

Morice & Lakes IFPA

A Forest Productivity Tactical Plan
For The
Morice & Lakes TSAs



Objectives

- Identify stakeholder expectations with respect to timber productivity, operational needs, investment restrictions, and risk tolerance.
- Develop a tactical plan for undertaking both short and long term initiatives to sustain forest productivity, and
- Provide stakeholders with information that can be utilised to make strategically sound forest productivity investments



Participant Questions

- Warm-up question – age of the person on your left?
- Most important policy/legislation affecting any decision to invest in a forest productivity program?
- Operational need for g&y information in the ML IFPA?
- Who pays for a forest productivity program?
- What factors impede the design and implementation of a forest productivity program?
- What are the long term benefits?
- Bonus question



Plan Context

Legislative and Policy Considerations include:

- ***DFAM*** – Under DFAM, specified licensees and BCTS will assume a collective responsibility for inventory, timber supply analysis and specified forest health activities within each timber supply area.
- ***FRPA*** – Under FRPA, industry can undertake more innovative practices and will have an increased level of accountability for results and outcomes of their practices.
- ***Forest Act of BC*** – Under the DFAM framework, groups will be required to carry out timber supply analysis for TSAs at least once every 5 years



Plan Context

Other policies and strategies providing context for the tactical plan include:

- The strategic committee's stated objectives for the working forest
- Strategic recommendations for a G&Y program prepared by JS Thrower & Associates
- Related G&Y programming in other jurisdictions
- Immediate and mid term operational needs of the IFPA member organizations, and
- The current and anticipated funding environment



Plan Context

The fundamental goal of M&L IFPA Forest Productivity Program is to enhance the basic drivers of timber supply by:

- Increasing site productivity on the productive forest land base (increase MAI by 30% over TSR 2 levels by 2020).
- Maintaining or increasing the area of the timber harvesting land base.



Plan Context

Forest Productivity Council high priority subjects:

- The maintenance of existing data sets and remeasurement schedules
- Complex stand work including modeling, determination of yield projections, determination of site productivity etc
- Information on wildlife/habitat/biodiversity
- Information on forest health



Plan Context

Identified operational needs for G&Y information:

- An accurate and up to date inventory tailored to the info needs of appurtenant processing facilities
- Area, current state, and spread rate of beetle infestations
- Information on log populations
- Information on the statistical reliability of multiblock silviculture surveys
- Information on the impacts of silviculture treatments on growth and yield



Plan Context

- Information used in indicators to monitor the achievement of SFM targets
- The location of areas needing incremental silviculture treatments, rehabilitation, or forest health treatments
- Potential site productivity information based on validated PEM mapping
- Information to help select beetle areas to salvage or rehabilitate first to provide the greatest upward impact on the mid-term timber supply
- Information on regeneration delay and stocking levels in beetle killed stands
- Information on how partially killed stands grow over time, and the expected shelf life of dead wood



Plan Context

There is little incentive for long term investments in management knowledge unless there is:

- An allowable cut effect
- An immediate improvement in stand survival or age to green up
- A reduction in operating costs, or
- The acquisition of such information fulfills a certification obligation or demonstrates impacts to stakeholders



Plan Context

The Funding Environment:

- Land base Investment Program (LBIP)
- FIA Forest Science Program (FSP)
- MPB Initiative
- Softwood Industry Community Economic Adjustment Initiative (SICEAI)



Forest Productivity Investment Opportunities

The 3 most important reasons for obtaining forest productivity information in the M&L IFPA are to:

- Support the immediate imperative of mitigating beetle impacts
- Alleviate the potential mid-term wood supply shortage, and
- Support the scenario planning process including the provision of data related to achieving targets and monitoring indicators



Forest Productivity Investment Opportunities

Program activities are organized into five primary groups:

- Inventory projects
- Projects involving acquisition of G&Y Data
- Monitoring projects
- Projects involving forest management practices
- Data management projects



Recommended Projects

(Near Term=1-2 Years)

Inventory	G&Y	Monitoring	Operations	Data Mgt
	PEM Validation -Morice			Business Case Analysis for Forest Productivity Investments
Multi-Block Silviculture Survey Design	Complete a Needs Analysis for Experimental Trials	Identify Existing G&Y Installations		Design Automated Inventory Update System
Orthophoto Completion	Develop Shelf Life Curves for Beetle Wood	Design G&Y/ Inventory Monitoring Program		Strategic Harvest and Investment Planning Tech Plan

Recommended Projects

(Mid Term=3-10 Years)

Inventory	G&Y	Monitoring	Operations	Data Mgt
VRI Retrofit (Morice and part of Lakes)	PEM Validation - Lakes	Implement Monitoring Program	Incremental Silviculture Treatments	Impl Auto Inv Update Sys
Inv Update Meth for Beetles	SIBEC Support	PFT Trial Maintenance		
Phase 2 ground sampling with NVAF	Dev Model for Predicting Post Harvest Nat regen incl Beetle stands	PSP Re-measurement		
Reevaluate ESA Classifications	Forest Genetics Trial			
Update Visual inventories in both TSAs	Hard Pine Stem Rust Analysis			

Recommended Projects

(Near Term=3 -10 Years Con't)

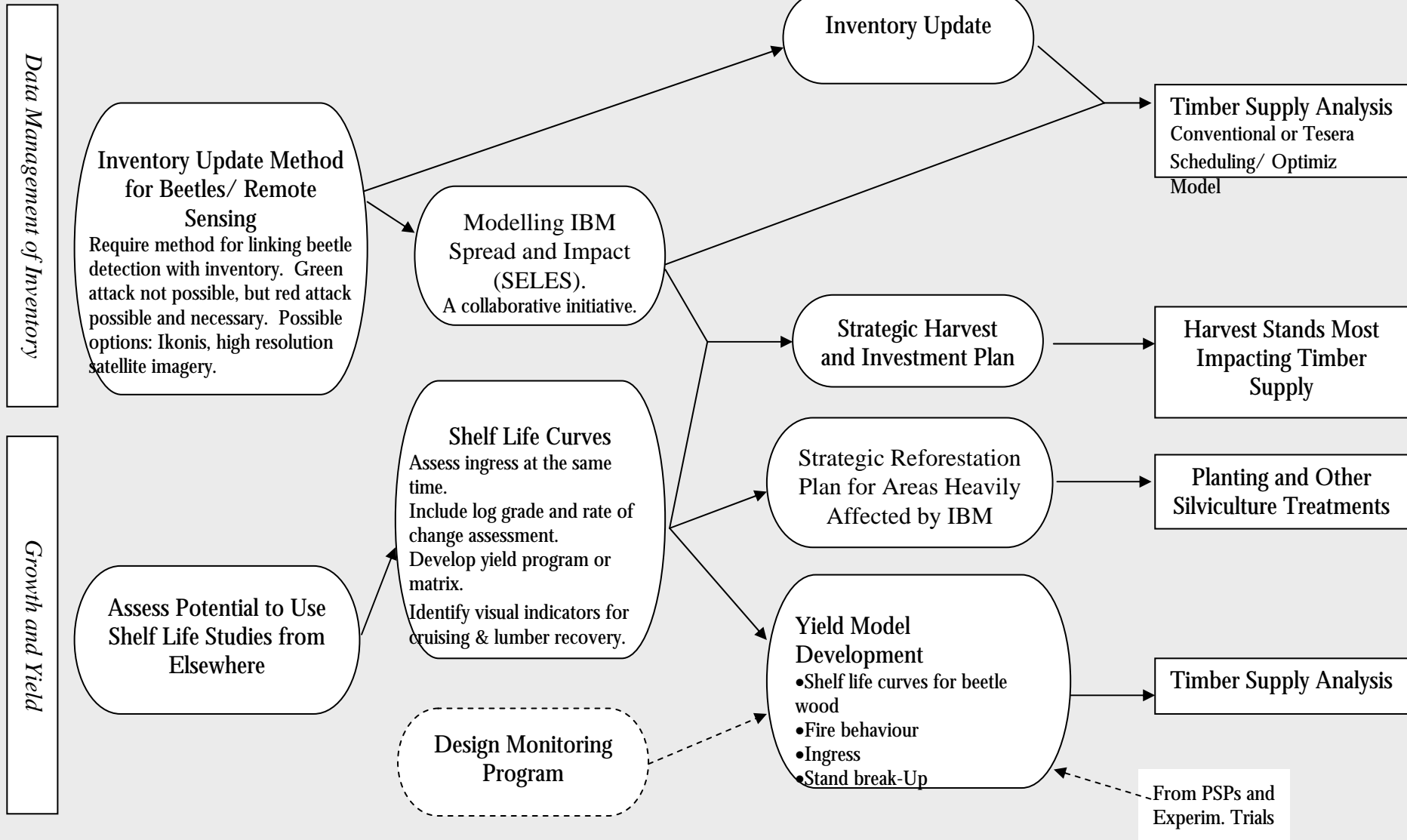
Inventory	G&Y	Monitoring	Operations	Data Mgt
Rd Inventory & Classification (M&L)	Site Potential across Site Series and Conifer Species in the SBSmc2			
	Investigate Stand Break-up		Alt. Harvest System Trials	
	Develop Wood Quality Yield Curves for Post Harvest Regenerated Stands		Road & Ldg Rehabilitation	
	Commercial Thinning Problem Analysis & Ht/Diam Ratios		PFT Rehabilitation	
	PI Ht Diam Ratio Study			

Recommended Projects

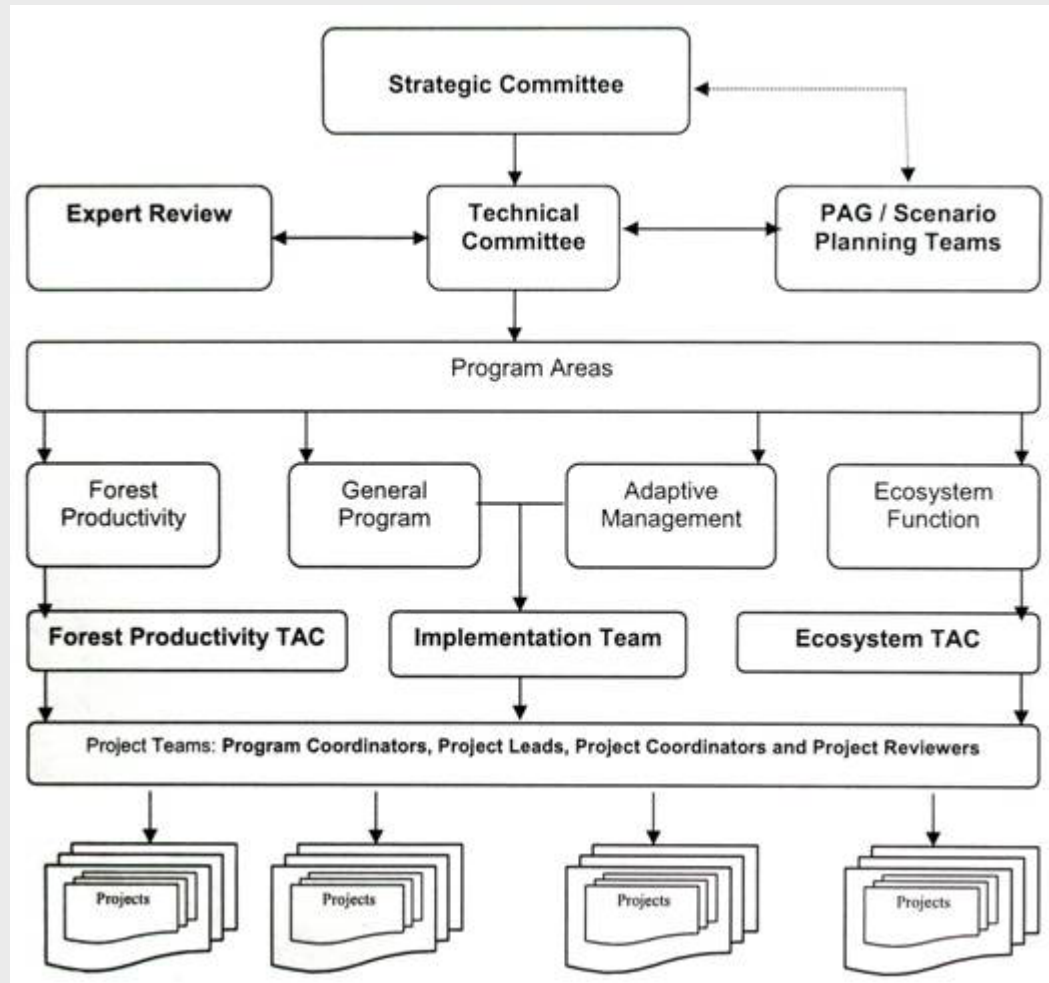
(Long Term= >5 Years)

Inventory	G&Y	Monitoring	Operations	Data Mgt
Inventory Updates	Timber Supply Analysis	PSP Re-Measurement and other Aspects of the Monitoring Program	Incremental Silviculture Treatments	
	Yield Curves for Partial Cut Stands			
	TASS support (localize silviculture impacts/mixed wood data)			

Avoiding Redundancies



Roles and Responsibilities



Roles and Responsibilities

Recommendations regarding roles:

- Formally involve agencies in both program design and implementation.
- Assign a initiative leader to each of the five program categories to coordinate the initiative amongst licensees and to administer project work.
- Amalgamate the technical and implementation committees.



Conclusions

Potential benefits:

- More accurate TSR and AAC determination
- Improved forecasting of timber and non-timber values.
- Better data for land use planning
- Better data for forest certification
- Timber and non-timber resource information to support local indicators of sustainability, and
- More information contributing to continual improvement within the ML IFPA



Conclusion

Key factors impeding the design and implementation of a forest productivity program:

- Tenure system
- Budget environment
- Vague government direction on responsibilities for forest productivity



Conclusion

It is anticipated that this tactical plan will help member organizations acquire:

- growth and yield data
- inventory information
- analysis tools, and
- data management systems

Enabling sound decisions regarding forest practices, development of effective forestry plans, and improved timber supply.



Contact

For more information, contact:

Larry McCulloch

250-847-3267

Larry.McCulloch@Imfms.ca

Or Jim Burbee

250-564-1518

venturefc@telus.net



Plan Context

The Long term results expected from Provincial G&Y Strategy program goals are:

- More accurate timber supply review and AAC determinations.
- Inventory and monitoring requirements for forest certification will be met
- Timber and non-timber resource information needed to produce local indicators of sustainability will be produced
- Land use planning processes dealing with timber, wildlife, recreation and tourism will be supported



Plan Context

The core goals of the PG TSA G&Y program are:

- quantify, understand and predict forest dynamics to better support timber supply, forest practices and forest investment decisions,
- provide ready and efficient access to up-to-date inventories for a wide range of resource analyses
- integrate data collection from a range of operational and G&Y program sources,
- provide information support and a scientific framework for targeted G&Y studies, and
- quantify, understand and predict forest dynamics to better support ecosystem management decisions and/or certification initiatives



Plan Context

The Forest Productivity Council (FPC) established 5 criteria for determining forest productivity priorities:

- The influence the project or activity may have on supply of timber and non-timber resources
- The influence on forest management decisions
- The consistency with regional priorities as established by regional forest productivity co-operators and ratified by the Council
- Technical validity, sequential factors and maintenance
- Potential extension components

