ 8,000	$ 0	$ 8,000
Notes: Not identified in June allocation letter - will be corrected in Oct letter.				
Kootenay Lake (Selkirk) - IBD/IBS surveys	$ 36,625	$ 38,375	$ 0	$ 75,000
Notes: $44,800 will be balanced with 3rd Q allocation letter.				
Kootenay Lake (Selkirk) - MPB	$ 154,195	$ 692,031	$ 0	$ 846,226
$146,226 will be balanced with 3rd Q allocation letter from $350k.				
Mackenzie - Monitoring	$ 45,000	$ 5,000	$ 0	$ 50,000
Notes: Delivered by IFS through PwC.				
Nadina - IBD/IBS surveys	$ 2,300	$ 41,700	$ 0	$ 44,000
Notes: $12,500 will be balanced with 3rd Q allocation letter.				
Okanagan - IBD/IBS surveys	$ 25,650	$ 25,650	$ 13,700	$ 65,000
Notes: $38,000 will be balanced with 3rd Q allocation letter.				
Omineca Region - AOS	$ 257,195	$ 0	$ 0	$ 257,195
Omineca Region - Hazard rating	$ 70,000	$ 30,000	$ 0	$ 100,000
Omineca Region - Monitoring	$ 0	$ 15,000	$ 0	$ 15,000
Omineca Region - TSA FH strategies	$ 0	$ 8,000	$ 0	$ 8,000
Notes: Not identified in June allocation letter - will be corrected in Oct letter.				
Prince George - IBD/IBS surveys	$ 0	$ 20,000	$ 0	$ 20,000
Quesnel - IBD/IBS surveys	$ 5,000	$ 0	$ 0	$ 5,000
Rocky Mountain - IBD/IBS surveys	$ 0	$ 100,000	$ 0	$ 100,000
Notes: $76,000 will be balanced with 3rd Q allocation letter.				
Rocky Mountain - MPB	$ 50,292	$ 917,246	$ 0	$ 967,538
Notes: $144,274 will be balanced with 3rd Q allocation letter from $350k				
Skeena Region - AOS	$ 67,173	$ 8,000	$ 45,248	$ 120,421

Notes: Poor weather prevented meeting goals.				
Skeena Region - Monitoring	$ 7,381	$ 3,000	$ 4,619	$ 15,000
Skeena Region - TSA FH strategies	$ 0	$ 8,000	$ 0	$ 8,000
Notes: Not identified in June allocation letter - will be corrected in Oct letter.				
Skeena Stikine - IBD/IBS surveys	$ 6,000	$ 0	$ 0	$ 6,000
Notes: To be completed late October.				
South Coast Region - IBD surveys	$ 0	$ 25,000	$ 0	$ 25,000
TFL 14, Inv & Cbk TSAs - MPB	$ 711,036	$ 0	$ 0	$ 711,036
Notes: Delivered by Tembec.				
Thompson Okanagan Region - AOS	$ 107,108	$ 67,892	$ 0	$ 175,000
Thompson Okanagan Region - DFTM	$ 226,217	$ 123,783	$ 0	$ 350,000
Thompson Okanagan Region - Monitoring	$ 0	$ 5,000	$ 0	$ 5,000
Thompson Okanagan Region - TSA FH strategies	$ 0	$ 15,000	$ 0	$ 15,000
Notes: Not identified in June allocation letter - will be corrected in Oct letter.				
Thompson Okanagan Region - WSBW	$ 500,000	$ 0	$ 0	$ 500,000
Vanderhoof - IBD/IBS surveys	$ 18,000	$ 22,000	$ 0	$ 40,000
Notes: $25,000 will be balanced with 3rd Q allocation letter.				
West Coast Region - AOS	$ 75,000	$ 0	$ 0	$ 75,000
West Coast Region - Monitoring	$ 15,000	$ 0	$ 0	$ 15,000
West Coast Region - Septoria	$ 36,000	$ 0	$ 0	$ 36,000
West Coast Region - TSA FH strategies	$ 0	$ 10,000	$ 0	$ 10,000
Notes: Not identified in June allocation letter - will be corrected in Oct letter.				
Williams Lake - IBD/IBS surveys	$ 50,000	$ 200,000	$ 0	$ 250,000
Notes: $200,000 will be balanced with 3rd Q allocation letter.				
Total SUM	**$ 4,521,544**	**$ 2,475,305**	**$ 78,217**	**$ 7,087,416**

Outputs:

Activity	Achievement
80% of the province is flown with qualified surveyors. 10% quality check, coordinated and streamlined delivery, and provincial forest health conditions reported. Updated training package. Various aerial and ground surveys are conducted as needed. Initial estimate of 20 investigations per year province-wide. Forest Health Strategies updated to address the top 5 forest health pests on second growth stands. 48,000 ha of spruce budworm sprayed. Areas with trees infested with spruce and Douglas-fir beetle are identified and mapped for treatment. Identified areas are treated by small scale salvage program and other licensees. Critical mountain pine beetle infestation centres are identified and treated. 8,500 ha of Douglas-fir Tussock moth treated. Btk purchase for 2011/12. 10 Early stand growth assessments: Prince George, Lakes, Quesnel, Williams Lake, Morice, Merritt, Okanagan, 100 Mile House, Kamloops, Arrow, Cranbrook, Invermere, Coast Region. Hard pine stem rust hazard mapping completed for Vanderhoof and Nadina forest districts. Determination of impact to hybrid poplars and native black cottonwood from this non-native disease. Gypsy moth populations in Richmond and Harrison Hot Springs are eliminated. 57,763 ha of defoliators treated (50,763 ha Western Spruce Budworm; 7,282 Douglas-fir Tussock moth). 80% of province flown for aerial overview surveys. Critical MPB centres indentified in DSK/DRM/ Tembec TFL. Treatments planned or completed. Btk purchase needed is currently estimated for 116,000 ha.	To be reported in Q4.

Targets:

Target	Achievement
Protected standing timber inventory through strategic information available for cost effective decision making in harvesting and treatments. Monitored impacts of climate change as indicated by changes in pest activity. Informed program planning, decision making, secure and accessible data and informed resource professionals. Minimized risk of forest health losses with early diagnosis and best management practices. Minimized risk of forest health losses through best management practices. All new or extended Forest stewardship plans have stocking standards adjusted to reflect forest health conditions. 1 million m^3 of mid-term timber supply saved. Spread of spruce and Douglas-fir beetle maintained below critical spread thresholds in units with critical mid-term timber supply issues. Spread of mountain pine beetle slowed or halted and outbreaks prevented. Opportunity to carry out orderly harvesting and maximize stumpage revenue is maintained. Urban Douglas-fir protected and public health issues (asthma and severe allergies) avoided. Provides updated inventory label added to mid-term TSR assumptions and guides strategic planning for FFT and incremental silviculture. Forest management in Vanderhoof and Nadina informed by hard pine hazard ratings. Delineation of disease spread and host susceptibility. Protection of forests, farms and Richmond residents' trees and continued access to international forest product markets with no quarantine.	To be reported in Q4.

10) Invasive Plants

Allocation: $ 600,000

Invasive plants threaten healthy forest and rangeland ecosystems by displacing native species and disrupting natural ecosystem processes. They can also seriously affect wildlife habitat and forage availability, forest regeneration, water quality, and natural disturbance regimes. The Invasive Plant Program works collaboratively and often in partnership with other land management agencies, First Nations, and regional weed committees to detect and eradicate new incursions, contain the spread of priority invasive plant populations through treatment programs, and reduce existing impacts through best management practices and applied biological control activities.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Invasive Plants	$ 600,000	$ 0	$ 0	$ 600,000
Invasive Plants Extra Allocation	$ 354,000	$ 46,000	$ 0	$ 400,000
Notes: Projects include $404,000 STOB 77 partnership grants with regional weed commiittees.				
Total SUM	**$ 954,000**	**$ 46,000**	**$ 0**	**$ 1,000,000**

Outputs:

Activity	Achievement
Invasive plant EDRR	BC EDRR plan implemented on 7 species; No new invasive plant species established in BC.
Invasive plant Inventory	Inventory and incursion surveys completed in a minimum of 3 drainages;
Invasive plant surveys/treatments	2000 priority invasive plant sites inspected and/or treated; 10% of critical sites controlled or eradicated.
Multi-stakeholder partnerships maintained	16 stakeholder groups/local governments engaged in pooled resource, partnership delivery.

Targets:

Target	Achievement
Provincial containment lines for 2 priority invasive plant species maintained	Marsh plume thistle expansion in the Cariboo discovered. Further surveys ongoing to determine extent of expansion.
- No new invasive plant species establishment on Crown land. - Inventory completed in at least 3 drainages. - 2200 priority sites inspected and treated . - No establishment of new invasive plant species due to fire control activities.	- No new invasive plant species detected and confirmed on Crown land to date this year. - Inventories completed in 4 drainages where baselines lacking. - 1241 critical invasive plant sites treated and entered in the the IAPP application so far - target wil be achieved. - Inventory and monitoring of invasive plant sites within selected 2010 wildlifes in the Cariboo Fire Centre area completed. No significant expansions of pre-fire exisitng invasive plant sites and limited introductions of new species. - Regional strategies in development in several areas.

11) Wildfire Planning

Allocation: $ 85,000

Planning to: reduce fire hazards and risks (particularly in and around communities and other high-value areas); carefully use controlled burning where the benefits are clearly defined and the risks can be cost-effectively managed; monitor and manage, rather than suppress, fires that are of minimal risk to communities, infrastructure or resource values; implement land, natural resource and community planning that incorporates management of wildland fire at all appropriate scales; and develop a high level of public awareness and support for wildland fire management.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Wildland fire Planning	$ 24,340	$ 0	$ 60,660	$ 85,000
Total SUM	**$ 24,340**	**$ 0**	**$ 60,660**	**$ 85,000**

Outputs:

Activity	Achievement
Development of a landscape fire hazard and risk analysis methodology. Update algorithm for fuel types in B.C. Development of a protocol for the integration of fire management, including hazard and risk analysis, into other resource management activities.	Wildfire risk Analysis system to Identify Forest Stands and forest investments that are at risk to unwanted wildfire.

Targets:

Target	Achievement
Enhanced Protection of silvicultural Investments and other values identified within Fire Management Plans, by planning and identifying fire hazard on the landscape.	Focus on planning to minimize fire hazard risk on forest resources and investments

12) Ecosystem Restoration

Allocation: $ 750,000

The process of assisting the recovery of resilience and adaptive capacity of ecosystems that have been degraded, damaged, or destroyed. Restoration focuses on establishing the composition, structure, pattern, and ecological processes necessary to make terrestrial and aquatic ecosystems sustainable, resilient, and healthy under current and future conditions. British Columbia's current priority is the restoration of ingrown open forests and native grassland ecosystems to create landscapes more resilient to climate change while providing sustainable goods and services.

Additional Allocation: $281,260
Additional funding to address wildfire fuel hazard abatement issue in RMFD.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Ecosystem Restoration	$ 171,001	$ 578,999	$ 0	$ 750,000
ER - RMD Hazard abatement	$ 0	$ 281,620	$ 0	$ 281,620
Total SUM	**$ 171,001**	**$ 860,619**	**$ 0**	**$ 1,031,620**

Outputs:

Activity	Achievement
Strategic Plans	4 are currently completed, updated or in the process of being updated.
Mechanized treatement	Currently 84 ha have been treated mechanically.
Prescribed Fire	Currently, 450 ha of prescribed fire has been applied.

Targets:

Target	Achievement
Spacing 2,000 ha of over-dense, stagnated stands improves forest health and consequently improves its resiliency to climate change while also improving wildlife habitat and harvest values.	Direct funding for spacing and thinning ER treatments will have occurred on 84 ha of area at this reporting period. (currently just entering most contracts). The ER funding has also leveraged other sources that are contributing work towards achieving the over target of the program, not yet included in these totals. It is anticipated ER will achieve its target.
Applying 2,000 ha of prescribed fire will maintain and restore FN traditional plants, biodiversity and increase forage quality and quantity for wildlife and livestock.	Prescribed fire has occurred on 450 ha thus far. The ER funding has also leveraged other sources that are contributing work towards achieving the over target of the program, not yet included in these totals. It is anticipated that ER will achieve this target by the end of fiscal.
Reducing excessive fuel loads through spacing and prescribed fire on the total of 6,000 ha helps to mitigate catastrophic wildfire risks, maintain water supplies of community watersheds and protect air quality.	Priority areas are continuing to be selected for treatment through the ER Steering Committees. It is anticipated planning, and treatment targets will be achieved.

13) Recreation

Allocation: $ 750,000

Conduct maintenance and rehabilitation efforts to extend the life of existing recreation sites and trails; develop new sites and trails where the opportunity, demand and community support is high; lower operating costs and increase service capacity and the quality of outdoor recreation experiences through effective partnerships.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Recreation Site and Trail Maintenance and Repair	$ 400,000	$ 350,000	$ 0	$ 750,000
Total SUM	**$ 400,000**	$ 350,000	**$ 0**	$ 750,000

Outputs:

Activity	Achievement
Recreation Site/Trail Maintenance and Repair	MPB Rec Site Rehab-6 Sites; MPB Rec Site Planting-7 Sites; Rec Site Maintenance-250 sites; Rec Site Repair-100 sites; Rec Trail Maintenance -300 km; Rec Trail Repair -350 km.

Targets:

Target	Achievement
Maintain, rehabilitate and repair 790 recreation sites and 490 trails.	Leverage 198 partnership agreements in place to manage, maintain and repair recreation sites and trails essential to communities

14) Range

Allocation: $500,000

Program activities focus on ensuring healthy and sustainably managed rangelands which are capable of supporting the interests and activities of clients, stakeholders and partners.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
Range	$ 0	$ 500,000	$ 0	$ 500,000
Notes: Funding is being leveraged on several projects through cost share. Value is being determined.				
Total SUM	$ 0	$ 500,000	**$ 0**	$ 500,000

Outputs:

Activity	Achievement
Fences, seeding, and water-source maintenance/ creation	To be reported in Q4.

Targets:

Target	Achievement
Fences, seeding, and water-source maintenance/ creation	To be reported in Q4.

15) LBI (Land Based Investment) Development

Allocation: $ 1,440,000

The Resource Practices Branch is the lead agency to deploy and communicate the Land Based Investment. The funds are used to gather strategic information to support decision making, improve forecasting, reporting out, performance measure and program support.

Budget:

Program	$ Spent & Committed	$ Planned Expenditure	$ Not Committed	Total
LBIS Delivery	$ 450,000	$ 2,689	$ 0	$ 452,689
LBIS Strategy and Planning	$ 369,007	$ 618,305	$ 0	$ 987,311
Total SUM	$ 819,007	$ 620,994	**$ 0**	$ 1,440,000

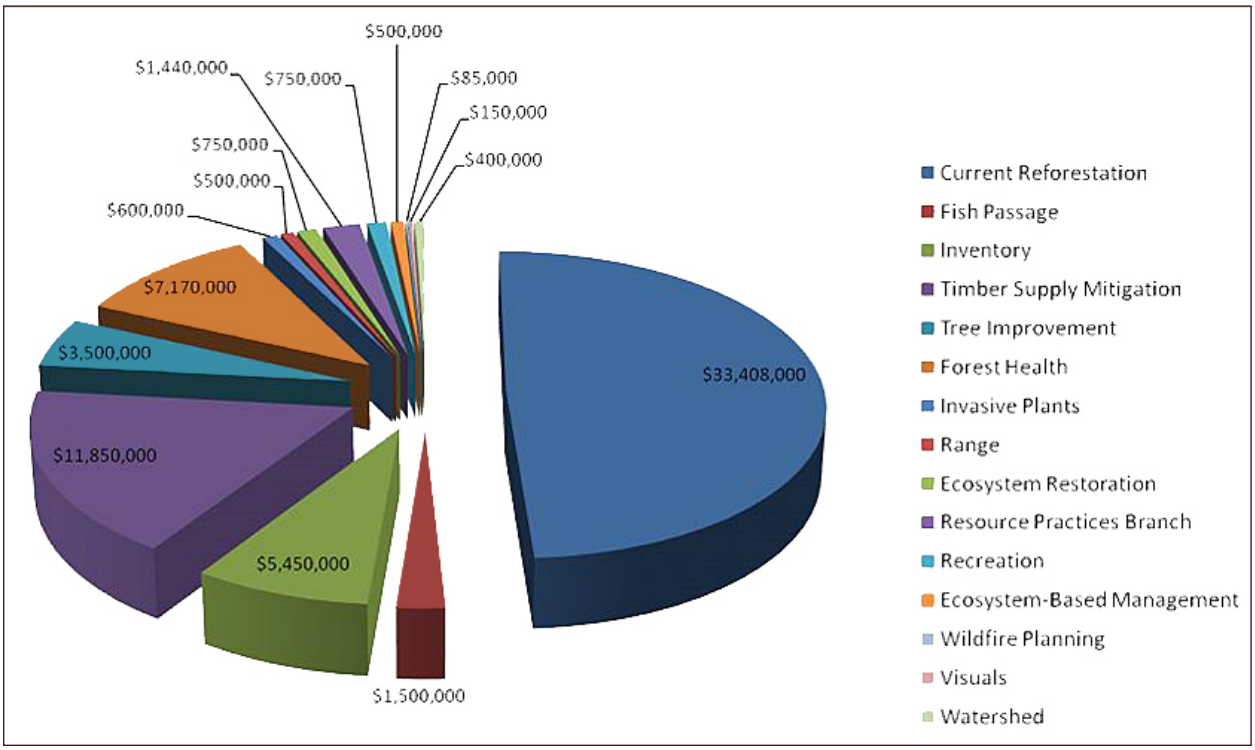
Outputs:

Activity	Achievement
Funding for RPB for strategic planning, performance measure development, reporting and program support	Develop, refine and monitor the strategic plan, provide support for field operations, creation of standards and development best management practices.

Targets:

Target	Achievement
Investment strategy delivered. Strategic information to support decision making and improve mid-term timber supply forecasting is completed in Lakes, Quesnel, Prince George and Williams Lake TSAs.	GIS and Program Support Standards Development Assessments Communication Training Materials

3. Distribution of Funds



Acronyms

APHIS – Animal and Plant Health Inspection Service

BCTS – British Columbia Timber Sales

CFIA – Canadian Food Inspection Agency

CWPP – Community Wildfire Protection Plans

EDRR - Early Detection and Rapid Response

EBM - Ecosystem-Based Management

FAIB – Forest Analysis and Inventory Branch

FD – Forest District

FIA – Forest Investment Account

FFT – Forests for Tomorrow

FH – Forest Health

FN – First Nations

GRM – Genetic Resource Management

ha – hectares

IAPP - Invasive Alien Plant Program

IP – Invasive Plant

L1, L2 ... – Level 1, Level 2 ...

LBIP – Land Based Investment Program

LBIS – Land Based Investment Strategy

m – meter

M – Million

MPB – Mountain Pine Beetle

N/A – Not applicable

NSR – Not Sufficiently Restocked

NVAF - Net Volume Adjustment Factor

PwC – PricewaterhouseCoopers

QA – Quality Assurance

RPB - Resources Practice Branch

RESULTS – Reporting Silviculture Updates and Land status Tracking System

SELES - Spatially Explicit Landscape Event Simulator

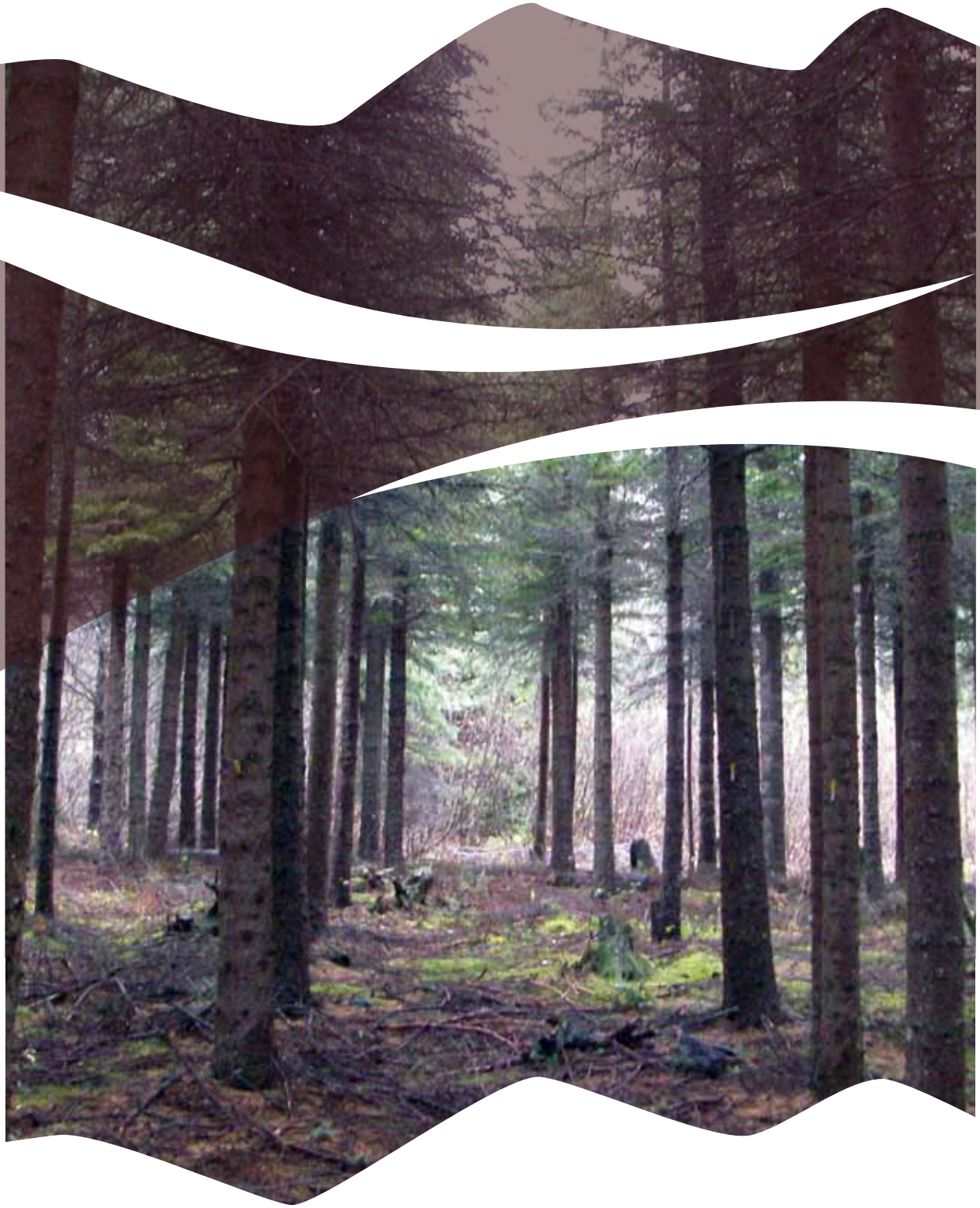
SIBEC - Site Index estimates by Site Series

SLRD – Strategic Landscape Reserve Design

TBA – To be announced

TEM - Terrestrial Ecosystem Mapping

TSA – Timber Supply Area

USDA – United States Department of Agriculture

VRI – Vegetation Resource Inventory