



# Lakes Timber Supply Area Preliminary Social and Economic Values

## Introduction

Throughout the Scenario Planning Process, a number of resource values, and indicators were identified that related to social and economic issues for the communities of interest in the Lakes Timber Supply Area (TSA). Each of these values was chronicled in the Scenario Planning Database and served as the starting point for a more thorough exploration during the delivery of the “Local Social Indicator Development” Project.

This Report details the results of discussions related to social and economic values that were held during Scenario Planning sessions. This reference document provides a valuable resource for ongoing projects related to Social Indicators. For more information on the Scenario Planning process, which was used to identify and capture the detailed management objectives, strategies and indicators required for SFM, please refer to the “Scenario Planning Summary Report” available from the Morice & Lakes IFPA website.

## Terms and Definitions

The following table defines the terms found in this report.

Term	Definition	Examples
Resource	Identifies the forest resource being described	<ul style="list-style-type: none"> <li>• Agriculture</li> <li>• Landscape and Stand Level Biodiversity</li> <li>• Recreation</li> <li>• Timber</li> <li>• Visual</li> <li>• Watershed and Riparian</li> <li>• Wildlife</li> <li>• Community Stability</li> </ul>
Value/Issue	Identifies specific resource values and/or issues that directly relate to each resource.	<ul style="list-style-type: none"> <li>• Agricultural Products.</li> <li>• Fair distribution of timber and non-timber benefits and costs over time.</li> <li>• Fair, equitable and effective public participation.</li> </ul>

Term	Definition	Examples
Mgmt Intent	Identifies the intent for managing the value/issue specified, some examples include	<ul style="list-style-type: none"> <li>• A variety of agricultural products are provided from the DFA.</li> <li>• Timber and non-timber benefits and costs a fairly and equally distributed at a range of scales for current and future generations.</li> <li>• An open public involvement process designed and implemented to the satisfaction of participants.</li> </ul>
Basecase, Forest Productivity, etc	Describes the actions required to meet objectives (listed by Learning Scenario).	
Static Layers / Derived Layers	Lists the inventories or information requirements necessary to model assumptions and indicators	<ul style="list-style-type: none"> <li>• Static – inventories provided by IFPA Participants.</li> <li>• Derived – inventories derived from Static Layers.</li> </ul>
Indicator	Lists the indicators which may be used to measure the success of practices and/or assumptions towards meeting objectives.	<ul style="list-style-type: none"> <li>• Area harvested within the Agricultural/Settlement RMZ by licensee.</li> <li>• % of total goods and services provided by local vendors by licensee (operational).</li> <li>• % seral stage distribution by non-timber tenure license by forest licensee.</li> <li>• Benefits directed into local communities by licensee.</li> </ul>
Context	Key words to assist in understanding how the indicator will be used for analysis purposes.	<ul style="list-style-type: none"> <li>• Target</li> <li>• Monitor</li> </ul>
Rating	Scenario Planning Team ranking of Indicators for analysis purposes.	<ul style="list-style-type: none"> <li>• CSA – Canadian Standards Association (Forecast).</li> <li>• CSA-O – Canadian Standards Association (Operational).</li> <li>• S – Socio-economic.</li> </ul>
Rationale	Rational for Delete or Accept indicator.	<ul style="list-style-type: none"> <li>• Useful for decision making.</li> <li>• Habitat element.</li> <li>• Assess under socio-economic.</li> <li>• Not Modeled in this analysis (CSA).</li> </ul>

## Contact

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# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

RESOURCE: Agriculture

VALUE/ISSUE: Agricultural Products

MGMT INTENT: A variety of agricultural products are provided from the DFA

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

STATIC LAYERS:

DERIVED LAYERS:

INDICATOR: Area harvested                      within the Agricultural/Settlement RMZ by licensee                      CONTEXT: Target                      RATING: CSA 5.1                      RATIONALE:

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

## RESOURCE: Community Stability

VALUE/ISSUE: Fair distribution of timber and non-timber benefits and costs over time

MGMT INTENT: Timber and non-timber benefits and costs a fairly and equally distributed at a range of scales for current and future generations.

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

### STATIC LAYERS:

### DERIVED LAYERS:

INDICATOR: % of total goods and services provided by local vendors by licensee (operational)                      CONTEXT: Target                      RATING: CSA-O 5.3                      RATIONALE:

INDICATOR: % seral stage distribution                      by non-timber tenure license by forest licensee                      CONTEXT: Target                      RATING: CSA 5.3                      RATIONALE:

INDICATOR: Benefits directed into local communities by licensee                      CONTEXT: Target                      RATING: CSA-O 5.3                      RATIONALE:

VALUE/ISSUE: Fair, equitable and effective public participation

MGMT INTENT: An open public involvement process designed and implemented to the satisfaction of participants.

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

### STATIC LAYERS:

### DERIVED LAYERS:

INDICATOR: # of communications sent (operational)                      by Resource Value by Type by licensee                      CONTEXT: Target                      RATING: CSA-O 6.3                      RATIONALE:

INDICATOR: % of Comments receiving response (operational)                      by Type by licensee                      CONTEXT: Target                      RATING: CSA-O 6.3                      RATIONALE:

INDICATOR: PAG established and maintained according to approved Terms of Reference                      CONTEXT: Target                      RATING: CSA-O 6.3                      RATIONALE:

INDICATOR: PAG established and maintained according to approved Terms of Reference                      CONTEXT: Target                      RATING: CSA-O 6.3                      RATIONALE:

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Healthy and sustainable communities

MGMT INTENT: Communities that exhibit economic, environmental and social well-being through time.

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

STATIC LAYERS:

DERIVED LAYERS:

<b>INDICATOR:</b> # of participation opportunities (operational)	by opportunity type	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA-O 5.2	<b>RATIONALE:</b>
<b>INDICATOR:</b> % of forest management commitments completed on time resulting from consultations regarding non-timber features and interests (operational)	by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA-O 5.2	<b>RATIONALE:</b>
<b>INDICATOR:</b> % of total goods and services provided by local vendors (operational)	by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA-O 5.2	<b>RATIONALE:</b>

VALUE/ISSUE: Informed decision-making and increased knowledge

MGMT INTENT: Relevant information is exchanged between interested parties to support decision-making and increased knowledge of ecosystem processes and human interactions with forest ecosystems.

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

STATIC LAYERS:

DERIVED LAYERS:

<b>INDICATOR:</b> # of communications sent (operational)	by Resource Value by Type by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA-O 6.4	<b>RATIONALE:</b>
<b>INDICATOR:</b> % of Comments receiving response (operational)	by Type by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA-O 6.4	<b>RATIONALE:</b>

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Public Participation

MGMT INTENT: An open public involvement process designed and implemented to the satisfaction of participants

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

STATIC LAYERS:

DERIVED LAYERS:

INDICATOR: # of participation opportunities (operational)                      by opportunity type                      CONTEXT: Target                      RATING: CSA-O 6.3                      RATIONALE:

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

**RESOURCE: Cultural Heritage**

**VALUE/ISSUE:** First Nations' Aboriginal and treaty rights

**MGMT INTENT:** Duly- established First Nations' Aboriginal and Treaty rights are recognized and respected

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

**STATIC LAYERS:**

**DERIVED LAYERS:**

**INDICATOR:** # of communications sent (operational)                      by Resource Value by Type by licensee                      **CONTEXT:** Target                      **RATING:** CSA-O 6.1                      **RATIONALE:**

**INDICATOR:** % of Comments receiving response (operational)                      by Type by licensee                      **CONTEXT:** Target                      **RATING:** CSA-O 6.1                      **RATIONALE:**

**VALUE/ISSUE:** Indigenous Knowledge of forest values and uses

**MGMT INTENT:** . Forest management incorporates Indigenous Knowledge of forest values and uses

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

**STATIC LAYERS:**

**DERIVED LAYERS:**

**INDICATOR:** % of forest management commitments completed on time resulting from consultations regarding non-timber features and interests (operational)                      by licensee                      **CONTEXT:** Target                      **RATING:** CSA-O 6.2                      **RATIONALE:**

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

**RESOURCE: Landscape and Stand Level Biodiversity**

**VALUE/ISSUE:** The supply and variety of timber and non-timber products, services and benefits on the DFA      **MGMT INTENT:** Healthy Wildlife Populations

<b><u>BASECASE</u></b> Indicator only.	<b><u>FOREST PRODUCTIVITY</u></b> No BEO's	<b><u>WILDLIFE</u></b> No BEO's	<b><u>ECOSYSTEM</u></b> No BEO's	<b><u>BIODIVERSITY</u></b> Set all BEO's to High	<b><u>WATERSHED</u></b> No BEO's	<b><u>RECREATION</u></b> No BEO's	<b><u>AGRICULTURE</u></b>
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**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> # of Large Live Trees/ha	by LU by BEC by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b> Info required for IFPA habitat supply. Implement via WTP requirements (operational)
<b>INDICATOR:</b> % seral stage distribution	by Ecosystem & Wildlife Value Class by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b> Info required for IFPA habitat supply. Implement via WTP requirements (operational)
<b>INDICATOR:</b> % species composition	by BEC by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b> Info required for IFPA habitat supply. Implement via WTP requirements (operational)
<b>INDICATOR:</b> % total area	by Wildlife Value Class by LU by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b> Info required for IFPA habitat supply. Implement via WTP requirements (operational)
<b>INDICATOR:</b> Area (ha) of shrub	by type by LU by BEC by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b> Info required for IFPA habitat supply. Implement via WTP requirements (operational)
<b>INDICATOR:</b> Volume (m3/ha) of CWD	by diameter class by LU by BEC by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b> Info required for IFPA habitat supply. Implement via WTP requirements (operational)

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

**RESOURCE: Recreation**

**VALUE/ISSUE:** A variety of recreational experiences are provided on the DFA.

**MGMT INTENT:** Multiple Use Recreation Opportunities are provided on the DFA.

**BASECASE**                      **FOREST PRODUCTIVITY**                      **WILDLIFE**                      **ECOSYSTEM**                      **BIODIVERSITY**                      **WATERSHED**                      **RECREATION**                      **AGRICULTURE**

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> % area < VEG	by Recreation Class by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b>
<b>INDICATOR:</b> % area < VEG	by VQO by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b>
<b>INDICATOR:</b> % of forest management commitments completed on time resulting from consultations regarding non-timber features and interests (operational)	by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA-O 5.1	<b>RATIONALE:</b>
<b>INDICATOR:</b> Road density	by road phase by recreation class by licensee	<b>CONTEXT:</b> Target	<b>RATING:</b> CSA 5.1	<b>RATIONALE:</b>

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

RESOURCE: Timber

VALUE/ISSUE: Backlog Brushing

MGMT INTENT: To eliminate backlog brushing by 2012 and achieve FTG status.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
No treatments	Treat identified stands at an even rate of 500 ha/yr until gone (or treat all stands within 3 years). Once treated, stands will revert from brush impeded TIPSYS curves to normal TIPSYS curves. Backlog is defined as pre-87 stands with logging history. Priorities for Treatment: 1) Intensive Timber Management Zone. 1a) Good, then 1b) Medium (by AU breakpoints); 2) All other RMZ's. 2a) Good, then 2b) Medium (by AU breakpoints) Growth and Yield Parameters to be defined under Vegetation Management.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

STATIC LAYERS:

DERIVED LAYERS:

<u>INDICATOR:</u> Jobs	<u>CONTEXT:</u> Monitor	<u>RATING:</u> S	<u>RATIONALE:</u> Calculated from Area Treated and a Cost table - socio-economic
<u>INDICATOR:</u> Jobs	<u>CONTEXT:</u> Monitor	<u>RATING:</u> S	<u>RATIONALE:</u> Calculated from Area Treated and a Cost table - socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Commercial thinning

MGMT INTENT: Commercial thinnings will be undertaken where economically feasible and biologically appropriate, to recoup mortality losses, improve timber quality and increase short-term timber supply.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
No treatments	Criteria for timing and suitable stands found in EFMP report and MoF Research Branch Report - "Economic evaluation of CT in PI" G&Y response curves need to be developed.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> \$ value of stand as a f(product class (and dollar value of CT?))	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> social-economic
<b>INDICATOR:</b> \$ value of stand as a f(product class (and dollar value of CT?))	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> social-economic
<b>INDICATOR:</b> IRR of this incremental silviculture activity at the TSA level.	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> social-economic
<b>INDICATOR:</b> IRR of this incremental silviculture activity at the TSA level.	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> social-economic

VALUE/ISSUE: Employment

MGMT INTENT: Encourage community stability, including small rural communities, through job diversity initiatives and maintaining resource accessibility and sustainability at a local scale.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Indicator only.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> FRBC - related indicators	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Need to get FRBC indicators identified
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# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

<b>INDICATOR:</b> FRBC - related indicators		<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Need to get FRBC indicators identified
<b>INDICATOR:</b> Jobs (direct)	by full/part time	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> socio-economic
<b>INDICATOR:</b> Jobs (direct)	by full/part time	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> socio-economic
<b>INDICATOR:</b> Jobs (indirect)		<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> socio-economic
<b>INDICATOR:</b> Jobs (indirect)		<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> socio-economic

**VALUE/ISSUE:** Fertilization, Late Rotation

**MGMT INTENT:** Refer to EFMP Intensive silviculture opportunities Report for criteria To account for the scope, costs and benefits of late fertilization treatments to increase productivity of existing unmanaged stands. Fertilize 20 years before minimum harvest age,

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Not Considered	Fertilize stands 20 years before minimum harvest age, maximum treatment date of 80 years at a rate of 2000 ha/yr.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> Jobs		<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic, can be generated from Area fertilized and jobs/ha table
<b>INDICATOR:</b> Jobs		<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic, can be generated from Area fertilized and jobs/ha table

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Fertilization, Repeat

MGMT INTENT: Intensive scenario: Refer to EFMP Intensive Silviculture Report to account for the scope, costs and benefits of pruning treatments to maintain production of premium quality (large, clear) logs at >=1% of the total harvest.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Not Considered	Fertilize regenerating stands first at 20 years, then every 20 years to a maximum of 4 treatments.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Apply Forest Productivity strategy to VSC polygons (outside of RMA's) where EVC is less than Established VQO.	

**STATIC LAYERS:**

**DERIVED LAYERS:**

INDICATOR: Jobs CONTEXT: Monitor    RATING: S    RATIONALE: Assess under socio-economic

INDICATOR: Jobs CONTEXT: Monitor    RATING: S    RATIONALE: Assess under socio-economic

VALUE/ISSUE: General Economic values

MGMT INTENT: To demonstrate overall economic costs and benefits of implementing this SFM Plan.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Indicator only.	Indicator only.	Indicator only.	Indicator only.	Indicator only.	Indicator only.	Indicator only.	

**STATIC LAYERS:**

**DERIVED LAYERS:**

INDICATOR: \$ generated for tax revenue CONTEXT: Monitor    RATING: S    RATIONALE: socio-economic  
by TSA

INDICATOR: \$ generated for tax revenue CONTEXT: Monitor    RATING: S    RATIONALE: socio-economic  
by TSA

INDICATOR: IRR at the Forest Level CONTEXT: Monitor    RATING: S    RATIONALE: socio-economic

INDICATOR: IRR at the Forest Level CONTEXT: Monitor    RATING: S    RATIONALE: socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Incremental Spacing

MGMT INTENT: To account for the scope, costs and benefits of incremental spacing treatments to maintain production of high quality (>22.5 cm) logs at >=20% of the total harvest and premium quality (large, clear) logs at >=1% of the total harvest.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Not Considered	Refer to EFMP Intensive silviculture opportunities Report for criteria. Based on stand level attributes space stands to target densities. Once treated, stands will revert from pre-spacing TIPS curves to post-spacing TIPS curves. Target stands planted using GI stock as highest priority followed by all other stands meeting the parameters for incremental spacing starting with good sites and then medium.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

INDICATOR: Jobs	CONTEXT: Monitor	RATING: S	RATIONALE: socio-economic
INDICATOR: Jobs	CONTEXT: Monitor	RATING: S	RATIONALE: socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

**VALUE/ISSUE:** Not Satisfactorily Restocked Areas, Backlog

**MGMT INTENT:** To eliminate backlog NSR stands by 2002.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Section 6.3.3 of latest version of TSR II data package	Plant identified stands with large stock (415) at an even rate over the next 2 years (preliminary estimates predict 300ha/yr for a total of 600 ha). Once treated, stands will revert from backlog NSR TIPSU curves to normal TIPSU curves. Based on brush hazard criteria backlog stands may require brushing treatments.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> Jobs	by treatment	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> socio-economic
<b>INDICATOR:</b> Jobs	by treatment	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Problem Forest Type Rehab, High Density

MGMT INTENT: To increase the area of the THLB through rehabilitation of high density (dogs hair pine) stands too old to respond to spacing treatments and may have higher actual SI than reported within the inventory.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Not Considered	Site prep and plant these sites to target densities at a rate of 50 ha/yr. Once treated, stands will revert from height repressed VDYP curves to normal TIPSYP curves and contribute to the THLB and timber supply. Treatment Priority Criteria: 1) Intensive Timber Management Zone 1a Density Class 2 Good then Med then Poor, 1b Density Class 1 Good then Med then Poor 2) All other zones 2a Density Class 2 Good then Med then Poor, 2b Density Class 1 Good then Med then Poor	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case

**STATIC LAYERS:**

**DERIVED LAYERS:**

INDICATOR: Jobs	by method (site prep, plant)	CONTEXT: Monitor	RATING: S	RATIONALE: socio-economic
INDICATOR: Jobs	by method (site prep, plant)	CONTEXT: Monitor	RATING: S	RATIONALE: socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Problem Forest Type Rehab, Low Volume

MGMT INTENT: To increase the area of the THLB through rehabilitation of low volume stands too old to fill plant yet could have higher actual SI values than indicated by the inventory.

<b><u>BASECASE</u></b>	<b><u>FOREST PRODUCTIVITY</u></b>	<b><u>WILDLIFE</u></b>	<b><u>ECOSYSTEM</u></b>	<b><u>BIODIVERSITY</u></b>	<b><u>WATERSHED</u></b>	<b><u>RECREATION</u></b>	<b><u>AGRICULTURE</u></b>
Netted out of THLB	Site prep and plant selected sites to target densities at a rate of 300 ha/yr. Once treated, stands will revert from low volume VDYP curves to normal TIPSYP curves and contribute to the THLB. Treatment Priority Criteria: 1) Intensive Timber Management Zone; 1a) Highest SI first; 2) All other zones; 2a) Highest SI first.	Netted out of THLB	Netted out of THLB	Netted out of THLB	Netted out of THLB	Netted out of THLB	Netted out of THLB

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> Jobs	by method (site prep, plant)	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic
<b>INDICATOR:</b> Jobs	by method (site prep, plant)	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic

VALUE/ISSUE: Pruning

MGMT INTENT: To account for the scope, costs and benefits of pruning treatments to maintain production of premium quality (large, clear) logs at >=1% of the total harvest.

<b><u>BASECASE</u></b>	<b><u>FOREST PRODUCTIVITY</u></b>	<b><u>WILDLIFE</u></b>	<b><u>ECOSYSTEM</u></b>	<b><u>BIODIVERSITY</u></b>	<b><u>WATERSHED</u></b>	<b><u>RECREATION</u></b>	<b><u>AGRICULTURE</u></b>
Not Considered	On any juvenile-spaced, good site, pine-leading stands: a) Prune first lift to 3 m when trees achieve 7 m top height. b) Prune second lift to 6 m when trees achieve 12 m top height.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> Jobs		<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic
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# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

INDICATOR: Jobs

CONTEXT: Monitor

RATING: S

RATIONALE: Assess under socio-economic

VALUE/ISSUE: Revenue to the Crown

MGMT INTENT: To demonstrate economic benefit to the Province of BC through the implementation of this SFM Plan.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Indicator only.	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

STATIC LAYERS:

DERIVED LAYERS:

INDICATOR: \$ (/m3) by species CONTEXT: Monitor RATING: S RATIONALE: Assess under socio-economic

INDICATOR: \$ (/m3) by species CONTEXT: Monitor RATING: S RATIONALE: Assess under socio-economic

INDICATOR: \$ (Total) collected annually by TSA CONTEXT: Monitor RATING: S RATIONALE: Assess under socio-economic

INDICATOR: \$ (Total) collected annually by TSA CONTEXT: Monitor RATING: S RATIONALE: Assess under socio-economic

VALUE/ISSUE: Site Preparation

MGMT INTENT: To account for the scope, costs and benefits of basic silviculture requirements related to site preparation treatments for the achievement of FTG status across all managed stands.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Apply site preparation treatments by method post harvest.	Same as Base Case	Same as Base Case	Various site preparation methods may be appropriate for forest succession pathways.	Same as Base Case	Same as Base Case	Same as Base Case	

STATIC LAYERS:

DERIVED LAYERS:

INDICATOR: Jobs by method CONTEXT: Monitor RATING: S RATIONALE: Assess under socio-economic

INDICATOR: Jobs by method CONTEXT: Monitor RATING: S RATIONALE: Assess under socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes

# TSA

VALUE/ISSUE: Stem Rust

MGMT INTENT: Rehabilitate existing stands severely impacted by stem rusts and apply special treatments to reduce the susceptibility of future stands.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Add 5% to OAF 1 as per regeneration assumptions.	Existing Managed: Based on silviculture survey records identify stands that have become NSR due to hard pine rusts (blister rust, western gall rust). Rehabilitate these stands using site preparation and planting at a rate of 250 ha/yr. Once treated, stands will revert from stem rust impeded TIPSYS curves to normal TIPSYS curves. Future Managed: Based on stem rust hazard rating criteria, plant high hazard PI sites with 60 PI 40 Sx where Sx is also suitable at an expected rate of 4,000 ha/yr. In high hazard areas where Sx is not ecologically suitable, plant pine to higher densities (???? Sph) to offset anticipated losses from rusts at an expected rate of 100 ha/yr. (If hazard rating criteria cannot be determined then use the following: if pine composition is >= 80% add 5% to OAF 1 as per regeneration assumptions)	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

<b>INDICATOR:</b> Jobs	planting, high density planting, site prep	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic
<b>INDICATOR:</b> Jobs	planting, high density planting, site prep	<b>CONTEXT:</b> Monitor	<b>RATING:</b> S	<b>RATIONALE:</b> Assess under socio-economic

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

**VALUE/ISSUE:** The supply and variety of timber and non-timber products services and benefits on the DFA

**MGMT INTENT:** A sustainable harvest and use of non-timber forest products, services and benefits

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

**STATIC LAYERS:**

**DERIVED LAYERS:**

**INDICATOR:** % of forest management commitments completed on time resulting from consultations regarding non-timber features and interests (operational) by licensee

**CONTEXT:** Target                      **RATING:** CSA-O 5.1                      **RATIONALE:**

**VALUE/ISSUE:** The supply and variety of timber and non-timber products, services and benefits on the DFA.

**MGMT INTENT:** A sustainable harvest and use of botanical forest products, services and benefits.

BASECASE                      FOREST PRODUCTIVITY                      WILDLIFE                      ECOSYSTEM                      BIODIVERSITY                      WATERSHED                      RECREATION                      AGRICULTURE

**STATIC LAYERS:**

**DERIVED LAYERS:**

**INDICATOR:** % of AAC harvested (operational) by licensee

**CONTEXT:** Target                      **RATING:** CSA-O 5.1                      **RATIONALE:**

**INDICATOR:** Mean Annual Increment (m3/ha/yr) by BEC by licensee

**CONTEXT:** Target                      **RATING:** CSA 5.1                      **RATIONALE:**

# Morice and Lakes IFPA Resource Values (Socio-Economic) - Lakes TSA

VALUE/ISSUE: Vegetation Management (maintain Base Case)

MGMT INTENT: To account for the scope, costs and benefits of basic silviculture requirements related to vegetation management treatments for the achievement of FTG status across all managed stands.

<u>BASECASE</u>	<u>FOREST PRODUCTIVITY</u>	<u>WILDLIFE</u>	<u>ECOSYSTEM</u>	<u>BIODIVERSITY</u>	<u>WATERSHED</u>	<u>RECREATION</u>	<u>AGRICULTURE</u>
Not Considered	Based on brush hazard ratings, apply treatments by method (e.g. manual, chemical) based on stand attribute parameters (e.g. specified age or height). Once treated, stands revert from brush impeded TIPSY curves to normal (base case) TIPSY curves. Treatment timing criteria linked to stand attributes - chemical: single treatment in year 3 after planting; manual: single treatment in year 6 after planting.	Same as Base Case	Refer to results of Forest Succession Workshop.	Same as Base Case	Same as Base Case	Same as Base Case	

**STATIC LAYERS:**

**DERIVED LAYERS:**

INDICATOR: Jobs	by method	CONTEXT: Monitor	RATING: S	RATIONALE: Assess under socio-economic
INDICATOR: Jobs	by method	CONTEXT: Monitor	RATING: S	RATIONALE: Assess under socio-economic