

**Morice and
Lakes
Timber
Supply
Areas**

Sustainable Forest Management Report



September 2005



Sustainable Forest Management Report

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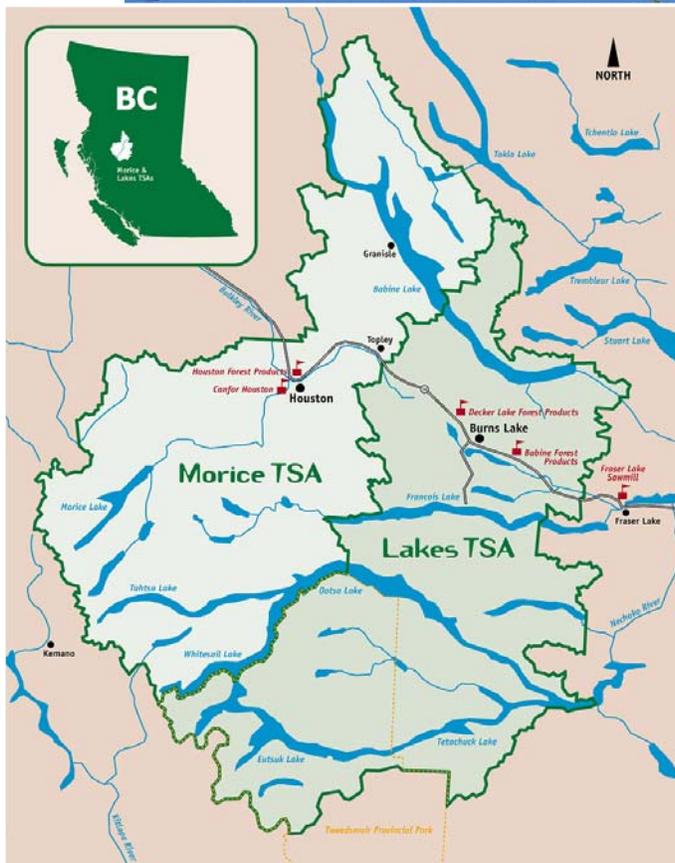
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Morice
Timber Supply Area
&
Lakes
Timber Supply Area

British Columbia
Canada



Introduction

This document is the second annual **Sustainable Forest Management Report** for the **Morice & Lakes Innovative Forest Practices Agreement** (M&L IFPA) and is the first annual report that is substantially complete incorporating all continual improvements aspect that help to manage towards **sustainable forest management (SFM)** on both the Morice and the Lakes Timber Supply Area (TSA) land bases.



A substantial amount of investment and effort has gone into the development of an *SFM Plan* for each TSA. With the implementation of the SFM Plans now underway, a significant amount of work is required to ensure that the forest management methods and practices being used are aligned with the SFM Plans and that they are performing as expected.



Both of the SFM Plans outline SFM performance indicators and targets that the partner licensees of the M&L IFPA have oriented with their forest management operations. An important aspect of SFM is continual improvement, and the monitoring and reporting of measurable SFM indicators is a critical element in evaluating the overall SFM system being used and seeking opportunities for its improvement.

This summary document provides an overview of the M&L IFPA process to date and presents a synopsis of the results of indicator monitoring and reporting from April 1st, 2004 to March 31st, 2005.

The Morice & Lakes Innovative Forest Practices Agreement

The M&L IFPA was awarded in 1999 and is a partnership between six regional forest licensees (Babine Forest Products, Canadian Forest Products, Decker Lake Forest Products, Fraser Lake Sawmills, Houston Forest Products, and L&M Lumber) and the provincial Small Business Forest Enterprise Programs operating in both the Morice and the Lakes Timber Supply Areas. The overall IFPA program was designed by the Province of British Columbia to support licensees in exploring new forest management ideas within an operational setting – with the intent to enhance timber supplies, improve community stability, and better integrate social and environmental values.



The provincial **IFPA program** was designed to enable licensees to explore new forest management ideas in an operational setting – to enhance timber supplies, community stability and social and environmental values.

The program was launched to advance seven goals of government:

- *Develop socially acceptable forest management plans and practices;*
- *Conserve environmental values;*
- *Increase timber supply;*
- *Improve the knowledge base to achieve specific forest management objectives;*
- *Implement a results-based approach to management;*
- *Communicate IFPA results to influence forest management; and*
- *Promote tenure reform.*

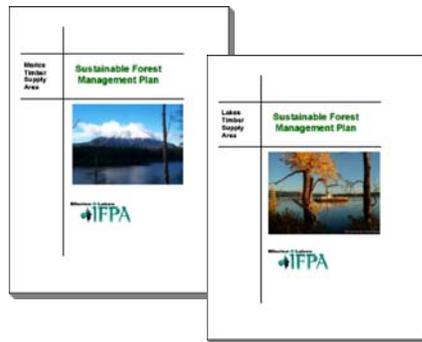


Sustainable Forest Management and the M&L IFPA

The principle behind sustainable forest management is to manage the forest ecosystem towards achieving a balance between social, ecological and economic values; doing so in a manner that satisfies current needs while still allowing future generations to enjoy similar benefits means planning responsibly – with insight, innovation and adaptability.

In Canada, a national framework for SFM has been developed by the *Canadian Council of Forest Ministers* (CCFM) that outlines six national criteria for SFM in Canada. In order to be applicable in the diverse local conditions and situations found across Canada, local-level values, objectives, indicators and targets are developed based on the CCFM criteria.

Developing and implementing SFM Plans for both the Morice and the Lakes TSAs is the central purpose of the M&L IFPA. These SFM Plans have been developed using enhanced approaches to public involvement, forest productivity, and natural disturbance-based management, and they are the instruments that enable the achievement of the M&L IFPA's goals.



Canadian Council of Forest Ministers' Criteria for SFM

1. Conservation of Biological Diversity
2. Maintenance and Enhancement of Forest Ecosystem Condition and Productivity
3. Conservation of Soil and Water Resources
4. Forest Ecosystem Contributions to Global Ecological Cycles
5. Multiple Benefits to Society
6. Accepting Society's Responsibility for Sustainable Development



M&L IFPA Public Involvement Process

The Morice & Lakes IFPA includes a significant public involvement component. In developing the SFM Plans for the two TSAs, over 100 meetings were held with local participants who represented a wide range of stakeholder interests. Well over 200 people with an interest in how local resources are managed have contributed their knowledge and expertise to the development of the SFM Plans; these dedicated volunteers from the public have helped develop the goals, objectives and indicators needed to deliver the M&L IFPA SFM Plans.

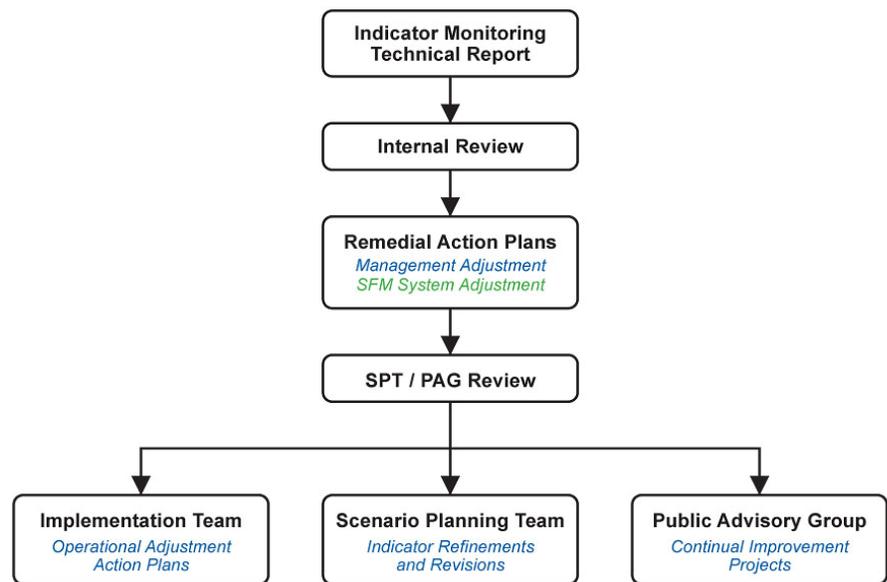


M&L IFPA Continual Improvement Process

Continual improvement includes the incorporation of new information and knowledge as well as modifications to the SFM system as a result of what is learned from indicator monitoring. Indicator results provide a means to evaluate how well management objectives are being met, and determine whether desired values are being achieved. The continual improvement process may also reveal unforeseen issues with the SFM system being used. Addressing those issues may require adjusting the SFM system in part, or as a whole.

As part of the M&L IFPA continual improvement process (flowchart at right), a Technical Indicator Report is prepared to support each SFM Plan in terms of indicator monitoring, reporting and continual improvement.

The Technical Indicator Report compiles updated information in order to observe how management and practices are performing in relation to the indicator targets that have been established. This provides feedback to evaluate whether management and practices have been effective in achieving the indicator targets or whether adjustments are needed.



Once assembled, this information is reviewed with the Public Advisory Group(s) for their input and feedback. To ensure consistency and enable year-to-year comparisons, the licensees – and the M&L IFPA – report indicator status based on Standard Operating Procedures established for indicator reporting. In addition, comments and recommendations are provided by the licensees that assist the M&L IFPA in evaluating each indicator and making any changes that may be required. This information supports the M&L IFPA in making improvement recommendations for each indicator. Such recommendations can include operational adjustments, refinements to indicators, and continual improvement projects.

Applications of the M&L IFPA SFM Plans

Given the significant amount of investment and stakeholder involvement in their development, the SFM Plans for the M&L IFPA have been built to suit multiple applications and requirements. As such, the SFM Plans are linked to the following programs and processes:

IFPA Requirements

The primary purpose of the SFM Plans (and accompanying documents) is to provide a strategic and supporting role for the Forestry Plan required for Innovative Forest Practices Agreements under Section 59.1 of the Forest Act. ►

BC Forest and Range Practices Act

Under the BC Forest and Range Practices Act, these SFM Plans can be used to support results and/or strategies contained in Forest Stewardship Plans that are submitted by forest licensees.



Forest Investment Account

Under the Forest Investment Account (FIA) system, the SFM Plans provide Tweedsmuir Forest Ltd with the strategic direction to guide and support FIA investments (i.e. Land Based Investment Rationale).

Forest Certification Requirements



These SFM Plans have been developed to be “certification enabling”. As such, they follow the nationally recognized Canadian Council of Forest Ministers framework for SFM. M&L IFPA licensees have been able to take the SFM Plans and utilize them – as a whole, or in part – to meet voluntary forest certification standards (e.g. CSA SFM Z809-2002). To date, three of the M&L IFPA licensees have achieved certification under voluntary and independent SFM forest certification processes.

BC Ministry of Sustainable Resource Management Planning Processes

Both of the SFM Plans have been integrated with the Land & Resource Management Plans developed by the Ministry of Sustainable Resource Management (MSRM) for the Moricé and Lakes planning areas. As such, there has been an effective exchange of learning and information between the M&L IFPA and the MSRM planning processes. Where applicable, the M&L IFPA indicator targets have been developed to be consistent with the Land & Resource Management Plan (LRMP) guidelines. In addition, the M&L IFPA has adopted some objectives from Sustainable Resource Management Plans (SRMPs).



Bark Beetle Management Strategies



Given that the landscapes within the M&L IFPA are severely impacted by bark beetles, the SFM Plans have integrated Bark Beetle Management Strategies for the M&L IFPA area. The Plans include specific indicators and targets to address sustainable forest management in the midst of significant bark beetle infestations.

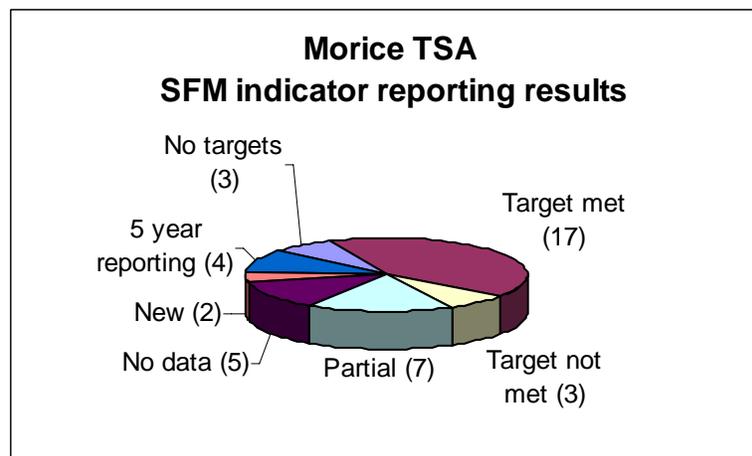
Indicator Reporting for the M&L IFPA

This is the second document prepared which summarizes the annual M&L IFPA indicator reporting results. The direct application of SFM in the M&L IFPA supports ongoing efforts to make improvements in the reporting process as more information is gained and understood about SFM performance monitoring using indicators.



Summary of Reporting Results – Morice TSA

Figure 1. SFM Indicator Reporting Results (Morice TSA)



The categories listed on the charts are as follows:

“Target met” – This refers to the number of indicators where the targets have been met (as specified in the SFM Plan).

“Partial” – This refers to the number of indicators where at least one licensee has not met the target (as specified in the SFM Plan). However, the majority of licensees have met their targets.

“No Targets” – This refers to the number of indicators where targets have not yet been established for the indicators. As such, a performance assessment cannot be completed. Further analysis is being completed to develop targets, and it is anticipated these will be in place for the next reporting period.

“No Data” – This refers to the number of indicators where data were not available in order to generate the modelling results (e.g. roads updates). It is anticipated these data will be in available for the next reporting period.

“5 year reporting” – This refers to the number of indicators that are being reported every 5 years.

“Target not met” – This refers to the number of indicators where the targets have not been met (as specified in the SFM Plan).

“New” – This refers to the number of new indicators that have been added during this reporting period. As such, monitoring results for new indicators will be reported in the next period.

Tables 1 – 6 shown on the subsequent pages relate to the above chart (Figure 1) and summarize the reporting results for each of the SFM indicators (in the categories described above).

Table 1. Morice TSA Indicators (targets met)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Number of communications by type by licensee	M02	Yes	The targets have been met. The target only applies to written communication, so it is recommended that the indicator be worded to align with the target (i.e. written communication).
Number of aboriginal participation opportunities by licensee	M05	Yes	Targets have been met. It is recommended that applicable Licensees use the most current traditional territories map (from Nadina District) for subsequent reporting of this indicator. This indicator was added in 2004 to fulfill the CSA certification requirements of Canfor and BCTS.
Number of continual improvement–related projects in the DFA by licensee	M06	Yes	Targets have been met. It is recommended that an extension component be added to the indicator detail sheet (i.e. under “strategy, practices, methods, assumptions and criteria) in order to more fully meet the objectives associated with this indicator
Percent of area less than VEG by recreation class by licensee	M11	Yes	Targets have been met. No further recommendations
Percent area in suitable forage opportunity class by LU by licensee	M13	Yes	Targets have been met. No further recommendations
Percent forest in each patch size class by LU by NDT by licensee	M17	Yes	Targets have been met. It is recommended that interim targets be defined (i.e. 5-10 years) since many of the targets are long term (50 – 100 years), and don’t provide an effective performance measure.
Percent harvest volume by harvest method by licensee	M18	Yes	This indicator is to be reported in five year intervals; therefore the next reporting year is 2007/8. In the Morice TSA, this is not considered to be an effective indicator since there is such a small proportion of the TSA that is suitable for cable harvesting (i.e. < 1%). It is recommended that this indicator be dropped.

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent seral stage distribution by non-timber tenure license by forest licensee	M19	Yes	Targets have been met. No further recommendations.
Ratio of annual mill consumption to AAC apportionment harvested by licensee	M21	Yes	Target met. No further recommendations.
Percentage of blocks meeting NAR disturbance objectives by licensee	M23	Yes	Target met. No further recommendations.
Percentage of forest management commitments completed on time resulting from consultations regarding non-timber features and interests by licensee	M27	Yes	Target met. No further recommendations.
Ratio of capital expenditures to depreciation by licensee	M28	Yes	Target met. No further recommendations.
Area of arable land (Ha/5yr.) within contributing and non-contributing forest converted to agricultural lease by agricultural unit in licensee operating area	M42	Yes	Target met. No further recommendations.
Benefits directed into local communities by licensee	M43	Yes	Target met. No further recommendations.
Public Advisory Group established and maintained according to approved Terms of Reference	M50	Yes	Target met. No further recommendations.
Percent of Fires Burning During Poor of Fair Air Quality Conditions by Licensee	M56	Yes	All licensees have met the targets. This was a new indicator for BCTS in 2004, therefore, no data was available for this reporting period (this indicator will be reported by BCTS in subsequent reporting periods).

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Ecosystem Carbon Storage by hectare by year (t) by licensee	M57	Yes	Targets met. Calculation of indicator needs to be clarified with SFM plan.

Table 2. Morice TSA Indicators (targets partially met)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Number of participation opportunities by opportunity type	M04	Partial	The target for “displays” has not been met, however, this is not considered to have adverse implications toward meeting the objective. It is recommended that the target be removed for “displays” category (i.e. report only)
Percentage of AAC harvested by licensee	M20	Partial	Two of the licensees (Canfor & HFP) met the target, whereas FLSM did not harvest in the Morice TSA in 2004 (Operations were moved out of the Morice TSA to address beetle infestations within the Lakes TSA and Vanderhoof Forest District) and BCTS was under the target amount as well. The target relates to the obligations under the licensee over a 5 year period; therefore it is expected that licensees that do not meet targets on an annual basis, must meet targets by the end of their 5 year period.
Percentage of total goods and services provided by local vendors by licensee	M24	Partial	All licensees met target with the exception of Canfor. This is due to one major contractor changing the location of their mailing address to outside the TSA. This is not expected to have any adverse implication in meeting the objective. It is recommended that it may be necessary to revisit target due to these circumstances.
Percent seral stage distribution by ecosystem and wildlife value class by licensee	M31	Partial	All targets have been met with the exception of BCTS in “Rare Ecosystems” and Canfor in “Rare Ecosystems”. With respect to targets that have not been met in “Rare Ecosystems” it is recommended that the target be changed so that no new harvesting will occur in those areas (currently, the target will always be violated, therefore is not sensitive).
Percent seral stage distribution by LU by NDT by BEC by licensee	M32	Partial	All targets have been met with the exception of Canfor in 2 of 24 categories. There are no adverse implications for not meeting these targets. This indicator is not considered effective as an annual reported indicator and it is recommended that the reporting interval be changed to every 5 years.

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent species composition of harvest volume by licensee	M35	Partial	Canfor met all the targets. HFP, FLSM and BCTS did not meet all targets. There are no adverse implications to not meeting the Balsam and Spruce targets. The focus for this indicator is meeting the pine targets to address the MPB.
Percentage of comments receiving response by type by licensee	M54	Partial	BCTS and HFP met the target, whereas Canfor did not meet the target. Canfor will re-affirm its business processes with staff. Tweedsmuir is to be removed from the reporting since it has no forest management mandate.

Table 3. Morice TSA Indicators (no targets)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent of detected beetle infested tree removed / destroyed within one year by licensee	M26	No targets	This indicator is not considered effective as a measurement to assess achievement toward objective due to the progression of the beetle. This indicator will be revised to reflect harvest based on stand level targets (e.g. % of total harvest from beetle infested stands – similar to L23).
Percent area in Aspen Leading Stands within Existing and Potential Range by LU by licensee	M36	No targets	Targets have not been established for this indicator for this reporting period. This will be kept as a monitor only indicator.
Area treated by treatment type by licensee	M41	No targets	Targets have not been set for this indicator for this reporting period. This will be kept as a monitor only indicator.

Table 4. Morice TSA Indicators (no data for reporting)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent of gross forest area converted to permanent access by licensee	M25	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent total area by wildlife value class by LU by licensee	M37	No data	This indicator was not reported this year due to logistical constraints (lack of required data to generate current status).
Road density by road phase by ecosystem and wildlife value class by licensee	M46	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.
Road density by road phase by recreation class by licensee	M47	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.
Road density index (RDI) by watershed by licensee	M52	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.

Table 5. Morice TSA Indicators (targets not met)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent area less than 3m in height in stream RMAs by LU by Sensitive Watershed by licensee	M10	No	Sensitive watershed have been identified, however, this indicator requires an operational component to conduct evaluation of these sensitive watersheds (has not been completed). It is recommended that the detail indicator sheet needs to be revised to be more explicit in the operational component /requirements to meet the intention of this indicator. Also, an SOP for the operational component will need to be established.
Percent of area less than VEG by VQO by Scenic Area by licensee	M12	No	Scenic Areas with areas less than VEG have been identified; however, this indicator requires an operational component to conduct evaluation of these scenic areas that have not been completed). It is recommended that the detail indicator sheet needs to be revised to be more explicit in the operational component /requirements to meet the intention of this indicator. Also, an SOP for the operational component will need to be established.

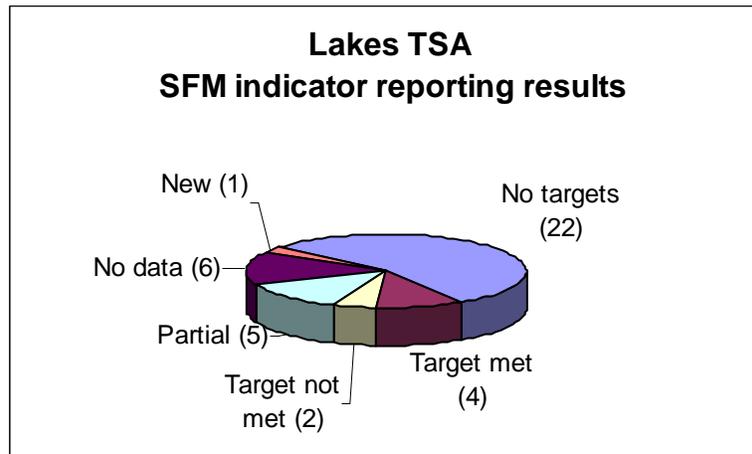
Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent area retained in WTR by LU by BEC by licensee	M15	No	<p>Reduced levels of retention will be prescribed in blocks proposed for harvesting within landscape units that have WTR levels above the target and variance to move toward the target as harvesting is conducted.</p> <p>Increased levels of retention will be prescribed in blocks proposed for harvesting within landscape units that have WTR levels below the target to move toward and achieve the target as harvesting is conducted.</p> <p>The time to meet the targets will vary by LU and BEC combination and harvest rate for the LU.</p>

Table 6. Morice TSA Indicators (new indicators)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percentage of identified high hazard structures with action plans developed by Licensee	M07	New	This is a new indicator, and will be reported in the next annual SFM report.
Percent of Harvesting by Licensee where Recommended Operational Guidelines have been applied to Retain Structural Habitat Elements	M53	New	This is a new indicator, and will be reported in the next annual SFM report.

Summary of Reporting Results – Lakes TSA

Figure 2. SFM Indicator Reporting Results (Lakes TSA)



The categories listed on the chart above are as follows:

“Target met” – This refers to the number of indicators where the targets have been met (as specified in the SFM Plan).

“Partial” – This refers to the number of indicators where at least one licensee has not met the target (as specified in the SFM Plan). However, the majority of licensees have met their targets.

“No Targets” – This refers to the number of indicators where targets have not yet been established for the indicators. As such, a performance assessment cannot be completed. Further analysis is being completed to develop targets, and it is anticipated these will be in place for the next reporting period.

“No Data” – This refers to the number of indicators where data were not available in order to generate the modelling results (e.g. roads updates). It is anticipated these data will be in available for the next reporting period.

“5 year reporting” – This refers to the number of indicators that are being reported every 5 years.

“Target not met” – This refers to the number of indicators where the targets have not been met (as specified in the SFM Plan).

“New” – This refers to the number of new indicators that have been added during this reporting period. As such, monitoring results for new indicators will be reported in the next period.

Tables 7 - 12 shown on the subsequent pages relate to the above chart (Figure 2) and summarize the reporting results for each of the SFM indicators (in the categories described above).

Table 7. Lakes TSA Indicators (targets met)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Number of communications by type by licensee	L2	Yes	The targets have been met. The target only applies to written communication, so it is recommended that the indicator be worded to align with the target (i.e. written communication).
Percentage of total goods and services provided by local vendors by licensee	L20	Yes	The targets are based on 2002 status for a baseline level. Canfor was the only licensee that provided 2002 data, and therefore they met the targets. The other licensees (BCTS and BFP) provided data for this reporting period that will form the baseline target for subsequent reporting periods.
Percent of harvest volume from beetle attacked stands by licensee	L23	Yes	Target met. No further recommendations.
Percentage of comments receiving response by type by licensee	L47	Yes	Targets have been met. It is recommended to remove the ML-IFPA (i.e. Tweedsmuir Forest Ltd.) from the list of reporting organizations since it has no forest management mandate.

Table 8. Lakes TSA Indicators (targets partially met)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percentage of blocks meeting NAR disturbance objectives by licensee	L19	Partial	All licensees met targets with the exception of BCTS. The BCTS did not meet the target due to new road construction through an existing block. This will be rectified through an amendment to the NAR objective (completion by Aug 2005).

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percentage of forest management commitments completed on time resulting from consultations regarding non-timber features and interests by licensee	L24	Partial	BCTS met the target. Canfor and BFP did not meet the targets within the reporting period; however, the targets were met shortly after, therefore, there are no adverse implications of not meeting the target.
Benefits directed into local communities by licensee	L35	Partial	All licensees met the targets with the exception of Canfor. By not meeting the target, social benefits expected through the commitment to the SFM process may not be realized. It is expected that the target will be met by Aug 2005 by Canfor developing a clear implementation strategy to achieve the objective.
Percentage of AAC harvested by licensee	L6	Partial	All licensees in the Lakes TSA met the target with the exception of Canfor. Canfor's license in the Lakes TSA is relatively small (< 60,000 m ³ and thus is only harvested periodically. The target will be met over the 5 year period).

Table 9. Lakes TSA Indicators (no targets)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent of area less than VEG by recreation class by licensee	L11	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for analytical indicators. Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent of area less than VEG by VQO by Scenic Area by licensee	L12	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for analytical indicators. Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent area of the THLB and non-contributing forest by beetle hazard type (extreme and high) by licensee	L13	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for analytical indicators. Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent area retained in WTPs by LU by BEC by licensee	L14	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for analytical indicators. Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent forest in each patch size class by LU by NDT by licensee	L15	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for analytical indicators. Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent harvest volume by harvest method by licensee	L16	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent seral stage distribution by non-timber tenure license by forest licensee	L17	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent seral stage distribution by ecosystem and wildlife value class by licensee	L25	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent seral stage distribution by LU by NDT by BEC by licensee	L26	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent species composition by BEC by licensee	L27	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent total area by wildlife value class by LU by licensee	L29	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Area treated by treatment type by licensee	L33	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Area harvested (ha/yr) within the agriculture / settlement RMZ by licensee	L34	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Equivalent clear cut area (ECA) by watershed by licensee	L37	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Mean annual increment (m ³ / ha / year) by BEC by licensee	L41	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for this indicator (based on modelling forecasts). Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.
Percent area less than 3m in RMA by LU by silviculture system by licensee	L9	No targets	The Lakes SFM plan has not been completed. As such, targets have not been established for analytical indicators. Work to complete the Lakes SFM plan will occur in 2006, and once targets have been developed, the performance of these analytical indicators will be reported.

Table 10. Lakes TSA Indicators (no data for reporting)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent of gross forest area converted to permanent access by licensee	L21	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.
Road density by road phase by ecosystem and wildlife value class by licensee	L38	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.
Road density by road phase by recreation class by licensee	L39	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Road density index (RDI) by watershed by licensee	L45	No data	Road update data were not available for the reporting period; therefore, the current status for this indicator can not be reported. It is expected that roads data will be available next year and therefore, will be reported on in future SFM reports.

Table 11. Lakes TSA Indicators (targets not met)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Number of participation opportunities by opportunity type	L4	No	This is largely a result of a lack SFM planning activities in the Lakes TSA that require public involvement. As such, the Lakes TSA PAG has been inactive. The process to complete the Lakes SFM plan will commence in the 2006, and public input will be required.
Public Advisory Group established and maintained according to approved Terms of Reference	L42	No	An approved Terms of Reference is on file, however, the ToR were not reviewed with the PAG during the reporting period. PAG activity was dormant since there was no activity related to the Lakes SFM Plan. The implication of not meeting the target is that the IFPA cannot meet its strategic objective. In order to meet this target, the Lakes PAG needs to be re-activated. The technical committee will assess the current status of the PAG, assess gaps in representation and recruit PAG members where necessary. Furthermore, the PAG TOR will have to be reviewed and updated. These actions will be imperative to complete the Lakes SFM plan.

Table 12. Lakes TSA Indicators (new indicators)

Indicator	Indicator Number <i>M = Morice TSA</i> <i>L = Lakes TSA</i>	Targets Met?	Comments / Actions
Percent of Harvesting by Licensee where Recommended Operational Guidelines have been applied to Retain Structural Habitat Elements	L46	New	The original L46 had been dropped as a Lakes indicator. The revised Morice indicator (M53) may be considered as alternative to dropping this indicator

List of Acronyms

AF: Alpine Forest	NSR: Not Satisfactorily Restocked
AT: Alpine Tundra	NSYT: Natural Stand Yield Table
AAC: Allowable Annual Cut	OAF: Operational Adjustment Factor
BCFS: BC Forest Service	OGMA: Old Growth Management Area
BCTS: BC Timber Sales Program	OPR: Operational Planning Regulation
BEC: Biogeoclimatic Classification	OGSI: Old Growth Site Index
BEO: Biodiversity Emphasis Option	PAS: Protected Area Strategy
BMP: Best Management Practice	RDI: Road Density Index
CWD: Coarse Woody Debris	RFA: Regenerating Forest Area
DFA: Defined Forest Area	RMA: Riparian Management Area
DFO: Federal Department of Fisheries and Oceans	RMZ: Riparian Management Zone
ESA: Environmentally Sensitive Area	ROCE: Return On Capital Employed
ESSF: Engelmann Spruce-Subalpine Fir	RPM: Roads Performance Model
FEN: Forest Ecological Network	SBS: Sub-Boreal Spruce
FLSM: Fraser Lake Sawmills	SIBEC: Site Index Estimates by Site Series
FPC: Forest Practices Code	SOP: Standard Operating Procedure
GIS: Geographic Information System	SP: Silviculture Prescription
HFP: Houston Forest Products	TFL: Tree Farm License
ICH: Interior Cedar-Hemlock	THLB: Timber Harvesting Land Base
IRMA: Integrated Resource Management Area	TSA: Timber Supply Area
IWAP: Interior Watershed Assessment Program	TSR: Timber Supply Review
LRMP: Land and Resource Management Plan	WTP: Wildlife Tree Patch
LRUP: Local Resource Use Plan	WTR: Wildlife Tree Retention
MAI: Mean Annual Increment	
MELP: BC Ministry of Environment, Lands and Parks	
MHA: Minimum Harvest Age	
MHV: Minimum Harvest Volume	
MOF: BC Ministry of Forests	
MSYT: Managed Stand Yield Table	
NAR: Net Area to be Reforested	
NcBr: Non-Commercial Brush	
NDT: Natural Disturbance Type	
NDT1: ecosystems with rare stand-initiating events	
NDT2: ecosystems with infrequent stand-initiating events	
NDT3: ecosystems with frequent stand-initiating events	
NDT4: ecosystems with frequent stand-maintaining fires	
NDT5: alpine tundra and subalpine parkland	

This report provides summary information on our sustainable forest management plans and monitoring systems. Detailed indicator performance monitoring reports and recommendations for both the Morice and Lakes SFM plans can be viewed by contacting the IFPA General Manager.

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