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April 3, 2007

File: 1070-20/MPB

Cliff: 105589

To: Please see attached list

Re: 2007/08 Mountain Pine Beetle Inventory and Monitoring Project Plan

We are pleased to approve the 2007/08 Mountain Pine Beetle Inventory and Monitoring Project Plan. This plan is the result of a collaborative planning effort between the Ministry of Forests and Range, Ministry of Environment, Integrated Land Management Bureau and the Council of Forest Industries. The priority inventory and monitoring projects outlined in this plan reflect a balanced approach that will provide information in direct support of several goals and objectives articulated in the MPB Action Plan, the Forests for Tomorrow Program Plan and the MPB Emergency Response Canada-B.C. Implementation Strategy. These projects are being funded through the third year of the Federal MPB funding source.



There are 23 projects covering both timber and non-timber inventory and monitoring needs from image acquisition to establishment of monitoring plots to assess short to long term impacts of MPB, as briefly outlined in the following table:

Page 1 of 4

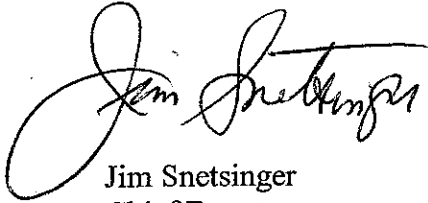
April 3, 2007

Forest Projects	Environment Projects
<p><b><i>MPB attack: current location and extent</i></b></p> <ul style="list-style-type: none"> <li>• Air photo acquisition</li> <li>• MPB mapping from orthophotos (current snapshot of grey and red attack)</li> </ul> <p><b><i>MPB attack: time since death and shelf life</i></b></p> <ul style="list-style-type: none"> <li>• Year of MPB attack mapping (retro look)</li> <li>• Shelf life</li> </ul> <p><b><i>MPB attack: predictive model</i></b></p> <ul style="list-style-type: none"> <li>• MPB cumulative pine mortality map calibration</li> </ul> <p><b><i>Current and future volume and value – timber supply analysis</i></b></p> <ul style="list-style-type: none"> <li>• Harvest mapping change detection</li> <li>• Harvest monitoring</li> <li>• Enhanced timber supply review</li> </ul> <p><b><i>Current and future volume and value – VRI/sampling</i></b></p> <ul style="list-style-type: none"> <li>• Quesnel TSA VRI phase 1 enhanced pilot</li> <li>• Sampling ‘rethink’ (of ground sampling procedures)</li> <li>• Burns Lake VRI sampling methods</li> <li>• Kamloops TSA change detection</li> <li>• Okanagan TSA change detection</li> <li>• MPB calibration sampling</li> <li>• Merritt TSA NVAF</li> <li>• MPB understory</li> <li>• Capacity development</li> </ul> <p><b><i>Current and future volume and value-site productivity</i></b></p> <ul style="list-style-type: none"> <li>• Site productivity (SIBEC/PEM) for TSAs in Cariboo</li> </ul>	<p><b><i>Non-timber</i></b></p> <ul style="list-style-type: none"> <li>• Hydrologic and aquatic monitoring</li> <li>• Public safety (air quality)</li> <li>• Watershed and fish sensitivity</li> <li>• Terrestrial habitat supply Access (including population inventories)</li> </ul>

April 3, 2007

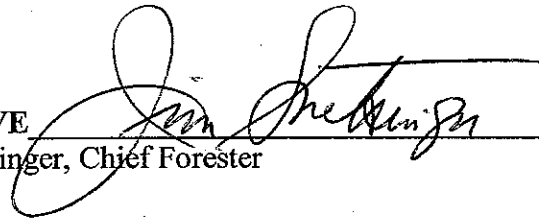
These projects are a significant undertaking and will be conducted through the collaboration of Victoria and regional staff in MOFR, MOE and ILMB. There is still a great deal of work to accomplish however we are confident that this 2007/08 project plan provides the direction needed to undertake identified high priority projects to meet our goals and objectives for MPB impacted areas of the province.


Yours truly,



Jim Snetsinger  
Chief Forester  
Ministry of Forest and Range

Attachments - *List of Addressees and Project Plan*

**APPROVE**  **Date:** April 3/07  
Jim Snetsinger, Chief Forester

**APPROVE**  **Date:** April 3/07  
Melanie Boyce, Director, FAIB  
Ministry of Forest and Range

April 3, 2007

**List of Addressees**

Dave Bodak, MOFR, Forest Investment Account  
Laurence Bowdige, MOFR, Forest Analysis and Inventory Branch  
Rick Brand, MOFR, Forest Investment Account  
Ian Brown, Price Waterhouse Coopers, Forest Investment Account  
Tony Cheong, MOE  
Dave Clark, MOE  
Nola Daintith, MOFR, Southern Interior Region, Forests for Tomorrow  
Rod DeBoice, MOFR, MPB Emergency Response Division  
Tim Ebata, MOFR, Forest Practices Branch  
Nigel Fletcher, MOFR, Forest Practices Branch  
Susan Hoyles, MOFR, Northern Interior Forest Region, Forests for Tomorrow  
Gary Johansen, MOFR, Forest Analysis and Inventory Branch  
Insha Khan, Integrated Land Management Bureau  
Carolyn Krawchuk, MOFR, Northern Interior Forest Region  
Ed Korpela, MOFR, Protection Branch  
Steve Kozuki, Council of Forest Industries  
Kelly Osbourne, MOFR, Forest Practices Branch, Forests for Tomorrow  
John McClarnon, MOFR, Forest Practices Branch, Forests for Tomorrow  
Matt Makar, MOFR, Southern Interior Region  
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Gordon Nigh, MOFR, Research Branch  
Albert Nussbaum, MOFR, Forest Analysis and Inventory Branch  
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Will Smith, MOFR, Forest Analysis and Inventory Branch  
Mike Stalberg, MOE  
Art Tautz, MOE  
Jon Vivian, MOFR, Forest Analysis and Inventory Branch  
Ralph Winter, MOFR, Forest Practices Branch, Forests for Tomorrow  
Colene Wood, MOFR, MPB Emergency Response Division



FOREST ANALYSIS AND INVENTORY BRANCH

# **MPB Inventory & Monitoring**

## **2007 / 2008 Project Plan:**

### **Project Descriptions and Costs**

British Columbia Ministry of Forests & Range  
727 Fisgard St.  
Victoria, B.C.  
V8W 9C2

**April 3, 2007**

## MPB Inventory and Monitoring 07/08 Project Plan

### Executive summary

This draft Project Plan identifies high priority forest and environmental inventory and monitoring projects and activities that are aimed at providing up-to-date timber and non-timber related information for resource managers, given the rapidly changing dynamics of the forest as a result of the MPB infestation. As well, it provides the basis for determining future volume and value data requirements in support of economic and environmental sustainability, a critical objective of the *Mountain Pine Beetle Action Plan 2006-2011*.

The table below summarizes the draft Project Plan by listing the priority projects by theme:

<b>Forest Projects</b>	<b>Environment Projects</b>
<p><i>MPB attack: current location and extent</i></p> <ul style="list-style-type: none"> <li>• Air photo acquisition</li> <li>• MPB mapping from orthophotos (current snapshot of grey and red attack)</li> </ul> <p><i>MPB attack: time since death and shelf life</i></p> <ul style="list-style-type: none"> <li>• Year of MPB attack mapping (retro look)</li> <li>• Shelf life</li> </ul> <p><i>MPB attack: predictive model</i></p> <ul style="list-style-type: none"> <li>• MPB cumulative pine mortality map calibration</li> </ul> <p><i>Current and future volume and value – timber supply analysis</i></p> <ul style="list-style-type: none"> <li>• Harvest mapping change detection</li> <li>• Harvest monitoring</li> <li>• Enhanced timber supply review</li> </ul> <p><i>Current and future volume and value – VRI/sampling</i></p> <ul style="list-style-type: none"> <li>• Quesnel TSA VRI phase 1 enhanced pilot</li> <li>• Sampling ‘rethink’ (of ground sampling procedures)</li> <li>• Burns Lake VRI sampling methods</li> <li>• Kamloops TSA change detection</li> <li>• Okanagan TSA change detection</li> <li>• MPB calibration sampling</li> <li>• Merritt TSA NVAF</li> <li>• MPB understory</li> <li>• Capacity development</li> </ul> <p><i>Current and future volume and value-site productivity</i></p> <ul style="list-style-type: none"> <li>• Site productivity (SIBEC/PEM) for TSAs in Cariboo</li> </ul>	<p><i>Non-timber</i></p> <ul style="list-style-type: none"> <li>• Hydrologic and aquatic monitoring</li> <li>• Public safety (air quality)</li> <li>• Watershed and fish sensitivity</li> <li>• Terrestrial habitat supply Access (including population inventories)</li> </ul>

## **Business Needs**

In meeting the objectives of the *MPB Action Plan* and *FFT Program Management Plan*, many land and resource use decisions will be made that require information about the forest and environmental resource values across the land base. Inventory and monitoring information will better position government, industry and communities (including First Nations) in identifying economic, social and environmental opportunities and balancing points. In addition, many of the projects will provide better baseline information in MPB attacked areas that are needed for ongoing timber supply analyses to support of allowable annual cut determinations and the ongoing management of non-timber forest resources.

Inventory information support harvest level decisions and help to direct salvage harvesting activities to mitigate mid-term timber supply impacts as well as support resource management decisions that effect forest and environmental resource values for the benefit of local communities, First Nations and the province. This Project Plan includes activities such as aerial photography, remote sensing to assess MPB death and spread, shelf life, site productivity estimates and growth and yield that collectively help better predict future volumes and provide the information support that allows short-term harvest efforts to be focused in a manner that can mitigate impacts on mid-term timber supply impacts. Environmental inventory and monitoring projects cover hydrology and aquatic ecosystems, terrestrial habitats, parks, access and public health that are key concerns stemming from the MPB epidemic and salvage efforts.

## **Planning process and methods for ranking projects**

To apply rigour to identifying the high priority projects and activities that will meet our business needs, a two-day workshop was held in January 2007 with 32 participants from across the province, including industry, MOE, and MOFR (inventory, research, silviculture, forest health, timber supply analysis). As a result, a list of the most suitable and critical forest and environmental inventory and monitoring projects were identified and validated, and a project ranking process was developed and then applied to determine the priorities and estimated costs found in this Project Plan. Projects have been organized by their relative priority. All of the projects strategically link to, and help fulfill, objectives and key actions in the provincial MPB Action Plan and the Forests for Tomorrow (FFT) Program Management Plan.

The key features of the project ranking process are:

- Validation: assess all proposed projects and determine if they should be funded according to a set of agreed to selection criteria;
- 'Chunking': assess the minimum amount ('chunk' or 'level') needed to effectively proceed with each project in an operationally sensible manner, and then incrementally add other project components ('chunks' or 'levels') that would enable the project to proceed in a more optimal manner; and then
- Rank (prioritize) all projects.

## Results and Recommendations

Many worthy projects were 'paused' and screened out at this time (and are not listed in this Project Plan) during the workshop in order to provide focus on priority projects, given limited funding, and to also allow time for further strategy work to take place that can provide needed context for 'paused' projects for consideration in 2008/09.

The forests projects were ranked relative to each other as were the environment projects but the workshop did not rank forests and environment projects together. The general view at the workshop was that a general allocation decision should be made for forests and environment projects by decision-makers since staff at workshop found it very difficult to objectively rank between timber and non-timber projects. Thus, an arbitrary "default" process was adopted for this draft Project Plan which interweaves MOFR and MOE projects as follows: MOFR Rank 1 Project, MOE Rank 1 Project, MOFR Rank 2 Project, MOE Rank 2 Project, and so on.

At this time, \$3 million (\$2.8 M from federal MPB funds and \$0.2 M from FFT) appear available for MPB Inventory and Monitoring projects. Since the original budget estimate prior to recent FFT funding pressures was \$4.5 M, and given the potential may exist to fund additional projects, each project, and project "level" (or 'chunk'), are prioritized. The first project "level 1" is the minimum viable amount that makes operational sense to proceed with the project at all. Other "levels" improve the project to the level that was often originally intended in order to better achieve needed project deliverables. The first priority project is air photo acquisition given that this is a corporate reporting obligation with federal MPB funding. After that, priority MOE and MOFR projects are listed in alternate order since a direct comparison and ranking of timber and non-timber related projects was not possible. The intent is to fund all 'level 1' projects by priority first, then level 2 projects by priority, then level 3 and so on to match available funding (MOE priority ranking differs slightly; see table footnote).

# Project Descriptions and Costs for 2007/08

## \*Description of Priority Projects

Priority (page in workbook)	Project Name and Description	Project Deliverables	Geographic Extent	Minimum Budget (level 1)	Needed Budget (all levels)
1  (p.48,#28)	<p><b>Air photo acquisition</b>            Expected to be:  <u>Level 1:</u> \$800 000            -NIFR: Nadina block (100 map sheets), Prince George east (50)            -SIFR: Okanagan (76), Horsefly-Williams Lake- Quesnel (29), Headwaters (28), 100 Mile House (25),  <u>Level 2:</u> \$0  <u>Level 3:</u> \$600 000            - Peace area (200 map sheets)</p>	300 map sheets- level 1 (corporate performance measure for FMPB funding)	Key MPB affected areas with poor coverage	\$800 000	\$1400000
2  (p.47,#1) (p.48,#9) (p.47,#2)  (p.47 #3) (p.47,#4)  (p.47,#12) (p.48,#9)  (p.47,#1)	<p><b>Hydrologic and aquatic monitoring and analysis</b>            Note: none of the funds involve capital costs; these costs would be secured from other funding envelopes  <u>Level 1:</u> \$205 000            -Monitoring of new hydrometric stations – \$150 000            -Monitoring new snow survey stations - \$40 000            -Low flow river system sensitivity analysis - \$15 000  <u>Level 2:</u> \$50 000            - Monitoring and analysis of temperature sensitive fish streams and lakes  <u>Level 3:</u> \$50 000 – to improve analysis and modeling            - Groundwater monitoring -\$15 000            - Monitoring of additional snow survey stations -\$35 000  <u>Level 4:</u> \$100 000            - Further enhanced monitoring of additional new hydrometric stations to needed level</p>	New data directly related to MPB impacts and improved modeling	Key MPB affected areas	\$205 000	\$405 000
3  (p. 58)	<p><b>Harvest monitoring</b>            - Kamloops TSA done and Quesnel on-going            - Funds would allow this assessment in other critical TSAs            - Assesses actual harvesting relative to Chief Forester expectations in AAC rationales</p>	Assessment of harvesting of pine and non-pine	Quesnel Other TSA tbd	\$100 000	\$100 000
4  (p.71,#30)  (p.71,#30) (p.71,#31)	<p><b>Public safety (air quality)</b>            Note: none of the funds involve capital costs; these costs would be secured from other funding envelopes  <u>Level 1:</u> \$40 000            -Monitoring of new air quality monitoring stations  <u>Level 2:</u> \$30 000            - Monitoring additional air quality stations - \$20 000            -Custom venting forecasting program for airshed management and health advisories - \$10 000</p>	New data directly related to MPB salvage activities and improved modeling	Key MPB affected areas	\$40 000	\$70 000
5  (p. 45)	<p><b>Shelf life</b>  <u>Level 1:</u> \$100 000            -Additional project(s) to complement CFS study in central interior by undertaken work in other BEC units in the hotter and drier southern interior  <u>Level 2:</u> \$100 000            -Provides needed additional data that will improve shelf life modeling</p>	New data acquisition and modeling	Southern interior	\$100 000	\$200 000

<p><b>6</b></p> <p>(p.47,#5)</p> <p>(p. 61)</p> <p>(p.48,#6)</p> <p>(p.48,#7)</p> <p>(p.48,#10)</p> <p>(p.48,#11)</p> <p>(p.47,#5)</p> <p>(p. 61)</p>	<p><b>Watershed and fish sensitivity</b></p> <p><u>Level 1:</u> \$135 000</p> <p>- Continuation of existing funded watershed sensitivity analysis (to determine which watersheds are most sensitive to the impacts of the MPB and salvage activities) - \$75 000</p> <p>- Continuation of existing funded fisheries watershed classification project (to compile and analyze existing data to classify watersheds based on fisheries value) to other critical areas in order to support decision making - \$60 000</p> <p><u>Level 2:</u> \$55 000</p> <p>- Watershed sensitivity data consolidation -\$20 000</p> <p>- Soil erosion and sediment delivery risks - \$10 000</p> <p>- Terrain stability interface issues - \$10 000</p> <p>- Benthic macroinvertebrate sustainability indicator system used to support decisions aimed at protecting aquatic resources - \$15 000</p> <p><u>Level 3:</u> \$105 000</p> <p>Needed additional work described in 'Level 1' above for:</p> <p>- watershed sensitivity - \$75 000</p> <p>- fisheries watershed classification - \$ 30 000</p>	<p>New data and modeling</p>	<p>Key MPB affected areas</p>	<p>\$135 000</p>	<p>\$295 000</p>
<p><b>7</b></p> <p>(p.37,#3)</p>	<p><b>Year of MPB attack mapping</b></p> <p>- Testing and sample map completed and approach can not be applied to priority areas</p> <p>-Retrospective mapping showing year of death that is used in conjunction with shelf life studies to assess economic recoverability of stands</p>	<p>Map</p>	<p>Key MPB affected areas</p>	<p>\$100 000</p>	<p>\$100 000</p>
<p><b>8</b></p> <p>(p.70,#19)</p> <p>(p.69,#16)</p> <p>(p.69,#15)</p> <p>(p.69,#14)</p> <p>(p.69,#17)</p> <p>(p.69,#14)</p> <p>(p.70,#18)</p>	<p><b>Terrestrial habitat supply</b></p> <p><u>Level 1:</u> \$65 000</p> <p>-Wildlife habitat area (WHA) risk analysis where WHAs and forest cover maps will be compared to assess potential MPB impact - \$30 000</p> <p>- Coarse woody debris – furbearer inventory due to impacts of salvage harvesting - \$20 000</p> <p>- Monitoring of in-stand retention for biodiversity management - \$15 000</p> <p><u>Level 2:</u> \$60 000</p> <p>- Lichen monitoring needed to predict impacts of lichen supply for caribou - \$30 000</p> <p>-Caribou habitat use in response to MPB given mobility and forage availability issues - \$30 000</p> <p><u>Level 3:</u> \$45 000</p> <p>- Enhanced lichen monitoring work as described in level 2 - \$30 000</p> <p>- Williamson’s sapsucker nesting inventory given potential impact due to salvage harvesting for pine and need to identify nests in mixed species forests - \$15 000</p>	<p>Monitoring data and impact assessments</p>	<p>Key MPB affected areas</p>	<p>\$65 000</p>	<p>\$170 000</p>
<p><b>9</b></p> <p>(p. 57)</p>	<p><b>Enhanced timber supply review</b></p> <p>- Enhance and update timber supply reviews to reflect changes in MPB epidemic spread, what we know about shelf life, time since death, etc.</p>	<p>Timber supply analysis</p>	<p>Quesnel Morice Kamloops Vanderhoof</p>	<p>\$90 000</p>	<p>\$90 000</p>
<p><b>10</b></p> <p>(p.71,#21)</p> <p>(p.71,#23)</p> <p>(p.71,#22)</p> <p>(p.71,#21)</p>	<p><b>Access (including population inventories)</b></p> <p><u>Level 1:</u> \$145 000</p> <p>-Caribou population inventory due to impact of epidemic on increasing moose habitat which will increase predator numbers - \$30 000</p> <p>-Moose population inventory to monitor impacts of increased access - \$75 000</p> <p>- Use of wilderness lakes inventory to provide better information on current and expected change in access around important small lakes; improved access may result in need to revise fishing regulations to respond to changes in fishing effort - \$40 000</p> <p><u>Level 2:</u> \$70 000</p> <p>-Improved caribou inventory as described in level 1 - \$30 000</p>	<p>Inventory and monitoring data and impact assessments</p>	<p>Key MPB affected areas</p>	<p>\$145 000</p>	<p>\$215 000</p>

(p.71,#22)	- Improved use of wilderness lakes inventory per level 1 - \$40 000				
<b>11</b> (p.44,#B)	<b>Harvest mapping change detection</b> Continues an on-going project in high demand by timber supply analysts to accurately capture recent disturbances such as harvesting (including small scale salvage) and fires. This project is needed given missing information with use of RESULTS and delays in its use to update inventories. May need to be continued in future years to provide quality assurance/ verification of RESULTS submissions to inventory updates. <u>Level 1:</u> \$15 000 - Satellite-based spatial monitoring/mapping of harvesting for select MPB affected management units; most work done in-house <u>Level 2:</u> \$20 000 - Opportunity to contract work out to cover all MPB affected units	Mapping of recent harvested areas	MPB affected units	\$15 000	\$35 000
<b>12</b> (p. 63)	<b>Quesnel TSA VRI phase 1 enhanced pilot</b> This project would pilot test a higher intensity approach in a representative portion of TSA before undertaking full scale enhanced phase 1 by verifying needed sampling intensity	Pilot testing enhanced phase 1 mapping	Quesnel TSA	\$100 000	\$100 000
<b>13</b> (p. 37)	<b>MPB cumulative pine mortality map calibration (predictive modeling of future spread)</b> -Image interpretation of orthorectified aerial photographs to map cumulative kill and to calibrate MPB spread model	Mapping and model improvements	All MPB affected areas	\$35 000	\$35 000
<b>14</b> (p. 36)	<b>MPB mapping from orthophotos (current snapshot)</b> Using the approach that has been pilot tested and validated, a snapshot of MPB red and grey attack using 2006 orthophotos will be mapped <u>Level 1:</u> \$150 000 – most critical areas mapped <u>Level 2:</u> \$90 000 –all MPB impacted areas mapped- full coverage	Map of red and grey attack	Key MPB affected areas	\$150 000	\$240 000
<b>15</b> (ties to p. 64 and 65 projects)	<b>Sampling ‘rethink’</b> Largely due to between and within polygon (stand) variability in MPB impacted stands, need to test VRI ground sampling procedures before embarking on several proposed inventory and monitoring sampling projects. A ‘swat’ team of experts will propose sampling approach in consideration of existing information, approaches and projects (e.g. Burns Lake below)	Ground sampling design improvements	All MPB affected units	\$20 000	\$20 000
<b>16</b> (p. 66)	<b>Site productivity: SIBEC – PEM</b> Below are first year costs; similar funding levels needed in 08/09 to complete these projects and to initiate new work <u>Level 1:</u> \$300 000 - Williams Lake TSA SIBEC/PEM plus training <u>Level 2:</u> \$500 000 - Quesnel TSA SIBEC/PEM - 100 Mile House TSA SIBEC/PEM	Improved site productivity estimates; maps of site series	Williams Lake TSA; Quesnel TSA; 100 Mile House TSA	\$300 000	\$800 000
<b>17</b> (p. 54)  (p. 66 links) (p. 65)	<b>Burns Lake VRI sampling/methods</b> Project stems from TSA stakeholders meeting <u>Level 1:</u> \$365 000 - Remaining NVAF – 5 plots - \$15 000 -NVAF destructive sampling 120 trees incl. shelf life - \$100 000 - Phase 2 45 plots including some ecological data- \$120 000 -methodology project (how to sample properly the regenerated asset as these stands can meet multiple objectives) - \$50 000 - Alternative plot configuration methodology testing - \$80 000 <u>Level 2:</u> \$125 000 - Phase 2 additional 50 plots including some ecological data <u>Level 3:</u> \$60 000 -Monitoring following style of national forest inventory	Ground samples; monitoring plots; testing alternative sampling procedures	Burns Lake  All affected MPB units	\$365 000	\$550 000
<b>18</b> (p. 50)	<b>Kamloops TSA change detection</b> - Phase 2 re-measurement to assess MPB impacts - Funds are need to complete this 07/08 project	Ground sampling data	Kamloops TSA	\$30 000	\$30 000

19 (p. 50)	<b>Okanagan TSA change detection</b> - Phase 2 re-measurement to assess MPB impacts - Funds are need to complete this 07/08 project	Ground sampling data	Okanagan TSA	\$30 000	\$30 000
20 (p. 51)	<b>MPB calibration sampling</b> - Funds are need to complete this 07/08 project - Field sampling in trial areas to calibrate the cumulative mortality estimates. Samples are widely distributed in the MPB affected area, with emphasis to sample in more severely impacted areas.	Ground sampling data	-	\$30 000	\$30 000
21 (p. 52)	<b>Merritt TSA NVAF</b> -Funds are need to complete this 06/07 project - Ties-in with shelf life work	Ground sampling data	Merritt TSA	\$70 000	\$70 000
22 (p. 66)	<b>MPB understory</b> -Quantity, distribution and growth potential of MPB with understory regeneration would build on work by Dave Coates. It will assist in determining which stands to retain for mid-term timber supply and assist in refining timber supply projections from the MPB TSR project <u>Level 1:</u> \$20 000 – problem analysis (building ‘sampling rethink’ project to determine method selection) <u>Level 2:</u> \$80 000 – data compilation and analysis	Problem analysis report  Data compilation and analysis	All affected MPB areas	\$20 000	\$100 000
23	<b>Capacity development</b> <u>Level 1:</u> \$25 000 – VRI training <u>Level 2:</u> \$20 000 - habitat supply modeling and wildlife habitat ratings (course material update)	Training	All affected MPB areas	\$25 000	\$45 000

“Page in workbook” refers to *Workshop Workbook II: Progress and Lessons Learned from 2006 Designing an Integrated Portfolio of MBP Inventory and Monitoring Investments for FT 2007/08*. The workbook supported the discussions of 32 participants and includes additional project description material.

\*priority ranking for MOE project levels is in the following order (this is reflected in attached project listing):

Level 1 projects	Level 2 projects	Level 3 projects
<ul style="list-style-type: none"> <li>• Priority 2, level 1</li> <li>• Priority 4, level 1</li> <li>• Priority 6, level 1</li> <li>• Priority 2, level 2</li> <li>• Priority 8, level 1</li> </ul>	<ul style="list-style-type: none"> <li>• Priority 10, level 1</li> <li>• Priority 2, level 3</li> <li>• Priority 8, level 2</li> <li>• Priority 6, level 2</li> <li>• Priority 4, level 2</li> </ul>	<ul style="list-style-type: none"> <li>• Priority 10, level 2</li> <li>• Priority 6, level 3</li> <li>• Priority 2, level 4</li> <li>• Priority 8, level 3</li> </ul>