# Fort St. John Pilot Project

# Sustainable Forest Management Plan
# 2011 CSA and Regulatory Annual Report

**For the period April 1, 2011 to March 31, 2012**

BC Timber Sales
Canadian Forest Products Ltd.
Cameron River Logging Ltd.
Louisiana-Pacific Canada Ltd.
Tembec Inc.
Dunne-za LP
Peace Valley OSB

## Final Report

October 26, 2012

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## EXECUTIVE SUMMARY

### Highlights of 2011-2012

- 2011-12 was the first year of operation under SFMP# 2.
- An aggressive program of sanitation and salvage harvesting was implemented during the reporting period to limit the spread of Mountain Pine Beetle within the Fort St. John TSA.
- In the face of unprecedented negative economic conditions prevalent in the forest industry over the last 5 years, the participants achieved consistent positive performance regarding overall conformance to indicator targets - from 59 of 61 indicators (two non conformances) in 2007 Annual Report, 61 of 61 indicators (0 non conformances) in the 2008 Annual Report, 59 of 61 indicators (two non conformances) in 2009 Annual Report, 61 of 62 (one non conformance) in the 2010 Annual Report and 62 of 65 (3 non conformances) in the 2011 Annual Report.
- For the period of April 1, 2011 to March 31, 2012, the participants achieved the performance indicator objectives on 26 the 28[1] regulatory landscape level strategy indicators (Section 42 of the FSJPPR, or affecting Part 3 Division 5 of the FSJPPR-see Section 11).

### Summary of Participants Consistency with the Landscape Level Strategies

The participants' progress in implementing the landscape level strategies contained in the SFMP, as measured by the degree of achievement of the target or acceptable variance of the regulatory indicators, is detailed in Section 11, and summarized as follows:

Timber Harvesting Strategy - Activities were consistent with the targets or acceptable variances on 100% (7 of 7) of the Fort St. John Pilot Project Regulation (FSJPPR) Section 42 performance indicators, and 100% (3 of 3) of non regulatory SFMP indicators (CSA indicators) linked to the Timber Harvesting Strategy.

Access Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (2 of 2) of the FSJPPR Section 42 performance indicators, and 100% (1 of 1) of the Section 35 (6) performance standard indicators and 100% (1 of 1) of non regulatory SFMP indicators (CSA indicators) linked to the Access Management Strategy.

Patch Size, Seral Stage and Adjacency Strategy - Activities were consistent with the targets or acceptable variances on 100% (4 of 4) of the FSJPPR Section 42 performance indicators, and 100% (2 of 2) of the Section 35 (6) performance standard indicators linked to the Patch size, Seral Stage and Adjacency Strategy.

Riparian Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (4 of 4) of the FSJPPR Section 42 performance indicators, and 100% (2 of 2) of the Section 35 (6) performance standard indicators linked to the Riparian Management Strategy.

Visual Quality Management Strategy - Activities were not consistent with the target or acceptable variance for the Section 42 performance indicator linked to the Visual Quality Strategy.

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[1] Two indicators, # 2 (Seral Stage) and # 3 (Patchsize) apply to both Forest Health and Patch Size/Seral Stage Landscape Level Strategies

Forest Health Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (5 of 5) of the Section 42 performance indicators and 100% (1 of 1) non regulatory SFMP indicators linked to the Forest Health Management Strategy.

Range and Forage Management Strategy - Activities were consistent with the targets or acceptable variances on 100% (2 of 2) of the Section 42 performance indicators, and 100% (1 of 1) non regulatory SFMP indicators linked to the Range and Forage Management Strategy.

Reforestation Strategy (conifer) - Activities were consistent with the targets or acceptable variances on 75% (3 of 4) Section 42 performance indicators, on 100% (2 of 2) Section 35 (6) performance standard indicators and 100% (1 of 1) non regulatory SFMP indicators linked to the Reforestation Strategy.

Soil Management Strategy – Activities were consistent with the target or acceptable variance for the Section 42 performance indicator linked to the Soil Management Strategy.

**Summary of Changes to the Indicator's or their Status**

The following table summarizes non-conformances to indicators in 2011, (note that indicators in red text refer to those related to regulatory requirements under the FSJPPR) and revisions made to the SFMP for the 2011 reporting year. Also noted are revisions made to the SFMP for the 2012 reporting year.

| Indicator | | Non Conformance |
|---|---|---|
| 29 | Reforestation Assessment | Indicator target not achieved in 2011. |
| 44 | Visual Quality Objectives | Indicator target not achieved in 2011. |
| 63 | Worker Training | Indicator target not achieved in 2011. |
| **Indicator** | | **Significant Revisions,** |
| 61 | Educational Outreach | Indicator and Target revised for 2011 |
| 63 | Worker Training | New indicator for 2011 |
| 64 | PAG Satisfaction Surveys | New indicator for 2011 |
| 65 | Availability of Information on Issues of Concern | New indicator for 2011 |
| 54 | Dollars Spent Locally on Each Woodlands Phase | Indicator Target revised for 2012 |
| 55 | Direct and Indirect Employment | Indicator and Target revised for 2012 |
| 66 | Deletions to Forest Area | New indicator for 2012 |

For the 2011-12 reporting year 3 indicators were added to the SFMP to address the core indicator requirements of the CSA Z809-08 standard. For the purposes of the *Fort St.John Pilot Project Regulation*, these indicators are considered as non legal plan content, and therefore did not require public review and comment.

These revisions were discussed with the PAG and incorporated in SFMP# 2 in the spring of 2011.

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## APPENDICES

## 1. INTRODUCTION AND OVERVIEW

This annual report summarizes activities completed between April 1, 2010 and March 31, 2011 on tenures included in the Fort St. John Pilot Project. These tenures include BC Timber Sales, FL A18154 and PA 12 held by Canadian Forest Products Ltd, FL A59959 held by Cameron River Logging Ltd., FL A60972, held by Tembec Inc., FL A60049 and FL A60050 held by Louisiana-Pacific Canada Ltd, FL A85946 held by Peace Valley OSB and FL A56771 jointly held by Dunne-za Ventures and Canadian Forest Products Ltd.

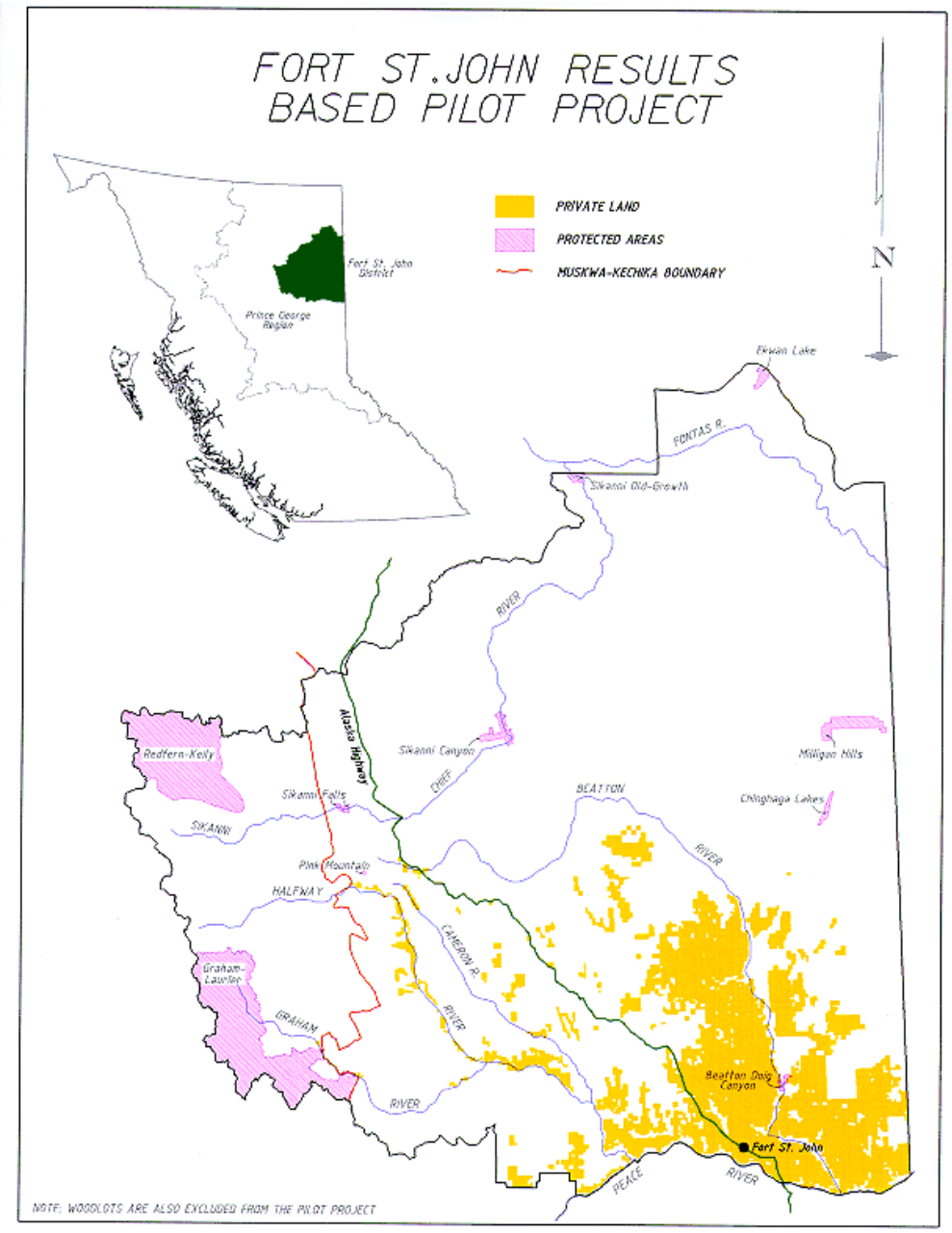



**Figure 1: Project Area Map**

The Pilot Participants achieved registration under the Canadian Standards Association CAN/CSA Z809-02 Sustainable Forest Management System for the Fort St. John TSA (see Figure 1) forestry operations on October 17, 2003. In partial fulfillment of achieving registration, a public group, the Public Advisory Group (PAG), was formed in 2001 to help identify and select values, objectives, indicators, and targets for sustainable forest management. The original indicators and targets identified by the PAG, along with associated forest management practices to achieve those objectives, were detailed in the Sustainable Forest Management Plan# 1 (SFMP# 1) and revised in SFMP# 2. The participant's registration was renewed on February 6, 2009. The 2011 Annual Report is a summary report on the status of each indicator. The 2011 report includes revisions to the indicators, targets, or the way they are measured, as noted in amendment # 1 to SFMP# 2. Future revisions, if any, to the indicators, targets, or the way they are measured will be captured in subsequent annual reports.

This report is prepared annually, as required by the CSA standard and the *FSJPPR*. In this report, each indicator is reiterated, and a brief status report is provided in Section 3. For additional background information on the indicators and targets, or the implementation and monitoring requirements, the reader should refer to the SFMP.

In addition to CSA requirements, this report includes information required by the *FSJPPR* (Section 51) on the participants' access management, harvesting, and reforestation activities (Sections 4 to 7), as well as variances (Section 8), compliances (Section 9), self-approved plan amendments (Section 10), and a statement on progress on Landscape Level Strategies (Section 11). **The section headings and appendices of this report that address the legal requirements of the *FSJPPR* are identified in the index, as well as throughout the report, in red text.**

The 2011-12 annual report differs from the 2009 report in that results for several of the indicators will not be presented again until SFMP# 2 is replaced. Measurement for the indicators listed below is required only on an "SFMP" timeframe. That is, they are analyzed at the time the SFMP is developed (in addition, analyses are conducted to ensure FOS's are consistent with the SFMP) and when the SFMP is replaced. The indicators referenced are:

- 1 - Forest Types
- 2 - Seral Stages
- 3 - Patch Size
- 8 - Shrubs
- 17 - Representative Examples of Ecosystems
- 34 - Peak Flow Index

Analysis of these indicators, and comparison against the condition present when the SFMP was developed, illustrates both the effect of changing stand dynamics (i.e. forests aging) and the impact of the participants' activities in the DFA. The results will account for the areas amended into the FOS, in response to wildfires and Mountain Pine Beetle, between 2010 and 2016.

Measurement and reporting of progress to the targets for these indicators requires various levels of spatial analysis. In order to obtain as direct a comparison as possible, the participants strove to mirror the baseline data used at the time the SFMP was developed. The forest inventory data, circa 2003, was obtained from the B.C. government data warehouse (LRDW). Much of the data results, and comparisons with the baseline results

presented in the SFMP has given the participants confidence that most of the forest inventory data mirrors that used during the development of the Plan. However there are indications that the inventory dataset is not a 100% match, and may have skewed some of the results slightly. It is possible that a portion of the Vegetation Resource Inventory (VRI) data was used during the development of the SFMP, and not included in the 2003 inventory data used for the 2009 Annual Report.

Monitoring procedures as outlined in the SFMP were followed to the best of the participants' abilities. However, full description for all the detailed procedures used in the analyses was not always available due to incomplete documentation and staffing changes. Therefore, the participants had to make some assumptions during analysis that may or may not have been consistent with those done previously. In the participant's estimation, variation resulting from this uncertainty is likely to be quite low, but still possible.

Another source of potential variation likely lays in the private land, lease, and woodlot spatial data used. To complete the analyses for this Annual Report, the participants utilized the most current private land, lease, and woodlot data. The data for these items available to the participants at the time the SFMP was developed was unreliable, and has not been archived. Changes in these data has resulted in a minor reduction in the size of the forested land base managed by the participants.

These issues account for the variation in the forest inventory data presented between the analyses completed when the SFMP was developed and those completed to reflect the current forest condition for the 2009 and this the 2011 annual report.

## 2. DESCRIPTION OF THE PILOT PROJECT

In June 1999 the BC government added Part 10.1 to the *Forest Practices Code of BC Act* to enable results-based pilot projects. The intent of the pilot projects is to test ways to improve the regulatory framework for forest practices while maintaining the same or higher levels of environmental standards.

Canadian Forest Products Ltd., Slocan Forest Products Ltd., Louisiana-Pacific Canada Ltd., and the Ministry of Forests Small Business Forest Enterprise Program prepared a detailed pilot project proposal that provided the basis for the *Fort St. John Pilot Project Regulation* (FSJPPR). In 2001, the participants established a public advisory group (PAG) comprised of local people representing a variety of interests. The public advisory group reviewed the draft detailed project proposal and draft regulation, reviewed comments from the general public and provided advice to government on the suitability of the project. Cabinet accepted the proposal and a draft regulation late in 2001. The regulation was approved as effective December 1, 2001.

The *Fort St. John Pilot Project Regulation* requires the establishment of a strategic plan for the pilot project area, known as a Sustainable Forest Management (SFM) Plan. The participants prepared the SFMP with the guidance of a local public advisory group and a scientific/technical advisory committee.

The SFMP was approved by the Regional Manager, Northern Interior Forest Region, Ministry of Forests and the Regional Director, Omineca-Peace Region, Ministry of Water,

Land and Air Protection, in April 2004. A revised SFMP was prepared and submitted to Government for approval in July 2010. SFMP# 2 is has undergone thorough review by the PAG, First Nations, the public and scientific technical advisors and Government. SFMP# 2 was approved by Government on November 1, 2010.

## 3. SFM INDICATORS, OBJECTIVES AND TARGETS

The format of each status report is described below:

### X.X INDICATOR

| Indicator Statement | Target Statement |
|---|---|
| A reiteration of the indicator as identified in the landscape level strategy or the SFM matrix. | A specific statement describing a desired future state or condition of an indicator. Targets are succinct, measurable, achievable, realistic, and time bound. |
| **SFM Objective:** A description the SFM objectives that this indicator and target relate to. | |
| **Linkage to FSJPPR:** If applicable, a brief statement regarding whether this indicator affects performance requirements of the FSJPPR, or if it will be used to evaluate success of the implementation of the landscape level strategy. | |

***Acceptable Variance:***

This provides the acceptable variance from the desired level of the indicator.

***CURRENT STATUS AND COMMENTS***

This section provides an update on the status of each indicator and objective. The best information available up to and including March 31, 2012 (except where noted) was used for the preparation of this status report.

***REVISIONS***

When required, this section describes suggested revisions to details (e.g., wording, reporting periods) of the indicator and objective. These revisions will be presented to the PAG for their review.

**Status of Indicators in 2011**

### 3.1. FOREST TYPES

| Indicator Statement | Target Statement |
|---|---|
| Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit | All forest type groups by landscape unit will meet or exceed the minimum area percentage in Table 9.[2] |
| **SFM Objective**:<br>Maintain the diversity and pattern of communities and ecosystems within a natural range<br>Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Landscape Level Strategy. | |

[2] Refers to Table 9 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*

**Acceptable Variance:**

There is no acceptable variance for this indicator.

Targets may need to be reviewed following large natural catastrophic events.

***CURRENT STATUS AND COMMENTS***

This indicator monitors the change in the proportion of forest type groups (> 20 years old), within broad groups based on leading tree species, over time. Stands less than 20 years of age are not included as they typically show significant fluctuations in tree species composition each year due to things such as silviculture practices or rapid natural ingress of species in regenerating stands. Forest type groups are the designation of stand types into one of 4 ecologically significant groups – pure deciduous, deciduous leading mixedwood, conifer leading mixedwood, and pure conifer.

The following table (Table 1) is excerted from the recently submitted Forest Operations Schedule #2, and presents the baseline status as of 2010, the SFMP targets by Forest Type and Landscape Unit, and the condition projected to 2016. All forty-four Forest Type / Landscape Unit combination targets are projected to be above the target minimums, and therefore consistent with the SFMP.

The participants' activities are consistent with the target for this indicator. The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).

**Table 1: Forest Types: 2010 status, SFMP targets, and projected 2016 Status**

| Landscape Unit | Forest Type | 2010 Current Status | | 2010 Target Minimum Area | 2010 Target Minimum Area | 2016 Status | |
|---|---|---|---|---|---|---|---|
| | | Area (ha)* | % of L.U. | Percentage | (ha) | Percentage | (ha) |
| Blueberry | Deciduous | 126,729 | 34.6% | 28% | 102,495 | 31.6% | 111,631 |
| | Deciduous Mixedwood | 48,777 | 13.3% | 11% | 40,266 | 13.2% | 46,590 |
| | Conifer Mixedwood | 37,973 | 10.4% | 8% | 29,284 | 12.3% | 43,463 |
| | Conifer | 152,573 | 41.7% | 33% | 120,797 | 43% | 151,990 |
| Blueberry Total | | 366,052 | 100% | | | | |
| Crying Girl | Deciduous | 556 | 1.0% | 1% | 546 | 1.2% | 658 |
| | Deciduous Mixedwood | 928 | 1.7% | 1% | 546 | 1.8% | 998 |
| | Conifer Mixedwood | 915 | 1.7% | 1% | 546 | 1.7% | 957 |
| | Conifer | 52,206 | 95.6% | 76% | 41,499 | 95.4% | 54,161 |
| Crying Girl Total | | 54,604 | 100% | | | | |
| Graham | Deciduous | 2,764 | 1.4% | 1% | 1,963 | 1.5% | 3,475 |
| | Deciduous Mixedwood | 2,142 | 1.1% | 1% | 1,963 | 1.1% | 2,391 |
| | Conifer Mixedwood | 3,540 | 1.8% | 1% | 1,963 | 1.7% | 3,908 |
| | Conifer | 187,878 | 95.7% | 77% | 151,170 | 95.7% | 215,791 |
| Graham Total | | 196,325 | 100% | | | | |
| Halfway | Deciduous | 13,730 | 11.6% | 9% | 10,676 | 10.8% | 13,364 |
| | Deciduous Mixedwood | 7,765 | 6.5% | 4% | 4,745 | 6.7% | 8,291 |
| | Conifer Mixedwood | 5,782 | 4.9% | 3% | 3,559 | 5.5% | 6,743 |
| | Conifer | 91,345 | 77.0% | 62% | 73,546 | 77.0% | 94,951 |
| Halfway Total | | 118,622 | 100% | | | | |

| Landscape Unit | Forest Type | 2010 Current Status | | 2010 Target Minimum Area | 2010 Target Minimum Area | 2016 Status | |
|---|---|---|---|---|---|---|---|
| | | Area (ha)* | % of L.U. | Percentage | (ha) | Percentage | (ha) |
| Kahntah | Deciduous | 63,979 | 37.8% | 30% | 50,826 | 35.6% | 63,502 |
| | Deciduous Mixedwood | 21,232 | 12.5% | 10% | 16,942 | 12.0% | 21,404 |
| | Conifer Mixedwood | 22,217 | 13.1% | 10% | 16,942 | 12.8% | 22,830 |
| | Conifer | 61,990 | 36.6% | 29% | 49,132 | 39.5% | 70,485 |
| Kahntah Total | | 169,419 | 100% | | | | |
| Kobes | Deciduous | 31,736 | 34.7% | 28% | 25,575 | 29.0% | 23,723 |
| | Deciduous Mixedwood | 10,107 | 11.1% | 9% | 8,221 | 10.3% | 8,429 |
| | Conifer Mixedwood | 9,334 | 10.2% | 8% | 7,307 | 11.9% | 9,701 |
| | Conifer | 40,164 | 44.0% | 35% | 31,969 | 48.9% | 39,978 |
| Kobes Total | | 91,341 | 100% | | | | |
| Lower Beatton | Deciduous | 69,470 | 70.6% | 56% | 55,128 | 70.0% | 69,762 |
| | Deciduous Mixedwood | 8,575 | 8.7% | 7% | 6,891 | 8.6% | 8560 |
| | Conifer Mixedwood | 6,494 | 6.6% | 5% | 4,922 | 7.0% | 6,981 |
| | Conifer | 13,904 | 14.1% | 11% | 10,829 | 14.3% | 14,287 |
| Lower Beatton Total | | 98,442 | 100% | | | | |
| Milligan | Deciduous | 38,499 | 29.5% | 24% | 31,282 | 27.3% | 39,885 |
| | Deciduous Mixedwood | 8,739 | 6.7% | 5% | 6,517 | 6.2% | 9,022 |
| | Conifer Mixedwood | 9,223 | 7.1% | 6% | 7,821 | 6.6% | 9,606 |
| | Conifer | 73,882 | 56.7% | 45% | 58,654 | 59.9% | 87,419 |
| Milligan Total | | 130,343 | 100% | N/A | | | |
| Sikanni | Deciduous | 2,422 | 2.2% | 1% | 1,118 | 2.6% | 3,839 |
| | Deciduous Mixedwood | 2,144 | 1.9% | 1% | 2,144 | 2.2% | 3,285 |
| | Conifer Mixedwood | 3,104 | 2.8% | 1% | 1,118 | 2.4% | 3,638 |
| | Conifer | 104,128 | 93.1% | 75% | 83,848 | 92.8% | 138,208 |
| Sikanni Total | | 111,797 | 100% | N/A | | | |
| Tommy Lakes | Deciduous | 62,243 | 22.9% | 18% | 48,974 | 21.6% | 56,536 |
| | Deciduous Mixedwood | 30,505 | 11.2% | 9% | 24,487 | 10.2% | 26,728 |
| | Conifer Mixedwood | 26,783 | 9.8% | 8% | 21,766 | 9.8% | 25,549 |
| | Conifer | 152,546 | 56.1% | 45% | 122,435 | 58.4% | 152,546 |
| Tommy Lakes Total | | 272,078 | 100% | N/A | | | |
| Trutch | Deciduous | 43,229 | 21.3% | 17% | 34,422 | 20.5% | 43,153 |
| | Deciduous Mixedwood | 22,193 | 11.0% | 9% | 18,223 | 10.6% | 22,336 |
| | Conifer Mixedwood | 16,552 | 8.2% | 7% | 14,174 | 8.1% | 16,983 |
| | Conifer | 120,509 | 59.5% | 48% | 97,192 | 60.9% | 128,331 |
| Trutch Total | | 202,483 | 100% | N/A | | | |
| All L.U.'s | Deciduous | 455,357 | 25.1% | N/A | 362,301 | | |
| | Deciduous Mixedwood | 163,107 | 9.0% | N/A | 126,805 | | |
| | Conifer Mixedwood | 141,917 | 7.8% | N/A | 108,690 | | |
| | Conifer | 1,051,125 | 58.0% | N/A | 833,293 | | |
| Total All | | 1,811,506 | | N/A | | | |

Change Monitoring Inventory (CMI)

Since the inception of the pilot project, 78 Change Monitoring Inventory plots have been established in the Defined Forest Area on harvested or burnt areas. The location of these plots is on a systematic 3km square grid overlaid on the DFA. It is intended to establish plots on predefined points located on the grid, where they fall in managed stands, 15 years after harvest. Over time and subsequent re-measurements, the data from these plots can be used to detect long-term changes in managed stands' species composition. There were no CMI plots established during the reporting period. The participants contracted CMI plot work for the fall of 2012.

***REVISIONS***

There are no revisions planned for this indicator.

## 3.2. SERAL STAGES

| Indicator Statement | Target Statement |
|---|---|
| The minimum proportion (%) of late seral stage forest by NDU | The minimum proportion (%) of late seral forest by NDU as identified in Table 11[3] will be met. |
| **SFM Objective**:<br>Maintain the diversity and pattern of communities and ecosystems within a natural range<br>Ecosystem functions capable of supporting naturally occurring species that exist within the range of natural variability<br>Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency and Forest Health Management Landscape Level Strategies. | |

***Acceptable Variance:***

A 1% variance below the target is permissible provided projections indicate the target can be met within 20 years (eg. Boreal Foothills minimum allowable would be 22%).

***CURRENT STATUS AND COMMENTS***

The Seral Stages indicator is in place to ensure that a minimum proportion of late seral stage forest will be present across the DFA through time. It sets limits on harvest planning in later seral stage stands, by Natural Disturbance Unit (note, in SFMP#1 the limits pertained to Landscape Units). A landscape-level analysis (based on NDUs) was conducted when FOS #2 was developed. The projection through 2016, which considered all the newly proposed FOS blocks, indicates that the amount of area in late seral stands through 2016 will be above the minimum targets set for all NDUs in the DFA. Therefore the participants are consistent with the target for this indicator.

The following tables (Table 2, Table 3, Table 4) are excerpted from the FOS#2, and present the results of the most recent seral stage analyses. The 'current condition' values account for the harvesting activities that started prior to 2010. For further detail regarding seral stages target development and application, please

[3] Refers to Table 11 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*

refer to the *Fort St. John Pilot Project Sustainable Forest Management Plan #2 (section 6.2)* and the *Fort St. John Pilot Project Forest Operations Schedule #2*. *(section 3.3)*.

The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).

## Table 2: Boreal Plains conifer Seral Stage 2010 status and projected 2016 status

| Landscape Unit | < 40 years | | | | 40 – 100 years | | | | 101 – 140 years | | | > 140 years | | | | | | (a) Target | Total Area (ha) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2010 | | 2016 | | 2010 | | 2016 | | 2010 | 2016 | | 2010- Current State | | | 2016 | | | | |
| | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | Area (ha) | % | Area (ha) | % | Surplus/ (Deficit) | Area (ha) | % | Surplus/ (Deficit) | | |
| Blueberry | 29,203 | 12.9% | 54,237 | 23.7% | 90,826.00 | 40.0% | 89,033 | 38.9% | 66,680 | 50,541 | 22.1% | 40,509 | 17.8% | | 35,024 | 15.3% | | | 228,835 |
| Crying Girl | 935 | 1.6% | 3,161 | 5.5% | 10,691.00 | 18.8% | 4,029 | 7.1% | 22,554 | 26,342 | 46.2% | 22,759 | 39.9% | | 23,475 | 41.2% | | | 57,007 |
| Halfway | 4,580 | 4.2% | 14,140 | 12.8% | 24,614.00 | 22.7% | 16,973 | 15.3% | 35,069 | 35,786 | 32.3% | 44,325 | 40.8% | | 43,885 | 39.6% | | | 110,784 |
| Kahntah | 2,171 | 2.6% | 4,907 | 5.7% | 35,005.00 | 41.4% | 34,343 | 40.1% | 21,941 | 21,365 | 24.9% | 25,434 | 30.1% | | 25,113 | 29.3% | | | 85,728 |
| Kobes | 4,830 | 9.0% | 10,950 | 19.8% | 10,036.00 | 18.6% | 6,564 | 11.9% | 26,139 | 21,837 | 39.5% | 12,842 | 23.8% | | 15,976 | 28.9% | | | 55,327 |
| Lower Beatton | 1,872 | 8.9% | 2,172 | 10.4% | 8,249.00 | 39.3% | 6,771 | 32.3% | 9,337 | 9,182 | 43.8% | 1,521 | 7.3% | | 2,859 | 13.6% | | | 20,984 |
| Milligan | 5,146 | 4.9% | 3,567 | 3.4% | 73,280.00 | 70.1% | 72,934 | 69.8% | 15,098 | 11,165 | 10.7% | 10,964 | 10.5% | | 16,823 | 16.1% | | | 104,489 |
| Tommy Lakes | 8,873 | 4.5% | 30,846 | 15.5% | 68,500.00 | 34.8% | 57,083 | 28.6% | 71,543 | 67,096 | 33.7% | 48,051 | 24.4% | | 44,306 | 22.2% | | | 199,331 |
| Trutch | 1,938 | 1.3% | 3,927 | 2.7% | 60,506.00 | 41.4% | 51,632 | 35.3% | 46,435 | 50,625 | 34.6% | 37,179 | 25.5% | | 40,174 | 27.4% | | | 146,358 |
| **Boreal Plains NDU Total** | 59,548 | 6.0% | 127,907 | 12.7% | 381,707 | 38.2% | 339,362 | 33.6% | 314,796 | 293,939 | 29.1% | 243,584 | 24.4% | **83,642** | 247,635 | 24.5% | **86,220** | **16%** | 1,008,843 |

2010 - uses all FOS blocks with harvest start date < Jan 1, 2010

2016 - uses FOS blocks with harvest start date >Jan 1, 2010

## Table 3: Boreal Plains deciduous Seral Stage 2010 status and projected 2016 status

| Stand Age | < 40 years | | | | 40 – 100 years | | | | > 100 years | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2010 | | 2016 | | 2010 | | 2016 | | 2010- Current | | | 2016 | | | | |
| Landscape Unit | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Surplus/ (Deficit) | Area (ha) | % | Surplus/ (Deficit) | Target | Total Area (ha) |
| Blueberry | 20,954 | 10.7% | 50,725 | 25.7 % | 107,722 | 55.0% | 89,228 | 45.2% | 67,341 | 34.4% | | 57,619 | 29.2% | | | 197,572 |
| Crying Girl | 181 | 11.2% | 104 | 6.3% | 944 | 58.5% | 763 | 46.5% | 490 | 30.3% | | 773 | 47.1% | | | 1,640 |
| Halfway | 1,523 | 6.6% | 3,038 | 13.2 % | 10,552 | 46.0% | 8,704 | 37.8% | 10,840 | 47.3% | | 11,259 | 49.0% | | | 23,001 |
| Kahntah | 1,312 | 1.6% | 2,134 | 2.6% | 64,596 | 77.7% | 64,316 | 77.4% | 17,203 | 20.7% | | 16,666 | 20.1% | | | 83,116 |
| Kobes | 2,309 | 5.2% | 14,149 | 31.6 % | 16,003 | 36.0% | 9,131 | 20.4% | 26,179 | 58.8% | | 21,449 | 48.0% | | | 44,729 |
| Lower Beatton | 7,973 | 10.0% | 9,588 | 12.0 % | 55,860 | 70.0% | 52,589 | 65.9% | 15,946 | 20.0% | | 17,625 | 22.1% | | | 79,802 |
| Milligan | 3,433 | 7.4% | 2,313 | 5.0% | 38,015 | 81.7% | 38,497 | 82.7% | 5,081 | 10.9% | | 5,720 | 12.3% | | | 46,530 |
| Tommy Lakes | 4,605 | 4.9% | 15,625 | 16.5 % | 55,025 | 58.4% | 45,427 | 48.1% | 34,633 | 36.7% | | 33,377 | 35.3% | | | 94,429 |
| Trutch | 445 | 0.7% | 1,359 | 2.1% | 43,158 | 65.7% | 34,618 | 52.7% | 22,095 | 33.6% | | 29,752 | 45.3% | | | 65,729 |
| **Boreal Plains NDU Total** | 42,735 | 6.7% | 99,035 | 15.6 % | 391,875 | 61.8% | 343,273 | 53.9% | 199,808 | 31.5% | **98,301** | 194,240 | 30.5% | **92,392** | **16%** | 636,548 |

2010 - uses FOS blocks with harvest start date < Jan 1, 2010

2016 - uses FOS blocks with harvest start date >Jan 1,2010

## Table 4: Boreal Foothills, Northern Boreal Mountains and Omineca Seral Stage 2010 status and projected 2016 status

| Stand Age | | < 40 years | | | | 40 – 100 years | | | | 101 – 140 years | | | | > 140 years | | | | | | Target |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NDU Sub-Unit | Landscape Unit | 2010 | | 2016 | | 2010 | | 2016 | | 2010 | | 2016 | | 2010- Current State | | | 2016 | | | |
| | | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Surplus/ (Deficit) | Area (ha) | % | Surplus/ (Deficit) | |
| Boreal Foothills Mountains | Crying Girl | 2308 | 5.6% | 3385 | 8.2% | 8058 | 19.4% | 2948 | 7.1% | 14764 | 35.6% | 17776 | 42.8% | 16377 | 39.5% | | 17418 | 41.9% | | |
| | Graham | 3248 | 3.2% | 3509 | 3.5% | 19907 | 19.8% | 9475 | 9.4% | 33676 | 33.5% | 43257 | 43.0% | 43709 | 43.5% | | 44300 | 44.1% | | |
| | Halfway | 53 | 0.4% | 59 | 0.5% | 2178 | 18.4% | 1140 | 9.6% | 3942 | 33.3% | 4342 | 36.7% | 5659 | 47.8% | | 6294 | 53.2% | | |
| | Kobes | 19 | 47.5% | 19 | 47.5% | 4 | 10.0% | 4 | 10.0% | 10 | 25.0% | 10 | 25.0% | 7 | 17.5% | | 7 | 17.5% | | |
| | ***NDU Total*** | 5628 | 3.7% | 6972 | 4.5% | 30147 | 19.6% | 13567 | 8.8% | 52392 | 34.0% | 65385 | 42.5% | 65752 | 42.7% | **13,160** | 68019 | 44.2% | 17,218 | **33%** |
| | | | | | | | | | | | | | | | | | | | | |
| Boreal Foothills Valley | Crying Girl | 1687 | 8.5% | 2766 | 14.0% | 3511 | 17.8% | 1807 | 9.1% | 7692 | 39.0% | 8459 | 42.7% | 6843 | 34.7% | | 6784 | 34.2% | | |
| | Graham | 25 | 0.2% | 141 | 1.1% | 3207 | 25.1% | 1726 | 13.5% | 5833 | 45.7% | 6830 | 53.5% | 3690 | 28.9% | | 4059 | 31.8% | | |
| | Halfway | 8 | 0.5% | 13 | 0.8% | 325 | 20.9% | 204 | 13.1% | 508 | 32.7% | 391 | 25.1% | 713 | 45.9% | | 950 | 61.0% | | |
| | Kobes | 44 | 18.7% | 40 | 16.9% | 10 | 4.1% | 15 | 6.3% | 141 | 59.8% | 89 | 37.6% | 41 | 17.4% | | 93 | 39.2% | | |
| | ***NDU Total*** | 1764 | 5.1% | 2960 | 8.6% | 7053 | 20.6% | 3752 | 10.9% | 14174 | 41.4% | 15769 | 45.9% | 11287 | 32.9% | **2,365** | 11886 | 34.6% | 3,982 | **23%** |
| | | | | | | | | | | | | | | | | | | | | |
| Northern Boreal Mountains | Graham | 241 | 1.9% | 85 | 0.7% | 1575 | 12.4% | 1641 | 12.9% | 4378 | 34.4% | 4144 | 32.6% | 6533 | 51.3% | | 6855 | 53.9% | | |
| | Sikanni | 13252 | 11.3% | 13203 | 11.3% | 13897 | 11.9% | 12171 | 10.4% | 28930 | 24.8% | 30590 | 26.2% | 60798 | 52.0% | | 60910 | 52.1% | | |
| | ***NDU Total*** | 13493 | 10.4% | 13288 | 10.3% | 15472 | 11.9% | 13812 | 10.7% | 33308 | 25.7% | 34734 | 26.8% | 67331 | 52.0% | **38,973** | 67765 | 52.3% | 19,813 | **37%** |
| | | | | | | | | | | | | | | | | | | | | |
| Omineca Mountains | Crying Girl | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 37 | 82.8% | 37 | 82.8% | 8 | 17.2% | | 8 | 17.2% | | |
| | Graham | 3620 | 4.1% | 3620 | 4.1% | 8695 | 9.8% | 3284 | 3.7% | 14468 | 16.3% | 19287 | 21.8% | 61878 | 69.8% | | 62469 | 70.5% | | |
| | ***NDU Total*** | 3620 | 4.1% | 3620 | 4.1% | 8695 | 9.8% | 3284 | 3.7% | 14505 | 16.4% | 19324 | 21.8% | 61886 | 69.8% | **10,949** | 62477 | 70.4% | 11,028 | **58%** |
| | | | | | | | | | | | | | | | | | | | | |
| Omineca Valley | Crying Girl | 0 | 0.0% | 0 | 0.0% | 60 | 45.5% | 32 | 24.2% | 57 | 43.2% | 68 | 51.5% | 15 | 11.3% | | 32 | 24.2% | | |
| | Graham | 61 | 0.6% | 61 | 0.6% | 2964 | 29.3% | 1218 | 12.0% | 3862 | 38.1% | 5150 | 50.8% | 3241 | 32.0% | | 3699 | 36.5% | | |
| **Omineca Total** | ***NDU Total*** | 61 | 0.6% | 61 | 0.6% | 3024 | 29.5% | 1250 | 12.2% | 3919 | 38.2% | 5218 | 50.9% | 3256 | 31.7% | **1,673** | 3731 | 36.4% | 2,089 | **16%** |
| | | | | | | | | | | | | | | | | | | | | |

2010 - uses all FOS blocks with harvest start date <Jan 1, 2010

2016 - uses FOS blocks with harvest start date >Jan 1, 2010

***REVISIONS***

There are no revisions planned for this indicator.

### 3.3. PATCH SIZE

| Indicator Statement | Target Statement |
|---|---|
| Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU | A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP (Table 16)[4] |
| **SFM Objective**:<br>Maintain the diversity and pattern of communities and ecosystems within a natural range<br>Ecosystem functions capable of supporting naturally occurring species that exist within the range of natural variability | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Strategy. | |

***Acceptable Variances:***

Natural disturbance events that shift the patch size distribution to such a level that it cannot be accommodated in a short (decade) time frame.

Seral spatial distribution does not permit patch size targets in the short term.

Patch size distributions will need to be recalculated as new forest inventory is completed and targets and thresholds assessed to determine if they are still appropriate.

***CURRENT STATUS AND COMMENTS***

This indicator is set up to monitor the patch size distribution for 'early' (≤40 yrs) forest within the Fort St. John Pilot Project area, on a Natural Disturbance Unit basis (note, in SFMP#1 the limits pertained to Landscape Units). The targets are presented in the following table (5).

**Table 5: Natural Disturbance Unit Early Patch Distribution Targets**

| Natural Disturbance Unit | Early (<40 yrs) Patch Size Target (%) (acceptable range) | | |
|---|---|---|---|
| | 100+ ha | 51-100 ha | <50 ha |
| Boreal Plains Uplands (BPU) | 90 (65-90) | 5 (5-15) | 5 (5-15) |
| Boreal Foothills Valley (BV) | 70 (55-85) | 10 (5-15) | 20 (15-25) |
| Boreal Foothills Mountain (BM) | 70 (55-85) | 10 (5-15) | 20 (15-25) |

[4] Refers to Table 16 in the *Fort St. John Pilot Project Sustainable Forest Management Plan #2*

| | | | |
|---|---|---|---|
| **Northern Boreal Mountains (NBM)** | **90 (65-90)** | **5 (5-15)** | **5 (5-15)** |
| **Omineca Mountains (OM)** | **70 (55-85)** | **10 (5-15)** | **20 (15-25)** |
| **Omineca Valley (OV)** | **90 (65-90)** | **5 (5-15)** | **5 (5-15)** |

A landscape-level analysis (based on NDUs) was conducted when FOS #2 was developed. Stand ages were projected through 2016, and all the newly proposed FOS blocks were assumed to be harvested by 2016. The results of the analyses are presented in the following table 6.

**Table 6: Early Patch Size Class 2010 Status & Post FOS#2 Condition**

| | 2010 Early (≤ 40 years) Patch Size Distribution | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Large(> 100 ha) | | Med. (50-100 ha) | | Small (< 50 ha) | | Total All Patches | |
| **Natural Disturbance Unit (NDU)** | **%** | ha | **%** | ha | **%** | ha | % | ha |
| **Boreal Plain Upland (BPU)** | **72.5%** | 137865 | **14.4%** | 27460 | **13.1%** | 24922 | 100.0% | 190247 |
| **Boreal Foothills Valley (BV)** | **84.3%** | 2276 | **2.4%** | 66 | **13.3%** | 359 | 100.0% | 2701 |
| **Boreal Foothills Mountain (BM)** | **77.4%** | 3443 | **9.7%** | 431 | **12.9%** | 575 | 100.0% | 4449 |
| **Northern Boreal Mountains (NBM)** | **1.2%** | 4 | **54.3%** | 178 | **44.5%** | 146 | 100.0% | 328 |
| **Omineca Mountains (NBM)** | **0.0%** | 0 | **6.2%** | 4 | **93.8%** | 61 | 100.0% | 65 |
| **Omineca Valley (OV)** | **0.0%** | 0 | **65.7%** | 92 | **34.3%** | 48 | 100.0% | 140 |
| **Total DFA (All NDU's)** | **72.5%** | 143588 | **14.3%** | 28231 | **13.2%** | 26111 | 100.0% | 197930 |

Yellow = Below Target Range Red=Above Target Range

Blue = No harvesting planned

| | 2016 Projected Early (≤ 40 years) Patch Size Distribution* | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Large (> 100 ha) | | Med. (50-100 ha) | | Small (< 50 ha) | | Total All Patches | |
| **Natural Disturbance Unit (NDU)** | % | ha | % | ha | % | ha | % | ha |
| **Boreal Plain Upland (BPU)** | 83.5% | 188,527 | 9.5% | 21,523 | 7.0% | 15,702 | 100.0% | 225,752 |
| **Boreal Foothills Valley (BV)** | 81.2% | 1891 | 2.8% | 65 | 16.0% | 372 | 100.0% | 2328 |
| **Boreal Foothills Mountain (BM)** | 72.5% | 2220 | 14.8% | 454 | 12.7% | 388 | 100.0% | 3062 |
| **Northern Boreal Mountains (NBM)** | 0.0% | 0 | 0% | 0 | 0% | 0 | 100.0% | 0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Omineca Mountains (OM)** | 0.0% | 0 | 100% | 4 | 0% | 0 | 100.0% | 4 |
| **Omineca Valley (OV)** | 0.0% | 0 | 100% | 92 | 0% | 0 | 100.0% | 92 |
| **Total DFA (All NDU's)** | 76.4% | 154158 | 12.4% | 24980 | 11.2% | 22685 | 100.0% | 201823 |
| | * Assumes current FOS blocks logged and maturation of some stands to 40+ years | | | | | | | |

The analysis of the post-FOS #2 condition (all blocks in FOS# 2 harvested by January 1, 2017), indicates that 8 of 18 or 44% of early patches will meet the target ranges. However it must be noted that the harvesting planned in FOS# 2 is situated almost exclusively within the Boreal Plains Upland and Boreal Foothills Valley NDUs. A very minor amount of harvesting is proposed for the Boreal Foothills Mountain NDU, and the majority of young patch disturbance in this NDU is attributable to wildfire.

In FOS# 2 harvesting is proposed only in one of the of the ten NDU patch size combinations where the desired patch size distribution is not achieved by 2016. In nine of these NDU patch size combinations where the target distribution is not achieved it is likely that natural disturbance may alter the actual distribution achieved in 2017.

Of the three NDUs where harvesting is proposed, the patch targets are achieved in 8 of 9, or 89%, of the relevant patch size NDU combinations. In the 1 NDU patch size combination where harvesting does not achieve the desired patch size distribution, it must be noted that a slight improvement over the baseline condition (2010 condition) is achieved. This demonstrates a trend to moving toward achieving the desired patch size distribution over the course of implementation of FOS# 2.

The foregoing indicates that the participants are consistent with the patch size indicator.
The analysis for this indicator will be conducted again when significant amendments to the Forest Operations Schedule are proposed (eg. Significant addition of proposed block area).

***REVISIONS***

There are no revisions proposed to this indicator.

### 3.4. SOIL DISTURBANCE[5]

| Indicator Statement | Target Statement |
|---|---|
| Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant | Zero blocks will have non-conformances to soil disturbance limits. |
| **SFM Objective:** Protect soil resources to maintain productive forests. | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Soil Management Strategy. | |

***Acceptable Variance:***
None

***CURRENT STATUS AND COMMENTS***
There were no incidents of detrimental soil disturbance reported by the Licensee participants during the 2011-2012 reporting period.

BCTS had no incidents of detrimental soil disturbance reported during the 2011-2012 reporting period.

The participants' activities are consistent with the target and acceptable variance for the soil disturbance indicator.

***REVISIONS***
No revisions anticipated at this time.

### 3.5. SNAGS/CAVITY SITES

| Indicator Statement | Target Statement |
|---|---|
| Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas | Retain annually an average of at least 6 snags and/or live trees (>23 cm dbh) per hectare on prescribed areas |
| **SFM Objective:** Suitable habitat elements for indicator species<br>Maintain a natural range of variability in ecosystem function, composition, and structure which allows ecosystems to recover from disturbance and stress | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
Prescribed areas within blocks on which the SLP's were completed prior to April 1st 2010 will have a target of 6 snags and/or live trees greater than 17.5 cm dbh, consistent with the SFMP in effect at that time.

[5] New indicator in 2010 SFMP. Previous SFMP #1 indicator 6.4 was Shape Index, which has been deleted.

***CURRENT STATUS AND COMMENTS***

During the reporting period, 118 blocks had harvesting completed by the licensee participants and BCTS. Of those blocks, 35 had at least some area prescribed for snags or live tree retention.

The retention level of snags and/or live tree residuals was measured on 19 blocks during the reporting period. The blocks measured have the following attributes:

a) Harvesting started date after Jan.1, 2003, and
b) Some or all of the area prescribed for snags and/or live trees retention.

Data for the included in this report were collected during the harvesting phase and as part of final harvest inspections conducted during the reporting period.

The total prescribed area surveyed was 1,636 ha, with 12,647 snags and/or live tree residuals retained. The actual retention level of snags or live trees in the blocks averaged 7.7 stems/ha. The participants have met the target for this indicator. The following chart (Figure 2) is included to display the participants' performance relative to the targets for this indicator over the last eight reporting periods.

Figure 3 shows examples of 'stub' trees created during harvesting operations. 'Stubs' are often created to act as surrogates for snags in managed stands to provide future vertical forest structure while managing forest worker safety, and make up the majority of vertical habitat elements tracked for this indicator

.

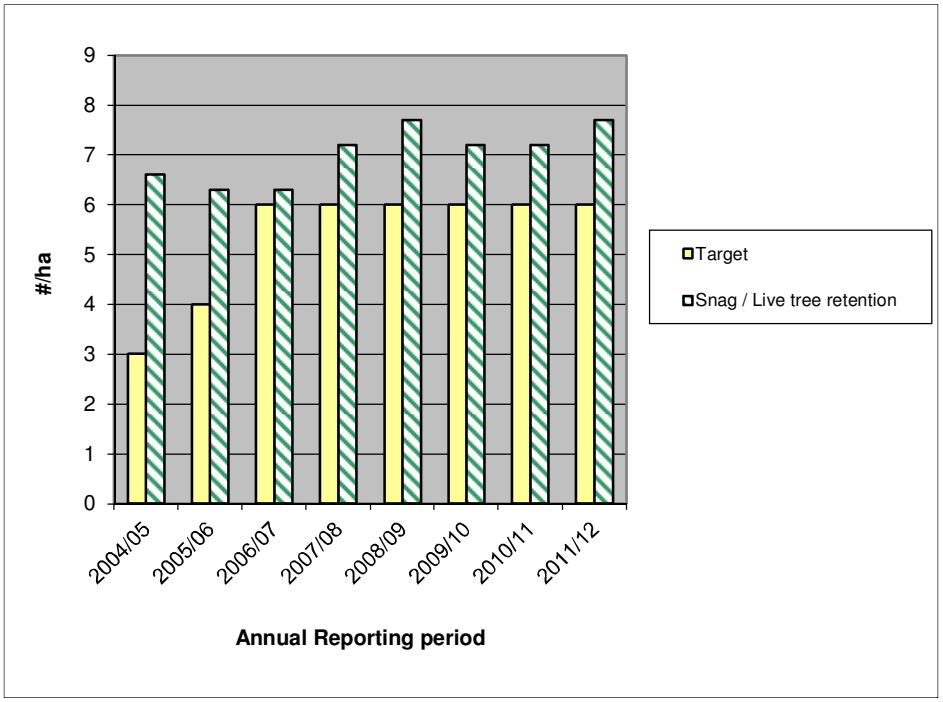



Figure 2. Eight year results for Snag/Cavity site indicator (2004-2012)

Figure 3: Example of 'stub' tree – block 117/005. Cavity in aspen stub colonized by Northern Flickers. Note live residual aspen in background, 15 years after block harvesting.

***REVISIONS***

There are no revisions planned for this indicator.

## 3.6. COARSE WOODY DEBRIS VOLUME

| Indicator Statement | Target Statement |
|---|---|
| Average retention level of Coarse Woody Debris volume/ ($m^3$/ha) on blocks logged in the DFA between December 1, 2008 and November 30, 2016 | Average retention level over the DFA will be at least 46 $m^3$/ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2008 and November 30, 2016 |
| **SFM Objective:**<br>Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress<br>Suitable habitat elements for indicator species | |
| **Linkage to *FSJPPR*:** For the purposes of Section 29(2) of the *FSJPPR* the applicable performance standard is specified by this indicator statement, target statement and acceptable variance.<br>For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Landscape Level Strategy | |

***Acceptable Variance:***

CWD plots will not be assessed for the purposes of this indicator if they fall in blocks where management of non-timber resource values was identified as an overriding priority that was not compatible with CWD retention (e.g. community pastures, etc).

***CURRENT STATUS AND COMMENTS***

For the purposes of this indicator, coarse woody debris is measured along two 24m transects originating at predetermined points in harvested areas, following established provincial procedures. Figure 4 is included to provide an example of one such transect.

There were no coarse woody debris plots measured by the participants during the reporting period. This indicator's target is based on an average CWD retention level over the term of the SFMP. The participants exceeded the target for this indicator for the period of December 1 2003 and November 30 2008.

The participants pursued CWD data collection in 2012 (mid-term results to be reported in 2012/13 Annual Report).


**Figure 4. Example of a coarse woody debris measurement transect (Block 01056)**

***REVISIONS***

There are no revisions proposed for this indicator.

### 3.7. RIPARIAN RESERVES

| Indicator Statement | Target Statement |
|---|---|
| The number of non-compliances to riparian reserve zone standards | No non-compliances to riparian reserve zone standards |
| **SFM Objective:**<br>Suitable habitat elements for indicator species<br>Maintenance of water quality | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Riparian Management Landscape Level Strategy.<br>For the purposes of Section 35(5), Section 28(1) (b)(i)(A) of the *FSJPPR* may be effected by the application of this Riparian Management Landscape Level Strategy, specifically the acceptable variance for this indicator. | |

***Acceptable Variance:***

No variances, unless authorized by the district manager.

***CURRENT STATUS AND COMMENTS***

A review of BCTS Compliance issues from April 1, 2011 to March 31, 2012 indicated that BCTS had no non-compliances to riparian reserve zone standards. BCTS achieved the target for this indicator.

A review of licensee participants' compliance issues occurring between April 1, 2011 and March 31, 2012 indicated no non-compliances to riparian reserve zone standards. The licensee participants achieved the target for this indicator.

The participants' activities are consistent with the target and acceptable variance for the indicator.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.8. SHRUBS

| Indicator Statement | Target Statement |
|---|---|
| The proportion of shrub habitat (%) by Landscape Unit | Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat |
| **SFM Objective:** Suitable habitat elements for indicator species | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

Acceptable variance is ± 20% of the baseline target.

***CURRENT STATUS AND COMMENTS***

This indicator is monitored at each new SFMP, using the most up to date vegetation resource inventory data. The following table (table 7) shows the shrub condition projected through 2016, accounting for harvesting of all blocks presented in the FOS#2. The "2016 Total Shrub Area" includes shrub-type inventory polygons plus harvested areas <20yrs old.

**Table 7: Shrub Habitat Projected 2016 Condition and SFMP# 2 Targets**

| Landscape Unit | LU Net Area (ha) | FOS Area (ha) | 2016 VRI Shrub area (ha) | Baseline Target (%) | 2016 Total Shrub Area (ha) | 2016 Shrub Area % of LU |
|---|---|---|---|---|---|---|
| Blueberry | 594,972 | 44,750 | 114,549 | 8.0% | 159,299 | 26.8 |
| Crying Girl | 67,195 | 0 | 6,057 | 8.0% | 6,057 | 9.0 |
| Graham | 334,908 | 0 | 77,895 | 15.0% | 77,895 | 23.3 |
| Halfway | 196,436 | 5,918 | 27,275 | 6.0% | 33,193 | 16.9 |
| Kahntah | 749,199 | 2,358 | 218,714 | 21.0% | 221,072 | 29.5 |
| Kobes | 140,300 | 13,568 | 27,542 | 8.0% | 41,110 | 29.3 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Lower Beatton | 165,963 | 1,549 | 27,318 | 7.0% | 28,867 | 17.4 |
| Milligan | 455,107 | 0 | 74,724 | 13.0% | 74,724 | 16.4 |
| Sikanni | 312,148 | 0 | 32,149 | 6.0% | 32,149 | 10.3 |
| Tommy Lakes | 705,495 | 27,379 | 92,284 | 8.0% | 119,663 | 17.0 |
| Trutch | 436,578 | 3,504 | 33,593 | 6.0% | 37,097 | 8.5 |
| **Total all LU's** | **4,158,301** | **99,026** | **732,100** | | **831,126** | |

The future analysis of Change Monitoring Inventory (CMI) plots – after remearsurement - will permit comparisons of shrub composition and abundance over time. The total number of CMI plots established in the Pilot Project area to date is 78.

The participants are consistent with the target for this indicator.

***REVISIONS***

There are no revisions planned for this indicator.

### 3.9. WILDLIFE TREE PATCHES

| Indicator Statement | Target Statement |
|---|---|
| Cumulative Wildlife Tree Patch percentage in blocks harvested under the *FSJPPR* in each Landscape Unit | Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU[6]<br>Landscape Unit — WTP %<br>Blueberry 6%<br>Halfway 3%<br>Kahntah 7%<br>Kobes 5%<br>Lower Beatton 8%<br>Milligan 6%<br>Tommy Lakes 3%<br>Trutch 5%<br>Sikanni 4%<br>Graham 4%<br>Crying Girl 6% |
| **SFM Objectives:**<br>Suitable habitat elements for indicator species.<br>Maintain a natural range of variability in ecosystem function, composition, and structure which allows ecosystems to recover from disturbance and stress. | |
| **Linkage to FSJPPR:** For the purposes of 29(1) of the *FSJPPR* the applicable performance standard is specified by this indicator statement, target statement and acceptable variance.<br>For the purposes of Section 42 of the *FSJPPR* this indicator statement, target and acceptable variance will be one of the indicators used to determine if forest practices are consistent with the Patch Size, Seral Stage and Adjacency Landscape Level Strategy | |

***Acceptable Variance:***

[6] Targets as per 2004-2005 Annual Report revisions

Aggregate WTP percentages will only apply if 200 hectares or more has been harvested under the *FSJPPR* in a landscape unit.

***CURRENT STATUS AND COMMENTS***

The following table indicates the amount of harvest area and proportion of Wildlife Tree Patches by each Landscape Unit where the harvest start date is between November 15, 2001 and March 31, 2012.

**Table 8: Harvest Area and Proportion of WTPs by Landscape Unit (2001-2012)**

| LU | Gross Block Area (ha) | WTP Area (ha) | WTP % | Target % |
|---|---|---|---|---|
| Blueberry | 29350.3 | 2261.1 | **7.7** | 6 |
| Halfway | 2329.0 | 219.6 | **9.4** | 3 |
| Kahntah | 1280.4 | 117.9 | **9.2** | 7 |
| Kobes | 4595.0 | 378.2 | **8.2** | 5 |
| Lower Beatton | 4312.2 | 380.9 | **8.8** | 8 |
| Milligan | 30.1 | 3.1 | **10.3** | 6 |
| Tommy Lakes | 5,858.5 | 540.2 | **9.2** | 3 |
| Trutch | 887.2 | 61.6 | **6.9** | 5 |
| Sikanni | 0 | 0 | **N/A** | 4 |
| Graham | 234.2 | 31.9 | **13.6** | 4 |
| Crying Girl | 1718.4 | 143.2 | **8.3** | 6 |
| **Grand Total:** | **50595.3** | **4137.7** | | |

No harvesting has taken place in the Sikanni LU since November 15, 2001.

The participants have met the target minimum WTP % for all Landscape Units where logging has occurred.

***REVISIONS***

There are no proposed revisions to the indicator or target statements.

### 3.10. NOXIOUS WEED CONTENT AND INVASIVE PLANT CONTENT

| Indicator Statement | Target Statement |
|---|---|
| The % prohibited and primary noxious weeds, and known invasive weed species of concern, in seed mix analyses | Seed mix analyses will have 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the most current publication of "Listing of Invasive Plants" available from the Peace River Regional District |
| **SFM Objective:** Suitable habitat elements for indicator species | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Range Management Landscape Level Strategy | |

***Acceptable Variance:***

The primary objective of seeding is to control erosion to protect water resources, with a secondary objective to discourage the establishment of invasive weeds. In some isolated instances suitable seed mixes having appropriate government approved analysis may not be available in a timely manner. If seeding must urgently be done to control erosion, it may, in rare instances, be necessary to proceed without assurances of the seed source being free of noxious weeds. A maximum of one exception annually will be allowable to provide for this eventuality. In the event of an exception, the participant will subsequently inspect the seeded areas to assess weed concerns, and will develop and document appropriate action plans to eliminate prohibited and primary noxious weeds, in consultation with the appropriate government agencies.

***CURRENT STATUS AND COMMENTS***

All reclamation seed broadcast by the licensee participants during the reporting period is certified as having 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan.

For all broadcast seeding completed by BCTS licensees during the reporting period the review of seed tags and seed analysis certificates verified 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern.

The participants are in conformance to the target for this indicator.

***REVISIONS***

There are no proposed revisions to the indicator or target statements.

### 3.11. SPECIES AT RISK STAND LEVEL MANAGEMENT GUIDELINES

| Indicator Statement | Target Statement |
|---|---|
| The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines | 100% of SLP's prepared annually for effected cutblocks will incorporate one or more stand level species at risk management guidelines |
| **SFM Objective:** Maintain habitats for species at risk | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

A 15% variance below the target will be acceptable. (i.e. 85% or more of SLP's in effected cutblocks must have one or more SLMG applied). The variance from 100% to 85% of effected SLPs would only be invoked in situations where forest health, worker or public safety, or operational concerns make implementation of the stand level management guidelines impracticable. In these situations a rationale detailing the reasons for not implementing stand level management guidelines will be included in the effected SLPs.

***CURRENT STATUS AND COMMENTS***

Between April 1, 2011 and March 31, 2012, 31 Site Level Plans (SLP's) were prepared by licensee participants in cutblocks where Stand Level Management Guidelines for species at risk were required. One or more guidelines were applied in all 31 of these plans.

Between April 1, 2011 and March 31, 2012, 14 Site Level Plans (SLP's) were prepared by BCTS in cutblocks where Stand Level Management Guidelines for species at risk were required. One or more guidelines were applied in all 14 of these plans.

100 % of all Site Level Plans where Stand Level Management Guidelines were required incorporated at least 1 Guideline; therefore the participants achieved the target for this indicator.

**Figure 5: Typical habitat favoured by Connecticut Warbler (*Oporornis agilis*) in the Peace River region (photo by A.Tyrrell)**

***REVISIONS***

There are no revisions planned for this indicator.

### 3.12. FOREST WORKERS' SAFETY[7]

| Indicator Statement | Target Statement |
|---|---|
| Implementation and maintenance of certified safety program | Each managing Participant will implement and maintain a certified safety program |
| **SFM Objectives:** Provide a safe work environment for DFA forestry workers and the public | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
None

***CURRENT STATUS AND COMMENTS***
Currently the Managing Participants (B.C.T.S and Canfor) are certified to the B.C. Forest Safety Council S.A.F.E. Companies Standard. Surveilance audits are completed at regular intervals to ensure the managing participants safety programs continue to meet the S.A.F.E. Companies safety criteria, and to identify where there may be opportunities for improving the safety programs. The Managing Participants maintained their certification to the B.C. Forest Safety Council S.A.F.E. Companies Standard during the 2011-12 reporting year.

The participants have achieved the target for this indicator.

***REVISIONS***
No revisions are anticipated at this time.

### 3.13. SEED USE[8]

| Indicator Statement | Target Statement |
|---|---|
| The percentage of seedlings & vegetative material used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time.[9] | 100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time. |
| **SFM Objectives:** Conserve genetic diversity of tree stock<br>Suitable habitat elements for indicator species | |
| **Linkage to *FSJPPR***: For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy.<br>For the purposes of Section 35(5) the indicator this indicator statement, target statement and acceptable variance will replace the requirements of Schedule F Section 99 (Seed Use). | |

***Acceptable Variance:***
As per Section 8 Transfer Limits in the Chief Forester's Standards for Seed Use, no less than 95% of the combined total of the number of seedlings and vegetative material planted during

[7] New indicator in SFMP #2. Indicator # 12 (Caribou) in previous SFMP #1 deleted due to impending implementation of WHA and UWR areas for boreal caribou.
[8] Previously named "Conifer Seed". Changed due to wider applicability of Standard to deciduous as well.
[9] Revisions to this indicator initially made in 2005/2006 Annual Report

each fiscal year within the DFA will comply with the transfer requirements of section 8.2 through 8.7, of those standards. As the standards are amended from time to time, the allowable variance will change consistent with any amendments.

***CURRENT STATUS AND COMMENTS***

BCTS

No cone collections performed between April 1, 2011 and March 31, 2012.

403,370 seedlings were planted within the reporting period. All seedlings were planted in accordance with the standard.

Licensee Participants (Canfor, Tembec, CRL, Dunne-za, Louisiana-Pacific)

A Lodgepole Pine cone collection was performed between April 1, 2011 and March 31, 2012. This seed is registered as Class "B" pine seed as per the Chief Forester's Standards for Seed Use, Seedlot 53765, and has the potential to grow 4,917,000 seedlings.

1,969,830 seedlings were planted within the reporting period. All seedlings were planted in accordance with the standard.

The participants have achieved the target for this indicator.

***REVISIONS***

No revisions are anticipated at this time.

### 3.14. ASPEN REGENERATION

| Indicator Statement | Target Statement |
|---|---|
| % Natural Regeneration of aspen | 100% natural regeneration for deciduous. |
| **SFM Objectives**: Conserve genetic diversity of tree stock | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

A maximum of 10% of the area prescribed for deciduous regeneration may be restocked with deciduous vegetative propagules or seedlings (e.g. 90% minimum natural regeneration of deciduous) in accordance with the Chief Foresters Standards for Seed Use, as amended from time to time. In such cases, records must be kept of vegetative lots used and locations where vegetative lots are planted.

***CURRENT STATUS AND COMMENTS***

All Participants have relied on 100% natural regeneration for aspen in the 2011-2012 reporting period. The participants have achieved the target for this indicator.

***REVISIONS***

No revisions are anticipated at this time.

### 3.15. CLASS A PARKS, ECOLOGICAL RESERVES AND LRMP DESIGNATED PROTECTED AREAS

| Indicator Statement | Target Statement |
|---|---|
| Hectares of Forestry Related Harvesting or Road Construction within Class A parks, protected areas, ecological reserves and LRMP designated protected areas | Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves or LRMP designated protected areas |
| **SFM Objective:** To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
No variance, other than government direction requiring the forest industry to conduct operations in these areas.

***CURRENT STATUS AND COMMENTS***
No forestry related harvesting or road construction has occurred, nor was any harvesting planned in FOS#2, in Class A Parks, Ecological Reserves and LRMP Designated Protected Areas. The participants have achieved the target for this indicator.

Digital boundaries of all known protected areas were used in the development of the Forest Operations Schedule #2 and to ensure proposed blocks or roads did not fall within any of the protected areas.

The participants continue to be in conformance with the indicator target.

***REVISIONS***
There are no revisions planned for this indicator.

### 3.16. UNGULATE WINTER RANGES, WILDLIFE HABITAT AREAS AND MKMA

| Indicator Statement | Target Statement |
|---|---|
| Proportion of activities consistent with objectives of the Muskwa-Kechika Management Area (MKMA) and general wildlife measures for Ungulate Winter Ranges (UWR) and Wildlife Habitat Areas (WHA) | All pilot Participant activities will be consistent with the objectives of the MKMA and the general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas |
| **SFM Objective:** To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
No variances unless authorized by the MOE.

***CURRENT STATUS AND COMMENTS***

There are currently 15 approved Wildlife Habitat Area's (WHA's), and 16 Ungulate Winter Range (UWR) areas wholly or partially within the Fort St John TSA. General Wildlife Measures –the legal management regimes that dictate operational practices in these areas – have been developed and enacted by government. The participants will follow the General Wildlife Measures for each specific area when operations are proposed within these areas. For the reporting period, there were no activities conducted within approved WHAs or UWRs.

The WHA's and UWR areas for Caribou (Boreal ecotype) in the north and eastern portions of the Timber Supply Area that were undergoing discussion during the preparation of the previous annual report have not been yet been finalized by the provincial government. However the participants are honouring the spirit and intent of the proposed boreal caribou WHA and UWR areas by agreeing to apply the draft General Wildlife Measures in proposed UWRs and avoiding operational activities in the WHAs. The Government of Canada (Canadian Wildlife Service) is coordinating a national recovery program for the boreal caribou, but it is not yet known what implications that holds for operations within the DFA, beyond the impacts of the provincial set-asides (WHA and UWR designations).

The following table summarizes harvest activities within grand parented blocks within the Muskwa-Kechika Management Area (MKMA) up to March 31, 2011.

**Table 9: Harvest Activities in the MKMA**

| Licensee | Licence | Timber Mark | Block ID | Gross Area | Merch Area | Harvest Start Date | Harvest Completion Date | System |
|---|---|---|---|---|---|---|---|---|
| CANFOR | A18154 | EK8335 | 20007 | 57.6 | 52.0 | 1/19/2005 | 2/14/2006 | CCRES |
| CANFOR | A18154 | EK8335 | 20008 | 101.4 | 88.7 | 1/19/2005 | 3/31/2006 | CCRES |
| CANFOR | A18154 | EK8335 | 20060 | 75.1 | 68.5 | 1/5/2005 | 3/4/2005 | CCRES |
| **Total** | | | | **234.1** | **209.2** | | | |

There are no changes from the 2010-2011 annual report. The total cumulative area logged to date within blocks in the MKMA is 209.2 ha. All harvesting operations within the MKMA have been consistent with previously approved Forest Development Plans, as well as provisions within the MKMA Act that 'grandparent' previously approved blocks.

Harvesting within the MKMA that is proposed within the Forest Operations Schedule #2 (i.e., to 2016) is currently limited to previously 'grandparented' blocks within the MKMA, and is therefore consistent with the objectives of the MKMA. There were no activities completed within the MKMA during this reporting period.

The participants have achieved the target for this indicator.

***REVISIONS***

There are no proposed revisions to this indicator or target.

### 3.17. REPRESENTATIVE EXAMPLES OF ECOSYSTEMS

| Indicator Statement | Target Statement |
|---|---|
| Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU | 100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met |
| **SFM Objective:** To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

10 ha or 10% of area, whichever is greater for Leading Species by NDU that have an uncommon distribution (as noted in Table 21 of SFMP# 2) if required for access purposes.

No acceptable variance for Leading Species by NDU that are not identified as uncommon in Table 21 of SFMP# 2.

***CURRENT STATUS AND COMMENTS***

An assessment of the future condition of this indicator was completed to confirm consistency of FOS# 2 with SFMP #2. The targets specified in SFMP# 1 for proportion of area in forest stands by leading species in an unmanaged condition were carried over to SFMP# 2 without any revision. The assessment of future condition for this indicator is presented in the table below (table 10) and indicates the future status of forest stands by leading species and NDU for the Non-Timber Harvesting Land Base (NHLB). This reflects the stand types that will exist in an unmanaged state. FOS blocks have been identified within the portion of the land base that is considered as the timber harvesting land base.
Where harvesting is proposed, the SFMP requires an assessment of those NDU species combinations highlighted in yellow in the following table, to ensure that targets are not compromised.

A re-analysis of this indicator is required after each Timber Supply Review (TSR) is completed. The next TSR for the DFA is scheduled to commence after the completion of the Dawson Creek TSA Timber Supply Review, which was not completed as of August 2012. It is estimated that the Fort St. John TSR will not be completed until the fall of 2013. In the event that a significant amount of block area is added in to the Forest Operations Schedule through an amendment prior to the completion of the TSR, the analysis for this indicator will be redone to ensure ongoing conformance.

## Table 10: Proportion of Leading Species by NDU Unmanaged (from FOS#2)

| Natural Disturbance Unit | Sub NDU | Leading Species | Total Forested Area | Unmanaged Forests | | | FOS Harvest Area |
|---|---|---|---|---|---|---|---|
| | | | | Non-THLB | %Non-THLB | Baseline Target % | |
| Boreal Plains | | AC | 23,285 | 15,346 | 66% | 12% | 1,081 |
| | | AT | 516,129 | 275,851 | 53% | 12% | 53,986 |
| | | BL | 3,881 | 3613 | 93% | 12% | 108 |
| | | Ep | 49,117 | 42,639 | 87% | 12% | 1,265 |
| | | LT | 24,964 | 24,561 | 98% | 12% | 6 |
| | | PL | 516,091 | 281,558 | 55% | 12% | 31,583 |
| | | SX | 340,826 | 163,200 | 48% | 12% | 27,776 |
| | | SB | 998,192 | 908,821 | 91% | 12% | 5730 |
| Boreal Plains Total | | | 2,472,485 | 1,715,589 | 69% | | 121,535 |
| Boreal Foothills | Valley | AC | 211 | 151 | 72% | 80% | 0 |
| | | AT | 2,854 | 2,242 | 79% | 12% | 1 |
| | | BL | 15 | 13 | 87% | 0% | 0 |
| | | Ep** | 2 | 0 | 0% | 100% | 0 |
| | | PL | 14,008 | 5,707 | 41% | 12% | 377 |
| | | SX | 17,319 | 9,253 | 53% | 12% | 222 |
| | | SB | 1,736 | 1,351 | 78% | 12% | 0 |
| | Valley Total | | 36,145 | 18,717 | 52% | | 600 |
| | Mountain | AC | 146 | 107 | 73% | 100% | 0 |
| | | AT | 2,880 | 2,495 | 87% | 12% | 0 |
| | | BL | 25,963 | 25,416 | 98% | 12% | 0 |
| | | Ep | 30 | 26 | 87% | 100% | 0 |
| | | PL | 34,185 | 15,527 | 45% | 12% | 98 |
| | | SX | 111,890 | 81,633 | 73% | 12% | 0 |
| | | SB | 918 | 607 | 66% | 12% | 155 |
| | Mountain Total | | 176,012 | 125,811 | 71% | | 253 |
| Boreal Foothills Total | | | 212,157 | 144,528 | 68% | | |
| Northern Boreal Mountains | | AC | 689 | 596 | 87% | 70% | 0 |
| | | AT | 8,400 | 8,132 | 97% | 12% | |
| | | BL | 22,782 | 22,682 | 100% | 12% | |
| | | PL | 31,040 | 19,147 | 62% | 12% | |
| | | SX | 117,804 | 98,484 | 84% | 12% | |
| | | SB | 6,985 | 6,655 | 95% | 12% | |
| Northern Boreal Mountains Total | | | 187,700 | 155,696 | 83% | | |
| Omineca | Valley | AC | 38 | 37 | 97% | 100% | 0 |
| | | AT | 391 | 361 | 92% | 50% | 0 |
| | | BL* | 18 | 18 | 100% | 100% | 0 |
| | | PL | 4,364 | 2,857 | 65% | 12% | |
| | | SX | 5,978 | 4,747 | 79% | 12% | |
| | | SB | 413 | 374 | 91% | 12% | |
| | Valley Total | | 11,202 | 8,394 | 75% | | |
| | Mountain | AC* | 2 | 2 | 100% | 100% | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | AT | 531 | 487 | 92% | 50% | 0 |
| | | BL | 25,844 | 25,464 | 99% | 12% | |
| | | PL | 9,328 | 6,658 | 71% | 12% | |
| | | SX | 60,366 | 54,021 | 89% | 12% | |
| | | SB | 383 | 346 | 90% | 100% | 0 |
| | Mountain Total | | 96,454 | 86,978 | 90% | | |
| Omineca Total | | | 107,656 | 95,372 | 89% | | |
| **Grand Total** | | | **2,979,998** | **2,111,185** | 71% | | |

* 100% contained within a Park
** Polygon is a portion of polygon split by the NDU Line between Boreal Foothills Valley and Mountain.

Harvesting proposed in FOS# 2 is represented in the 'FOS Harvest Area' in the above table. The majority of proposed harvesting is to occur in the Boreal Plains NDU. The analysis completed reports on the condition expected as of March 31, 2017 and assumes that all blocks presented in the FOS# 2 will be harvested by that date. The results show that the majority of the baseline targets for retention of a representative sample of forest stands in an unmanaged condition are achieved in the NHLB. Several of the species / NDU combinations do not have sufficient area within the NHLB to meet the target. However in none of the cases was any area harvested under FOS# 1, nor is there any area identified for harvesting under FOS# 2, and therefore a 'managed' designation.

Table 10 indicates that 100% of the baseline targets for retention of a representative sample of forest stands in an unmanaged condition was achieved for all NDUs, including the 'uncommon' associations (highlighted in yellow), either through the identified NHLB area or through avoidance of harvest planning. The participants' activities are in conformance with the target for this indicator.

***REVISIONS***

Revision to this indicator may be considered following the Timber Supply Review planned for the fall of 2011, and/or the completion of the Ecosystem Representation Analysis exercise completed in 2011-12 for the DFA.

### 3.18. GRAHAM HARVEST TIMING

| Indicator Statement | Target Statement |
|---|---|
| The number of clusters in the Graham IRM Plan area where active operational harvesting is concurrently occurring. | Operational harvesting within the Graham IRM Plan area will be constrained to no more than one 'cluster' of cutblocks at any one time. |
| **SFM Objective:**<br>Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities<br>Management strategies address important values in SMZ areas. | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy. | |

***Acceptable Variance:***
Operational harvesting (i.e. falling and/or skidding of timber, *excluding predevelopment of road right of ways*) in more than one cluster at a time may occur concurrently, if required to address significant forest health concerns (e.g. Mountain Pine Beetle infestations, wildfire), with the authorization of the MFLNRO.

***CURRENT STATUS AND COMMENTS***
Harvesting in cluster 4, which started in 2004, is not yet completed. No harvesting occurred in any part of the Graham IRM plan area during the 2011-12 reporting period covered by this Annual Report.

The Forest Operations Schedule Section 3.1, submitted to MFLNRO in January 2011, identifies the approximate proposed harvest dates for clusters 4, 4a, 5, 6 and 6a. The Graham IRM Area harvest sequencing is also noted in Table 17 of the FOS. The harvest sequencing presented in the FOS is consistent with achieving the target for this indicator.

The participants' activities are in conformance with the target for this indicator.

***REVISIONS***
None proposed or anticipated.

### 3.19. GRAHAM MERCH AREA HARVESTED

| Indicator Statement | Target Statement |
|---|---|
| Cumulative merchantable area (hectares) within blocks harvested within the Graham River IRM Plan area since 1997 | The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas as measured at the end of each time period.<br>Period # 2 (ending April 2012): 6569 ha<br>Period # 3 (ending April 2017): 9355 ha |
| **SFM Objective:**<br>Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities<br>Management strategies address important values in SMZ areas | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy. | |

***Acceptable Variance:***
Operations may only exceed the target in the event of urgent forest health concerns that necessitate increased harvest rates, and after reviewing with the Public Advisory Group, and with the approval of the government.

***CURRENT STATUS AND COMMENTS***

April 1, 2007 marked the completion of Harvest Period #1 for this indicator, which covers all logging in the Graham plan area from June of 1998 to April 2007.

## Table 11: Graham River IRM Plan- Cluster Area and Timing Schedule (Revised Oct 2006)

**Definitions:**

| | |
|---|---|
| Total Area: | The total size of a Cluster including inoperable areas |
| Gross Contributing Area: | The Contributing Area (base area) for FPC Biodiversity calculations |
| IRM Net Harvest Area: | Estimated amount of Gross Operable area considered harvestable after IRM factors are taken into account |
| Proposed Schedule: | General timing of harvest sequence over the course of the Plan |
| **Maximum Cumulative Merch ha** | **The maximum cumulative merch hectares (all previous periods) allowed in cutblocks to period end (indicator)** |

| Cluster # | Resource Management Zone | Total Area (ha) | Gross Contrib. Area (ha) | Est. IRM Net Harvest Area (1) (ha) | Est. Proportion of Cluster Proposed for Harvest | Proposed Harvest Schedule Start-End | Harvest Period | # of Years | Maximum Cumulative Merch ha within blocks to be harvested |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Graham-South | 1,946 | 1,922 | **706.0** | 36.3% | June 1998 July 1999 | | | |
| 17 | Graham-South | 627 | 620 | **294.0** | 46.0% | Nov. 1999 April 2000 | | | |
| 2 | Graham-South | 2,208 | 2,085 | **312.9** | 14.2% | July 2000 April 2002 | | | |
| 3 | Crying Girl | 2,439 | 2,115 | **620.5** | 25.4% | Nov 2002 April 2003 | | | |
| 4 | Graham-South | 3,975 | *3,504* | **976.6** | 29.2% | **July 2003** April 2007 | | | |
| Sub-total | | 11,195 | *10,246* | **2910.0** | | 1998 2007 | Period 1 | 9 | **3638** |
| 5 | Crying Girl | 2,228 | 2,181 | **748.6** | 33.0% | **April 2007** Nov. 2008 | | | |
| 6a | Graham-South | 2,508 | *2,570* | **1078.8** | 35.0% | **Nov. 2008** Nov. 2009 | | | |
| 6b | Graham-South | 884 | 775 | **257.5** | 29.0% | **Nov. 2009** April 2010 | | | |
| 6c | Graham-South | 726 | 541 | **260.0** | 35.0% | **April 2010** April 2012 | | | |
| Sub-total | | 6,346 | *5,665* | **2344.9** | | 2007 2012 | Period 2 | 5 | **6569** |
| 7 | Crying Girl | 1,848 | 1,812 | **577.2** | 31.0% | **April 2012** April 2013 | | | |
| 8a | Crying Girl | 1,904 | 1,638 | **840.0** | 44.0% | **April 2013** April 2014 | | | |
| 8b | Crying Girl | 2,184 | 1,877 | **812.3** | 37.0% | **April 2013** April 2017 | | | |
| Sub-total | | 5,936 | 5,327 | **2229.5** | | 2012 2017 | Period 3 | 5 | **9355** |
| 9 | Crying Girl | 952 | 840 | **291.0** | 30.0% | **April 2017** Nov. 2017 | | | |
| 10 | Crying Girl | 966 | 788 | **317.0** | 32.0% | **Nov. 2017** April 2018 | | | |
| 11 | Graham-South | 1,768 | 1,717 | **594.0** | 33.0% | **April 2018**-April 2022 | | | |
| Sub-total | | 3,686 | 3,345 | **1202.0** | | 2017 2022 | Period 4 | 5 | **10858** |
| 12 | Graham-North | 3,439 | 3,249 | **1289.0** | 37.0% | **April 2022** April 2024 | | | |
| 13 | Crying Girl | 2,493 | 2,359 | **745.0** | 29.0% | **April 2024** April 2027 | | | |
| Sub-total | | 5,932 | 5,608 | **2034.0** | | 2022 2027 | Period 5 | 5 | **13400** |
| 14 | Crying Girl | 2,643 | 2,583 | **1034.0** | 39.0% | **April 2027** April 2028 | | | |
| 15 | Graham-North | 3,258 | 2,666 | **1072.0** | 32.0% | **April 2028** April 2032 | | | |
| Sub-total | | 5,901 | 5,249 | **2106.0** | | 2027 2032 | Period 6 | 5 | **16033** |
| 16 | Graham-North | 2,108 | 1,917 | **903.0** | 42.0% | **Apr. 2032** April 2035 | | | |
| Sub-total | | 2,108 | 1,917 | **903.0** | | 2032 2035 | Period 7 | 3 | **17162** |
| 18 | Graham-North | 1,341 | 1,217 | **468.0** | 34.0% | **Nov. 2035** Nov. 2037 | | | |
| 19 | Graham-North | 3,121 | 2,782 | **1022.0** | 32.0% | **Nov. 2037** April 2040 | | | |
| Sub-total | | 4,462 | 3,999 | **1490.0** | | 2036 2040 | Period 8 | 5 | **19024.** |
| 20 | Crying Girl | 1,317 | 1,188 | **527.0** | 40.0% | **Nov. 2041** April 2045 | | | |
| Sub-total | | 1,317 | 1,188 | **527.0** | | 2042 2045 | Period 9 | 5 | **19683** |
| Totals (Cluster only) | | 46883 | 42946 | **15746.4** | | | Period 1-9 | 47.0 | **19683** |
| **D. Total Plan Area** | | **198,140** | 145,053 | **15,746** | **8%** | | | | **10%** |

This indicator's Period 1 target was 2,910.4 ha, with a variancre of an allowable maximum area harvested of 3,638 ha (including the SFMP# 1 allowable variance of 25% additional area). As noted in the 2009 annual report, the area harvested to the end of Harvest Period 1 was 3,515.6 ha, consistent with the acceptable range of area harvested for the first harvest period.

The second harvest period commenced in April of 2007, and runs until April 1, 2012, with a 6,569 hectare maximum cumulative harvest target. Since the beginning of Period 2 (April 1, 2007) to date of preparation of this report, no harvesting has occurred in the Graham plan area (commencement of time period # 2 to date of preparation of this annual report). Therefore the total cumulative area harvested to the end of Period 2 is 3,515.6 ha (Period 1) +0 ha (Period 2) = 3515.6 ha. This is well within the maximum cumulative harvest area target of 6,569 ha for Period 2.

The Participants performance for Period 2 is therefore in conformance with this indicator.

Period 3 begins April 2, 2012 and runs to April 1 2017, with a maximum cumulative harvest area target of 9,355 ha.

**Figure 6.** Graham River operating area clustered harvest pattern, cluster 2. (**photo by D. Menzies)**

***REVISIONS***

None proposed or anticipated.

### 3.20. GRAHAM CONNECTIVITY

| Indicator Statement | Target Statement |
|---|---|
| Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors | Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors |
| **SFM Objective:**<br>Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability<br>Management strategies address important values in SMZ areas | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy. | |

***Acceptable Variance:***
Variances may be allowed on a site-specific basis where government approval is attained. The indicator target excludes road rights-of-way needed to cross streams.

***CURRENT STATUS AND COMMENTS***

No harvesting within the recognized corridors occurred during the time period covered by this report – April 1, 2011 – March 31, 2012.

The Participants performance is therefore in conformance with this indicator.

***REVISIONS***

None proposed or anticipated.

### 3.21. MKMA HARVEST

| Indicator Statement | Target Statement |
|---|---|
| The number of long-term harvest plans within the MKMA completed and submitted to government | A minimum of one long-term harvest plan submitted no later than one year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA |
| **SFM Objective:**<br>Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities<br>Management strategies address important values in SMZ areas | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy. | |

***Acceptable Variance:***
Timing of submission may be delayed no more than one additional year.

***CURRENT STATUS AND COMMENTS***

No change from previous annual report. No new clustered harvest plans have been prepared for the MKMA to date.

No new harvesting is proposed in the MKMA, other than that previously approved under grand parenting provisions of the Muskwa-Kechika Management Act and Regulation, for the duration of FOS# 2. No harvesting of grand parented blocks occurred within the MKMA in the 2011-12 reporting period.

Initial planning for development of an MKMA harvest plan commenced in 2006, and continued in 2007. An area has been selected for plan development. Landscape Unit Objectives must be developed for the area by the government, with input from the participants. Progress towards the completion of this plan has been made, however the participants must wait for Landscape Unit Objectives to be approved by government before a plan can be finalized, submitted to government for review and endorsed. As a result of the lack of approval of Landscape Unit Objectives no new clustered harvest plans have been prepared for the MKMA to date.

The Participants performance is therefore in conformance with this indicator.

***REVISIONS***

There are no revisions planned for this indicator.

### 3.22. RIVER CORRIDORS

| Indicator Statement | Target Statement |
|---|---|
| The percentage of harvested areas that create openings greater than 1 hectare within 100 metres of RRZ's in identified major river corridors | No openings exceeding 1 hectare in blocks within the major river corridors harvested under the *FSJPPR* (i.e. after November 15th, 2001) |
| **SFM Objective:** Management strategies address important values in SMZ areas | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Riparian Management Landscape Level Strategy | |

***Acceptable Variance:***

10% of openings may exceed 1 hectare, but no openings greater than 2 hectares, except where required otherwise by a forest health treatment plan.

***CURRENT STATUS AND COMMENTS***

As part of the preparation of the Forest Operations Schedule #2, a digital spatial layer was used for those portions of streams identified in the Fort St. John LRMP in the Major River Corridor Resource Management Zone. The coverage assigned a 100-metre buffer to the riparian reserve zone stream classification, which was based on inventory information if known, or defaulted to S1 classifications if unknown. This coverage is displayed on all 1: 50,000 maps where the Major River Corridor RMZ occurs. Any blocks not previously authorized and occurring within a major river corridor were either deleted prior to inclusion in the FOS, or were designated for partial cutting systems (blocks 20015 and 20016) that will be consistent with the target statement.

During the reporting period, Canfor harvested a very small amount of area (0.06 ha) within the Blueberry River Major River Corridor – part of block 02243. BCTS did not harvest any amount of area from a Major River Corridor. The participants are in conformance with this indicator.

***REVISIONS***
There are no revisions planned for this indicator.

### 3.23. TOTAL NUMBER OF CONTRACTS AWARDED TO FIRST NATIONS[10]

| Indicator Statement | Target Statement |
|---|---|
| Value and total number of Contracts awarded annually to First Nations. | Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations. |
| **SFM Objective:** Provide opportunities for First Nations to participate in forest economy. | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
This is a reporting indicator so no variance is required.

***CURRENT STATUS AND COMMENTS***

During the 2011-2012 reporting period, the Participants provided seven contracts to companies or groups owned, operated, or sponsored by First Nations. These contracts provided First Nations with the opportunity to be involved in the local forest industry and economy by harvesting and hauling approximately 372,527 $m^3$ of timber and by operating the Peace Valley OSB log yard. The contract to manage the PVOSB logyard was worth approximately $ 1.2 million in 2011.

***REVISIONS***
No revisions are planned at this time for this indicator.

### 3.24. PERMANENT ACCESS STRUCTURES

| Indicator Statement | Target Statement |
|---|---|
| Percentage of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed. | A maximum of 5% of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average. |
| **SFM Objective:**<br>Sustain forest lands within our control within the Defined Forest Area<br>Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress | |
| **Linkage to *FSJPPR*:** For the purposes of Section 35(5) of the *FSJPPR*, this indicator statement, target statement and acceptable variance will replace Section 30(1) of the *FSJPPR*.<br>For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and | |

[10] New indicator in 2010 SFMP. Replaces old indicator # 23 'Visual Screening' which has been deleted

acceptable variance will be used to determine if forest practices are consistent with the Access Management Landscape Level Strategy.

***Acceptable Variance:***

None.

***CURRENT STATUS AND COMMENTS***

The current 3-year average area in permanent access structures ending March 31, 2012 is presented in the following Table 12. The target for this period is a maximum of 5% of total area in permanent access structures. All participants' permanent access structure values were consistent with the targets during the reporting period – Canfor 4.4 %, and BCTS 2.2%

**Table 12: Current 3-year Average in Permanent Access Structures (PAS)**

| Managing Participant | Annual Reporting Period (Ending Mar. 31st of Year Indicated) | PAS Area (ha) | Total Area (ha) | % PAS of Total Area |
|---|---|---|---|---|
| Canfor | 2010 | 153.7 | 3788.0 | 4.1% |
| Canfor | 2011 | 194.4 | 4266.4 | 4.6% |
| Canfor | 2012 | 153.7 | 3788.2 | 4.1% |
| **Canfor Total:[11]** | | **528.1** | **12,006.8** | **4.4%** |
| BCTS | 2010 | 23.5 | 1034.4 | 2.3% |
| BCTS | 2011 | 9.4 | 494.8 | 1.9% |
| BCTS | 2012 | 23.0 | 1059.9 | 2.2% |
| **BCTS Total:[12]** | | **55.9** | **2371.2** | **2.2 %** |
| **Combined Participants Totals:** | | **584.0** | **14378.0** | **4.1%** |

Both managing participants are in conformance with the target for this indicator.

The following graph (Figure 7) shows the participants' performance relative to the Permanent Structure Access indicator over the last eight reporting periods. BCTS values have trended consistently downward. Area occupied by Permanent Access Structures on Canfor operations has remained fairly consistent, and also trending downwards. Although this indicator is tracked separately for each managing participant, the combined total values are presented in the graph in the interest of displaying a cumulative view.

[11] based on 10 metre wide road widths
[12] based on 6 metre wide road widths

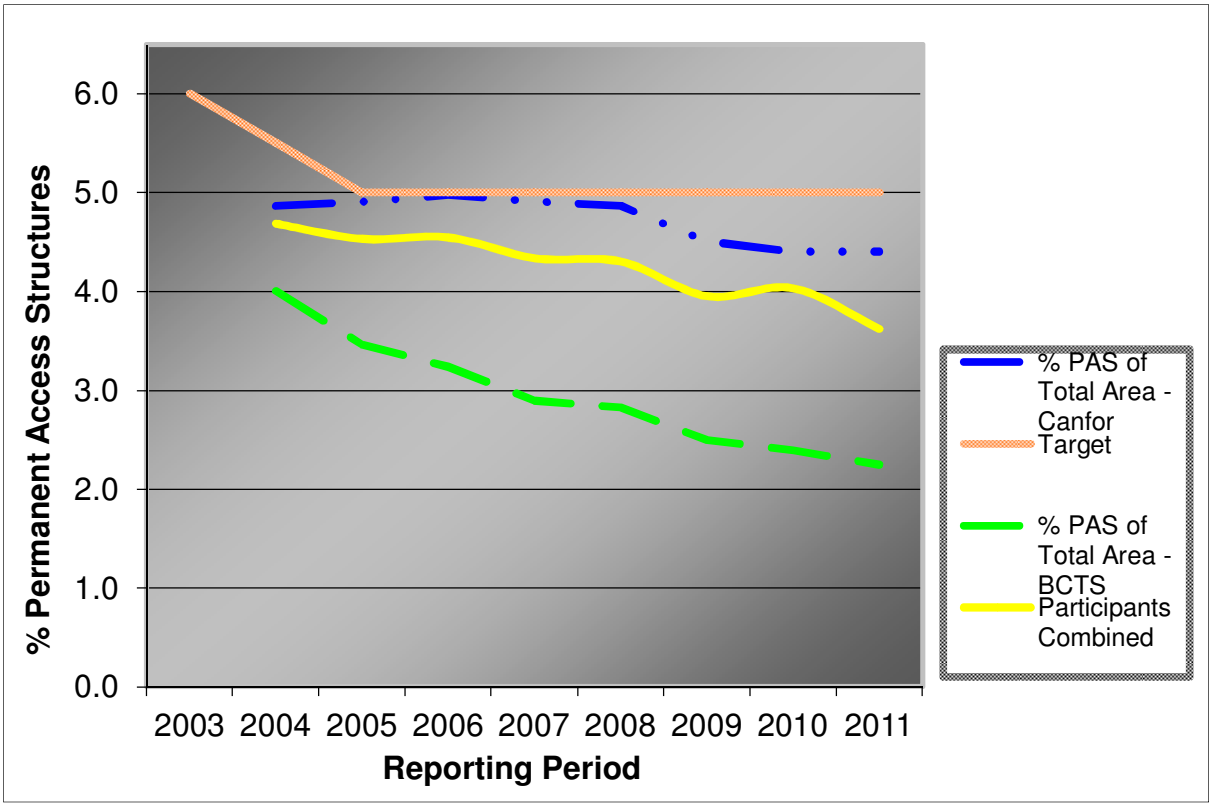



**Figure 7: Eight year reporting results of 3-year rolling averages of PAS % (2005-2012)**

***REVISIONS***

There are no revisions proposed for this indicator and target.

### 3.25. FOREST HEALTH

| Indicator Statement | Target Statement |
|---|---|
| Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them.[13] | 100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection. |
| **SFM Objective:**<br>Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress<br>Ecosystem functions capable of supporting naturally occurring species continue to exist within the DFA<br>Maintain or enhance landscape level productivity | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Landscape Level Strategy. | |

***Acceptable Variance:***

[13] Indicator changed in 2010 SFMP to apply to silviculture obligation areas

A variance of 1 additional year for completing the treatment plan is permissible to provide time for additional information collection and consultation with forest health specialists.

***CURRENT STATUS AND COMMENTS***

BCTS completed a number of fill plants on obligation areas during the reporting period of April 1, 2011 through March 31, 2012. Three obligation areas were fill planted with a total area of 46.3 ha. The reasons may be attributed to a number of biotic and abiotic factors, principally being grass and other competitive herbaceous species, frost pockets and poor stock handling practices during the planting contract.
From the surveys conducted during the reporting period, there were minor incidences of some forest health damage, primarily from damaging agents such as western gall rust and northern pitch moth. There was also some damage identified from gall rust and stalactiform blister rust. Reports of defoliation on some of the deciduous plantations due to Venturia spp was indicated. Due to a wetter spring and early summer there was some higher levels of incidence of Large spore spruce-Labrador Tea rust (*Chrysomyxa ledicola)* resulting in moderate to severe defoliation of some spruce plantations.
None of the forest damages identified were considered at levels significant enough to warrant development of a treatment plan however.

Canfor fill planted 110.6 ha of obligation area in 8 different openings during the reporting period of April 1, 2011 through March 31, 2012. The reasons may be attributed to a number of biotic and abiotic factors, principally being grass and other competitive herbaceous species, slash accumulations and log decks on roadsides impacting soil warming which inhibits natural regeneration of aspen and fire hazard abatement may have impacted the sites ability to regenerate naturally, and forest fire activities in two openings.

From the surveys conducted during the reporting period, there were minor incidences of some forest health damage, primarily from damaging agents such as: Minor levels of Western Gall Rust, Northern Pitch Moth, Large-Spored Spruce-Labrador Tea Rust, Spruce Broom Rust, Spruce Needle Cast, Warrens Root Collar Weevil, White Pine Weevil, Rabbit damage, and Moose Browse.

The majority of the forest damages identified were not considered at levels significant enough to warrant development of a treatment plan at this time.

The participants are consistent with the targets for this indicator.

***REVISIONS***

There are no revisions planned for this indicator.

### 3.26. SALVAGE

| Indicator Statement | Target Statement |
|---|---|
| The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class[14] | The relative proportions of salvage hectares will be highest in the high intensity zones[15], and lowest in the low intensity zones over an SFMP period (April 1, 2010- March 31, 2016) |
| **SFM Objective:** A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

None.

***CURRENT STATUS AND COMMENTS***

During the summer of 2011 there were 5 forest fires identified within the DFA with a combined area of 10.1 ha. These fires occurred in the Moderate and High Management Intensity Zones, however, of the fires impacting the Crown Forest Land Base, none of these fires were of sufficient size or timber value for the Participants to initiate salvage harvesting activities within them. As such salvage harvesting was not completed on any stands damaged by fire during the 2011-2012 reporting period.

**Table 13: Area Damaged / Salvaged in Merchantable Timber 2011-2012**

| MANAGEMENT INTENSITY EMPHASIS | HIGH | | MODERATE | | LOW | | ALL | | |
|---|---|---|---|---|---|---|---|---|---|
| Year | Merch* Timber Damaged (ha) | Merch Timber Salvaged (ha) | Merch* Timber Damaged (ha) | Merch Timber Salvaged (ha) | Merch* Timber Damaged (ha) | Merch Timber Salvaged (ha) | Total Merch* Timber Damaged (ha) | Total Area Salvaged | Total Area Damaged (ha) |
| 2011 | 6.1 | 0 | 4.0 | 0 | 0 | 0 | 10.1 | 0 | 10.1 |
| **SFMP Totals** | **6.1** | **0** | **4.0** | **0** | **0** | **0** | **10.1** | **0** | **10.1** |

*Based on VRI from LRDW on stands with a total estimated volume of >= 140m$^3$/ha and occurring on the Crown Forest Landbase (CFLB).

As no salvage harvesting of fire damaged stands has occurred to date under SFMP #2, the participants are consistent with the target for this indicator.

***REVISIONS***

There are no revisions proposed for the indicator and target

[14] Modified in 2010 from SFMP # 1 to include only fire damaged stands
[15] See section 1.3.1 for description of LU's in high and low management intensities

### 3.27. SILVICULTURE SYSTEMS

| Indicator Statement | Target Statement |
|---|---|
| Percentage of area harvested annually using even aged silvicultural systems | Even aged silvicultural systems will be employed on at least 80% of the total area harvested annually in the DFA |
| **SFM Objective:** A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

No acceptable variance.

***CURRENT STATUS AND COMMENTS***

The following table summarizes the silviculture system (merchantable ha) on blocks harvested between April 1, 2011 and March 31, 2012.

| Managing Participant | Even-aged (ha) | Uneven-aged (ha) | Total (ha) |
|---|---|---|---|
| Licensee Participants | 3649.9 | 11.9 | 3661.8 |
| BCTS | 988.6 | 0 | 988.6 |
| **Total** | **4638.5** | **11.9** | **4650.4** |

Even-aged silviculture systems were employed on 99.7% of the total area harvested by participants within the DFA, which is consistent with the target for this indicator.

***REVISIONS***

There are no proposed changes to the indicator or the target.

### 3.28. SPECIES COMPOSITION

| Indicator Statement | Target Statement |
|---|---|
| Relative Change in Plantation Composition versus Harvest Composition for Spruce and Pine | The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting) |
| **SFM Objectives:** Maintain the diversity and pattern of communities and ecosystems within a natural range Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy. | |

***Acceptable Variance:***

An annual variance of plus or minus 20% absolute difference between the planted Pine/Spruce percentages and cruise Pine/Spruce percentage estimates is allowed to reflect potential annual harvest composition fluctuations, site treatment impacts, annual seedling delivery fluctuations (i.e. nursery production shortfalls/overruns), and to allow site level decisions to be signed off by Professional Foresters for variances (e.g. to address potential forest health concerns such as areas highly susceptible to rusts, insects, etc.)[16]

***CURRENT STATUS AND COMMENTS***

The following table summarizes the blocks planted between April 1, 2011 and March 31, 2012 and the corresponding cruise species percentages by licensee:

**Table 14: Planting vs. cruise species comparison**

| **2011 Planting Summary** | | | |
|---|---|---|---|
| | | | |
| **Division** | **Data** | **Total** | **Percentages** |
| **BCTS** | **Sum of Cruise Spruce (m3)** | **39484** | **55.5%** |
| | **Sum of Cruise Pine (m3)** | **31684** | **44.5%** |
| | **Sum of Planted Spruce (trees)** | **204650** | **67.6%** |
| | **Sum of Planted Pine (trees)** | **122185** | **37.8%** |
| **Licensee Participants** | **Sum of Cruise Spruce (m3)** | **250872** | **45.%** |
| | **Sum of Cruise Pine (m3)** | **303283** | **54.7%** |
| | **Sum of Planted Spruce (trees)** | **1274630** | **64.7%** |
| | **Sum of Planted Pine (trees)** | **695200** | **35.3%** |
| **Total Sum of Cruise Spruce (m3)** | | **290355** | **46.4%** |
| **Total Sum of Cruise Pine (m3)** | | **334967** | **53.6%** |
| **Total Sum of Planted Spruce (trees)** | | **1479280** | **64.4%** |
| **Total Sum of Planted Pine (trees)** | | **817385** | **35.6%** |

As indicated above the blocks planted in 2011 contained 46.4% spruce volume in the cruise and were planted with 64.4% spruce. These blocks contained 53.6% pine volume in the cruise and were planted with 35.6% pine. The planted species percentages are within 20% of the cruise species percentages and therefore the participants are within the acceptable variance for this indicator and target.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

[16] The original variance was amended in the 2006-2007 Annual Report- clarified that the assessment is based on cruised volumes vs seedlings planted

### 3.29. REFORESTATION ASSESSMENT

| Indicator Statement | Target Statement |
|---|---|
| Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas. | Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV).<br>The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas.<br>The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas. |
| **SFM Objectives:**<br>A natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress<br>Maintenance of the processes for carbon uptake and storage | |
| **Linkage to FSJPPR:** For the purposes of Section 35(5) of the FSJPPR this indicator statement, target statement and acceptable variance will be used in replacement of the portions of affected Section 32 of the FSJPPR through the application of the landscape level strategy for coniferous areas logged after November 15, 2001. This will also apply to coniferous area in cutblocks with commencement dates before November 15, 2001 if the participant currently carries reforestation liability and has submitted a statement to the district manager that the cutblock(s) will be subject to the SFMP under Section 42 of the FSJPPR. Please refer to sec 8.1.3 of this SFMP.<br>For the purposes of Section 42 of the FSJPPR this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies for coniferous areas. | |

***Acceptable Variance:***

A variance of 5% below the Target Merchantable Volume will be acceptable (i.e. 90% of the Maximum Predicted Merchantable Volume for coniferous areas, and 85% of the Maximum Predicted Merchantable Volume for deciduous areas). The variance accounts for the complexity of ecosystems and silviculture regimes combined with the long time frames and variety of influences on reforestation outcomes.

If the conifer target population's Predicted Merchantable Volume is less than the Target Merchantable Volume, individual cutblocks will be required to meet a minimum cutblock Mean Stocked Quadrant (MSQ) value of 2.0 well growing crop trees, for a target stocking of 1200 stems/ha or greater. For a target stocking of 1000 stems/ha and 800 stems/ha the minimum cutblock MSQ values will be 1.7 and 1.3 respectively. If the cutblock has areas of different target stocking the MSQ will be prorated by area.

Damage events beyond the control or influence of the Participants (e.g. wildfire) will result in the block being deleted from the assessment population, and assessed as noted in the Strategy and Implementation section.

The MSQ values for deciduous will be developed in conjunction with development of a deciduous volume compiler. The TMV target for deciduous blocks will be reviewed in conjunction with development of the deciduous compiler and MSQ values. An amendment to the SFMP will be submitted prior to implementation of the landscape level assessment of deciduous reforestation performance. In the interim deciduous reforestation will be assessed based on the revised applicable performance standards outlined in Appendix 6, and summarized in Section 8.1.3.3.

Situations may arise in which despite due diligence in prescribing and implementing the silviculture regimes the Participant has not met the target. Where further treatment options are limited the District Manager may waive a requirement for further treatment.

***CURRENT STATUS AND COMMENTS***

**Canfor**

A total of 102 blocks were surveyed from the 1996/1997 harvest year, accounting for a sample size of 2910.2 ha. The field data collected in August and September of 2011 was compiled over the winter using a compiler developed by J.S. Thrower & Associates. The 2910.2 ha were grouped into 26 different strata based on species composition, site index, stocking class, and target stocking standard. For each stratum a target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated for each stratum. The PMV for the 1996/1997 harvest year was 1,917,231 $m^3$ and the TMV was 1,832,316 $m^3$. **This put the PMV at 104.6% of the TMV, which means the target was met.** See Table 40, "Predicted and Target Volumes by Stratum – Canfor 2011" in Appendix 5.

Table 37, "Mean MSQ by Block – Canfor (2011)" in Appendix 5 shows the mean MSQ by block.

Block 114006 had four null plots, MSQ was estimated at 3.8 (area weighted average of MSQ estimates for each SU). Four strata were determined to be Satisfactorily Restocked (SR) but not Well Growing (WG) due to competition from deciduous species on site, meaning that they had adequate conifer density but that deciduous trees were overtopping the conifer. These SR strata had PMV's calculated at 103.1%, 88.7%, 80.5%, and 68.9%, reflecting the impact of the deciduous competition on the predicted future conifer volumes. The SR strata accounted for 42.2ha of the total 2910.2ha population size, so the effect of the low PMV strata is minimal over the landscape and reflects the variability expected by employing a landscape-level reforestation assessment.

**BCTS**

A total of 11 BCTS blocks were surveyed from the 1996/1997 -harvest year. This accounted for a sample size of 425.3 ha. The field data collected in August through October was compiled over the winter using a compiler developed by Timberline Natural Resource Group. The 425.3 ha were broken down into 6 different strata based on species composition, site index, stocking class and target stocking standard. For each stratum a target merchantable volume (TMV) was determined based on TASS models. Using the inputs of mean stocked quadrant (MSQ), mean effective age and site index, a predicted merchantable volume (PMV) was then calculated for each stratum. The PMV for the 1996/1997 harvest year was 234,935$m^3$, and the TMV was 248,463$m^3$. **This put the PMV at 94.6 % of the TMV, which is below the target of 95%. This means that the target has not been achieved.**

See Table 39, "Predicted and Target Volumes by Stratum – BCTS for 2011" in Appendix 5.

**Action Plan**

The results of the MSQ conifer population for the harvest commencement period of July 1, 1996 – June 30, 1997 compiled for BC Timber Sales – Fort St John field team has failed to achieve the minimum 95% variance for target merchantable volume by 0.4% (94.6). As per indicator 29 of the Fort St John Pilot Project Sustainable Forest Management Plan, corrective actions must be taken to address situations whereby a population has a lower than acceptable level. An action plan has been prepared that has identified the areas selected for treatment, the type of treatment required, timelines for completion and the expected results relative to the target.

The blocks selected for treatment are:
1) A48186 block 1 (94B.030-105)
2) A54878 CP B block B (94H.033-003)

Model projections indicate that the 95% variance level would likely be achieved or exceeded with the treatment of one block only. However two blocks are proposed to ensure that sufficient area is included in planning processes to alleviate potential situations such as First Nation issues or unsuitable weather conditions which could limit treatment opportunities.

The action plan will consist of an aerial broadcast herbicide treatment scheduled for 2012
In the annual report submitted to government on October 31, 2012, the tables and data will be present indicating that the population has failed to achieve the 95% variance level. Each of the blocks treated will then be resurveyed in 2013.

The data collected from the resurveyed blocks will then be put back into the survey compiler along with the survey information from the remainder of the block population. If as expected the population meets or exceeds the minimum 95% value, then these remaining two blocks will be declared in RESULTS as well growing in late 2013 or early 2014.

Finally, new tables will be added to the annual report submitted to government on October 31, 2014 that will identify this current block population and the new compilation results.

Based on model projections, if the treatment is effective the predicted merchantable volume should exceed the 95% variance level by three to four percent.

The following chart shows a 3-year summary for this indicator:

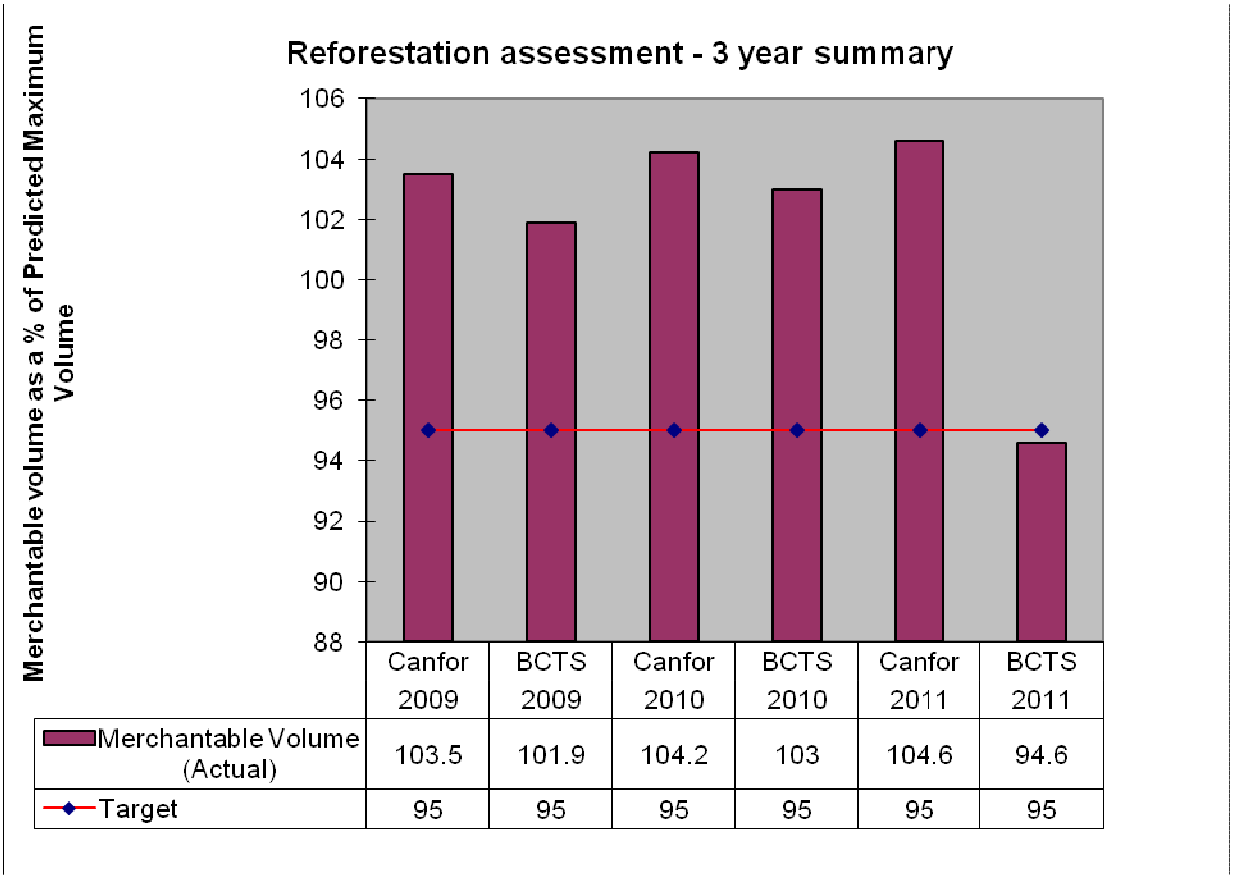



**Figure 8: Reforestation assessment merchantable volume prediction**

The participants' activities from 2009 to 2010 were consistent with the target for this indicator. However the participants' activities in 2011 were not consistent with the indicator target.

***REVISIONS***

There are no proposed revisions to this indicator.

### 3.30. ESTABLISHMENT DELAY

| Indicator Statement | Target Statement |
|---|---|
| Establishment Delay (years) | The area weighted average establishment delay for coniferous regeneration will not exceed two years<br>The area weighted average establishment delay for deciduous regeneration will not exceed three years<br>The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years. |
| **SFM Objectives:**<br>Maintain the diversity and pattern of communities and ecosystems within a natural range<br>Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress<br>Maintenance of the processes for carbon uptake and storage | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Reforestation Landscape Level Strategy. | |

***Acceptable Variance:***

To allow for variations in site preparation requirements, access, and delays in harvest the acceptable variance for establishment delay is an additional one half year (e.g. 2.5 years for conifer, 3.5 years for deciduous and mixedwood).

***CURRENT STATUS AND COMMENTS***

**Coniferous Regeneration**:

BCTS coniferous establishment delay was 1.63 years, which is within the acceptable performance range for coniferous establishment timelines for this indicator.

On all other participants' licences, coniferous establishment delay was 1.0 years, which is within the acceptable performance range for coniferous establishment timelines for this indicator.

**Deciduous Regeneration**:

The BCTS deciduous establishment delay was 1.5 years, which is within the acceptable performance range for deciduous establishment timelines for this indicator.

On all other participants' licences, deciduous establishment delay was 2.2 years, which is within the acceptable performance range for deciduous establishment timelines for this indicator.

**Mixedwood Regeneration**

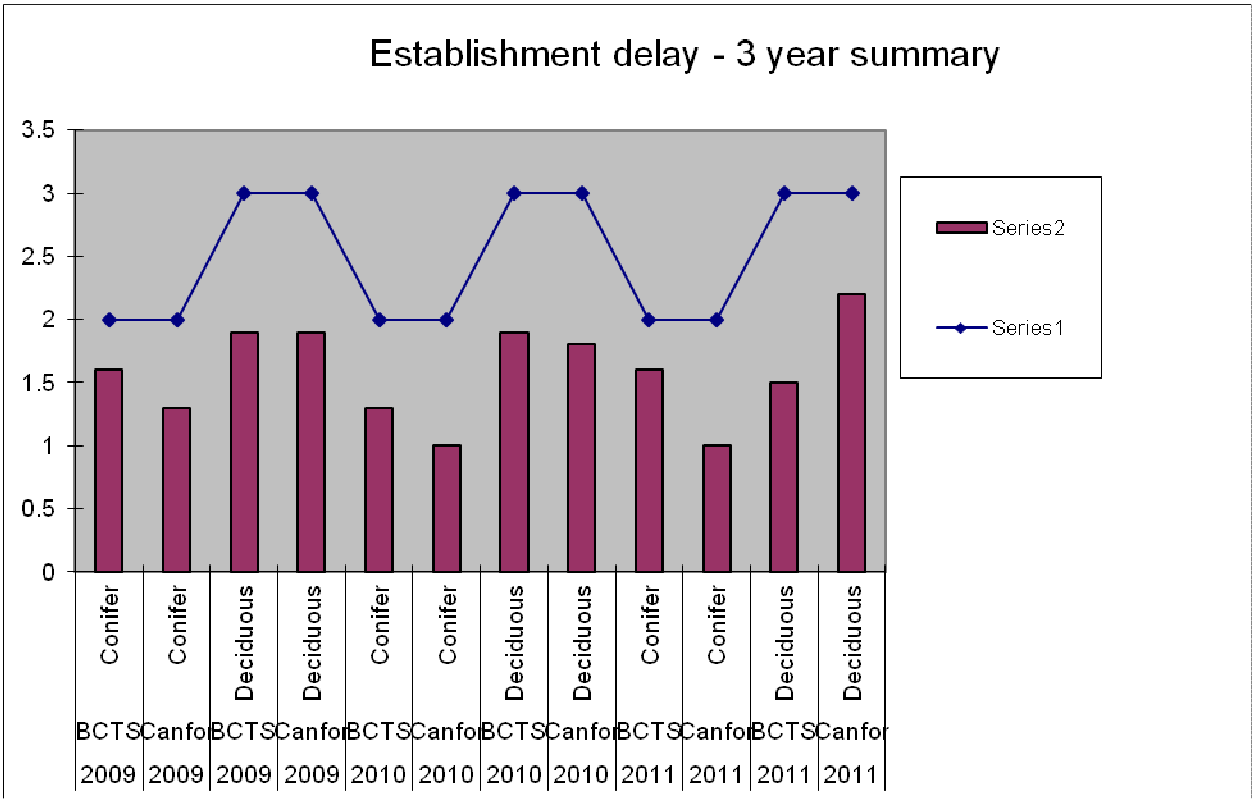
The BCTS mixedwood establishment delay was 0.1 years, which is within the acceptable performance range for mixedwood establishment timelines for this indicator.

On all other participants' licences, mixedwood establishment delay was 2.4 years, which is within the acceptable performance range for mixedwood establishment timelines for this indicator.

Refer to Appendix 5, Reforestation, Table 43 for BCTS and Table 44 for all other participants for a detailed listing of how this establishment delay value was calculated.

The Figure 9 shows a 3-year summary for the coniferous and deciduous regeneration for indicator:

**Figure 9: Establishment delay summary**




## ***REVISIONS***

There were minor revisions made for the indicator and target, refer to approved SFMP# 2.

### 3.31. LONG TERM HARVEST LEVEL

| Indicator Statement | Target Statement |
|---|---|
| Long-term harvest level (LTHL) as measured in cubic metres per year ($m^3$/yr) | We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA) |
| **SFM Objective:**<br>Maintain or enhance landscape level productivity<br>No decrease in the LTHL in the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

At the time of SFMP #1 government policy direction was to have TSR's prepared by industry for the Chief Forester's consideration, and determination of the AAC. It is unclear at this time whether industry will be involved in future TSR development. Therefore this indicator will only apply if the Participants are involved in the preparation of the TSR.
The Participants may propose an AAC however, the Chief Forester (Ministry of Forests) determines the AAC for the management unit.

***CURRENT STATUS AND COMMENTS***

The next AAC determination by the provincial Chief Forester was deferred in 2008, and was to occur no later than January 2013. Work on the Timber Supply Review was scheduled to commence in the fall of 2011, but has been delayed and will commence after the Dawson Creek TSA's TSR. Government staff have indicated that they will be doing the majority of the work for the TSR, with the Participants being involved from a review and comment perspective. Currently the AAC remains at the levels set in 2003. The participants are in conformance with the target for this indicator.

***REVISIONS***

There are no proposed revisions to the indicator statement or target.

### 3.32. SITE INDEX

| Indicator Statement | Target Statement |
|---|---|
| Site index | Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation |
| **SFM Objective:**<br>Maintain or enhance landscape level productivity<br>Protect soil resources to sustain productive forests | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

A maximum negative variance of 15% post harvest site index *versus* pre harvest site index is allowed to account for statistical variability.

***CURRENT STATUS AND COMMENTS***

There has been no change in the status of this indicator since the development of the SFM plan.

The majority of SPs/SLPs for blocks harvested since Nov. 15, 2001 have been updated to include pre-harvest site index, so that the data will be readily available when well-growing assessments are made to them in the future. All SLP's completed by the participants between April 1, 2010 and March 31, 2011 include site index. Blocks for which licensees developed SLP's during the reporting period have Site Index identified for each Standard Unit.

This indicatore applies to blocks harvested since Nov. 15, 2001 that have undergone completionof a well growing assessment as per the required well growing assessment schedule. No well growing assessments were required to be completed during the 2011-12 reporting

period, therefoe there are no results to be reported for the 2011 reporting year. The participants' activities are in conformance with the requirements of this indicator.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.33. FIRST NATIONS CONSULTATION & INFORMATION SHARING[17]

| Indicator Statement | Target Statement |
|---|---|
| Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's) | 100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's). |
| **SFM Objective:** Involve First Nations in review of forest management plans, provide understanding of forest management plans | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

No acceptable variance.

***CURRENT STATUS AND COMMENTS***

During the 2011-2012 reporting period there were no major FOS amendments, and one amendment to the SFMP. Both BCTS and Canfor continued with information sharing for the Integrated Vegetation Management Plans and implemented the new Integrated Vegetation Management Plans during the reporting period.

Integrated Vegetation Management Plans (IVMP)

Both Canfor and BCTS operated under their new 2011-2016 IVMPs (formerly PMPs) during the reporting period. Consultation and information sharing for the new plans was initiated in 2010 and continued in 2011. Consultation and information sharing communication was sent to all affected First Nations – Blueberry River FN, Halfway River FN, Doig River FN, Prophet River FN, Fort Nelson FN, Saulteau FN, and West Moberly FN. The communication included invitations for follow-up meetings to share more information related to the proposed plans. The following table summarizes the information sharing meetings conducted during the Annual Report period.

SFMP#2 amendment #2

An amendment to the Sustainable Forest Management Plan #2 for the Fort St. John Pilot Project area was prepared by the Participants during the reporting period. SFMP amendment #2 featured the revision of two indicators and the addition of one new indicator to bring the plan fully in line with the new CSA Z809-08 standard.

The amendment content was discussed at the February 23 2012 Public Advisory Group meeting, which representatives of all local First Nations were directly invited to attend and participate.

[17] New indicator in 2010 SFMP- previous SFMP#1 Indicator # 33 was Landslides, which has been deleted

**Table 15 Summary of information sessions related to IVMPs or SFMP, to which First Nations were invited (2011-2012)**

| PLAN | Forum for information session | Date |
|---|---|---|
| IVMP | Canfor/BCTS meeting with BRFN | April 8, 2011 |
| IVMP | Canfor/BCTS meeting with HRFN | April 28, 2011 |
| IVMP | BCTS meeting with Prophet River FN | May 5 2011 |
| IVMP | Canfor meeting with PRFN | May 25, 2011 |
| SFMP | PAG meeting, included discussion of SFMP amendment#2 | Feb. 23, 2012 |

The participants are consistent with the target for this indicator.

***REVISIONS***

There are no revisions planned for this indicator statement or target.

### 3.34. PEAK FLOW INDEX

| Indicator Statement | Target Statement |
|---|---|
| The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded | 95% or more of the watersheds will be below the baseline target<br>All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned |
| **SFM Objective:** Maintenance of water quantity | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies. | |

***Acceptable Variance:***

A variance to a minimum of 90% of the watersheds below the baseline targets will be acceptable.

A zero variance for conducting a watershed review wherever new harvesting is planned in a watershed where the baseline target is exceeded.

***CURRENT STATUS AND COMMENTS***

As part of the preparation of Forest Operations Schedule #2, a DFA-wide analysis of watersheds was conducted. The analysis determined the impact of FOS #2 to each watershed's peak flow index, by modelling the impact of the participants' total proposed harvest and the projected growth of forest stands. The analysis showed that all watersheds (105 of 105, 100%) are within the target threshold for peak flow upon completion of all harvest activities proposed in FOS# 2 through 2016. Table 16 identifies the peak flow index expected upon completion of all harvest activities proposed in FOS# 2 in 2016. The Participants are consistent with the Indicator and Target for the current reporting year.

**Table 16: PFI FOS#2 Condition and Targets**

| Watershed Group | Watershed Name | Class | Size (km2) | Elevation range (m) | H60 Elevation (m) | Baseline Threshold PFI | PFI FOS# 2 |
|---|---|---|---|---|---|---|---|
| Fontas | Bedji Creek | | 230.42 | 460 – 600 | 508 | 50 | 2.6 |
| Fontas | Chasm Creek | | 168.21 | 539 – 680 | 599 | 50 | 0.2 |
| Fontas | Dazo Creek | | 260.27 | 360 – 494 | 460 | 50 | 1.9 |
| Fontas | FONT Unnamed 1 | | 117.73 | 361 – 481 | 461 | 50 | 1.2 |
| Fontas | Fontas River | | 320.35 | 536 - 800 | 660 | 50 | 1.1 |
| Fontas | Kataleen Creek | | 162.95 | 380 – 451 | 413 | 50 | 0.7 |
| Fontas | Teklo Creek | | 212.81 | 380 – 474 | 426 | 50 | 0.6 |
| Fontas | Upper Etthithun River | | 404.45 | 620 – 842 | 680 | 50 | 6.2 |
| Fontas | Ekwan Creek | LB | 850.5 | 360 – 481 | 420 | 50 | 1.2 |
| Fontas | Etthithun River | LB | 1161.6 | 440 – 842 | 535 | 50 | 3.6 |
| Fontas | Fontas River - LB | LB | 714.32 | 440 – 800 | 580 | 50 | 0.6 |
| Kahntah | Dahl Creek | | 412.84 | 535 – 943 | 700 | 50 | 0.9 |
| Kahntah | Helicopter Creek | | 147.32 | 505 - 742 | 613 | 62 | 1.2 |
| Kahntah | KAHN Unnamed 4 | | 226.87 | 640 – 944 | 720 | 50 | 6.7 |
| Kahntah | KAHN Unnamed 5 | | 126.05 | 538 – 721 | 624 | 62 | 1.0 |
| Kahntah | Upper Cautley Creek | | 478.27 | 660 – 1022 | 740 | 62 | 5.5 |
| Kahntah | Cautley Creek | LB | 865.02 | 518 – 1022 | 680 | 62 | 4.3 |
| Kahntah | Kahntah Creek | LB | 1096.59 | 518 - 944 | 700 | 50 | 2.5 |
| Lower Beatton | Aitken Creek | | 828.45 | 654-985 | 815 | 43 | 31.2 |
| Lower Beatton | Charlie Lake | | 292.66 | 690-889 | 773 | 62 | 53.3 |
| Lower Beatton | Doig River | | 983.34 | 623-852 | 731 | 43 | 7.6 |
| Lower Beatton | Osborn River | | 735.95 | 623-987 | 745 | 43 | 17.3 |
| Lower Beatton | Umbach Creek | | 430.91 | 611-866 | 741 | 43 | 27.3 |
| Lower Beatton | Upper Blueberry | | 857.77 | 655-1048 | 820 | 50 | 27.6 |
| Lower Halfway | Aikman Creek | | 118.74 | 640 - 1120 | 815 | 43 | 31.0 |
| Lower Halfway | Blair Creek | | 230.44 | 698 – 1142 | 902 | 43 | 25.3 |
| Lower Halfway | Cameron Creek | | 495.18 | 699 – 1203 | 944 | 43 | 22.3 |
| Lower Halfway | Colt Creek | | 158.53 | 719 – 1701 | 913 | 43 | 16.7 |
| Lower Halfway | Deadhorse Creek | | 208.99 | 560 – 959 | 820 | 43 | 33.6 |
| Lower Halfway | Ground Birch Creek | | 338.39 | 558 – 1062 | 735 | 43 | 24.6 |
| Lower Halfway | Horn Creek | | 426.61 | 1079 – 2347 | 1474 | 37 | 0.01 |
| Lower Halfway | Kobes Creek | | 299.88 | 620 – 1648 | 828 | 50 | 21.9 |

| Watershed Group | Watershed Name | Class | Size (km2) | Elevation range (m) | H60 Elevation (m) | Baseline Threshold PFI | PFI FOS# 2 |
|---|---|---|---|---|---|---|---|
| Lower Halfway | LHAF Unnamed 1 | | 216.47 | 699 – 1022 | 860 | 43 | 31.4 |
| Lower Halfway | Needham Creek | | 328.94 | 938 – 2269 | 1430 | 43 | 0.04 |
| Lower Halfway | Poutang Creek | | 179.97 | 1098 – 2393 | 1453 | 43 | 0.0 |
| Lower Halfway | Townsend Creek | | 295.8 | 698 – 1081 | 880 | 43 | 37.7 |
| Lower Halfway | Cameron River - Residual | LB | 2029.32 | 538 - 1205 | 837 | 37 | 30.8 |
| Lower Halfway | Graham River | LB | 2309.94 | 530 – 2404 | 1279 | 43 | 4.7 |
| Lower Sikanni | Bull Creek | | 351.34 | 639 – 981 | 752 | 50 | 19.5 |
| Lower Sikanni | Dechacho Creek | | 172.51 | 378 – 762 | 516 | 50 | 2.4 |
| Lower Sikanni | Katah Creek | | 594.82 | 419 – 915 | 660 | 50 | 13.6 |
| Lower Sikanni | Kenai Creek | | 78.86 | 400 – 621 | 1000 | 50 | 2.9 |
| Lower Sikanni | LSIK Unnamed 2 | | 162.43 | 536 – 858 | 720 | 43 | 12.6 |
| Lower Sikanni | LSIK Unnamed 4 | | 59.29 | 519 – 721 | 641 | 50 | 2.2 |
| Lower Sikanni | Niteal Creek | | 516.6 | 359 – 520 | 475 | 50 | 0.2 |
| Lower Sikanni | Upper Gutah Creek | | 806.45 | 559 – 901 | 728 | 62 | 7.3 |
| Lower Sikanni | West Conroy | | 248.28 | 638 – 1020 | 782 | 50 | 22.7 |
| Lower Sikanni | Conroy Creek | LB | 1096.67 | 417 – 1020 | 720 | 50 | 16.4 |
| Lower Sikanni | Gutah Creek | LB | 1450.99 | 380 – 901 | 645 | 50 | 5.6 |
| Milligan | Dede Creek | | 128.35 | 680 – 740 | 720 | 62 | 22.4 |
| Milligan | Flick Creek | | 203.24 | 700 – 859 | 780 | 62 | 5.0 |
| Milligan | Little Beaverdam Creek | | 334.14 | 690 – 854 | 732 | 62 | 2.7 |
| Milligan | MILL Unnamed 3 | | 325.52 | 780 – 962 | 880 | 62 | 0.7 |
| Milligan | Milligan Creek | | 432.38 | 680 – 941 | 780 | 50 | 4.6 |
| Milligan | Upper Milligan Creek | | 382.2 | 719 – 941 | 832 | 50 | 2.1 |
| Milligan | Milligan Creek - LB | LB | 1836.56 | 619 – 941 | 758 | 50 | 6.7 |
| Upper Beatton | Arrow Creek | | 507.02 | 661 – 902 | 783 | 50 | 2.2 |
| Upper Beatton | Beatton River | | 1071.09 | 777 – 1780 | 984 | 43 | 15.0 |
| Upper Beatton | Black Creek | | 666.11 | 700 – 1022 | 807 | 50 | 6.7 |
| Upper Beatton | Grewatsch Creek | | 269.73 | 736 – 1103 | 927 | 50 | 19.2 |
| Upper Beatton | Holman Creek | | 150.18 | 719 – 1080 | 896 | 50 | 27.9 |
| Upper Beatton | Jedney Creek | | 128.76 | 779 – 1101 | 952 | 43 | 19.7 |
| Upper Beatton | La Prise Creek | | 338.99 | 717 – 1021 | 860 | 50 | 18.3 |
| Upper Beatton | Martin Creek | | 120.24 | 700 – 980 | 830 | 50 | 17.3 |
| Upper Beatton | McMillan Creek | | 103.34 | 659 – 770 | 736 | 43 | 1.9 |
| Upper Beatton | Nig Creek | | 476.81 | 680 – 920 | 782 | 50 | 21.0 |
| Upper Beatton | UBTN Unnamed 9 | | 156.26 | 677 – 880 | 757 | 50 | 2.5 |
| Upper Beatton | Upper Beatton Lrg | LB | 2345.63 | 719 - 1782 | 924 | 50 | 18.9 |
| Upper Halfway | Blue Grave Creek | | 158.63 | 720 – 1722 | 960 | 37 | 12.0 |
| Upper Halfway | Horseshoe Creek | | 197.41 | 739 - 1762 | 1060 | 37 | 8.5 |
| Upper Halfway | Two Bit Creek | | 160.23 | 980 – 1888 | 1235 | 37 | 0.6 |
| Upper Halfway | UHAF Unnamed 3 | | 127.86 | 922 – 1862 | 1221 | 37 | 0.0 |
| Upper Halfway | UHAF Unnamed 6 | | 211.34 | 778 – 1981 | 976 | 37 | 14.5 |
| Upper Halfway | Upper Chowade | | 426.75 | 925 – 2336 | 1395 | 37 | 0.0 |
| Upper Halfway | Upper Cypress | | 334.89 | 1099 – 2316 | 1493 | 37 | 0.0 |

| Watershed Group | Watershed Name | Class | Size (km2) | Elevation range (m) | H60 Elevation (m) | Baseline Threshold PFI | PFI FOS# 2 |
|---|---|---|---|---|---|---|---|
| Upper Halfway | Upper Halfway River | | 629.22 | 1103 – 2590 | 1235 | 37 | 0.0 |
| Upper Halfway | Chowade River | LB | 988.88 | 779 - 2331 | 1475 | 43 | 3.9 |
| Upper Halfway | Cypress Creek | LB | 620.07 | 840 – 2229 | 1200 | 37 | 5.6 |
| Upper Halfway | Upper Halfway River - LB | LB | 1096.06 | 914 – 3057 | 1241 | 37 | 0.2 |
| Upper Peace | Coplin Creek | | 350.04 | 582-942 | 773 | 43 | 36.5 |
| Upper Peace | Farrel Creek | | 646.01 | 447-1686 | 713 | 43 | 27.6 |
| Upper Peace | North Cache Creek | | 187.89 | 548-909 | 759 | 43 | 29.7 |
| Upper Peace | Red Creek | | 239.85 | 446-919 | 753 | 43 | 32.5 |
| Upper Prophet | Besa Creek | | 515.61 | 1136 – 2993 | 1568 | 43 | 0.01 |
| Upper Prophet | Minaker River | | 170.31 | 859 – 1742 | 1060 | 43 | 0.8 |
| Upper Prophet | Nevis Creek | | 182.43 | 1019 – 2102 | 1422 | 37 | 0.01 |
| Upper Prophet | Pocketknife Creek | | 235.85 | 860 – 1884 | 1110 | 43 | 0.2 |
| Upper Prophet | Upper Keily Creek | | 269.62 | 1137 – 2920 | 1683 | 37 | 0.0 |
| Upper Prophet | Minaker River - Residual | LB | 555.08 | 819 – 1820 | 1070 | 43 | 0.8 |
| Upper Prophet | Upper Prophet | LB | 1177.85 | 1020 - 2993 | 1569 | 37 | 0.00 |
| Upper Sikanni | Boat Creek | | 391.83 | 455 – 1081 | 719 | 50 | 0.0 |
| Upper Sikanni | Buckinghorse River | | 389.18 | 840 – 1936 | 1119 | 43 | 1.6 |
| Upper Sikanni | Coal Creek | | 214.49 | 637 – 1079 | 900 | 43 | 9.7 |
| Upper Sikanni | Daniels Creek | | 223.39 | 758 – 1263 | 1041 | 43 | 2.6 |
| Upper Sikanni | Donnie Creek | | 122.16 | 520 – 1043 | 822 | 50 | 13.2 |
| Upper Sikanni | Loranger Creek | | 132.18 | 1025 – 2018 | 1390 | 43 | 0.0 |
| Upper Sikanni | Medana Creek | | 138.68 | 702 – 1183 | 1000 | 43 | 2.5 |
| Upper Sikanni | Middle Fork Creek | | 207.97 | 857 – 1269 | 1060 | 43 | 0.3 |
| Upper Sikanni | Sidenius Creek | | 460.87 | 1119 – 2619 | 1489 | 43 | 0.04 |
| Upper Sikanni | Sikanni Chief | | 470.52 | 1119 – 2739 | 1488 | 43 | 0.53 |
| Upper Sikanni | Temple Creek | | 216.19 | 458 – 901 | 760 | 43 | 10.6 |
| Upper Sikanni | Trimble Creek | | 160.27 | 1082 – 2122 | 1439 | 43 | 0.0 |
| Upper Sikanni | Trutch Creek | | 858.44 | 491 – 1262 | 781 | 43 | 6.3 |
| Upper Sikanni | Buckinghorse River - Residual | LB | 1239.18 | 618 - 1936 | 1029 | 43 | 2.1 |
| Upper Sikanni | Sikanni Chief - Residual | LB | 2902 | 618 – 2739 | 1143 | 43 | 4.1 |

## ***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.35. WATER QUALITY CONCERN RATING

| Indicator Statement | Target Statement |
|---|---|
| The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which Participants have stewardship<br>*WQCR – water quality concern rating | On an annual basis fewer than 30% of the total number of surveyed stream crossings on roads for which the Participants have stewardship will have 'High' WQCR. [18] |
| **SFM Objective:**<br>Maintenance of water quality | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

Maximum 'high' WQCR allowable will be 35%.

***CURRENT STATUS AND COMMENTS***

No formal Water Quality Concern Rating field surveys were conducted in 2011 due to the limited amount of streams crossed by operational activities in the reporting period. The location of the Participants' harvesting operations for the past several years has generally been in areas with few streams. This is especially so for deciduous (aspen) operations where it is relatively rare to have blocks requiring stream crossings. The participants' have been collecting data through contracted services, and elected to forego formal surveys in 2011 due to a low number of samples available for measurement, with the intention to survey these stream crossings in 2012. WQCR field data collection was conducted in the summer of 2012. The results will be presented in the 2012/13 Annual Report. The latest sample data (2010) is presented below for information.

**Table 17: Summary of WQCR data collected during 2010**

| *Status* | *WQCR 'High' (# crossings)* | *WQCR 'Medium' (# crossings )* | *WQCR 'Low' (# crossings)* | *WQCR 'None' (# crossings)* | *Total (#)* | *% crossings rated 'High'* |
|---|---|---|---|---|---|---|
| All combined | 0 | 3 | 26 | 4 | 33 | **0** |

The following photos are included to give the reader an impression of what 'high' and 'low' Water Quality Concern Ratings may relate to in the field. Figure 10 is an example of a crossing rated 'high'. Sites assessed soon after deactivation often look like this and can require further application of reclamation seed to lower the concern rating. Incorporating pieces of woody debris along the exposed soil surfaces can further reduce risk of soil erosion and sediment delivery, but can interfere with recreation traffic if excessive.

[18] 2010 SFMP target revised to annual measurement from three year rolling average of 2004 SFMP

**Figure 10: Example of a crossing with a '*High*' Water Quality Concern Rating**

Figure 11 is an example of a crossing rated 'low'. Abundant reclamation mix and natural vegetation has colonized soil exposures and lowered the risk of soil erosion and sediment delivery to waterbodies.

**Figure 11: Example of a crossing with a '*Low*' Water Quality Concern Rating**

***REVISIONS***

There are no revisions proposed to this indicator.

### 3.36. PROTECTION OF STREAMBANKS AND RIPARIAN VALUES ON SMALL STREAMS

| Indicator Statement | Target Statement |
|---|---|
| The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities. | No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from to harvesting or silviculture activities. |
| **SFM Objective:** Maintenance of water quality | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies. | |

***Acceptable Variance:***

The maximum allowable variance is one non-conformance per Managing Participant annually.

***CURRENT STATUS AND COMMENTS***

A review of BCTS incidents related to SLP measures to protect stream bank, stream channel stability and riparian vegetation on small streams due to harvesting or silviculture activities from April 1, 2011 to March 31, 2011 indicated that there was one non-conformance to SLP measures during that period of time.

A review of Canfor incidents related to SLP measures to protect stream bank, stream channel stability and riparian vegetation on small streams due to harvesting or silviculture activities from April 1, 2010 to March 31, 2011 indicated that there was one non-conformance to SLP measures during that period of time. Deactivation of the authorized stream crossing on an S6 stream within block S26007 was not completed as scheduled.

A variance of one non-conformance per participant is allowed annually. There was one licensee and one BCTS participant non-conformance; therefore the participants are in conformance with the target variance for this indicator.

***REVISIONS***

None proposed.

### 3.37. SPILLS ENTERING WATERBODIES

| Indicator Statement | Target Statement |
|---|---|
| Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies. | Zero spills entering water bodies |
| **SFM Objective: Maintenance of water quality** | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

None.

***CURRENT STATUS AND COMMENTS***

A review of the Incident Tracking Systems (ITS) incidents indicate that the licensee participants as well as BCTS, had no spills of a reportable substance that entered water bodies during the 2011-12 reporting period.

Participants are in conformance with the target for this indicator.

***REVISIONS***

None.

### 3.38. CARBON SEQUESTRATION RATE

| Indicator Statement | Target Statement |
|---|---|
| Maintenance of DFA average carbon sequestration rates. | Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates. |
| **SFM Objective:** Maintenance of the processes for carbon uptake and storage | |
| **Linkage to FSJPPR:** N/A | |

**Acceptable Variance:**

No decline lower than the natural disturbance sequestration rate as modeled in support of this indicator is acceptable.

***CURRENT STATUS AND COMMENTS***

There have been no changes in the status of this indicator since the development of SFMP#1. The strategy to manage sequestration rates is through prompt reforestation (3.30) and maintaining acceptable levels of stocking over the landscape on previously harvested and regenerated sites (section 3.29). The participants are in conformance with the requirements of indicators 29 and 30. Updating of the carbon sequestration rates for the DFA will be initiated following the completion of a revised carbon budget modeling analysis, which is expected to be a component of the next timber supply analysis to be completed by the MFLNRO.

***REVISIONS***

There are no revisions planned for this indicator.

### 3.39. ECOSYSTEM CARBON STORAGE

| Indicator Statement | Target Statement |
|---|---|
| The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels. | Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels. |
| **SFM Objective:** Maintenance of the processes for carbon uptake and storage | |

| **Linkage to FSJPPR:** N/A |
|---|

***Acceptable Variance:***

No acceptable variance.

***CURRENT STATUS AND COMMENTS***

There have been no changes in the status of this indicator since the development of SFMP#1. The strategy to manage carbon storage is through prompt reforestation (section 3.30) and maintaining acceptable levels of stocking over the landscape on previously harvested and regenerated sites (section 3.29). The participants are in conformance with the requirements of indicators 29 and 30. Updating of the natural carbon storage levels for the DFA will be initiated following the completion of a revised carbon budget modeling analysis, which is expected to be a component of the next timber supply analysis to be completed by the MFLNRO.

***REVISIONS***

There are no revisions planned for this indicator

### 3.40. COORDINATED DEVELOPMENTS

| **Indicator Statement** | **Target Statement** |
|---|---|
| Number of coordinated developments | Report annually the number of proposed coordinated developments that occurred. |
| **SFM Objective:**<br>Foster inter-industry cooperation to minimize conversion of forested lands to non-forest conditions | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

The opportunities for coordinated development will fluctuate annually based on the overall activity of the oil and gas industry as well as the proximity of operations to one another. Any amount of coordinated development on the basis of making participants' plans readily available will be viewed as a positive step in reducing the conversion of forested lands to non-forest conditions. No variance is necessary as the target is to report out on coordinated activities that occurred between the industries.

***CURRENT STATUS AND COMMENTS***

Following is a summary of proposed changes to activities related to coordinating development between licensee participants and the oil and gas industry between April 1, 2011 and March 31, 2012.

Licensee participants received 234 referrals of Oil and Gas activities. While many of the referrals already had measures proposed to minimize impacts on forestland, forest licensees did make recommendations on multiple projects.

- 24 pipelines crossings to be built to minimize future incurred costs
- 61 referrals where developed Canfor blocks will require a mapping and SLP amendment due to Oil and Gas activities

- Water storage, remote sump, work spaces, and decking sites were requested to be removed from Canfor blocks
- Hand cut lines through WTPs to minimize seismic impacts
- Shared access

The licensees provided oil and gas companies with a total of 204 road use agreements for use of licensee road by oil and gas companies. Oil and gas companies consequently provided a number of road use agreements for use of oil and gas roads to the licensees. In all of the referrals received, planned access to the oil and gas development had considered information from the Forest Operations Schedule.

For new development Canfor had an opportunity to share resources with an oil and gas company on access this reporting period. The two parties joined a partnership to construct approximately 2.5 kilometers of a new all-season road and structures within. The structure includes a 140 foot single span bridge.

Following is a summary of proposed changes to activities related to coordinating development between BCTS and the oil and gas industry between April 1, 2010 and March 31, 2011.

BCTS received 40 oil and gas referrals between April 1, 2011 and March 31, 2012 of the 40 referrals BCTS received, there were 11 proposed changes. The changes consisted of the following:

- One pipeline to be rerouted to protect a research site,
- Three project with borrow pits, decking site and work spaces, were request to be moved outside of BCTS blocks,
- One pipeline project was required to be laid out prior to site preparation of BCTS's block,
- Oil company request to use BCTS access for Pipeline route and not to impede BCTS access,
- Oil company to reforest temporary work spaces within BCTS's block,
- Two separate projects to utilize the same decking sites,
- Coordination of work with BCTS licensee on active timber sale,
- Three fully developed BCTS blocks to be recompiled mapped and amended due to oil and gas activity within block,
- Pipeline to be buried deeper so BCTS licensee did not incur cost for building a crossing.

The 29 other referrals had very little or no impact to BCTS blocks and required minor or no changes to the proposed oil and gas activity.

In most of the referrals it appeared that the oil and gas industry utilized the FOS maps provided to them and took in to consideration our existing and proposed blocks and roads.

The participants are in conformance with the target for this indicator.

***REVISIONS***

There are no revisions planned for this indicator.

### 3.41. RANGE ACTION PLANS

| Indicator Statement | Target Statement |
|---|---|
| Percent consistency with mutually agreed upon action plans for range | Operations 100% consistent with resultant range action plans |
| **SFM Objective:** Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
Variances are permissible only on reaching mutual agreement between the affected range tenure holder and Participant.

***CURRENT STATUS AND COMMENTS***

There were 4 mutually agreed-upon specific actions completed by the licensee participants during the reporting period, regarding commitments made by Canfor respecting range tenure RAN 075986 (one action), RAN 073257 (one action), and RAN 077559 (one action). There were no new Timber Range Action Plans (TRAPs) completed and signed between Canfor and range tenure holders during the reporting period.

BCTS does not have a signed agreement with a range tenure holder. As a result, there has not been mutually agreed upon actions as a metric for success towards this indicator. However, in the months after the reporting period, 5 Timber-Range Action Plans (TRAPs) were initiated and will appear in the subsequent annual report. A TRAP is very near completion on RAN 075020 regarding TSL A85686, A85687 & A85688. Due to the significant portion of this range tenure that will be potentially affected by the harvesting of these TSL's, BCTS has been in discussions with the range tenure holder on numerous occasions to ensure that the stakeholders' interests will be considered and managed towards to the greatest extent possible

Participants' operations were 100% consistent with mutually agreed upon action plans due during the reporting period, regarding range tenures.

***REVISIONS***
There are no proposed revisions to this indicator or the target.

### 3.42. DAMAGE TO RANGE IMPROVEMENTS

| Indicator Statement | Target Statement |
|---|---|
| Number of range improvements damaged by Participants' activities. | Zero range improvements damaged by Participants' activities. |
| **SFM Objective:** Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the | |

landscape level strategies.

***Acceptable Variance:***

Temporary removal or alteration of a range improvement to enable short-term forestry activities to proceed is permissible. However repairs to or replacement of improvements must be completed in less than one year from the time they were damaged. The indicator target would not apply if a Participant can implement alternative mitigation measures to the satisfaction of the range tenure holder.

***CURRENT STATUS AND COMMENTS***

During the 2011/12 reporting period there were six cases of range improvements being damaged by licensee participants' activities. The range tenures affected, and COPI database reference numbers, are listed in the table below. The damages have either been repaired as of preparation of the annual report, or are planned to be within a year of the damage being caused. Follow up will be reported in next year's report.

| Range Tenure(s) | COPI action reference | Nature of damage |
|---|---|---|
| **RAN 073257** | 3896 | Fence breach, block S26001 |
| **RAN 076539** | 3892 | Fence breach, block 01186 |
| **RAN 076539, 076309** | 3897 | Fence breaches, blocks 01020 and 01021 |
| **RAN 076539** | 3894 | Fence breaches, block 01100 |
| **RAN 076539** | 3895 | Fence breach, block 01105 |
| **RAN 075986** | 3785 | Fence breach, block 01015 |

During the reporting period BCTS did not incur any instances whereby a range improvement was damaged

Follow up on issues presented in the 2010/11 report:

Two fence posts were damaged inadvertently during Canfor operations, at separate locations on RAN 73257. The fence posts were repaired satisfactorily in the spring of 2012. The issue and its resolution, is tracked in Canfor's COPI database (action #3742 for reference).

The intentional breaching of fenceline in RAN 074989 to allow road construction and development of a planned harvest block (S43022), was resolved in May 2011 when Canfor arranged for the satisfactory repair of the fences. The issue and its resolution, is tracked in Canfor's COPI database (action #3606 for reference).

The participants are consistent with the target for this indicator.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.43. RECREATION SITES

| Indicator Statement | Target Statement |
|---|---|
| The number of recreation sites maintained by Participants | Participants will maintain a minimum of one recreational site within the DFA |
| **SFM Objective:** Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

No less than the target.

***CURRENT STATUS AND COMMENTS***

During the reporting period Canfor continued maintenance of the Crying Girl Prairie campsite, utilizing a local contractor to provide firewood, site cleanup, outhouse cleaning, and garbage disposal. The participants are therefore in conformance with the target for this indicator.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.44. VISUAL QUALITY OBJECTIVES

| Indicator Statement | Target Statement |
|---|---|
| Consistency with Visual Quality Objectives (VQO's) | Pilot participants' forest operations will be consistent with the established VQO's |
| **SFM Objective:** Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies. | |

***Acceptable Variance:***

A variance to the requirement for consistency with established VQO's, where approved by the District Manager, is permitted on a site-specific basis, where required to address risks to resource values or safety issues (e.g. fire salvage, sanitation harvesting for forest pest control), as identified in a SLP. A rationale will be prepared by a professional forester, and must specify the reasons for the variance and the measures that will be implemented to address the resource value at risk and mitigate impacts on the visual resource.

***CURRENT STATUS AND COMMENTS***

For the 2011 reporting period, Canfor was required to have completed 4 Post-harvest Visual Quality Assessments. The two that were completed indicate that the objectives were met. Two assessments were not completed. This has been entered as a minor non-conformance within the Incident Tracking System, with actions to create procedures to prevent recurrence.

ITS-FSJO-2012-0709

BCTS completed 0-post harvest visual quality assessments due to the fact that none of the blocks developed during the reporting period were located within VQO polygons. On this basis, the objective is met.

The participants are not in conformance with the target of this indicator.

***REVISIONS***

There are no proposed revisions to this indicator.

### 3.45. RECREATION OPPORTUNITY SPECTRUM

| Indicator Statement | Target Statement |
|---|---|
| Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni, and Crying Girl LU's. | A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Keily PA's). |
| **SFM Objective:** Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies. | |

***Acceptable Variance:***

The primitive Recreation Opportunity Spectrum (ROS) percentage for the B-H-C may fluctuate over time as roads are constructed and permanently deactivated to retain the percentage at 1996 levels. At any given time the primitive ROS percentage may decrease down to 10% on a temporary basis until such time as the constructed forest roads are permanently deactivated and the primitive classification is restored.

There is no variance necessary for the remaining RMZ's.

***CURRENT STATUS AND COMMENTS***

During development of the 2010 – 2016 FOS, the FOS was analyzed to project the potential impact on the ROS targeted percentages; all of proposed development was consistent with the SFMP ROS targets. Many of the blocks proposed by FOS# 1 for harvest in the Crying Girl and Graham RMZs have not been harvested and no new activities were proposed in FOS #2. The following table identifies the condition of the recreation opportunity spectrum expected upon the completion of all harvest operations in FOS# 2. In the event that the FOS is amended to include new block or road area that may impact the Participants' performance to this indicator, the ROS analysis will be redone to determine the potential impact.

**Table 18: Projection of Changes to ROS Class from 1996 to 2016**

| Crying Girl Graham & Sikanni LU | ROS Class Projection to 2016- After Modeling Impact of Proposed Development in 2010 FOS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Primitive | | Semi Primitive Non-Motorized | | Semi Primitive Motorized | | Roaded | | Urban/ Agriculture | | Total Area (ha) | Total % |
| | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | Area (ha) | % | | |
| Total 1996 ha | 65,839 | 12.1% | 361,451 | 66.2% | 116,090 | 21.3% | 269 | 0.0% | 2287 | 0.4% | 545,936 | 100.0% |
| Total 2010 Projected ha (from 2004 FOS) | 65,839 | 12.1% | 344,488 | 63.1% | 133,056 | 24.4% | 269 | 0.0% | 2,287 | 0.4% | 545,939 | 100.0% |
| **2010 SMFP Target** | **65,839** | | **180,726** | | **NA** | | **NA** | | **NA** | | **NA** | |

No logging occurred in this area betwee 2008 and 2012. The current status remains consistent with the target range for this indicator.

As the minimum targets of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area have been identified to be maintained through completion of harvesting of all blocks in FOS# 2, the participants are therefore in conformance with the target for this indicator.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.46. ACTIONS ADDRESSING GUIDES, TRAPPERS AND OTHER INTERESTS

| Indicator Statement | Target Statement |
|---|---|
| Percentage of operations consistent with mutually agreed upon action plans for guides, trappers and other known non-timber commercial interests. | 100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests. |
| **SFM Objective:** Provide opportunities for a feasible mix of timber, recreational activities and non-timber commercial activities | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

Variances are permissible only on reaching mutual agreement between the affected tenure holders and Participant.

***CURRENT STATUS AND COMMENTS***

There were three mutually-agreed upon actions developed between Canfor and trapper during reporting period (COPI reference #3890, 3891, and 3894). Canfor has committed to leaving some debris piles unburnt in a specific block (S10025), at a trapper's request, in an effort to maintain some cover and foraging habitat for furbearers. There was a similar request from another trapper apparently operating in the Beatton-Doig area. In this case several small piles of debris were placed along the harvested boundary of the block, as per the trapper's request, to provide additional forage and escape cover.

The other commitment that was made related to protecting the integrity of an established trapline trail, where Canfor developments may impact the trail.

There were no mutually agreed upon actions developed by BCTS with guides, trappers, or other non-timber commercial interests during the reporting period, nor were there any outstanding actions relating to guides, trappers, or other non-timber commercial interests.

The participants' activities are consistent with the indicator and target.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.47. TIMBER PROCESSED IN THE DFA

| Indicator Statement | Target Statement |
|---|---|
| Volume of timber processed in the DFA in proportion to volume harvested in the DFA | The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA[19] |
| **SFM Objective:** Viable timber processing facilities in the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

An acceptable negative variance of 5% (i.e. a minimum of 65% of the harvest processed in the DFA) is permissible. This target level and variance is necessary to account for timber harvested within the DFA that is not directly harvested by the Participants thus having less control as to its final processing destination.

***CURRENT STATUS AND COMMENTS***

The following table outlines the volume of timber processed in the DFA in proportion to the entire volume of timber harvested in the DFA up to and including March 31, 2011.

[19] Indicator as revised in Oct 30,2005 submission of 2004-2005 Annual Report

**Table 19: Proportion of Total Volume Locally Processed**

| | Total Scaled Volume of Timber Delivered to Local Processing Plants | (a) Total Scaled Volume of Timber Originating Within the DFA | (b) Total Volume of Timber Originating Within the DFA Processed within the DFA | (b/a) % of Total DFA Volume Processed Locally |
|---|---|---|---|---|
| Conifer volume ($m^3$) | 923,057 $m^3$ | 871,037 $m^3$ | 857,449 $m^3$ | 98.4% |
| Deciduous volume ($m^3$) | 801,353 $m^3$ | 658,495 $m^3$ | 658,495 $m^3$ | 100% |
| **All** | **1,724,410 $m^3$** | **1,529,532 $m^3$** | **1,515,944 m3** | **99.1%** |

Note: The above quoted volumes include woodlot and private wood but does not include oil and gas salvage since there is no way to determine from which Timber Supply Area the salvage wood originated.

The majority of the timber harvested in the DFA was processed at facilities within the DFA.

The participants' operations are consistent with the target for this indicator.

***REVISIONS***

There are no proposed revisions to this indicator or the target.

### 3.48. SUMMER AND FALL VOLUMES

| Indicator Statement | Target Statement |
|---|---|
| Volume of timber ($m^3$) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1st and November 30th | Minimum of 100,000 $m^3$ to conifer mills in the DFA<br>Minimum of 185,000 $m^3$ to deciduous mills in the DFA |
| **SFM Objective:** Maintain viable timber processing facilities in the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

The target volumes assume planned production levels are achieved at the local mills. Allowable variances for the minimum acceptable deliveries may be reduced proportionally for the number of actual operating weeks, divided by the normal fifty operating weeks of the facilities per year.

***CURRENT STATUS AND COMMENTS***

Between May 1st, 2011 and November 30th, 2011, a total of 277,564 $m^3$ were delivered to the Fort St. John sawmill, and a total of 307,787 $m^3$ were delivered to the deciduous manufacturing facilities to support continuing operations throughout the summer and fall. The total volumes delivered exceed the minimum volumes required to meet the target.

The participant's activities are consistent with the indicator and target.

***REVISIONS***
There are no proposed revisions to this indicator or the target.

### 3.49. FOREST HEALTH FOS PLANNING [20]

| Indicator Statement | Target Statement |
|---|---|
| Percentage of new conifer-leading harvest blocks in the 2010 Forest Operations Schedule that are pine-leading. | A minimum of 60% of new conifer-leading harvest blocks in the 2010 FOS will be pine-leading. |
| **SFM Objective:** Maintain or enhance landscape level productivity<br>Maintain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Forest Health Management Landscape Level Strategy. | |

***Acceptable Variance:***
A 10% variance (i.e. minimum of 50% new conifer leading blocks in the 2010 FOS will be pine leading) is required in the event some FOS proposed blocks are dropped prior to submission of the final FOS due to public input during or after the public review and comment period.

***CURRENT STATUS AND COMMENTS***

There were 626 new conifer-leading blocks included in the second Forest Operations Schedule for the Fort St. John Pilot Project area. Of those, 344 blocks (55%) were pine-leading. No blocks were added to the FOS in 2011. The participants are consistent with the target for this indicator, within the bounds of the acceptable variance.

***REVISIONS***
There are no proposed revisions to this indicator or the target.

### 3.50. COORDINATION [21]

| Indicator Statement | Target Statement |
|---|---|
| Percentages of SFMP's and FOS's jointly prepared by the Participants | 100% of all SFMP's and FOS's will be jointly prepared by the Participants |
| **SFM Objective:** Maintain viable timber processing facilities in the DFA | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy | |

***Acceptable Variance:***
May exclude new Participants that join the Pilot Project and can be assigned blocks from an existing plan, or Participants that are not required to complete a plan (e.g. TSL holders).

[20] New indicator in 2010- previous # 49 in SFMP # 1 was Harvest Systems which has been deleted
[21] The indicator was made a legal indicator in SFMP#2 to emphasize the commitment to coordinated planning by the Participants

***CURRENT STATUS AND COMMENTS***

SFMP: The participants jointly prepared amendment #2 to the SFMP, which was submitted to the government on March 20 2012. The Particpants discussed the amendment content with the Fort St. John Pilot Project Public Advisory Group prior to submission

FOS: There were no amendments to the FOS requiring public review and comment, and thrity-two (minor in nature) not requiring public review, during the reporting year. FOS amendments continue to be coordinated through a mutual notification protocol. The participants were consistent in following the established amendment procedures, pertaining to ensuring that all participants are aware of, or are involved in, amendments to the FOS. The participants activities are consistent with the target for this indicator.

***REVISIONS***
There are no revisions to this indicator and target.

### 3.51. TIMBER PROFILE-DECIDUOUS[22]

| Indicator Statement | Target Statement |
|---|---|
| The area (ha) of deciduous-leading cutblocks identified in Supply Block F for harvest during the term of the SFMP. | A minimum of 200 ha of deciduous-leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP. |
| **SFM Objective:** No decrease in the LTHL in the DFA | |
| **Linkage to *FSJPPR*:** For the purposes of Section 42 of the *FSJPPR* this indicator statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the Timber Harvesting Landscape Level Strategy. | |

***Acceptable Variance:***
None.

***CURRENT STATUS AND COMMENTS***

To date there has been no harvesting in deciduous-leading cutblocks located in Supply Block F. Some incidental deciduous volumes have been delivered from coniferous leading blocks.

During the development of Forest Operations Schedule #2, a substantial amount of deciduous-leading area was identified for harvest – over 3900 ha. The following table presents a summary by block.

[22] New indicator in 2010 SFMP. Previous Indicator # 51 in SFMP # 1 was 'Utilization' which has been dropped

**Table 20: Supply Block F Deciduous Leading Stand Area**

| BLOCK ID | At % | Ac% | Pl % | S % | Bl % | Gross Area (ha) |
|---|---|---|---|---|---|---|
| 14011 | 90 | 0 | 2 | 8 | 0 | 103.7 |
| 14012 | 60 | 0 | 20 | 20 | 0 | 172.5 |
| 41024 | 75 | 0 | 0 | 25 | 0 | 18.5 |
| 41025 | 75 | 0 | 0 | 25 | 0 | 2.6 |
| 41026 | 75 | 0 | 0 | 25 | 0 | 6.7 |
| 41030 | 85 | 5 | 0 | 10 | 0 | 25.7 |
| 41035 | 63 | 3 | 22 | 12 | 0 | 422.9 |
| 41040 | 58 | 0 | 18 | 24 | 0 | 266.2 |
| 41044 | 89 | 0 | 11 | 0 | 0 | 245.4 |
| 41053 | 51 | 18 | 27 | 4 | 0 | 112.9 |
| 41054 | 48 | 6 | 31 | 15 | 0 | 80.9 |
| 41055 | 94 | 0 | 3 | 3 | 0 | 241.7 |
| 41059 | 63 | 0 | 37 | 0 | 0 | 275.9 |
| 41062 | 54 | 0 | 0 | 46 | 0 | 290.8 |
| 41068 | 63 | 0 | 2 | 35 | 0 | 409.1 |
| 41070 | 90 | 0 | 5 | 5 | 0 | 136.7 |
| 50001 | 68 | 12 | 0 | 20 | 0 | 75.9 |
| 50002 | 95 | 0 | 0 | 5 | 0 | 20.9 |
| 50003 | 95 | 0 | 0 | 5 | 0 | 80.2 |
| 50004 | 60 | 10 | 3 | 27 | 0 | 169.7 |
| 50005 | 60 | 10 | 3 | 27 | 0 | 37.7 |
| 50007 | 95 | 0 | 0 | 5 | 0 | 38.3 |
| 50008 | 90 | 0 | 0 | 10 | 0 | 25.5 |
| 50009 | 90 | 0 | 0 | 10 | 0 | 17.5 |
| 50010 | 70 | 10 | 5 | 10 | 5 | 84.5 |
| 50011 | 90 | 0 | 0 | 10 | 0 | 4.4 |
| 50012 | 88 | 0 | 0 | 12 | 0 | 7.6 |
| 50013 | 80 | 10 | 2 | 8 | 0 | 57.6 |
| 50014 | 90 | 0 | 0 | 10 | 0 | 4.7 |
| 50015 | 70 | 10 | 0 | 20 | 0 | 10.7 |
| 50016 | 70 | 10 | 0 | 20 | 0 | 123.9 |
| 50017 | 70 | 10 | 0 | 20 | 0 | 49.3 |
| 50018 | 80 | 10 | 5 | 5 | 0 | 107.5 |
| 50020 | 90 | 0 | 0 | 10 | 0 | 17.5 |
| 50022 | 90 | 0 | 0 | 10 | 0 | 17.0 |
| 50023 | 90 | 0 | 0 | 10 | 0 | 7.0 |
| 50025 | 75 | 0 | 0 | 25 | 0 | 19.9 |
| 50026 | 90 | 0 | 2 | 8 | 0 | 114.2 |
| **TOTAL** | | | | | | **3903.5** |

The participants are in conformance with the target for this indicator.

***REVISIONS***

There are no revisions proposed for this indicator.

## 3.52. TIMBER PROFILE-CONIFER

| Indicator Statement | Target Statement |
|---|---|
| The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types | April 1, 2006 - March 31, 2011: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types.<br>April 1, 2011- March 31, 2016: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. |
| **SFM Objective:** No decrease in the LTHL in the DFA | |
| **Linkage to FSJPPR:** For the purposes of Section 42 of the FSJPPR this indictor statement, target statement and acceptable variance will be used to determine if forest practices are consistent with the landscape level strategies. | |

***Acceptable Variance:***

April 1st, 2006-March 31st, 2011: Allowable minimum reduced to 0% for this five-year period to provide flexibility to address urgent forest health issues.

April 1st, 2011-March 31st, 2016: Allowable Minimum 0%. This indicator is to be reviewed after the next TSR to ensure relevance to the new TSR.

The recent dramatic shift in harvesting directed at Mountain Pine Beetle (MPB) infested or "at risk" stands is expected to continue for the next few years. The impacts on mid-term AAC sustainability in the TSA are likely to be less if activities are directed towards the currently infested MPB areas, (which tend to be in larger diameter mixed pine/spruce stands) and away from lower risk, smaller diameter pine stands (i.e. Height class two pine polygons).

***CURRENT STATUS AND COMMENTS***

The indicator target is based on a 5-year summation of harvesting in height class 2 pine stands. The the third five-year period commenced in April of 2011, and will conclude in March of 2016. During the 2011 reporting period Canfor harvested 6.5 ha in height-class two pine inventory types of a total of 6011 ha (0.12%) harvested and BCTS harvested 0 ha in height-class two pine inventory types out of a total 988.6 ha (0%). The combined conifer harvest in height class 2 pine stands for the 2011 reporting period is 0.09% (6.5 ha out of a total of 6,999 ha harvested).

At the end of the current 5 yr period the participants' activities will be assessed for consistentcy with the indicator. At this point in time the participants' activities are consistent with the indicator target variance.

Due to improved inventory typing (VRI), it is expected that the next Timber Supply Review (TSR III), to be completed by 2013/14, will better define the merchantable pine stands from the non-merchantable stands that the old inventory had lumped together under height class two pine. As a consequence, it would be prudent to review this indicator's relevance to sustainability of the harvest levels at that time.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.53. CUT CONTROL

| Indicator Statement | Target Statement |
|---|---|
| Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP. | Jan 1 2010- Dec 31 2016:<br>Industry Participants:<br>-Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period<br>-Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period<br>BCTS Participant:<br>-Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period<br>-Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period |
| **SFM Objective:** No decrease in the Long Term Harvest Level (LTHL) in the Defined Forest Area (DFA) | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

None, however the actual volume permissible to be harvested may be adjusted through time if additional licenses are awarded to Participants to address past undercuts, or changes made by the Chief Forester to the approved AAC for the TSA .

***CURRENT STATUS AND COMMENTS***

**Table 21: Licensee Conifer License AAC**

| License | AAC (m3) | Planning Period 6 year cumulative volume AAC (m3) | Volume Harvested by Calendar Year (m3) | | | | | | Total Volume Harvested (m3) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | |
| Canfor A18154 | 394,952 | 2,369,712 | 403,541 | 495,464 | | | | | |
| DZ A56771 | 150,000 | 900,000 | 0 | 0 | | | | | |
| CRL A59959 | 70,000 | 420,000 | 26,286 | 54,783 | | | | | |
| Tembec | 83,494 | 500,964 | 71,267 | 68,879 | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| A60972 | | | | | | | | | |
| **Total** | **698,446** | **4,190,676** | 503,104 | 619,126 | | | | | |
| **Maximum Cumulative AAC (m3)** | | | **4,609,744** | | | | | | |
| Maximum cumulative AAC = 110% of cumulative AAC | | | | | | | | | |

**Table 22: Licensee Deciduous License AAC**

| License | AAC (m3) | Planning Period 6 year cumulative volume AAC (m3) | Volume Harvested by Calendar Year (m3) | | | | | | Total Volume Harvested (m3) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | |
| LP A60049 | 193,000 | 1,158,000 | 79,325 | 103,496 | | | | | |
| LP A60050* | 119,300 | 238,600 | 52,168 | 86,407 | | | | | |
| PVOSB A85946 | 150,000 | 900,000 | 0 | 0 | | | | | |
| Canfor PA 12 | 500,000 | 3,000,000 | 247,056 | | | | | | |
| **Total** | **962,300** | **5,296,600** | 133,503 | 189,903 | | | | | |
| **Maximum Cumulative AAC (m3)** | | | **5,826,260** | | | | | | |
| *A60050 expires Dec 31, 2011<br>Maximum cumulative AAC = 110% of cumulative AAC | | | | | | | | | |

**Table 23:BCTS Volume Allotment**

| Species | AAC (m3) | Planning Period 6 year cumulative volume commitment offered for sale (m3) | Volume Harvested by Calendar Year (m3) | | | | | | Total Volume Harvested (m3) |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | |
| Coniferous | 372,059 | 2,232,354 | 341,222 | 233,819 | | | | | |
| Deciduous | 180,000 | 1,080,000 | 73,783 | 109,335 | | | | | |
| Maximum cumulative coniferous AAC | | | **2,455,589** | | | | | | |

| | | |
|---|---|---|
| Maximum cumulative deciduous AAC | **1,188,000** | |
| Maximum cumulative AAC = 110% of cumulative AAC | | |

The annual BCTS coniferous allotment in 2011/12 was 372,059 m3. Between April 1, 2011 and March 31, 2012, BC Timber Sales' offered 233,819 m3 (62.8%) of the annual allocation. Of the 233,819 m3 offered, one TSL with a volume of 201,888 m3 sold.

The annual BCTS deciduous allotment in 2011/12 was 180,000 m3. Between April 1, 2011 and March 31, 2012, BC Timber Sales' offered 109,355 m3 (60.8%) of the annual allocation. Of the 109,355 m3 offered for sale, fourTSL's with a volume of 95,319 m3 sold.

.

2010 represents the first year of this 6 year cumulative cut review period. The cut review period began January 1, 2010. The cut review priod will conclude December 31, 2015.

To date of this annual report, the participants' activities are consistent with the indicator and target.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.54. DOLLARS SPENT LOCALLY ON EACH WOODLANDS PHASE

| Indicator Statement | Target Statement |
|---|---|
| Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures | Woodlands Phases to be monitored:<br>Logging/hauling: minimum of 80%<br>Road construction/maintenance: minimum of 80%<br>Silviculture: minimum of 8%<br>Planning and administration: minimum of 50% |
| **SFM Objective:** Diverse local forest employment opportunities exist in the DFA | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

A 10% variance to the minimum target (e.g. logging/hauling 10% lower than 80%= 72% of costs) is required for each identified woodlands phase, as the dollars to be spent fluctuate annually, depending on the amount of harvesting completed that year.

***CURRENT STATUS AND COMMENTS***

The following table outlines local expenditures by woodlands phase, and performance of the participants relative to the targets for this reporting period.

**Figure 12: Dollars Spent Locally by Woodlands Phase - 2011**

| Woodlands Phase | Total dollars expended | Total dollars spent locally | Local % | Indicator target |
|---|---|---|---|---|
| Logging and Hauling | $44,519,961.38 | $43,061,548.88 | 96.7% | 80% |
| Reforestation | $2,210,030.96 | $237,499.42 | 10.7% | 8% |
| Road construction and Maintenance | $3,095,968 | $3,031,925.46 | 97.9% | 80% |
| Planning and Administration | $5,736,714.72 | $4,887,532.01 | 85.2% | 50% |
| **Total** | **$55,562,674.98** | **$51,218,505.77** | **92.2%** | |

The percentage of dollars spent locally met targets for all phases. Approximately 92% of all expenditures were made locally.

It should be noted that BCTS costs for this indicator refer to April 1, 2011-March 31, 2012, while other participant's costs are based on calendar year reports due to reporting limitations. This is consistent with previous annual reports for this indicator.

The participants' activities are consistent with 4 of the 4 targets associated with the indicator.

***REVISIONS:***

The reforestation spend target was amended to 5% for the 2012 reporting year. This change became effective April 1, 2012.

### 3.55. VALUE AND TOTAL NUMBER OF TENDERED CONTRACTS VERSUS TOTAL CONTRACTS

| Indicator Statement | Target Statement |
|---|---|
| Value of tendered contracts in proportion to the total value of all awarded contracts on an annual basis | A minimum of 50% of the total value of contracts will be tendered on an annual basis |
| **SFM Objective:** Provide opportunities for a range of interests to access benefits | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

A variance of 10% (i.e. 40% of the total value of contracts is the minimum acceptable tendered amount) is required for this indicator as the dollars to be spent fluctuate annually, dependent on the amount of harvesting completed.

***CURRENT STATUS AND COMMENTS***

The following table outlines the number and value of contracts awarded annually.

**Figure 13: Contract Value and Tender Summary**

| Contract Type | # of contracts | Total value of contracts | % Value | Indicator target |
|---|---|---|---|---|
| Tendered | 32 | $17,304,402.99 | 46.08% | 50% |
| Direct Award | 93 | $20,251,509.97 | 53.92% | n/a |
| **Total number of contracts** | **110** | **$37,555,912.96** | **100%** | |

The percentage of the value of contracts tendered meets the acceptable variance of the indicator target. The participants are in conformance with the acceptable target variance for this indicator.

It should be noted that BCTS costs for this indicator refer to April 1, 2011-March 31, 2012, while other participant's costs are based on the 2011 calendar year due to reporting limitations. This is consistent with previous annual reports for this indicator.

***REVISIONS***

Indicator and target are revised for the 2012 reporting year. This change became effective April 1, 2012.

### 3.56. MAINTENANCE OF WILDLIFE AND FISHERIES HABITAT VALUES

| Indicator Statement | Target Statement |
|---|---|
| Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat. | Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat. |
| **SFM Objective:** Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

Variances provided in the specific indicators will apply.

***CURRENT STATUS AND COMMENTS***

During the period of April 1, 2011 to March 31, 2012 the participants conformed to 7 of 7 (100%) of the Ecosystem Diversity and Species Diversity indicators, targets and acceptable variances.

The participants conformed to 4 of 4 (100%) of the Water Quality and Quantity indicators, targets and variances during this period.

The participants' activities are consistent with the target for this indicator.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.57. NUMBER OF KNOWN VALUES AND USES ADDRESSED IN OPERATIONAL PLANNING

| Indicator Statement | Target Statement |
|---|---|
| Percentage of known traditional site-specific aboriginal values and uses identified that are addressed in operational plans | 100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans |
| **SFM Objective:** Respect known traditional aboriginal forest values and uses | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:*** None

## *CURRENT STATUS AND COMMENTS*

Between April 1, 2011 and March 31, 2012 opportunity to provide information on site-specific values from First Nations to Canfor & BCTS was available through the formal processes of NIT (notice of intent to treat) communications, and the deciduous *Memorandum of Agreement* Joint Management Advisory Committee (Canfor, LP and the First Nations), as well as other formal or informal communication. Archaeological Impact Assessments (AIAs) are another method used by the participants to gather information on site-specific First Nations' values.

During the reporting period of April 1, 2011 to March 31, 2012 BCTS received no site-specific comments in response to Notification of Intent to Treat (NIT) referrals conducted under the Pest Management Plant (PMP). BCTS did not commission the completion of any archaeological impact assessments (AIAs) during the reporting period.

Canfor received notification of three separate site-specific aboriginal value features –two cabin sites (blocks S29007, S18015) and a mineral lick (block S18015) – that were potentially impacted by block operations. In all cases the features were addressed in operational plans by way of avoiding and buffering the features to protect the integrity of the sites. Canfor did not commission the completion of any archaeological impact assessments (AIAs) during the reporting period.

100% of known traditional site-specific values identified were addressed in operational plans. The participants are in conformance with the target for this indicator.

## *REVISIONS*

There are no proposed revisions to the indicator or the target.

### 3.58. REGULATORY PUBLIC REVIEW AND COMMENT PROCESSES

| Indicator Statement | Target Statement |
|---|---|
| Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation | 100% compliance with the public review and comment processes identified in the FSJ Pilot Project Regulation |
| **SFM Objective:** To facilitate a satisfactory public participation process | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
No variances, unless authorized by the Regional Executive Director (MFLNRO) or his designate.

***CURRENT STATUS AND COMMENTS***

During the reporting period there were no cases where the participants were required to follow formal Public Review and Comment Process identified in the *Fort St. John Pilot Project Regulation*. The participants are consistent with the target for the Public Review and Comment requirements set out in the Fort St. John Pilot Project Regulation.

***REVISIONS***
There are no proposed revisions to this indicator or the target.

### 3.59. TERMS OF REFERENCE (TOR) FOR PUBLIC PARTICIPATION PROCESSES

| Indicator Statement | Target Statement |
|---|---|
| Current Terms of Reference (TOR) for the *FSJPPR* public participation process | Biennial review of the TOR for the *FSJPPR* public participation process (PAG) |
| **SFM Objective**: To facilitate a satisfactory public participation process | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
The TOR will be reviewed at some point every second year (in even years). Due to the timing of meetings, the TOR review may not be in the same month each year.

***CURRENT STATUS AND COMMENTS***

- The Public Advisory Group and the Pilot Participants conducted their biennial review of the Terms of Reference during the February 23, 2012 PAG meeting. Each of the sections were discussed as follows:
    - A) Updated the reference to the CSA Z809-08 standard.
    - B) Revised section b to align with the CSA Z809-08 standard.
    - C) No changes proposed.
    - D) Updates the timeline to indicate the events occurred in the past.
    - E) No changes proposed.
    - F) No changes proposed.
    - G) Updates list of participants to include PVOSB.
    - H) No changes proposed.
    - I) No changes proposed
    - J) No changes proposed

K) Proposed the next revision date to be February 2014.

The PAG approved an updated TOR on February 23RD, 2012. The complete Terms of Reference is located on the pilot project website (http://fsjpilotproject.com). The next review is scheduled for the spring meeting of 2014.

The participants are in conformance with this indicator.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.60. PUBLIC INQUIRIES

| Indicator Statement | Target Statement |
|---|---|
| The percentage of timely responses to Public Inquiries | Respond to 100% of public inquiries regarding Participants' forestry practices, that are additional to the Pilot Public Review and Comment processes, within one month of receipt. |
| **SFM Objective:**<br>To facilitate a satisfactory public participation process<br>Relevant information used in decision making process is provided to PAG, general public and affected parties | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

Responses will be provided to all inquiries, provided contact information is provided so that the Participants can reach the person making the inquiry.

***CURRENT STATUS AND COMMENTS***

The participants received nine public inquiries during the reporting period. The nature of the inquiries, and a general summary of response for each, follows below.

1. Blocks adjacent to Red Creek Subdivision

The following public inquiry was referenced in the 2010/11 Annual Report. However the resolution of the issues occurred during the 2011/12 reporting year. For completeness, the information presented in last year's report is included below.

2010/11: Both Canfor and BCTS received inquiries in February 2011 from a local resident, concerned about some harvest area identified in the Forest Operations Schedule. The blocks are adjacent to some Red Creek subdivision private properties, in which the resident lives. The inquiries were received after the public review and comment period had closed, and the FOS# 2 finalized for submission to government. There were several concerns identified, including potential removal of wind cover, additional access for hunters and safety concerns related to that, alteration of visual landscape, and alteration of wildlife habitat.

Canfor responded to the public member in a timely manner, and agreed to meet and discuss the matter. A detailed log of communications and actions taken regarding this inquiry is stored in Canfor's COPI database (COPI reference contact #4286). The Peace River Regional District was also made aware of the resident's concern, and was kept apprised of developments related

to this issue. BCTS representatives conducted a number of discussions and meetings with the concerned public member. For reference, the Canfor blocks of concern are 43071 and 43072. The BCTS block of concern is 43052.

2011/12 BCTS: The on-going discussions with the Red Creek subdivision community around FOS block 43052 eventually led to a commitment by BCTS not to harvest this block for at least the next 5-7 years. However in walking this block with a community representative it was discovered that there was a portion of the area that was a pine-leading forest type that had been heavily attacked by mountain pine beetle. The stand was in fact already in a state of mostly dead red and grey attacked pine. The discussions turned to what impact leaving this wood for a longer period of time could result in. BCTS indicated that by the time the wood would be of little value for harvest purposes and would likely not consider development of that area by that time. The result would be an accumulation of down and otherwise dry timber that would be an extreme fire hazard for the community. The community representative recognized the potential threat and asked what options were available. The suggestion was that this timber type could be harvested sooner than the rest of the block to help mitigate the future fire hazard and also to recover the timber now while it was still merchantable. The community representative agreed. A new block was conceived and was numbered 43081. BCTS chose to develop this block in-house rather than by contractual means. One of the obstacles that was required to be overcome was the fact that the proposed boundary was directly adjacent to a private land holding. No definitive markers (i.e fence line or developed area) delineating the boundary between the private and crown land. There was only the legal survey marker that could be located. Given the tight timeframes allowed for development of this block, it was not operationally feasible to expect that bringing in a professional surveyor to survey in the adjacent boundary could be completed in time. In doing a land title search it was determined that the landowner was also not someone living locally in the area so that options could be discussed face to face.
A letter was sent to the landowner who lived in the southern interior of BC. The letter explained the situation and offered a compromise solution. The solution was for the layout personnel to use their GPS Garmin units to guide them on the boundary location. The intent was to err on the side of caution understanding the limitations of the GPS accuracy. The landowner, after some further clarification inquiries, agreed to this solution. The development went off without any difficulty. The TSL was offered for sale in the winter of 2012 and was subsequently sold and harvested as well.

2011/12 Canfor: A Canfor representative conducted a field review of proposed blocks 43071 and 43072 with the public member who raised the original concern. The objective of the field review was to better understand the nature of the residents' concerns, and to assess the site conditions (tree species composition, topography, ecology, etc.). Canfor considered carefully the concerns expressed, the site attributes and context, and the potential fibre supply implications. After this consideration, Canfor committed to an indefinite deferral of blocks 43071 and 43072.

2. Cypress Creek area operations

The following public inquiry was referenced in the 2010/11 Annual Report. However the resolution of the issues occurred during the 2011/12 reporting year. For completeness, the information presented in last year's report is included below.

2010/11: BCTS received a public inquiry via a third party representing the concerns of a local trapper. The Peace River Regional District Director for Area 'B', contacted BCTS via letter with their concerns that one of her constituents in the area had not felt his concerns were

adequately addressed during the BCTS Pest Management plan public review and comment phase. The Director requested that all herbicide projects relative to the Cypress valley be placed on hold. Discussions on this topic continued past the reporting period.

2011/12: Communications between BCTS and the concerned individual continued and eventually morphed into the trapper expressing further concerns around the general location of some BCTS blocks that were in the current FOS. Eventually a field trip was arranged and conducted with the trapper to view his concerns on the ground. A number of commitments were made by BCTS regarding such things as notifying the trapper at the time these blocks are being developed, to ensuring that riparian areas were given significant consideration, and finally that efforts would be made to ensure species at risk were specifically considered in the operational planning.

The initial issue of a ban on herbicide projects virtually took a backseat to these new concerns. With that said however, BCTS communicated to the trapper that each block proposed for brushing treatment within his trapline would be referred to him and his concerns would be considered in the brushing treatment options.

3. Trutch Creek area developments

The next inquiry from the public came by way of unsolicited letter from the Prophet River First Nation. Within this letter concerns were generally expressed around block development in the Trutch area, with specific reference to identification of areas with high instability, and also an assurance that specific highly valued features, both cultural and biological would be managed for. BCTS responded by stating that they would not commit to conducting terrain stability assessments on all blocks, rather specific instructions to layout personnel to watch for signs of instability during field layout activities would be emphasized. If necessary, a professional terrain stability assessment would be directed for those sites. With regard to the protection of features, BCTS did not commit to specific minimum buffer distances around these features, rather each site would be dealt with on a case by case basis with discussion and input from the Prophet River First Nation.

4. Doig River TSL

A public inquiry came to BCTS via a group of First Nation trapline holders, who are also members of the Doig River First Nations. These trappers had received a letter from the TSL tenure holder as part of the obligations of the tenure, to notify the trappers of their intention to begin harvest obligations in 14 days, and to please remove the trap set-ups within the area. The trappers were upset that not only were they being requested to remove their traps, but they responded that there should not be any harvest in this particular area because it was part of a community trapline, that it was directly adjacent to the recently tabled Tribal park, and that it was one of the last vestiges of old growth timber in close proximity to the Reserve. The trappers through the Doig River FN representative indicated that no consultation had taken place on these blocks.

The BCTS Timber Sales Manager (TSM) was now in a quandary. When a timber sale license tenure has been awarded to a Licensee, the Licensee is now in charge of the site. The Licensee had every legal right to continue with plans to commence harvest operations. The TSM felt it was necessary to interject and politely asked the Licensee to delay harvest operations until this issue was resolved recognizing that continued positive First Nation relations was paramount. Following a number of back and forth communications through various means a face to face meeting was scheduled and took place. During the course of this meeting, a number of misunderstandings were cleared up. For example, the blocks had indeed been consulted on but it occurred in 2000, which was almost 10 years previous. BCTS made a commitment to adjust the block boundary to meet certain concerns of the band members,

provided that the TSL remained acceptable to the Band from a harvesting perspective. The agreed upon solution was developed after the reporting period for this annual report.

5. Trapline issue, North Blueberry area

Another public inquiry was very similar in nature to the trapper issue described above. In this situation, a FN trapper holding a trapline tenure in the North Blueberry operating area and a member of the Blueberry River First Nations, received a letter from a BCTS tenure holder requesting removal of his trap sets with 14 days due to harvest operations. The trapper stated that no consultation had ever taken place for this block. A blockade was threatened. In this case, there were also other stakeholders involved who had a positive interest in the volume being harvested. The Timber Sales Manager interjected and asked the Licensee to delay commencement of harvest until the issue had been resolved. The TSM determined that there had been adequate consultation on the block, but that it had occurred in 2000. After a number of communication efforts a satisfactory conclusion resulted. Fortunately, a level of concession was identified by all parties and the Licensee was able to commence harvesting operations.

6. Summer harvesting, Groundbirch Creek area

A representative of a local First Nation contacted Canfor to enquire about active road clearing and construction operations in a block near Groundbirch Creek. Concerns were expressed regarding potential site degradation, soil erosion, and sediment entering the creek resulting from the operations. There were also concerns expressed regarding harvesting during the migratory bird nesting seaon. A Canfor representative confirmed, through a monitoring site visit, that there was no reason for concern with regard sediment delivery to the creek, and that site disturbance limits were being adhered to. A follow-up call was conducted with the First Nation representative one week after the initial contact to relay this information. In addition, information regarding Canfor's efforts to manage for forest dwelling birds was relayed to the representative.

7. Wildlife feature question, South Blueberry area

A member of a local First Nation contacted Canfor to notify them of a large squirrel midden in the vicinity of a proposed block, and asked what management practices Canfor applies to such features. The Canfor representative informed them that no specific management practices are applied to squirrel middens (i.e. they are not specifically protected).

8. Archaeological Investigations, West Farrell Creek area

A representative of a local First Nation asked a Canfor staff member if an Archaeological Impact Assessment had been completed on a specific block (S45043) in the West Farrell Creek operating area. The Canfor representative responded within one week that an assessment had been completed.

9. Riparian buffers / wildlife habitat, Wet Creek area

A representative of a local First Nation contacted Canfor to see if any riparian buffers were being retained on a specific block (S10035) in the Wet Creek area. A Canfor staff member met with two representatives of the First Nation one week later to address the riparian buffer question, and others that arose at the meeting, regarding wildlife habitat. After the review of the block plan the First Nation representatives had no further concerns.

All inquiries received by the participants during the reporting period were responded to within 30 days; therefore the participants are in conformance with this indicator.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.61. EDUCATIONAL OUTREACH

| Indicator Statement | Target Statement |
|---|---|
| Number of people to whom information, presentations or field trips provided annually. | Minimum of 40 people provided information, presentations or field trips. |
| **SFM Objective:** Develop improved public understanding of SFM | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***
None

***CURRENT STATUS AND COMMENTS***

During the reporting period there was one information presentation given at a Public Advisory Group meeting (February 23 2012, 'Aspen Utilization'). There were ten people present at the meeting who were not acting in a Participant or advisory role and therefore counted for the purposes of this indicator.

The Participants hosted a field trip for the PAG on July 7 2011. There were three people present at the meeting who were not acting in a Participant or advisory role and therefore counted for the purposes of this indicator.

The Participants operated an information booth at the 2011 CKNL Trade show in Fort St. John. At the trade show the participants answered various questions posed by members of the public including questions on forest management, tree growth, and employment opportunites. Attendance at the 2011 trade show was a record – 14,645 people. The Participants handed out seedlings and information on the care and planting of the seedlings to over 600 people.

The participants are consistent with the target for this indicator.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.62. BRUSHING PROGRAM AERIAL HERBICIDE USE

| Indicator Statement | Target Statement |
|---|---|
| The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout. | The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout. |
| **SFM Objective**: Involve First Nations in review of forest management plans, provide understanding of forest management plans | |
| **Linkage to *FSJPPR***: N/A | |

***Acceptable Variance:***

None.

***CURRENT STATUS AND COMMENTS***

In 2011 the participants had originally proposed to aerially herbicide 2,888.9 ha as a vegetation management treatment. Based on input received from First Nations, the public and final treatment layout conducted by the participants, the actual aerial herbicide program was reduced by 799.8 ha to a total of 2089.1 ha actually treated.

**Table 24: Herbicide Area Removal**

| Number of Hectares Removed Annually From Plan | | | |
|---|---|---|---|
| **Participant** | **Notification of Intent to Treat (NIT) (hectares)** | **Post Input from First Nation and Public and Final layout (hectares)** | **Final Treatment Area Reported (hectares)** |
| BCTS | 360.8 | 360.8 | 154.7 |
| Canfor | 2528.1 | 2486.4 | 1934.4 |
| **Participants Total** | **2888.9** | **2847.2** | **2089.1** |

Approximately 27.7% of the total area originally planned for treatment was removed from the final treatment plan.

***REVISIONS***

There are no revisions proposed for this indicator at this time.

### 3.63 WORKER TRAINING

| Indicator Statement | Target Statement |
|---|---|
| Percentage of managing participants' employees training that is consistent with training plans. | 100% of managing participants' employees will have training consistent with training plans. |
| **SFM Objective:** Development of skilled workers | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

10%. Employees having achieved a minimum of 90% of their training requirements will be considered as being consistent with their training plans provided there is an action plan in place to complete outstanding training requirements. Action plans to rectify the training deficiencies are to be developed prior to completion of the SFMP annual report.

***CURRENT STATUS AND COMMENTS***

For the 2011 reporting period, it was found that 18 of 33 Canfor woodland employee records were within the 90% tolerance. This, in the majority of cases, is attributed to shortcomings within the tracking system.

Canfor is not in conformance with this indicator. An action has been entered into ITS to prevent recurrence.

ITS-FSJO-2012-0711

BCTS found that 7 of 10 employees had completed 100% of their worker training, with the deficient three employees having over 90% of required training complete with plans in place to ensure completion of outstanding training.

BCTS is in conformance with the target of this indicator.

***REVISIONS***

This is a new indicator that did not previously exist in SFMP #2.

### 6.64 PAG SATISFACTION SURVEYS

| Indicator Statement | Target Statement |
|---|---|
| Level of satisfaction with the public participation process as measured by PAG surveys. | At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys. |
| **SFM Objective:** Develop satisfaction with the public participation process | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

- 10%. An average satisfaction level less than 80% will result in follow-up discussions with the PAG to identify opportunities for improving the level of satisfaction with the public participation process.

***CURRENT STATUS AND COMMENTS***

As suggested by PAG members, the option for anonymous online completion of the satisfaction survey was provided. Results were overwhelmingly favorable, with one somewhat dissatisfied response out of 109. The average score for satisfaction level identified in the annual survey is 92%. The satisfaction surveys did continue to provide insight into areas for future improvement.

The participants are in conformance with the target of this indicator.

***REVISIONS***

This is a new indicator that did not previously exist in SFMP #2.

#### 6.65 AVAILABILITY OF INFORMATION ON ISSUES OF CONCERN

| Indicator Statement | Target Statement |
|---|---|
| SFM monitoring report made available to the public. | SFM monitoring report made available to public annually. |
| **SFM Objective:** Develop improved public understanding of SFM | |
| **Linkage to FSJPPR:** N/A | |

***Acceptable Variance:***

- No variance.

***CURRENT STATUS AND COMMENTS***

The 2010 SFM Annual Report was posted to the Fort St. John Pilot project website and to the Canfor external website for access by the public. A copy of the 2010 SFM Annual Report ws provided to the Fort St. John Public Library for access by the public. A copy of the 2010 SFM Annual Report was provided to the Fort St. John Public Advisory Group, the MFLNRO and MOE.

***REVISIONS***

This is a new indicator that did not previously exist in SFMP #2.

## 4. SUMMARY OF ACCESS MANAGEMENT

**Table 25** represents a summary of access construction activities by participant:

**Table 25: Summary of Participants' Road and Bridge Construction Activities**

| Steward | Bridge Construction | New Construction (metres) | Reconstructed or Reactivated (metres) | Surfacing (metres) | Grand Total (metres) |
|---|---|---|---|---|---|
| BCTS | 0 | 26,918 | 22,068 | 0 | 48,986 |
| Cameron River | 0 | 16954 | 0 | 0 | 16954 |
| Canfor Fort St. John | 1 | 197866 | 23208 | 12547 | 233621 |
| L.P. | 0 | 6491 | 0 | 0 | 6491 |
| Tembec | 0 | | | | |
| **Grand Total** | **1** | **248,229** | **45,276** | **12,547** | **306,052** |

BC Timber Sales access management activities for the period April 1, 2011 to March 31, 2012 are detailed **Appendix 3**. Other participants' activities are detailed in **Appendix 3.**

## 5. SUMMARY OF TIMBER HARVESTING

**Appendix 4** contains detailed information on timber harvesting activities. **Table 33** presents a summary of all participants' timber harvesting activities.

## 6. SUMMARY OF BASIC FOREST MANAGEMENT (REFORESTATION)

A summary of the reforestation activities carried out by all participants is included in Tables within **Appendix 5.** BCTS activities are shown in **Table 34** (Establishment Delay Complete-Inventory Label), **Table 35** (Establishment Delay Complete- Silviculture Label), **Table 36** (MSQ data by Block), **Table 38** (Planting Activities), and **Table 39** (Predicted and Target Volumes by Stratum).

All other Participants activities are shown in **Table 42** (Establishment Delay Report-Inventory Layer), **Table 37** (MSQ data by Block), **Table 41** (Planting Activities), and **Table 40** (Predicted and Target Volumes by Stratum).

### Mixedwood Management

The commitment for the term of SFMP# 2 regarding intimate mixtures of conifer and deciduous is to manage intimate mixtures on ten percent of the harvested mixedwood land base as operational trials.

### BCTS

Licensees holding BCTS tenures harvested 5,966 ha of forested lands over this time period of SFMP #1. Of this area, 2,708 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equated to an amount of 270.8 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently, BCTS has designated a total of

282.2 ha as intimate mixtures, which is 10.4% of the mixedwood allocation area. This demonstrates achievement of the ten percent target over the term of the SFMP# 1 by BCTS.

**Licensee Participants**

Licensees' tenures harvested 24,049 ha of forested lands over the time period of SFMP# 1. Of this area, 4216 ha was from stands classified by the percentage of net merchantable volume by species as being either conifer leading or deciduous leading mixtures (CD or DC). This equated to an amount of 421.6 ha of harvested area as a minimum commitment to manage towards intimate mixtures. Currently participants have designated a total of 338.9ha as intimate mixtures, which is 8.0% of the mixedwood allocation area. This demonstrates that the licensee tenures are currently 2% (or 82.7ha) below the ten percent target over the term of the SFMP. The participants are committed to continue to identify opportunities for mixedwood operational trials over the term of SFMP# 2.

**Summary**

Over the term of SFMP # 1, a total of 9% of harvested mixedwood stands are being managed as operational trials of intimate species mixtures in the Fort St John Pilot Project Area. For SFMP #2 areas designated and managed as intimate species mixtures are tracked annually by the participants and results shall be reported in the 2015/16 Annual Report.

## 7. INCREMENTAL FOREST MANAGEMENT (STAND TENDING)

There were no stand tending activities carried out between April 1, 2011 and March 31, 2012.

## 8. SUMMARY OF ANY VARIANCES GIVEN

The following is a summary of variances given for licensee participants between April 1, 2011 and March 31, 2012.

**Table 26: List of Variances**

| Licence | FOS Blk # or Location | Regulatory Requirement | Description of Variance | Date Approved | Approval |
|---|---|---|---|---|---|
| A89117 | 02278 | Section 28(1)(c) | Visual Quality Objective | 2011-12-14 | MFLNRO – District Manager |
| A89117 | 04062 | Section 28(1)(c) | Visual Quality Objective | 2011-12-14 | MFLNRO – District Manager |
| A60049, PA12, A18154 | 02100, 02248, 04224, 04225, 04226, 04228 | Section 28(1)(c) | Visual Quality Objective | 2011-08-05 | MFLNRO – District Manager |

## 9. COMPLIANCE

### 9.57. CONTRAVENTIONS REPORTED

Licensee participants reported five contraventions to government agencies (MFLNRO and MOE) between April 1, 2011 and March 31, 2012. One of the contraventions discovered in June 2011, occurred prior to the reporting period (August of 2010) and

was reported to MOE in February of 2012. A summary of the contraventions reported can be found in **Appendix 6.**

BCTS reported one of two contraventions to government agencies between April 1, 2011 and March 31, 2012. The one contravention is still under investigation by BCTS and will be reported to Ministry of Environment when the investigation is complete and an update on the incident will be provided in the next (2012) annual report.

### 9.58. COMPLIANCE AND ENFORCEMENT MEASURES IMPOSED BY THE GOVERNMENT UNDER PART 6 OF THE ACT

There were no compliance and enforcement penalties imposed on licensee participants by the Government under Part 6 of the Forest Practices Code of B.C. Act for activitiescompleted between April 1, 2011 and March 31, 2012.

There was one compliance and enforcement measure imposed by the Government under Part 6 of the *Forest Practices Code of B.C. Act* between April 1, 2011 and March 31, 2012 on licensee participants. This measure was issued in the form of a "Compliance Notice". Refer to Appendix 6 for further detail regarding the compliance and enforcement measure imposed by Government on Licensee participants.

There were no compliance and enforcement measures imposed on BCTS by the Government under Part 6 of the Forest Practices Code of B.C. Act between April 1, 2011 and March 31, 2012,

## 10. AMENDMENTS TO FDP'S OR FOREST OPERATIONS SCHEDULE

The following table is a summary of amendments for which notice was not required to be published, that were made from April 1, 2011 to March 31, 2012.

**Table 27: Summary of Amendments with No Publication Requirement (Apr1/11-Mar 31/12)**

| Plan | Licence | Amendment ID | Date | Block / Road | Amendment Description | MOF Notifed of Change |
|---|---|---|---|---|---|---|
| Plan | Licence | Amendment ID | Date | Block / Road | Amendment Description | MOF Notifed of Change |
| FOS | A60049 | **102** | **6-June-11** | 1.S06124 | 1. Revised access to block due to steep slope. New access utilizes an existing block road . | **6-June-11** |
| FOS | A18154 | **103** | **23-June-11** | 1.02150, 02151, 02154 | 1. Consolidated 02150, 02151, and 02154 into one opening to manage harvest deliveries. Block number for all three will be 02150. | **23-June-11** |
| FOS | BCTS | **104** | **24-June-11** | 1.43052<br>2. 43081 | 1. Block 43052 divided into two blocks, 43052 and 43081 to expedient harvest of mountain pine beetle attacked timber in 43081. | **24-June-11** |
| FOS | R17667 | **105** | **11-July-11** | 1.02068 | 1. Revised block road to road permit to facilitate road development. | **11-July-2011** |
| FOS | A60049/ PA12 | **106** | **11-Aug-11** | 1.01203,01205, 01206, 01209 | 1. Transfer blocks 01203, 01205, 01206, 01209 from A60049 to PA12. | **11-Aug-11** |
| FOS | PA12/ A60049 | **107** | **17-Aug-11** | 1. 02240 | 1. Transfer block 02240, from PA12 to A60049. | **17-Aug-11** |
| FOS | A59959/ A18154 | **108** | **23-Aug-11** | 1. 01158 | 1. Transfer block 01158 from A59959 to A18154. | **23-Aug-11** |
| FOS | A60049/ A18154 | **109** | **7-Sept-11** | 1. S01264 | 1. Transfer block S01264 from A60049 to A18154. | **7-Sept-11** |
| FOS | PA12 | **110** | **14-Sept-11** | 1. 01101, 01132 | 1. Consolidated 01101 and 01132 into one opening to manage harvest deliveries. Block number for all three will be 01101. | **14-Sept-11** |
| FOS | PA12/ A18154 | **111** | **15-Sept-11** | 1. 02236, 02237 | 1. Transfer blocks 02236 and 02237 from PA12 to A18154. | **15-Sept-11** |
| FOS | A18154/ A56771/ A59959 | **112** | **19-Sept-11** | 1. 01102, 01103 01162 | 1. Transfer blocks 01102 and 01103 from A18154 to A59959.<br>2. Transfer block 01162 from A56771 to A59959. | **19-Sept-11** |
| FOS | A60049 | **113** | **28-Sept-11** | 1. 04140, 04139, 04138, 04137, 04137 | 1. Consolidated 04140, 04139, 04138 and 04137 into one opening to manage harvest deliveries. Block number for all four will be 04137. | **28-Sept-11** |

| | | | | | | |
|---|---|---|---|---|---|---|
| FOS | A18154 | **114** | **28-Sept-11** | 1. 04135, 04136 | 1. Consolidated 04135, and 04136 into one opening to manage harvest deliveries. Block number for all four will be 04136. | **28-Sept-11** |
| FOS | PA12/ A56771/ A18154 | **115** | **29-Sept-11** | 1. 03102, 03109 | 1. Reallocate block 03102 from A56771 to A18154.<br>2. Reallocate 03109 from PA12 to A18154. | **29-Sept-11** |
| FOS | A85946/ A60049 | **116** | **13-Oct-11** | 1. 45052 | 1. Transfer block 45052 from A85946 to A60049. | **13-Oct-11** |
| FOS | R16578 | **117** | **14-Oct-11** | 1. 02206, 02207 02208<br>2. 02178, 02179, 02180 | 1. Revised access road to 02206, 02207 and 02208 to reduce road construction by utilizing existing roads.<br>2. Revised access road to blocks 02178, 02179 and 02180 to reduce slope and provide safer road. | **14-Oct-11** |
| FOS | A18154 | **118** | **18-Oct-11** | 1. 02106, 02107 | 1. Consolidated 02106 and 02107 into one opening to manage harvest deliveries. Block number will be 02106. | **18-Oct-11** |
| FOS | PA12/ A18154/ A59959 | **119** | **31-Oct-11** | 1. 25002, 25005 | 1. Transfer block 25002 from A18154 to A59959.<br>2. Transfer block 25005 from PA12 to A59959. | **31-Oct-11** |
| FOS | A56771/ A59959 | **120** | **28-Oct-11** | 1. 01172 | 1. Transfer block 01172 from A56771 to A59959. | **28-Oct-11** |
| FOS | A18154 | **121** | **2-Nov-11** | 1.05007 | 1. Block boundary has been changed to allow for better forest management which resulted in approximately 8ha extending outside of the consultation area of the original FOS shape. | |
| FOS | A89385 | **122** | **23-Nov-11** | 1. S26021<br>2. S26022 | To better facilitate First Nations concerns:<br>1. Block S26022 has been divided into blocks S26022 and 26022.<br>2. Block S26021 has been divided into blocks S26021 and 26021. | **23-Nov-11** |
| FOS | A59959 | **123** | **12-Dec-11** | 1. 01004, 01286 | 1. Reallocated block 01004 into two blocks, to be identified as 01004 and 01286 due to permitting regulations. | **12-Dec-11** |
| FOS | BCTS | **124** | **15-Dec-11** | 1. 02278, 04062, 09016, 09017 | 1. Block area increases that do not exceed limits in Section 20.2 (2)(e)(i)(A) | **15-Dec-11** |
| FOS | A18154 | **125** | **19-Dec-11** | 1. 05009, 05132 | 1. To allow for better planning and harvesting options, block 05009 has been split into two | **19-Dec-11** |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | blocks (05009 and the new number 05132) | |
| FOS | PA12/ A18154 | **126** | **2-Jan-12** | 1. 18027 | 1. Transfer block 18027 from PA12 to A18154. | **2-Jan-12** |
| FOS | A59959 | **127** | **12-Jan-12** | 1. 01033, 01287, 01288 | 1. Block 01033 has been divided into three different blocks due to permitting regulations. New block numbers are 01003, 01287 and 01288. | **12-Jan-12** |
| FOS | PA12/ A18154 | **128** | **9-Feb-12** | 1. 02178 | 1. Transfer block 02178 from PA 12 to A18154. | **9-Feb-12** |
| FOS | A60972 | **129** | **10-Feb-12** | 1. 02116, 02117, 02118, 02128 | 1. Blocks 02116, 02117, 02118, 02128 have been combined into one block to manage similar timber types the same. The new block number is 02117. | **10-Feb-12** |
| FOS | A18154/ PA12 | **130** | **17-Feb-12** | 1. 02180 | 1. Transfer block 02180 from A18154 to PA 12. | **17-Feb-12** |
| FOS | A18154/ PA12 | **131** | **23-Feb-12** | 1. 02105, 02150 | 1. Transfer blocks 02105 and 02150 from PA 12 to A18154. | **23-Feb-12** |

**FOS# 2 went through the formal public review process in the fall of 2010. There were no major amendments made to FOS # 2 during the reporting period April 1, 2011 to March 31, 2012.**

## 11. LANDSCAPE LEVEL STRATEGY IMPLEMENTATION

The landscape level strategies (LLS) provide the strategic direction to the participants' plans and operations.

The *Fort St. John Pilot Project Regulation* (FSJPPR) specifies the regulatory content of the SFMP. A sustainable forest management plan at a minimum must include landscape level strategies for all of the following:

- timber harvesting,
- road access management,
- patch size, seral stage distribution and adjacency,
- riparian management,
- visual quality management,
- forest health management, and
- range and forage management.

The SFMP# 2 also includes a Landscape Level Reforestation Strategy and a Soil Management strategy.

The FSJPPR also requires the participants to ensure that each strategy contained in the plan specifies the performance indicators for evaluating whether or not the strategy has been successfully implemented. The participants will regularly review each of these indicators for appropriateness and evaluate performance and progress towards the associated targets.

A summary of these reviews and any proposals for change will be reported in the SFMP annual reports. The targets will be managed within the continuous improvement process as described in section 3.4 of the SFMP.

Following is a summary of the landscape level strategies and related performance indicators, (as identified in Table 8 of the SFMP) approved by the regional manager (MFLNRO) and regional director (MOE) are:

**Table 28: Landscape Level Strategies and Related Performance Indicators**

| SFMP # 2 Landscape Level Strategy | Performance Indicators | | |
|---|---|---|---|
| | **Affecting Part 3 Division 5 of the FSJPPR (Indicator #)**[23] | **For Evaluation of LLS - Sec 42 of FSJPPR (Indicator #)**[24] | Additional - not for regulatory approval (Indicator #) |
| 4.1 Timber Harvesting | N/A | 18,19, 20, 21, 50, 51,52 | 27, 48, 53 |
| 4.2 Road Access Management | 24 | 24, 45 | 40 |
| 4.3 Riparian Management | 7, 22 | 7, 22, 34, 36 | |
| 4.4 Range and Forage Management | N/A | 10, 42 | 41 |
| 4.5 Patch Size, Seral Stage Distribution and Adjacency | 6, 9 | 2, 3, 6, 9 | |
| 4.6 Forest Health Management | N/A | 1, 2, 3, 25, 49 | 26 |
| 4.7 Reforestation | 13, 29 | 13, 28, 29, 30 | 14 |
| 4.8 Soil | N/A | 4 | |
| 4.9 Visual Quality Management | 44 | 44 | |

**Following is a summary of the degree to which the participants achieved the indicators linked to each of the landscape level strategies**:

**Timber Harvesting Strategy**

**Harvesting Strategy #1:** Timber harvesting within the Crying Girl LU and the portion of the Graham LU that falls within the Graham River valley will be based on sequential clustered development. Operational harvest activities will be concentrated in one 'cluster' during a harvesting season to minimize costs, and to minimize the extent of industrial disturbance to wildlife. The total extent of allowable harvesting area will be consistent with the GRIMP harvest schedule. Exceptions to this that may be required to address abnormal forest health and

[23] Includes indicators related to both Sec35(5) and Sec35(6)of FSJPPR
[24] Indicators 2 (Seral Stage) and 3 (Patch Size) are Performance Indicators for both Strategy 4.3 and 4.6

damaging events will be reviewed with the PAG and government agencies prior to conducting activities.

**Indicator #18 - Graham Harvest Timing (3.18):** No harvesting occurred in 2011 in the Graham. The participants were within the targeted number of clusters for harvest, and therefore in compliance with this indicator.

**Indicator #19 - Graham Merchantable Area Harvested (Section 3.19):** The first reporting period was completed in April 2007. The total area harvested in the first reporting period was 3,516 ha, while the maximum allowable harvest for the period was 3,638 (which had been amended downward from 3.869 ha as a result of transferring block 11058 from cluster 4 to cluster 6, as noted in the 2005-2006 Annual Report). The second reporting period commenced April 1, 2007 and concludes March 31, 2012. Since the beginning of period 2 to date of preparation of this report, no harvesting has occurred in the Graham. The participants are therefore consistent with the indicator's targeted range.

**Harvesting Strategy #2:** The Forest Connectivity Corridors that are identified in the Graham River IRM Plan area provide substantial connectivity for wildlife throughout the Plan area. Operational plans will respect the long-term primary components of these connectivity corridors. To ensure consistency with the original objectives of the GRIMP, government agencies will be consulted and their agreement obtained prior to proposing harvesting activities in any portion of the permanent corridors.

**Indicator # 20 Graham Connectivity (Section 6.20)-** No new harvesting occurred in the Graham in the 2011 reporting period. The participants are in conformance to this indicator's target and allowable variance. As well, GIS coverage was used as an overlay during the development of the FOS to ensure consistency of future blocks with this indicator.

**Harvesting Strategy #3:** Long term harvest plans will be prepared depicting the approximate location of blocks and roads, to address key wildlife and road access issues for one or more drainages within the MKMA. These plans will be submitted to government and the public for review and comment prior to inclusion of any new proposed blocks in any FOS or similar plan.

**Indicator # 21- MKMA Harvest (Section 3.21):** Harvesting and associated road construction was previously completed in three grand parented blocks (20007, 20008, and 20060). No other activity has occurred in the MKMA, so the participants are consistent with the indicators related to this strategy. No harvesting occurred in the MKMA in 2011.

**Timber Harvesting Strategy #4:** Participants will plan harvesting activities in a manner that supports the maintenance of the current Allowable Annual Cut over the term of the SFMP, balancing economic considerations with the management assumptions included in the current AAC determination (TSRII) rationale.

**Indicator # 51 Timber Profile - Deciduous (Section 3.52):** During the development of Forest Operations Schedule #2, a substantial amount of deciduous-leading area was identified for harvest in Supply Block F – over 3,900 ha.

**Indicator # 52 Timber Profile – Coniferous (Section 3.52):** The first 5-year period expired March 31, 2006. The participants' harvesting for that five-year period was 5.0% in height class two pine stands, which, while below the target of 8%, was equal to the minimum acceptable

level of 5.0%. The next calculation of this indicator will occur at the end of the next five-year subsequent period. It was recognized that achievement of this target in the current five-year period April 1, 2007- March 31, 2011, would be negatively impacted by the large-scale salvage harvesting programs currently implemented to address the mountain pine beetle infestation. Accordingly, the variance for this period was revised to 0% at the March 6, 2008 Fort St. John Public Advisory Group meeting to provide flexibility to address the urgent forest health issue.

Very little new harvesting occurred in height class II pine stands during the reporting period in order to concentrate harvest activity on mountain pine beetle infested areas. During the 2011 reporting period Canfor harvested 6.5 ha in height-class two pine inventory types of a total of 6011 ha harvested (0.12%) and BCTS harvested 0 ha in height-class two pine inventory types out of a total 988.6 ha harvested (0%). The combined conifer harvest in height class 2 pine stands for the 2011 reporting period is 0.09% (6.5 ha out of a total of 6,999 ha harvested).

The variance for this indicator target has been met for this reporting period.

**Harvesting Strategy #5:** Support sustainable harvest levels by managing cut control levels and timber sale volumes sold that are consistent with the approved apportioned volumes within the TSA.

**Indicator # 53 Cut Control (Section 6.53).** This is year two of the six-year cut control period identified for the term of SFMP# 2. The licensee six-year target cumulative coniferous cut control volume is 4,190,676 m3. The actual harvested volume for year one and two was 1,122,230 m3 (26% of the 6 year cumulative target). The licensee six-year target cumulative deciduous cut control volume is 5,296,600 m3. The actual harvested volume for year one and two was 323,406 m3 (6.1% of the 6 year cumulative target).

The BCTS six-year target cumulative coniferous allotment volume is 2,232,354 m3. The actual volume offered for sale in year one and two was 575,041 m3 (25.7% of the 6 year target allocation). The BCTS six-year target cumulative deciduous allotment volume is 1,080,000 m3. The actual volume offered for sale in year oneand two was 183,118 m3 (16.9% of the 6 year target allocation).

The target for this indicator has been met for this reporting period.

**Harvesting Strategy #6:** Participants will coordinate the planning of forestry operations to achieve business efficiencies, facilitate analyses of cumulative forest management impacts in relation to SFMP strategies, and provide consolidated information sharing and consultation products to interested parties in a Forest Operations Schedule.

**Indicator # 50- Coordination (Section 3.50):** The participants completed and submitted a coordinated FOS in 2010-11, and continued to coordinate and collaborate on FOS amendments in 2011, therefore meeting the target for this indicator.

**Harvesting Strategy #7:** Identify suitable areas for summer and fall harvesting, and maintain deliveries during this time period sufficient to meet processing plant fibre requirements, while meeting environmental objectives.

**Indicator # 48- Summer/Winter volumes (Section 3.48)-** Targets were met for both the coniferous sawmill and the OSB mill during the summer and fall of 2011.

**Harvesting Strategy #8:** Even-aged silviculture systems such as clearcuts, or clearcuts with reserves, will be the predominant silviculture systems employed, as these systems most closely parallel the even aged forests that result from natural disturbance events in the TSA. Where other resource values are particularly high, small patch or strip cuts may be proposed to maintain non-timber resource values, while allowing for some timber utilization. Modified shelterwoods will be employed in deciduous logging to protect coniferous understorey on an operational trial basis, consistent with the reforestation strategy.

**Indicator # 27- Silviculture Systems** (3.27)- The participants met the target for this indicator; during the reporting period, even aged silviculture systems were used exclusively.

**Summary:** The participants conformed to all seven (100%) legal indicators, and 3 of 3 non legal indicators (100%) used to quantify conformance to the timber harvesting strategies.

## Road Access Management Strategy

**Road Access Management Strategy #1:** The percentage of permanent access structures may vary significantly within cutblocks, depending on block size, terrain, season, and the need to address other resource features. The revised field performance requirement, identified in the 2004 SFMP, will continue unchanged. Permanent Access Structure % will be assessed on a DFA-wide basis, rather than block-by-block, using three year rolling average measure expressed as a percent value. The value will be less than the original regulatory field performance requirement.

**Indicator # 24- Permanent Access Structures (Section 3.24)** –Licensee participants current permanent access structures area is at 4.4%, BCTS is at 2.2%, the participants combined PAS is 4.1%, therefore the participants are consistent with the target for this indicator.

**Road Access Management Strategy #2:** Forest industry road access in the Sikanni, Graham and Crying Girl LU's will be planned to maintain over time the primitive ROS class at 1996 levels, and maintain a component of semi-primitive non motorized ROS classes.

**Indicator # 45, Recreation Opportunity Spectrum (Section 3.45):** As no logging occurred in this area in 2008, 2009 and 2010 the current status remains consistent with the target range for this indicator. As well, projections of proposed roads and blocks from the FOS# 2 indicate that harvest plans will allow future activities through 2016 to be consistent with achieving these targets.

**Road Access Management Strategy #3:** Participants will communicate and provide the opportunity for forest industry access management plans to be shared with the oil and gas sector through the Oil and Gas Commission. This includes providing critical forest industry road construction standards so that the forest industry road specifications can be linked with those of the oil and gas sector. Forest industry access plans encompassing all of the Participants' activities will be clearly identified within the Forest Operations Schedule (FOS). By making this information well known and easily available to the oil and gas sector, coordinated infrastructure

developments within common operating areas can be implemented , thus eliminating duplicate entries and thereby reducing the amount of forest land converted to non-forest conditions and minimizing the negative impacts on other resources.

**Indicator # 40 Coordinated Developments (Section 3.40) -** The participants proposed changes to 35 of the 274 referrals received from Oil and Gas, to either coordinate development, or otherwise minimize impacts to the timber harvesting land base. The oil and gas company proponents agreed to implement many of these proposed changes. Participants noted that in many referrals oil and gas activities were already designed to reduce impacts to the timber harvesting land base. Licensee participants issued 204 Road use agreements to oil and gas companies.

**Summary: The participants conformed to the two (100%) legal indicators, and 1 of 1 (100%) non legal indicators used to quantify conformance to the access management strategies.**

## Patch Size, Seral Stage Distribution And Adjacency Strategy

The general strategy implemented in the SFMP is to approximate the pattern, distribution and structure of natural disturbance events (primarily fire), consistent with information provided by Delong (2002).

### Seral Stage Distribution Strategy

The seral stage distribution strategy is summarized in **Indicator # 2 Seral Stage (Section 3.2)**, where targets and timelines for achieving late seral stages for deciduous leading and coniferous leading stands, by NDU are presented. Where harvesting is proposed in areas falling below thresholds, there are requirements to spatially identify recruitment areas in Forest Operations Schedule.

The seral stage analyses conducted in 2010 to identify the current condition of the indicator and to identify the future condition of the indicator assuming all blocks in FOS# 2 are harvested by 2016, identified that the participants' activities are in conformance with the requirements of this indicator.

### Patch Size Strategy

The patch size distribution targets for early and mature patches for the duration of the SFMP are outlined in **Indicator # 3, Patch Size (Section 3.3):** the patch size analyses conducted in 2010 to identify the current condition of the indicator and to identify the future condition of the indicator assuming all blocks in FOS# 2 are harvested by 2016, identified that the participants' activities are in conformance with the requirements of this indicator.

In FOS# 2 harvesting is proposed only in one of the of the ten NDU patch size combinations where the desired patch size distribution is not achieved by 2016.
Of the three NDUs where harvesting is proposed, the patch targets are achieved in 8 of 9, or 89%, of the relevant patch size NDU combinations. In the 1 NDU patch size combination where harvesting does not achieve the desired patch size distribution, it must be noted that a slight improvement over the baseline condition (2010 condition) is achieved. This demonstrates a trend to moving toward achieving the desired patch size distribution over the course of implementation of FOS# 2

**Forest Structure and Adjacency**

Indicators that measure the structure characteristics of natural disturbance patterns are Coarse Woody Debris and Wildlife Tree Patches.

**Coarse Woody Debris (Indicator #6)** twenty-nine plots have been measured to date under the FSJPPR, up to the end of the reporting period. Data collected to this date shows the participants are consistent with this indicator.

**Wildlife Tree Patches (Indicator #9)** have cumulative targets by LU for harvesting initiated after November 15, 2001. The participants' activities are currently consistent with the targets for this indicator in all LU's where harvesting has occurred.

**Adjacency**

The strategies and indicators that deal with patch size, patch shape and seral stage distribution control both the amount and spatial distribution of the forested land base affected by forest management. The combined functions of managing for both early and mature patch sizes controls where harvesting can occur as well as what is left as intact mature forest over time. The seral stage indicator controls the amounts of the various age groups. The patch size indicators address both the size and shape of patches at the landscape level and over time. The CWD and Wildlife Tree Patch indicators provide structure within or adjacent to harvested areas. These processes manage the structural characteristics and the temporal and spatial distribution of forest patches such that a separate adjacency indicator strategy is not necessary.

**Summary: The participants conformed to the targets for 4 of 4 legal indicators used to quantify conformance to the patch size, seral stage distribution and adjacency strategy.**

**Riparian Management Strategy**

**Riparian Management Strategy #1**: Forestry operations adjacent to fish bearing S1, S2 and S3 streams will minimize negative effects on water quality by maintaining regulatory riparian reserve zones that meet or exceed the minimum widths included in Schedule D of the FSJPPR.

**Indicator # 7, Riparian Reserves (Section 3.7)** is an indicator of progress related to this strategy. The participants were in conformance to the target for this indicator during the reporting period.

**Riparian Management Strategy #2:** Qualified personnel will conduct assessments of streams that do not have mandatory reserve zones. Site-specific management practices will be incorporated into SLP's to protect streambanks, stream channel stability, and riparian vegetation, water quality, and other riparian values.

**Indicator # 36, Protection of Stream banks and Riparian Values on Small Streams (Section 3.36).** During the 2011 reporting period the participants each had one issue of non-conformance to SLP riparian management measures; the participants were therefore in conformance with the target variance for this indicator during the reporting period.

**Riparian Management Strategy #3:** Plans developed for harvesting within the riparian corridors of major rivers will provide for a high level of forest retention for wildlife habitat, with new patch openings normally being one hectare or less in size within 100 metres of the rivers' Riparian Reserve Zone. A variety of silviculture systems can potentially be used to achieve this, including clearcut with reserves and partial cutting systems, employing methods such as strip cuts or patch cuts.

**Indicator #22, River Corridors (Section 3.22):** During the reporting period, Canfor harvested a very small amount of area (0.06 ha) within the Beatton River Major River Corridor. BCTS did not harvest any amount of area from a Major River Corridor. The participants' activities are therefore consistent with the target for this indicator.

**Riparian Management Strategy #4:** Excessive runoff at the watershed level, which can disturb stream channel integrity and adjacent habitats, will be managed by limiting the extent of harvesting within watersheds, as determined through peak flow index analyses

**Indicator # 34, Peak Flow Index (Section 3.34):** The participants are consistent with the target for this indicator. No non-conformances to this indicator were identified to have taken place during this reporting period. As part of the preparation of Forest Operations Schedule #2, a DFA-wide analysis of watersheds was conducted. The analysis determined the impact of FOS #2 to each watershed's peak flow index, by modelling both the impact of the participants' total proposed harvest and the projected growth of forest stands. The analysis showed that all watersheds (105 of 105, 100%) are within the target threshold for peak flow upon completion of all harvest activities proposed in FOS# 2 through 2016. .

**Summary: The participants conformed to the target or acceptable variance for 4 of the 4 (100%) legal indicators used to quantify conformance to the riparian management strategy.**

**Visual Quality Management Strategy**

**Visual Quality Strategy #1:** All forest operations carried out in scenic areas covered by an established visual quality objective (VQO) will be consistent with the objective, and in scenic areas without established VQO's all forest operations will be designed using appropriate visual design techniques to minimize visual impacts.

**Indicator # 44, Visual Quality Objectives, (Section 3.44)** measures whether activities were consistent with VQO's during the reporting period, and is used to quantify conformance to the visual quality management strategy. The participants (Canfor) completed 2 of 4 required assessments during the reporting period. The 2 completed assessments concluded the VQO's were achieved. A conclusion could not be made regarding the 2 outstanding assessments, which have been scheduled for completion.

**Summary: The participants did not conform to the target or acceptable variance for the one (0%) legal indicator used to quantify conformance to the visual quality management strategy.** An action plan has been developed to prevent re-occurrence of this non conformance.

## Forest Health Management Strategy

**Forest Health Strategy #1:** To minimize the potential of catastrophic forest health events, the participants will apply the principles of Integrated Forest Health Management in the planning and implementation of forestry activities.

Indicators, strategies and implementation details for maintaining ecological processes are included in indicators dealing with **Forest Types (Indicator #1, Section 3.1), Seral Stage (Indicator #2, Section 3.2), and Patch Size (Indicator #3, Section 3.3) and Indicator #26 Salvage**. The participants are in conformance with the target for each of these indicators.

**Forest Health Strategy #2:** The Participants will identify potential forest health issues within their silviculture obligation areas (harvested blocks), and prioritize those that may have a significant impact on forest resources. Within their silviculture obligation areas, the Participants will detect and monitor significant forest health agents in a timely manner, and, where potential impacts are significant, implement cost effective treatment controls where practical.

**Forest Health Indicator (Section 3.25),** the participants' activities were consistent with the targets for this indicator. A number of fill plants were completed by the participants to deal with biotic and abiotic factors.

**Forest Health Strategy #3:** Where practical, prioritize harvesting of conifer blocks to those areas that are most susceptible to prevalent significant and/or catastrophic forest health damaging agents.

**Indicator # 49, Forest Health FOS Planning (Section 3.49),** There were 626 new conifer-leading blocks included in Forest Operations Schedule # 2 for the Fort St. John Pilot Project area. Of those, 344 blocks (55%) were pine-leading. The participants are consistent with the target for this indicator, within the bounds of the acceptable variance.

**Summary: The participants' activities conformed to the target or acceptable variance for 5 of 5 (100%) legal indicators and 1 of 1 (100%) non legal indicators used to quantify conformance to the forest health strategy.**

## Range And Forage Management Strategy

**Range and Forage Management Strategy # 1:** The Participants will ensure range improvements damaged as a result of Participants' activities are restored to their pre-harvest condition in a timely manner, or as otherwise agreed to between the range tenure holder and Participant.

**Indicator # 42, Damage to Range Improvements (Section 3.42)** In this reporting period the participants damaged six range improvements on 6 separate range tenures in order to allow short-term access for harvesting equipment. The damages were repaired or are planned to be repaired within the time period indentified in the indicator (one year) Consequently the participants are consistent with the indicator's target.

**Range and Forage Management Strategy # 2:** The participants will implement measures for grass seeding activities to minimize the risk introduction or spread of invasive plants due to forest management activities.

**Indicator # 10, Noxious Weed Content (Section 3.10)** All reclamation seed broadcast by the licensee participants and BCTS licensees during the reporting period is certified as having 0% content of prohibited and primary noxious weeds, and known invasive weed species of concern, as identified in the Sustainable Forest Management Plan. The participants were consistent with the targeted range for this indicator.

**Range and Forage Management Strategy #3:** The Participants will endeavor to create and implement mutually agreed action plans (T.R.A.P.s) with range tenure holders that address forage and forest management overlap issues and other concerns, over the areas identified in the current Forest Operations Schedule.

**Indicator #41, Range Action Plans (Section 3.41)** is the indicator which shows progress on this strategy. There were 4 mutually agreed specific actions completed and 0 Timber Range Action Plan (TRAP) were completed (signed) by the participants during the reporting period. A total of 5 TRAPs were initiated during the reporting period. Participants' operations were 100% consistent with the mutually agreed upon action plans for range during the reporting period.

**Summary: The participants conformed to the target or acceptable variance for 2 of 2 legal indicators, and 1 of 1 (100%) non legal indicators used to quantify conformance to the range and forage management strategy.**

## Reforestation Strategy

A) Discrete areas within cutblocks will be assigned an initial forest type designation (conifer, deciduous, or mixedwood). Applicable reforestation standards (coniferous, deciduous, or intimate mixedwood standard) that apply to each area will be tied to stocking standard ID's, which correspond to conifer, deciduous, or mixedwood stocking standards (i.e. declarations). These ID's will be submitted into the MFR tracking system (e.g. RESULTS). Changes to stocking standard designations within cutblocks may occur prior to final assessment, and will be revised in RESULTS.

B) Timely establishment of new forests is important to support timber production objectives, and will be assessed based on the average length of time to establish trees on harvested sites.

C) Flexibility in the intensity of silviculture treatments will be used to enhance landscape level timber production, while allowing natural variability in stand development. This will be enabled by assessing reforestation success based on a cumulative 'landscape level' assessment of the area from each year's logging. Assessments will be completed separately for all deciduous and all coniferous declarations, based on a comparative measure of projected future volume production.

The strategy includes the following components:

1. Assigning Reforestation Standards to areas within cutblocks
2. Landscape Level Assessment of Reforestation
3. Stocking Standards and Crop Tree Requirements

4. Silviculture Performance Indicators

The Reforestation strategy has the following key features to:

- Set standards for reforestation to provide restocking of harvested areas.
- Provide a landscape level assessment of reforestation success for *coniferous and deciduous leading stands*, based on a comparative measure of future volume.
- Ensure that Professional Foresters will have professional accountability at the cut block level to vary regimes and provide for other values as they progress to a landscape level target for volume.
- Allow continuous improvement by providing feedback on landscape level reforestation success. Silviculture regimes and/or corrective action can be considered across the landscape and implemented in a cost effective manner that considers all values being managed.

Traditionally, reforestation success has not been measured at a landscape level. This strategy extends beyond previous practices and provides an additional measure to assure adequate management and conservation.

This strategy applies to all area harvested after November 15, 2001, under the FSJPPR. Participants may elect to include areas harvested under prescription between 1987 and November 15, 2001. A statement of election to include areas must be made in writing to the District Manager.

**The following 4 indicators measure performance to the overall reforestation strategy of the participants:**

**Indicator # 13, Coniferous Seed (Section 3.13),** measures conformance to the Chief Foresters Standards for Seed Use. All seedlings planted by the participants were in conformance with the Chief Foresters Standards for Seed Use. The participants are in compliance with the indicator.

**Indicator # 28, Species Composition (Section 3.28),** measures the progress participants make in retaining relative consistent species composition between pre and post harvest operations on the landscape. The planted species percentages are within 20% of the cruise species percentages and therefore the participants are within the acceptable variance for this indicator and target.

**Indicator # 29, Reforestation Assessment (Section 3.29),** provides a landscape level assessment of reforestation success for *coniferous leading stands*, based on a comparative measure of future volume. BCTS was unable to achieve the target in 2011. An action plan was developed to brush two blocks in 2012. All other participants are within the acceptable volume target range for the group of blocks in the 1996/1997 harvest year. Overall, the Participants are not in compliance with this indicator.

**Indicator # 30-Establishment Delay (Section 3.30)** provides a broad view of the average amount of time being taken to confirm establishment of a new forest on harvested areas. In this reporting period the participants are within the acceptable variance range of the target.

**Indicator #14 Aspen Regeneration (Section 3.14)** – ensures that reforestation of deciduous stands utilizes natural regeneration to ensure that the regenerated stand is genticaly suitable for the site. The Participants are in conformance with this indicator.

**Summary: The participants conformed to 3 of the 4 legal indicator targets (75%) and 1 of 1 (100%) non legal indicators that measure conformance with the reforestation strategy.**

## Soil Management Strategy

**Soil Management Strategy #1:** The Participants will implement measures that ensure operations are conducted in a manner that addresses the inherent sensitivity of a site to soil degrading processes.

**Indicator # 4, Soil Disturbance, (Section 3.4)** measures whether detrimental soil disturbance occurred during harvesting or reforestation activities on cutblocks. There were no incidents of detrimental soil disturbance reported by the participants during the reporting period.

**Summary: The participants conformed to 1 of the 1 (100%) of the legal indicators that measure conformance to the soil management strategy.**

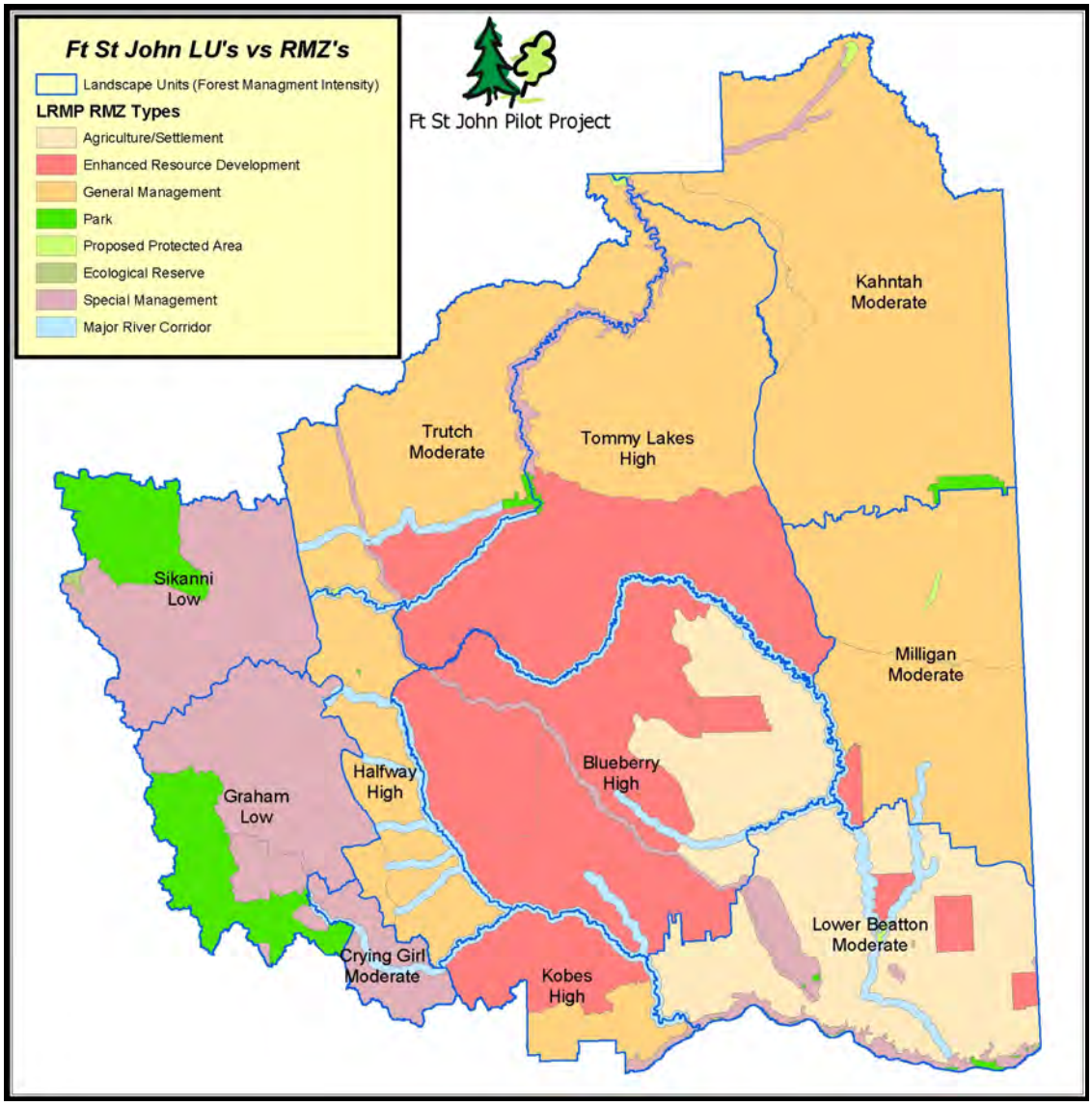
# Appendix 1: Fort St. John LU's and RMZ's

### Fort St. John Landscape Units (LU's) and Resource Management Zones (RMZ's)

Landscape Units (LU) are based on updated Biogeoclimatic Ecosystem Classification (BEC) mapping, ecosection boundaries, Natural Disturbance Units (NDU's) and important administrative boundaries such as the revised district boundaries and the strategic land use boundaries of the Muskwa-Kechika Management Area. In the absence of an administrative boundary, resource features such as main stem rivers (midpoint) or height of land were used wherever possible to provide logical natural boundaries for each LU. These boundaries often encompass multiple watersheds in mountainous terrain, and reflect similar BEC units, ecosections and Natural Disturbance Units.

The current LU boundaries are consistent with strategic boundaries and their respective objectives at the LRMP Resource Management Zone (RMZ) level, and allow the administrative areas to be managed without overlapping LU boundaries and fragmenting objectives during implementation.

**Figure 14: Fort St. John LU's and RMZ's**



## Appendix 2: CSA Sustainable Forest Management Matrix

## 41.0 CSA Matrix[25] Fort St. John Pilot Project SFM Matrix (Effective April 1, 2010)

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| CCFM Criterion 1 – Conservation of Biological Diversity | | | | | |
| Conserve biological diversity by maintaining integrity, function and diversity of living organisms and the complexes of which they are part. | | | | | |
| **Element 1.1 Ecosystem Diversity**<br>Conserve ecosystem diversity at the stand and landscape levels by maintaining the variety of communities and ecosystems that naturally occur on the DFA. | Ecosystem Diversity | Maintain the diversity and pattern of communities and ecosystems within a natural range. | **1** | Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit | All forest type groups by landscape unit will meet or exceed the minimum area percentage in table 9 |
| | | | **2** | The minimum proportion (%) of late seral forest by NDU | The minimum proportion (%) of late seral forest by NDU as identified in table 11 will be met. |
| | | | **3** | Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU | A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP. |
| | | | **28** | See indicator #28 | |
| | | | **30** | See indicator #30 | |
| **Element 1.2 Species Diversity**<br>Conserve species diversity by ensuring that habitats for the native species found in the DFA are maintained through time, including habitats for known occurrences of species at risk. | Species Richness | Suitable habitat elements for indicator species | **5** | Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas | Retain annually an average of at least 6 snags and/or live trees (>23cm dbh) per hectare on prescribed areas |

[25] matrix number reflects the PAG meeting at which it was approved.

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **6** | Average retention level of Coarse Woody Debris volume/ (m3/ha) on blocks logged in the DFA between December 1, 2008 and November 30, 2016 | Average retention level over the DFA will be at least 46 m3/ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2008 and November 30, 2016 |
| | | | **7** | The number of non-compliances to riparian reserve zone standards | No non-compliances to riparian reserve zone standards |
| | | | **8** | The proportion of shrub habitat (%) by Landscape Unit | Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat |
| | | | **9** | Cumulative Wildlife Tree Patch percentage in blocks harvested under the FSJPPR in each Landscape Unit | Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU (Blueberry 6%, Halfway 3%, Kahntah 7%, Kobes 5%, Lower Beatton 8%, Milligan 6%, Tommy Lakes 3%, Trutch 5%, Sikanni 4%, Graham 4%, Crying Girl 6%) |
| | | | **10** | The % prohibited and primary noxious weeds, and known invasive weed species of concern, in seed mix analysis | Seed mix analyses will have 0% content of prohibited and primary noxious weeds and known invasive plants, as identified in the most current publication of: “Listing of Invasive Plants”, available from the Peace River Regional District |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | Maintain habitats for species at risk | **11** | The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines | 100% of SLPs prepared annually for effected cutblocks will incorporate one or more species at risk management guidelines |
| | | | **13** | See indicator #13 | |
| **Element 1.3 Genetic Diversity** Conserve genetic diversity by maintaining the variation of genes within species and ensuring that reforestation programs are free of genetically modified organisms. | Genetic Diversity | Conserve genetic diversity of tree stock | **13** | The percentage of seedlings and vegetative material used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004) as amended from time to time. | 100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time. |
| | | | **14** | % natural regeneration of deciduous | 100% natural regeneration for deciduous |
| **Element 1.4 Protected Areas and Sites of Special Biological Significance** Respect protected areas identified through government processes. Identify sites of special geological, biological or cultural significance within the DFA and implement management strategies appropriate to their long term | Protected Areas and Conservation Emphasis areas, for example Special Management Zones, Ecological Reserves, etc. | To have representative areas of naturally occurring and important ecosystems and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA | **15** | Hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas | Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| maintenance. | | | **16** | Proportion of activities consistent with the objectives of the Muskwa-Kechika Management Area (MKMA), and general wildlife measures for Ungulate Winter Ranges (UWR) and Wildlife Habitat Areas (WHA) | All pilot Participant activities will be consistent with the objectives of the MKMA, and general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas |
| | | | **17** | Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU | 100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met |
| | | Management strategies address important values in SMZ areas | **18** | The number of clusters in the Graham IRM Plan area where active operational harvesting is concurrently occurring. | Operational harvesting within the Graham IRM Plan area will be constrained to no more than 1 'cluster' of cutblocks at any one time |
| | | | **19** | Cumulative merchantable area (hectares) within blocks harvested in the Graham IRM Plan area since 1997 | The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas, as measured at the end of each time period: Period 2 (April 2012): 6569 ha; Period 3 (April 2017): 9355 ha |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
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| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **20** | Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors | Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors |
| | | | **21** | The number of long term harvest plans within the MKMA completed and submitted to government | A minimum of one long-term harvest plan submitted no later than 1 year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA. |
| | | | **22** | The percentage of harvested areas that create openings greater than 1 hectare within100 metres of RRZ's in identified major river corridors | No openings exceeding 1 hectare in blocks within the major river corridors harvested under the FSJPPR (i.e. after November 15, 2001) |
| CCFM Criterion 2 – Maintenance and Enhancement of Forest Ecosystem Condition and Productivity | | | | | |
| Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production. | | | | | |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| **Element 2.1 Forest Ecosystem Resilience**<br>Conserve ecosystem resilience by maintaining both ecosystem processes and ecosystem conditions. | Ecosystem Resilience | Maintain a natural range of variability in ecosystem function, composition and structure with allows ecosystems to recover from disturbance and stress | **2** | See indicator #2 | |
| | | | **24** | Percentage of the total area in Managing Participants' cutblocks occupied by permanent access structures, in which harvesting was completed. | A maximum of 5% of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average. |
| | | | **25** | Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them | 100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection |
| | | | **6** | See indicator #6 | |
| | | | **5** | See indicator #5 | |
| | | | **9** | See indicator #9 | |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **26** | The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class | The relative proportions of salvage will be highest in the high intensity zones, and lowest in the low intensity zones over the SFM Plan period (April 1, 2010 - March 31, 2016) |
| | | | **27** | Percentage of area harvested annually using even aged silviculture systems | Even aged silviculture systems will be employed on at least 80% of the total area harvested annually in the DFA |
| | | | **28** | Relative change in plantation composition versus harvest composition for spruce and pine | The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting) |
| | | | **29** | Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas. | Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV).<br>The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas.<br>The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas. |
| | | | **30** | Establishment Delay (years) | The area weighted average establishment delay for coniferous regeneration will not exceed two years. The area weighted average establishment delay for deciduous regeneration will not exceed three years. The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years. |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **49** | Percentage of new conifer-leading harvest blocks in the 2010 FOS that are pine-leading. | A minimum of 60% of new conifer-leading harvest blocks in the 2010 FOS will be pine-leading. |
| **Element 2.2 Forest Ecosystem Productivity**<br>Conserve forest ecosystem productivity and productive capacity by maintaining ecosystem conditions that are capable of supporting naturally occurring species. Reforest promptly and use tree species ecologically suited to the site. | Ecosystem Productivity | Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability | **1** | See indicator #1 | |
| | | | **2** | See indicator #2 | |
| | | | **20** | See indicator #20 | |
| | | | **3** | See indicator #30 | |
| | | | **25** | See indicator #25 | |
| | Productive Capacity for Timber | Maintain or enhance landscape level productivity | **31** | Long-term harvest level (LTHL) as measured in cubic metres per year ($m^3$/yr) | We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA) |
| | | | **32** | Site index | Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation |
| | | | **25** | See indicator #25 | |
| | | | **49** | See indicator #49 | |
| CCFM Criterion 3 – Conservation of Soil and Water Resources<br>Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems. | | | | | |
| **Element 3.1 Soil Quality and Quantity**<br>Conserve soil resources by maintaining soil quality and quantity. | Soil Productivity | Protect soil resources to sustain productive forests | **32** | See indicator #32 | |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
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| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **4** | Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant | Zero blocks will have non conformances to soil disturbance limits. |
| **Element 3.2 Water Quality and Quantity**<br>Conserve water resources by maintaining water quality and quantity. | Water Quantity | Maintenance of water quantity | **34** | The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded | 95% or more of the watersheds will be below the baseline target.<br><br>All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned |
| | Water Quality | Maintenance of water quality | **35** | The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which participants have stewardship (*WQCR – water quality concern rating) | On an annual basis, fewer than 30% of the total number of surveyed stream crossings on roads for which the participants have stewardship will have 'High' WQCR. |
| | | | **7** | See indicator #7 | |

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| | | | **36** | The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities. | No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from to harvesting or silviculture activities. |
| | | | **37** | Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies. | Zero spills entering water bodies |
| CCFM Criterion 4 – Forest Ecosystem Contributions to Global Ecological Cycles | | | | | |
| Maintain forest conditions and management activities that contribute to the health of global ecological cycles. | | | | | |
| **Element 4.1 Carbon Uptake and Storage**<br>Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems. | Carbon Uptake and Storage | Maintenance of the processes for carbon uptake and storage | **38** | Maintenance of DFA Average carbon sequestration rates. | Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates. |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
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| | | | **39** | The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels | Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels. |
| | | | **29** | See indicator #29 | |
| | | | **30** | See indicator #30 | |
| **Element 4.2 Forest Land Conversion**<br>Protect forestlands from deforestation or conversion to non-forests where ecologically appropriate. | Forest Land Base | Sustain forest lands within our control within the DFA | **24** | See indicator #24 | |
| | | Foster inter-industry cooperation to minimize conversion of forested lands to non-forest conditions | **40** | Number of coordinated developments. | Report annually the number of proposed coordinated developments that occurred. |
| CCFM Criterion 5 – Multiple Benefits to Society | | | | | |
| Sustain flows of forest benefits for current and future generations by providing multiple goods and services. | | | | | |
| **Element 5.1 Timber and Non-Timber Benefits**<br>Manage the forest to produce an acceptable and feasible mix of both timber and non-timber benefits. | Timber and Non-Timber Multi-use Benefits | Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities | **41** | Percent consistency with mutually agreed upon action plans for range | Operations 100% consistent with resultant range action plans |
| | | | **42** | Number of range improvements damaged by Participants' activities. | Zero range improvements damaged by Participants' activities |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
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| | | | **43** | The number of recreation sites maintained by Participants | Participants will maintain a minimum of one recreational site within the DFA |
| | | | **44** | Consistency with Visual Quality Objectives (VQO's). | Pilot Participants' forest operations will be consistent with the established VQO's. |
| | | | **45** | Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni and Crying Girl LU's | A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Keily PA's). |
| | | | **18** | See indicator #18 | |
| | | | **19** | See indicator #19 | |
| | | | **21** | See indicator #21 | |
| | | | **46** | Percentage of operations consistent with mutually agreed upon action plans for guides, trappers and other known non-timber commercial interests. | 100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests. |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | Maintain viable timber processing facilities in the DFA | **47** | Volume of timber processed in the DFA in proportion to volume harvested in the DFA | The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA |
| **Element 5.2 Communities and Sustainability**<br>Contribute to the sustainability of communities by providing diverse opportunities to derive benefits from forests and by supporting local community economies. | Sustainable and Viable Communities | Maintain viable timber processing facilities in the DFA | **48** | Volume of timber (m3) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1st and November 30th | Minimum of 100,000 $m^3$ to conifer mills in the DFA<br>Minimum of 185,000 $m^3$ to deciduous mills in the DFA |
| | | | **50** | Percentages of SFMP's and FOS's prepared jointly by the Participants | 100% of all SFMP's and FOS's will be jointly prepared by the Participants |
| | | No decrease in the LTHL in the DFA | **51** | The area(ha) of deciduous leading cutblocks identified in Supply Block F for harvest during the term of the SFMP | A minimum of 200 ha of deciduous leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP. |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **52** | The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types | April 1, 2006 - March 31st, 2011: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types.<br><br>April 1, 2011- March 31st, 2016: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. |
| | | | **31** | See indicator #31 | |
| | | | **32** | See indicator #32 | |
| | | | **53** | Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP | Jan 1 2010- Dec 31 2016:<br><br>Industry Participants:<br>-Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period<br>-Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period<br><br>BCTS Participant:<br>-Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period<br>-Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period |
| | Contribution to Worker and Public Safety | Provide a safe work environment for DFA forestry workers and the public | **12** | Implementation and maintenance of certified safety program. | Each managing participant will implement and maintain a certified safety program |
| | Communities Participate in the Use and Management of the Forest | Diverse local forest employment opportunities exist in the DFA | **54** | Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures | Woodlands Phases to be monitored:<br>Logging/hauling: minimum of 80%<br>Road construction and maintenance: minimum of 80%<br>Silviculture: minimum of 8%<br>Planning and administration: minimum of 50% |
| CCFM Criterion 6 – Accepting Society's Responsibility for Sustainable Development | | | | | |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| Society's responsibility for sustainable forest management requires that fair, equitable, and effective forest management decisions are made. | | | | | |
| **Element 6.1 Aboriginal and Treaty Rights**<br>Recognize and respect Aboriginal and treaty rights. | Aboriginal and Treaty Rights | Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity | **56** | Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat. | Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat. |
| **Element 6.2 Respect for Aboriginal Forest Values, Knowledge and Uses**<br>Respect traditional Aboriginal forest values and uses identified through the Aboriginal input process. | Aboriginal Forest Values, and Uses | Respect known traditional aboriginal forest values and uses | **57** | Percentage of known traditional site-specific aboriginal values and uses that are addressed in operational plans. | 100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans. |
| | | Involve First Nations in review of forest management plans, provide understanding of forest management plans | **33** | Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's) | 100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's). |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **62** | The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout. | The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout. |
| **Element 6.3 Forest Community Well Being and Resilience** Encourage, co-operate with, or help to provide opportunities for economic diversity within the community. | Fair Distribution of Benefits and Costs | Provide opportunities for a range of interests to access benefits | **55** | Value of tendered contracts in proportion to the total value of all awarded contracts on an annual basis | A minimum of 50% of the total value of contracts will be tendered on an annual basis |
| | | Provide opportunities for First Nations to participate in forest economy. | **23** | Value and total number of contracts awarded annually to First Nations | Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations |
| | | Development of Skilled workers | **63** | Percentage of managing participants' employees training that is consistent with training plans. | 100% of managing participants' employees will have training consistent with training plans. |
| **Element 6.4 Fair and Effective Decision Making** Demonstrate that the public participation process is designed and functioning to the satisfaction of the participants and that there is general public awareness of the process and its progress.. | Opportunity for Public Participation | To facilitate a satisfactory public participation process | **58** | Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation | 100% compliance with public review and comment processes identified in the FSJ Pilot Project Regulation |

| 6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements | Value | Objective | Indicator | | Target |
|---|---|---|---|---|---|
| The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA. | Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element. | Objective - a broad statement describing a desired future state or condition for a value. | Indicator - a variable that measures or describes the state or condition of a value. | | Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible. |
| | | | **59** | Current Terms of reference (TOR) for the *FSJPPR* public participation process | Biennial review of the TOR for the *FSJPPR* public participation process (PAG) |
| | | | **60** | The percentage of timely responses to public inquiries | Respond to 100% of public inquiries regarding Participants' forestry practices, that are additional to the Pilot Public Review and Comment processes, within one month of receipt. |
| | | Develop satisfaction with the public participation process | **64** | Level of satisfaction with the public participation process as measured by PAG surveys. | At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys. |
| **Element 6.5 Information for Decision-Making**<br>Provide relevant information and educational opportunities to interested parties to support their involvement in the public participation process, and increase knowledge of ecosystem processes and human interactions with forest ecosystems. | Information for Decision-Making | Relevant information used in the decision making process is provided to PAG, general public, and affected parties | **60** | See indicator #60 | |
| | | Develop improved public understanding of SFM | **61** | Number of people to whom information, presentations, or field trips provided annually. | Minimum of 40 people provided information, presentations or field trips annually. |
| | | | **65** | SFM monitoring report made available to the public. | SFM monitoring report made available to the public annually. |

List of CSA matrix Revisions
Existing Indicator #61 revised as indicated, via SFMP Amendment #1, effective April 1, 2011.
New Indicators #63, #64 and #65 added to SFMP, via Amendment #1, effective April 1, 2011.

# Appendix 3: Access Management

## Table 29: Road / Bridge Construction Activity – Forest Licensees 2011-2012

| Steward | Road Name | Start (m) | End (m) | Meters Constructed | Completion Date | Season | Operating Area | Construction Type |
|---|---|---|---|---|---|---|---|---|
| BCTS | A82096-18003-00 | 0 | 1520 | 1520 | 8/8/2011 | Winter | Access to A82096-18003 | Upgrading |
| Canfor | 01-015-01 | 0 | 1475 | 1475 | 11/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-015-02 | 0 | 480 | 480 | 11/1/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-019-00 | 0 | 3089 | 3089 | 1/15/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-019-01 | 0 | 857 | 857 | 1/5/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-019-02 | 0 | 727 | 727 | 1/10/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-019-03 | 0 | 1296 | 1296 | 1/10/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-020-01 | 0 | 204 | 204 | 9/1/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-020-02 | 0 | 742 | 742 | 9/1/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-021-00 | 0 | 1418 | 1418 | 10/10/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-021-01 | 0 | 644 | 644 | 10/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-021-02 | 0 | 1150 | 1150 | 10/5/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-023-00 | 0 | 870 | 870 | 7/10/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-025-00 | 0 | 1941 | 1941 | 3/15/2012 | | Inga Lake | Subgrade |
| Canfor | 01-031-01 | 0 | 560 | 560 | 9/18/2011 | Winter | Inga Lake | Surfacing |
| Canfor | 01-031-02 | 0 | 307 | 307 | 10/15/2011 | Winter | Inga Lake | Surfacing |
| Canfor | 01-031-08 | 358 | 671 | 313 | 7/30/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-031-09 | 0 | 346 | 346 | 8/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-043-01 | 0 | 304 | 304 | 12/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-043-02 | 0 | 375 | 375 | 12/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-043-03 | 0 | 786 | 786 | 12/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | 01-073-00 | 0 | 1653 | 1653 | 11/11/2011 | Summer | Inga Lake | Reactivation |
| Canfor | 01-073-00 | 1653 | 2449 | 796 | 11/11/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-00 | 0 | 2069 | 2069 | 10/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-02 | 0 | 1969 | 1969 | 10/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-03 | 0 | 1178 | 1178 | 10/18/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-04 | 0 | 901 | 901 | 10/18/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-05 | 0 | 1153 | 1153 | 10/22/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-06 | 0 | 217 | 217 | 10/17/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-07 | 0 | 1216 | 1216 | 10/19/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-08 | 0 | 1429 | 1429 | 10/27/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-100-09 | 0 | 1147 | 1147 | 10/21/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-105-00 | 0 | 775 | 775 | 10/15/2011 | | Inga Lake | Subgrade |
| Canfor | 01-149-00 | 0 | 2133 | 2133 | 3/12/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-149-01 | 0 | 940 | 940 | 3/23/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-149-02 | 0 | 311 | 311 | 3/20/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-149-03 | 0 | 196 | 196 | 3/10/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-149-04 | 0 | 3310 | 3310 | 3/10/2012 | Summer | Inga Lake | Reactivation |
| Canfor | 01-149-05 | 0 | 691 | 691 | 3/10/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-149-06 | 0 | 445 | 445 | 3/10/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-149-07 | 0 | 797 | 797 | 3/12/2012 | Summer | Inga Lake | Subgrade |
| Canfor | 01-153-00 | 0 | 420 | 420 | 10/22/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-155-01 | 0 | 977 | 977 | 10/22/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-156-00 | 0 | 1034 | 1034 | 10/22/2011 | Summer | Inga Lake | Surfacing |
| Canfor | 01-156-00 | 0 | 1034 | 1034 | 10/2/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-171-00 | 0 | 527 | 527 | 3/12/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-171-01 | 0 | 481 | 481 | 3/11/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-171-02 | 0 | 280 | 280 | 3/12/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-172-00 | 0 | 1302 | 1302 | 3/15/2012 | | Inga Lake | Subgrade |
| Canfor | 01-186-00 | 0 | 960 | 960 | 11/15/2011 | | Inga Lake | Subgrade |
| Canfor | 01-201-00 | 0 | 797 | 797 | 1/3/2012 | Winter | Inga Lake | Subgrade |
| Canfor | 01-205-00 | 0 | 453 | 453 | 11/15/2011 | | Inga Lake | Subgrade |
| Canfor | 01-205-01 | 0 | 265 | 265 | 11/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor | 01-206-00 | 0 | 1056 | 1056 | 11/4/2011 | | Inga Lake | Subgrade |
| Canfor | 01-206-01 | 0 | 271 | 271 | 11/1/2011 | | Inga Lake | Subgrade |
| Canfor | 01-206-02 | 0 | 315 | 315 | 11/4/2011 | | Inga Lake | Subgrade |
| Canfor | 02-011-01 | 0 | 752 | 752 | 11/25/2011 | Summer | South BlueBerry | Subgrade |
| Canfor | 02-016-00 | 0 | 493 | 493 | 11/10/2011 | Winter | South Blueberry | Subgrade |
| Canfor | 02-016-00 | 493 | 1340 | 847 | 12/9/2011 | Winter | South Blueberry | Subgrade |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Canfor | 02-016-01 | 0 | 504 | 504 | 12/8/2011 | Winter | South Blueberry | Subgrade |
| Canfor | 02-016-02 | 0 | 319 | 319 | 12/8/2011 | Winter | South Blueberry | Subgrade |
| Canfor | 02-028-00 | 0 | 695 | 695 | 11/30/2011 | Winter | South Blueberry | Subgrade |
| Canfor | 02-042-00 | 0 | 651 | 651 | 9/25/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-058-02 | 0 | 672 | 672 | 7/15/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-060-01 | 0 | 1259 | 1259 | 8/28/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-060-02 | 0 | 468 | 468 | 8/28/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-068-00 | 0 | 683 | 683 | 10/16/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-068-02 | 0 | 569 | 569 | 10/16/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-068-03 | 0 | 495 | 495 | 10/16/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-068-05 | 0 | 176 | 176 | 10/16/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-069-00 | 0 | 191 | 191 | 10/16/2011 | Summer | South Blueberry | Subgrade |
| Canfor | 02-081-01 | 794 | 1523 | 729 | 3/12/2012 | Summer | South Blueberry | Subgrade |
| Canfor | 02-081-02 | 0 | 491 | 491 | 3/12/2012 | Summer | South Blueberry | Subgrade |
| Canfor | 02-081-03 | 1037 | 1765 | 728 | 3/12/2012 | Summer | South Blueberry | Subgrade |
| Canfor | 02-101-00 | 0 | 299 | 299 | 12/10/2011 | | South Blueberry | Subgrade |
| Canfor | 02-103-00 | 0 | 673 | 673 | 12/15/2011 | | South Blueberry | Subgrade |
| Canfor | 02-103-01 | 0 | 487 | 487 | 1/10/2012 | | South Blueberry | Subgrade |
| Canfor | 02-160-01 | 0 | 148 | 148 | 1/15/2012 | Winter | South Blueberry | Subgrade |
| Canfor | 02-160-03 | 0 | 1157 | 1157 | 1/15/2012 | Winter | South Blueberry | Subgrade |
| Canfor | 02-160-04 | 0 | 195 | 195 | 1/15/2012 | Winter | South Blueberry | Subgrade |
| Canfor | 02-160-05 | 0 | 326 | 326 | 1/15/2012 | Winter | South Blueberry | Subgrade |
| Canfor | 02-161-00 | 0 | 1489 | 1489 | 1/2/2012 | Winter | South Blueberry | Reactivation |
| Canfor | 02-161-00 | 1489 | 4114 | 2625 | 1/10/2012 | Winter | South Blueberry | Subgrade |
| Canfor | 02-243-00 | 0 | 1458 | 1458 | 11/15/2011 | Winter | South Blueberry | Reactivation |
| Canfor | 02-243-00 | 1458 | 3345 | 1887 | 11/15/2011 | Winter | South Blueberry | Subgrade |
| Canfor | 02-244-00 | 0 | 584 | 584 | 11/30/2011 | | South Blueberry | Subgrade |
| Canfor | 03-109-00 | 0 | 1518 | 1518 | 2/27/2012 | Winter | North Blueberry | Subgrade |
| Canfor | 04-024-01 | 0 | 2355 | 2355 | 2/28/2012 | Winter | Wonowon | Subgrade |
| Canfor | 04-024-02 | 0 | 1734 | 1734 | 2/25/2012 | Winter | Wonowon | |
| Canfor | 04-024-03 | 0 | 293 | 293 | 2/27/2012 | Winter | Wonowon | Subgrade |
| Canfor | 04-024-04 | 0 | 211 | 211 | 2/15/2012 | Winter | Wonowon | Subgrade |
| Canfor | 04-024-05 | 0 | 189 | 189 | 2/20/2012 | Winter | Wonowon | Subgrade |
| Canfor | 04-024-06 | 0 | 253 | 253 | 2/15/2012 | Winter | Wonowon | Subgrade |
| Canfor | 04-058-00 | 429 | 888 | 459 | 9/16/2011 | Summer | Wonowon | Surfacing |
| Canfor | 04-058-02 | 0 | 234 | 234 | 9/16/2011 | Winter | Wonowon | Surfacing |
| Canfor | 04-061-01 | 0 | 417 | 417 | 9/16/2011 | Winter | Wonowon | Surfacing |
| Canfor | 04-061-01 | 417 | 1058 | 641 | 9/16/2011 | Summer | Wonowon | Surfacing |
| Canfor | 04-061-02 | 0 | 2701 | 2701 | 9/16/2011 | Summer | Wonowon | Surfacing |
| Canfor | 04-224-00 | 0 | 819 | 819 | 8/1/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-224-01 | 0 | 877 | 877 | 7/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-224-03 | 0 | 308 | 308 | 7/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-224-04 | 0 | 478 | 478 | 7/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-226-00 | 0 | 1320 | 1320 | 8/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-226-01 | 0 | 905 | 905 | 8/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-228-00 | 0 | 671 | 671 | 8/30/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-228-01 | 0 | 259 | 259 | 8/25/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-230-00 | 0 | 1117 | 1117 | 8/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-230-01 | 0 | 1893 | 1893 | 8/15/2011 | Summer | Wonowon | Subgrade |
| Canfor | 04-230-02 | 0 | 624 | 624 | 8/20/2011 | Summer | Wonowon | Subgrade |
| Canfor | 05-002-00 | 0 | 607 | 607 | 10/30/2011 | Summer | Aikman Creek | Upgrading |
| Canfor | 05-002-00 | 607 | 1717 | 1110 | 10/30/2011 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-002-01 | 0 | 1142 | 1142 | 11/15/2011 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-002-02 | 0 | 753 | 753 | 11/15/2011 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-002-04 | 0 | 419 | 419 | 11/5/2011 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-007-00 | 0 | 692 | 692 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-007-01 | 0 | 803 | 803 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-007-02 | 0 | 923 | 923 | 1/11/2012 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-008-00 | 0 | 1135 | 1135 | 1/11/2012 | Summer | Aikman Creek | Upgrading |
| Canfor | 05-008-00 | 1135 | 2179 | 1044 | 1/11/2012 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-008-01 | 0 | 746 | 746 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-008-02 | 0 | 261 | 261 | 1/11/2012 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-008-03 | 0 | 508 | 508 | 1/11/2012 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-009-00 | 0 | 3196 | 3196 | 1/11/2012 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-009-01 | 0 | 1145 | 1145 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-009-02 | 0 | 793 | 793 | 1/11/2012 | Winter | Aikman Creek | Subgrade |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Canfor | 05-009-03 | 0 | 499 | 499 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-009-04 | 0 | 235 | 235 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-009-05 | 0 | 152 | 152 | 1/11/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-009-06 | 0 | 284 | 284 | 2/24/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-009-07 | 0 | 1134 | 1134 | 2/2/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-021-00 | 0 | 935 | 935 | 11/15/2011 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-132-00 | 0 | 1658 | 1658 | 11/20/2011 | Summer | Aikman Creek | Upgrading |
| Canfor | 05-132-00 | 1658 | 5380 | 3722 | 1/31/2012 | Summer | Aikman Creek | Subgrade |
| Canfor | 05-132-00 | 5380 | 7557 | 2177 | 1/31/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 05-132-01 | 0 | 567 | 567 | 1/5/2012 | Winter | Aikman Creek | Subgrade |
| Canfor | 09-018-01 | 0 | 4341 | 4341 | 8/15/2011 | Summer | Kobes Creek | Subgrade |
| Canfor | 09-019-01 | 0 | 1641 | 1641 | 8/15/2011 | Summer | Kobes Creek | Subgrade |
| Canfor | 09-019-03 | 0 | 413 | 413 | 8/15/2011 | Summer | Kobes Creek | Surfacing |
| Canfor | 09-104-01 | 0 | 420 | 420 | 8/15/2011 | Summer | Kobes Creek | Subgrade |
| Canfor | 09-104-02 | 0 | 506 | 506 | 8/15/2011 | Summer | Kobes Creek | Subgrade |
| Canfor | 10-022-00 | 0 | 1291 | 1291 | 2/25/2012 | Winter | Blue Grave Creek | Subgrade |
| Canfor | 10-022-03 | 0 | 1037 | 1037 | 2/15/2012 | Winter | Blue Grave Creek | Subgrade |
| Canfor | 117-100 | 0 | 2772 | 2772 | 2/15/2012 | Summer | Inga Lake | Reactivation |
| Canfor | 120-600 | 0 | 3241 | 3241 | 12/1/2011 | Summer | South Blueberry | Reactivation |
| Canfor | 120-600 | 3241 | 7100 | 3859 | 12/1/2011 | Winter | South Blueberry | Reactivation |
| Canfor | 18-007-00 | 0 | 1447 | 1447 | 8/20/2011 | | Nig Creek | Subgrade |
| Canfor | 18-007-01 | 0 | 282 | 282 | 8/20/2011 | | Nig Creek | Subgrade |
| Canfor | 18-007-02 | 0 | 1145 | 1145 | 8/8/2011 | | Nig Creek | Subgrade |
| Canfor | 18-007-03 | 0 | 378 | 378 | 8/11/2011 | | Nig Creek | Subgrade |
| Canfor | 18-007-04 | 0 | 601 | 601 | 8/1/2011 | | Nig Creek | Subgrade |
| Canfor | 18-007-05 | 0 | 307 | 307 | 8/4/2011 | | Nig Creek | Subgrade |
| Canfor | 18-010-00 | 0 | 572 | 572 | 2/26/2012 | Winter | Nig Creek | Subgrade |
| Canfor | 18-012-00 | 0 | 225 | 225 | 2/24/2012 | Winter | Nig Creek | Subgrade |
| Canfor | 25-002-00 | 0 | 578 | 578 | 2/1/2012 | Winter | Alces River | Subgrade |
| Canfor | 25-005-00 | 0 | 1929 | 1929 | 2/23/2012 | Summer | Alces River | Subgrade |
| Canfor | 25-005-01 | 0 | 319 | 319 | 2/23/2012 | Summer | Alces River | Subgrade |
| Canfor | 26-021-00 | 0 | 1423 | 1423 | 1/20/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | 26-021-01 | 0 | 199 | 199 | 1/20/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | 26-021-02 | 0 | 152 | 152 | 1/20/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | 26-022-00 | 0 | 408 | 408 | 1/15/2012 | Summer | Beatton-Doig River | Subgrade |
| Canfor | 26-022-01 | 0 | 195 | 195 | 1/15/2012 | Summer | Beatton-Doig River | Subgrade |
| Canfor | 26-022-02 | 0 | 217 | 217 | 1/15/2012 | Summer | Beatton-Doig River | Subgrade |
| Canfor | 45-031-00 | 0 | 1592 | 1592 | 11/1/2011 | Summer | West Farrell Creek | |
| Canfor | 45-031-01 | 0 | 225 | 225 | 11/1/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-02 | 0 | 909 | 909 | 11/1/2011 | Summer | West Farrell Creek | |
| Canfor | 45-031-03 | 0 | 3106 | 3106 | 11/2/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-05 | 0 | 837 | 837 | 11/1/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-06 | 0 | 255 | 255 | 11/1/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-07 | 0 | 179 | 179 | 11/1/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-08 | 0 | 2258 | 2258 | 12/31/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-09 | 0 | 395 | 395 | 11/4/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-10 | 0 | 936 | 936 | 11/4/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-11 | 0 | 652 | 652 | 11/4/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | 45-031-12 | 0 | 255 | 255 | 11/4/2011 | Summer | West Farrell Creek | Subgrade |
| Canfor | Bonavista D-075-B/094-H-04 RD | 0 | 1018 | 1018 | 2/2/2012 | | North Blueberry | Reactivation |
| Canfor | S01-023-00 | 0 | 688 | 688 | 3/5/2012 | | Inga Lake | Subgrade |
| Canfor | S01-023-01 | 0 | 501 | 501 | 3/9/2012 | | Inga Lake | Subgrade |
| Canfor | S01-023-02 | 0 | 530 | 530 | 3/1/2012 | Summer | Inga Lake | Subgrade |
| Canfor | S01-023-03 | 0 | 242 | 242 | 2/28/2012 | | Inga Lake | Subgrade |
| Canfor | S01-023-04 | 0 | 600 | 600 | 3/1/2012 | | Inga Lake | Subgrade |
| Canfor | S01-048-00 | 0 | 5206 | 5206 | 10/23/2011 | Winter | Inga Lake | Surfacing |
| Canfor | S01-048-00 | 3703 | 5206 | 1503 | 10/22/2011 | Winter | Inga Lake | Subgrade |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Canfor | S01-048-03 | 0 | 1013 | 1013 | 6/25/2011 | Summer | Inga Lake | Subgrade |
| Canfor | S01-048-04 | 0 | 575 | 575 | 9/1/2011 | Winter | Inga Lake | Surfacing |
| Canfor | S01-049-00 | 0 | 557 | 557 | 3/15/2012 | Summer | Inga Lake | Subgrade |
| Canfor | S01-234-01 | 0 | 328 | 328 | 12/12/2011 | Winter | Inga Lake | Reactivation |
| Canfor | S01-264-00 | 298 | 1390 | 1092 | 12/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | S01-264-00 | 1390 | 1804 | 414 | 12/15/2011 | Winter | Inga Lake | Subgrade |
| Canfor | S01-264-01 | 0 | 1247 | 1247 | 1/11/2012 | Winter | Inga Lake | Subgrade |
| Canfor | S01-264-02 | 0 | 1455 | 1455 | 1/11/2012 | Winter | Inga Lake | Subgrade |
| Canfor | S01-264-03 | 0 | 768 | 768 | 1/11/2012 | Winter | Inga Lake | Subgrade |
| Canfor | S01-264-04 | 0 | 1321 | 1321 | 1/11/2012 | Winter | Inga Lake | Subgrade |
| Canfor | S01-264-06 | 0 | 116 | 116 | 1/11/2012 | | Inga Lake | Subgrade |
| Canfor | S02-023-00 | 0 | 3299 | 3299 | 12/15/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-023-02 | 0 | 315 | 315 | 12/10/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-023-03 | 0 | 294 | 294 | 12/15/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-023-04 | 0 | 312 | 312 | 12/15/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-025-00 | 0 | 3498 | 3498 | 10/1/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-025-01 | 0 | 434 | 434 | 11/1/2011 | Summer | South Blueberry | Subgrade |
| Canfor | S02-077-00 | 0 | 335 | 335 | 9/25/2011 | | South Blueberry | Subgrade |
| Canfor | S02-078-00 | 0 | 298 | 298 | 9/10/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-079-00 | 0 | 290 | 290 | 9/28/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S02-079-01 | 0 | 287 | 287 | 9/26/2011 | Winter | South Blueberry | Subgrade |
| Canfor | S03-023-00 | 0 | 983 | 983 | 1/15/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-023-01 | 0 | 335 | 335 | 1/5/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-024-00 | 0 | 2851 | 2851 | 2/1/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-024-02 | 0 | 436 | 436 | 2/5/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-024-03 | 0 | 358 | 358 | 2/5/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-026-00 | 0 | 1756 | 1756 | 2/22/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-026-01 | 0 | 300 | 300 | 2/22/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-028-00 | 0 | 915 | 915 | 1/15/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-028-01 | 0 | 222 | 222 | 1/15/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-030-00 | 0 | 155 | 155 | 2/27/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-030-01 | 0 | 130 | 130 | 2/22/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-040-00 | 0 | 768 | 768 | 2/25/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-046-00 | 0 | 142 | 142 | 2/27/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S03-110-00 | 0 | 1925 | 1925 | 1/15/2012 | Winter | North Blueberry | Subgrade |
| Canfor | S06-124-00 | 0 | 2299 | 2299 | 9/15/2011 | Winter | Blair Creek | Subgrade |
| Canfor | S06-124-01 | 0 | 399 | 399 | 9/16/2011 | Winter | Blair Creek | Subgrade |
| Canfor | S06-125-00 | 350 | 1370 | 1020 | 8/15/2011 | Winter | Blair Creek | Subgrade |
| Canfor | S06-141-00 | 0 | 2048 | 2048 | 9/2/2011 | Summer | Blair Creek | Subgrade |
| Canfor | S09-114-00 | 0 | 436 | 436 | 10/31/2011 | Summer | Kobes Creek | Subgrade |
| Canfor | S09-166-01 | 0 | 6769 | 6769 | 1/20/2012 | Winter | Kobes Creek | Subgrade |
| Canfor | S09-166-02 | 0 | 598 | 598 | 1/15/2012 | Winter | Kobes Creek | Subgrade |
| Canfor | S09-166-03 | 0 | 850 | 850 | 1/11/2012 | Winter | Kobes Creek | Subgrade |
| Canfor | S10-025-00 | 0 | 2142 | 2142 | 8/5/2011 | Summer | Blue Grave Creek | Subgrade |
| Canfor | S10-025-01 | 0 | 812 | 812 | 8/5/2011 | Summer | Blue Grave Creek | Subgrade |
| Canfor | S10-025-02 | 0 | 1203 | 1203 | 8/5/2011 | Summer | Blue Grave Creek | Subgrade |
| Canfor | S10-025-03 | 0 | 426 | 426 | 8/5/2011 | Summer | Blue Grave Creek | Subgrade |
| Canfor | S18-015-01 | 0 | 757 | 757 | 3/5/2012 | Winter | Nig Creek | Subgrade |
| Canfor | S26-001-00 | 0 | 1393 | 1393 | 11/8/2011 | | Beatton-Doig River | Subgrade |
| Canfor | S26-001-01 | 0 | 977 | 977 | 12/15/2011 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-001-02 | 0 | 746 | 746 | 11/8/2011 | | Beatton-Doig River | Subgrade |
| Canfor | S26-001-03 | 0 | 330 | 330 | 1/17/2012 | Summer | Beatton-Doig River | Subgrade |
| Canfor | S26-005-00 | 0 | 1287 | 1287 | 1/30/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-005-01 | 0 | 637 | 637 | 1/30/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-005-02 | 0 | 589 | 589 | 1/30/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-005-05 | 0 | 281 | 281 | 1/30/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-005-08 | 0 | 225 | 225 | 1/30/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-018-00 | 0 | 828 | 828 | 1/5/2012 | Winter | Beatton-Doig | Subgrade |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | River | |
| Canfor | S26-018-00 | 95 | 96 | 1 | 12/1/2011 | Winter | Beatton-Doig River | Pipeline X |
| Canfor | S26-018-01 | 0 | 215 | 215 | 1/5/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-021-00 | 0 | 247 | 247 | 1/5/2012 | Summer | Beatton-Doig River | Subgrade |
| Canfor | S26-021-03 | 0 | 303 | 303 | 1/5/2012 | Winter | Beatton-Doig River | Subgrade |
| Canfor | S26-021-05 | 0 | 717 | 717 | 1/5/2012 | | Beatton-Doig River | Subgrade |
| Canfor | S26-022-00 | 0 | 435 | 435 | 1/20/2012 | Summer | Beatton-Doig River | Subgrade |
| Canfor | S29-013-00 | 0 | 83 | 83 | 12/1/2011 | | Prespatou Creek | Subgrade |
| Canfor | S29-014-00 | 0 | 585 | 585 | 8/20/2011 | Winter | Prepatou Creek | Subgrade |
| Canfor | S29-014-01 | 0 | 602 | 602 | 8/20/2011 | Winter | Prepatou Creek | Subgrade |
| Canfor | S29-014-03 | 0 | 1002 | 1002 | 8/20/2011 | Winter | Prepatou Creek | Subgrade |
| Canfor | S29-014-04 | 0 | 920 | 920 | 8/20/2011 | Winter | Prepatou Creek | Subgrade |
| Canfor | S29-014-05 | 0 | 353 | 353 | 8/20/2011 | Winter | Prepatou Creek | Subgrade |
| Canfor | S29-016-00 | 0 | 652 | 652 | 12/11/2011 | Winter | Prespatou Creek | Subgrade |
| Canfor | S29-017-00 | 0 | 680 | 680 | 12/5/2011 | Winter | Prespatou Creek | Reactivation |
| Canfor | S29-017-00 | 680 | 1710 | 1030 | 12/6/2011 | Winter | Prespatou Creek | Subgrade |
| Canfor | S29-021-00 | 0 | 921 | 921 | 9/15/2011 | | Prespatou Creek | Subgrade |
| Canfor | S29-021-01 | 0 | 402 | 402 | 9/16/2011 | Summer | Prespatou Creek | Subgrade |
| Canfor/Cameron River | 01-003-04 | 1431 | 1874 | 443 | 3/12/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-005-00 | 2200 | 2827 | 627 | 2/25/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-005-01 | 1780 | 3179 | 1399 | 3/10/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-005-03 | 0 | 869 | 869 | 3/10/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-005-05 | 0 | 1808 | 1808 | 3/10/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-005-06 | 0 | 649 | 649 | 3/12/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-106-00 | 0 | 1463 | 1463 | 10/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-106-01 | 0 | 1260 | 1260 | 10/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-136-00 | 0 | 1487 | 1487 | 2/14/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 01-136-01 | 0 | 816 | 816 | 2/13/2012 | Winter | Inga Lake | Subgrade |
| Canfor/Cameron River | 02-061-00 | 425 | 842 | 417 | 10/16/2011 | Winter | South Blueberry | Subgrade |
| Canfor/Cameron River | 09-100-00 | 0 | 3096 | 3096 | 9/30/2011 | Summer | Kobes Creek | Subgrade |
| Canfor/Cameron River | 09-100-01 | 0 | 1567 | 1567 | 9/30/2011 | Summer | Kobes Creek | Subgrade |
| Canfor/Cameron River | 09-100-02 | 0 | 340 | 340 | 9/30/2011 | Summer | Kobes Creek | Subgrade |
| Canfor/C | 09-100-03 | 0 | 407 | 407 | 9/30/2011 | Summer | Kobes Creek | Subgrade |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ameron River | | | | | | | | |
| Canfor/Cameron River | 09-100-04 | 0 | 306 | 306 | 9/30/2011 | Summer | Kobes Creek | Subgrade |
| Canfor/LP | S01-017-00 | 0 | 4131 | 4131 | 10/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor/LP | S01-017-01 | 0 | 485 | 485 | 10/15/2011 | Summer | Inga Lake | Subgrade |
| Canfor/LP | S01-050-00 | 0 | 1275 | 1275 | 12/10/2011 | Winter | Inga Lake | Subgrade |
| Canfor/LP | S18-031-00 | 3450 | 4050 | 600 | 2/28/2012 | Winter | Nig Creek | Subgrade |
| MOF | 209-100 | 491 | 2362 | 1871 | 1/16/2012 | Winter | Kobes Creek | Reactivation |
| Other | 01-015-00 | 0 | 2329 | 2329 | 10/1/2011 | Winter | Inga Lake | Subgrade |
| Petro Canada | Trutch-202 Connector | 0 | 5577 | 5577 | 9/22/2011 | Summer | Trutch Creek | Subgrade |
| **Total** | | | | **272,599** | | | | |

**Table 30: Annual report on roads constructed in the Fort St. John BCTS field office area.**

**April 1st 2011 to March 31st 2012**

| Steward Name | Road Name | Start (m) | End (m) | Length (m) | Completion Date | Season | Area | Method |
|---|---|---|---|---|---|---|---|---|
| BCTS | 04-019-01 | 0 | 3052 | 3052 | 2012-01-15 | Winter | Wonowon | REACTIVATE |
| BCTS | A66536-04039-01 | 0 | 1013 | 1013 | 2012-01-15 | Winter | Wonowon | NEW ROAD |
| BCTS | A66536-04039-02 | 0 | 62 | 623 | 2012-03-16 | Winter | Wonowon | NEW ROAD |
| BCTS | A76782-03059-00 | 0 | 3644 | 3644 | 2011-12-15 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76782-03060-00 | 0 | 2422 | 2422 | 2011-12-15 | Winter | North Blueberry | REACTIVATE |
| BCTS | A76782-03060-00 | 0 | 2422 | 2422 | 2012-02-15 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76782-03060-01 | 0 | 570 | 570 | 2011-12-15 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76783-03063-00 | 0 | 938 | 938 | 2011-11-15 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76783-03063-01 | 0 | 700 | 700 | 2011-11-15 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76783-03064-00 | 0 | 1484 | 1484 | 2012-01-05 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76784-03050-00 | 0 | 5300 | 5300 | 2012-02-10 | Winter | North Blueberry | REACTIVATE |
| BCTS | A76784-03050-01 | 0 | 489 | 489 | 2012-02-10 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76784-03050-02 | 0 | 933 | 933 | 2012-02-10 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76784-03050-03 | 0 | 351 | 351 | 2012-02-10 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76784-03052-01 | 0 | 1024 | 1024 | 2012-02-10 | Winter | North Blueberry | NEW ROAD |
| BCTS | A76784-03052-02 | 0 | 680 | 680 | 2012-02-10 | Winter | North Blueberry | NEW ROAD |
| BCTS | A82097-29018-00 | 0 | 11294 | 11294 | 2011-11-28 | Winter | Prespatou Creek | REACTIVATE |
| BCTS | A82097-29018-01 | 0 | 1137 | 1137 | 2011-11-28 | Winter | Prespatou Creek | NEW ROAD |
| BCTS | A87359-001-00 | 0 | 5720 | 5720 | 2012-02-03 | Winter | Cameron Creek | NEW ROAD |
| BCTS | A89117-02278-00 | 0 | 814 | 814 | 2012-03-14 | Winter | South Blueberry | NEW ROAD |
| BCTS | A89117-04062-00 | 0 | 1142 | 1142 | 2012-03-23 | Winter | Wonowon | NEW ROAD |
| BCTS | A89248-43081-00 | 0 | 1965 | 1965 | 2012-02-06 | Winter | Cache Creek | NEW ROAD |
| BCTS | A89520-18006-01 | 0 | 193 | 193 | 2011-12-28 | Winter | Nig Creek | NEW ROAD |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BCTS | A89520-18006-02 | 0 | 1050 | 1050 | 2011-12-28 | Winter | Nig Creek | NEW ROAD |
| BCTS | A89520-18006-03 | 0 | 26 | 26 | 2011-12-28 | Winter | Nig Creek | NEW ROAD |
| **Total:** | | | | **48,986** | | | | |

## Table 31: Road Deactivation Activities –Licensee Participants (2011 – 2012)

| Steward | Road Name | Start Meter | End Meter | Road Length (m) | Deactivation Date | Method | Operating Area | Access Type | Deactivation Level |
|---|---|---|---|---|---|---|---|---|---|
| BCTS | A82096-18003-00 | 0 | 1520 | 1520 | 10/15/2011 | Cross Ditches | Access to A82096-18003 | Quad/ATV | Permanent |
| Canfor | 01-015-01 | 0 | 1475 | 1475 | 2/25/2012 | Cross Ditches | Inga Lake | Quad/ATV | Temporary |
| Canfor | 01-015-02 | 0 | 480 | 480 | 2/25/2012 | Cross Ditches | Inga Lake | Quad/ATV | Temporary |
| Canfor | 01-023-00 | 0 | 870 | 870 | 11/15/2011 | Cross Ditches | Inga Lake | Quad/ATV | Temporary |
| Canfor | 01-031-04 | 0 | 1931 | 1931 | 7/15/2011 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | 01-031-05 | 0 | 613 | 613 | 7/15/2011 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | 01-105-00 | 0 | 775 | 775 | 1/15/2012 | Cross Ditches | Inga Lake | Quad/ATV | Permanent |
| Canfor | 01-186-00 | 0 | 960 | 960 | 12/30/2011 | Cross Ditches | Inga Lake | Quad/ATV | Temporary |
| Canfor | 02-011-01 | 0 | 752 | 752 | 12/30/2011 | Cross Ditches | South BlueBerry | Quad/ATV | Permanent |
| Canfor | 02-028-00 | 0 | 695 | 695 | 12/30/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-042-00 | 0 | 651 | 651 | 10/30/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-047-01 | 0 | 524 | 524 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-068-00 | 0 | 683 | 683 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | 02-068-02 | 0 | 569 | 569 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | 02-068-03 | 0 | 495 | 495 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | 02-068-03 | 495 | 495 | 0 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | 02-068-05 | 0 | 176 | 176 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | 02-069-00 | 0 | 191 | 191 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | 02-101-00 | 0 | 299 | 299 | 3/15/2012 | Cross | South Blueberry | Quad/ATV | Temporary |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | | | |
| Canfor | 02-103-00 | 0 | 673 | 673 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-103-01 | 0 | 487 | 487 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-160-01 | 0 | 148 | 148 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-160-02 | 0 | 59 | 59 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-160-03 | 0 | 1157 | 1157 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-160-04 | 0 | 195 | 195 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-160-05 | 0 | 326 | 326 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-161-00 | 1489 | 4114 | 2625 | 2/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-243-00 | 0 | 3345 | 3345 | 12/30/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 02-244-00 | 0 | 584 | 584 | 12/30/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 03-109-00 | 0 | 1518 | 1518 | 3/28/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | 04-036-00 | 0 | 386 | 386 | 4/1/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-036-01 | 0 | 474 | 474 | 4/1/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-224-00 | 0 | 819 | 819 | 10/25/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-224-01 | 0 | 877 | 877 | 10/25/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-224-03 | 0 | 308 | 308 | 10/25/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-224-04 | 0 | 478 | 478 | 10/25/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-226-00 | 0 | 1320 | 1320 | 10/25/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-226-01 | 0 | 905 | 905 | 10/25/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-228-00 | 0 | 671 | 671 | 10/30/2011 | Cross Ditches | Wonowon | 4WD | Temporary |
| Canfor | 04-228-01 | 0 | 259 | 259 | 10/30/2011 | Cross | Wonowon | Quad/ATV | Temporary |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | | | |
| Canfor | 04-228-03 | 0 | 314 | 314 | 11/1/2011 | Cross Ditches | Wonowon | Quad/ATV | Temporary |
| Canfor | 04-230-00 | 0 | 1117 | 1117 | 12/12/2011 | Cross Ditches | Wonowon | Quad/ATV | Semi-Permanent |
| Canfor | 04-230-01 | 0 | 1893 | 1893 | 10/1/2011 | Cross Ditches | Wonowon | Quad/ATV | Permanent |
| Canfor | 05-009-00 | 0 | 3196 | 3196 | 3/27/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-009-01 | 0 | 1145 | 1145 | 3/22/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-009-02 | 0 | 793 | 793 | 3/28/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-009-03 | 0 | 499 | 499 | 3/28/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-009-04 | 0 | 235 | 235 | 3/28/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-009-05 | 0 | 152 | 152 | 3/28/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-021-00 | 0 | 935 | 935 | 2/1/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 05-132-01 | 0 | 567 | 567 | 3/22/2012 | Cross Ditches | Aikman Creek | Quad/ATV | Permanent |
| Canfor | 09-005-01 | 0 | 384 | 384 | 11/1/2011 | Cross Ditches | Kobes Creek | 4WD | Temporary |
| Canfor | 120-600 | 0 | 7100 | 7100 | 2/25/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | 18-007-00 | 0 | 1447 | 1447 | 10/15/2011 | Cross Ditches | Nig Creek | Quad/ATV | Permanent |
| Canfor | 18-007-01 | 0 | 282 | 282 | 10/15/2011 | Cross Ditches | Nig Creek | Quad/ATV | Permanent |
| Canfor | 18-007-02 | 0 | 1145 | 1145 | 10/15/2011 | Cross Ditches | Nig Creek | Quad/ATV | Permanent |
| Canfor | 18-007-03 | 0 | 378 | 378 | 10/15/2011 | Cross Ditches | Nig Creek | Quad/ATV | Permanent |
| Canfor | 18-007-04 | 0 | 601 | 601 | 10/15/2011 | Cross Ditches | Nig Creek | Quad/ATV | Permanent |
| Canfor | 18-007-05 | 0 | 307 | 307 | 10/15/2011 | Cross Ditches | Nig Creek | Quad/ATV | Permanent |
| Canfor | 25-002-00 | 0 | 578 | 578 | 3/31/2012 | Cross Ditches | Alces River | Quad/ATV | Temporary |
| Canfor | 25-005-00 | 0 | 1929 | 1929 | 3/31/2012 | Cross Ditches | Alces River | Quad/ATV | Temporary |
| Canfor | 25-005-01 | 0 | 319 | 319 | 3/31/2012 | Cross | Alces River | Quad/ATV | Temporary |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | | | |
| Canfor | 26-021-00 | 0 | 1423 | 1423 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | 26-021-01 | 0 | 199 | 199 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | 26-021-02 | 0 | 152 | 152 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | 26-022-00 | 0 | 408 | 408 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | 26-022-01 | 0 | 195 | 195 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | 26-022-02 | 0 | 217 | 217 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S01-264-00 | 0 | 1390 | 1390 | 1/22/2012 | Cross Ditches | Inga Lake | 4WD | Semi-Permanent |
| Canfor | S01-264-00 | 1390 | 1804 | 414 | 1/22/2012 | Cross Ditches | Inga Lake | 4WD | Semi-Permanent |
| Canfor | S01-264-01 | 0 | 1247 | 1247 | 1/25/2012 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | S01-264-02 | 0 | 1455 | 1455 | 1/27/2012 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | S01-264-03 | 0 | 768 | 768 | 1/25/2012 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | S01-264-04 | 0 | 1321 | 1321 | 1/28/2012 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | S01-264-06 | 0 | 116 | 116 | 1/28/2012 | Cross Ditches | Inga Lake | Quad/ATV | Semi-Permanent |
| Canfor | S02-023-00 | 0 | 3299 | 3299 | 3/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | S02-023-02 | 0 | 315 | 315 | 3/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | S02-023-03 | 0 | 294 | 294 | 3/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | S02-023-04 | 0 | 312 | 312 | 3/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | S02-025-00 | 0 | 3498 | 3498 | 3/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | S02-025-01 | 0 | 434 | 434 | 3/15/2012 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Canfor | S02-037-00 | 0 | 1543 | 1543 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-01 | 0 | 301 | 301 | 10/1/2011 | Cross | South Blueberry | Quad/ATV | Permanent |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | | | |
| Canfor | S02-037-02 | 0 | 316 | 316 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-03 | 0 | 347 | 347 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-04 | 0 | 1913 | 1913 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-05 | 0 | 549 | 549 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-06 | 0 | 434 | 434 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-07 | 0 | 1671 | 1671 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-08 | 0 | 775 | 775 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-09 | 0 | 1731 | 1731 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-10 | 0 | 251 | 251 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-11 | 0 | 251 | 251 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-037-12 | 0 | 142 | 142 | 10/1/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S02-077-00 | 0 | 335 | 335 | 2/1/2012 | Cross Ditches | South Blueberry | 4WD | Permanent |
| Canfor | S02-078-00 | 0 | 298 | 298 | 2/1/2012 | Cross Ditches | South Blueberry | 4WD | Permanent |
| Canfor | S02-079-00 | 0 | 290 | 290 | 12/15/2011 | Cross Ditches | South Blueberry | 4WD | Permanent |
| Canfor | S02-079-01 | 0 | 287 | 287 | 12/15/2011 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| Canfor | S03-023-00 | 0 | 983 | 983 | 3/21/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S03-023-01 | 0 | 335 | 335 | 3/21/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S03-024-00 | 0 | 2851 | 2851 | 3/21/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S03-024-02 | 0 | 436 | 436 | 3/21/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S03-024-03 | 0 | 358 | 358 | 3/21/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S03-028-00 | 0 | 915 | 915 | 3/21/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S03-028-01 | 0 | 222 | 222 | 3/21/2012 | Cross | North Blueberry | Quad/ATV | Temporary |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | | | |
| Canfor | S03-110-00 | 0 | 1925 | 1925 | 3/15/2012 | Cross Ditches | North Blueberry | Quad/ATV | Temporary |
| Canfor | S06-124-00 | 0 | 2299 | 2299 | 10/30/2011 | Cross Ditches | Blair Creek | Quad/ATV | Temporary |
| Canfor | S06-124-01 | 0 | 399 | 399 | 10/30/2011 | Cross Ditches | Blair Creek | Quad/ATV | Temporary |
| Canfor | S06-125-00 | 350 | 1370 | 1020 | 11/30/2011 | Cross Ditches | Blair Creek | Quad/ATV | Temporary |
| Canfor | S06-141-00 | 0 | 2048 | 2048 | 9/30/2011 | Cross Ditches | Blair Creek | Quad/ATV | Temporary |
| Canfor | S09-114-00 | 0 | 436 | 436 | 11/30/2011 | Cross Ditches | Kobes Creek | Quad/ATV | Temporary |
| Canfor | S09-133-05 | 0 | 575 | 575 | 2/28/2012 | Cross Ditches | Kobes Creek | Quad/ATV | Temporary |
| Canfor | S09-133-06 | 0 | 765 | 765 | 2/28/2012 | Cross Ditches | Kobes Creek | Quad/ATV | Temporary |
| Canfor | S10-025-00 | 0 | 2142 | 2142 | 10/30/2011 | Cross Ditches | Blue Grave Creek | Quad/ATV | Permanent |
| Canfor | S10-025-01 | 0 | 812 | 812 | 10/30/2011 | Cross Ditches | Blue Grave Creek | Quad/ATV | Permanent |
| Canfor | S10-025-02 | 0 | 1203 | 1203 | 10/30/2011 | Cross Ditches | Blue Grave Creek | Quad/ATV | Permanent |
| Canfor | S18-015-01 | 0 | 757 | 757 | 3/28/2012 | Cross Ditches | Nig Creek | Quad/ATV | Temporary |
| Canfor | S26-001-00 | 0 | 1393 | 1393 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-001-01 | 0 | 977 | 977 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-001-02 | 0 | 746 | 746 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-001-03 | 0 | 330 | 330 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-005-00 | 0 | 1287 | 1287 | 3/31/2012 | Cross Ditches | Beatton-Doig River | | Permanent |
| Canfor | S26-005-01 | 0 | 637 | 637 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-005-02 | 0 | 589 | 589 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-005-05 | 0 | 281 | 281 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-005-08 | 0 | 225 | 225 | 3/31/2012 | Cross | Beatton-Doig | Quad/ATV | Permanent |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | River | | |
| Canfor | S26-018-00 | 0 | 828 | 828 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-018-01 | 0 | 215 | 215 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-021-00 | 0 | 247 | 247 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-021-03 | 0 | 303 | 303 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-021-05 | 0 | 717 | 717 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S26-022-00 | 0 | 435 | 435 | 3/31/2012 | Cross Ditches | Beatton-Doig River | Quad/ATV | Permanent |
| Canfor | S29-013-00 | 0 | 83 | 83 | 3/25/2012 | Cross Ditches | Prespatou Creek | Quad/ATV | Semi-Permanent |
| Canfor | S29-014-00 | 0 | 585 | 585 | 2/1/2012 | Cross Ditches | Prepatou Creek | Quad/ATV | Permanent |
| Canfor | S29-014-01 | 0 | 602 | 602 | 2/1/2012 | Cross Ditches | Prepatou Creek | Quad/ATV | Permanent |
| Canfor | S29-014-03 | 0 | 1002 | 1002 | 2/1/2012 | Cross Ditches | Prepatou Creek | Quad/ATV | Permanent |
| Canfor | S29-014-04 | 0 | 920 | 920 | 2/1/2012 | Cross Ditches | Prepatou Creek | Quad/ATV | Permanent |
| Canfor | S29-014-05 | 0 | 353 | 353 | 2/1/2012 | Cross Ditches | Prepatou Creek | Quad/ATV | Permanent |
| Canfor | S29-016-00 | 0 | 652 | 652 | 2/1/2012 | Cross Ditches | Prespatou Creek | Quad/ATV | Semi-Permanent |
| Canfor | S29-017-00 | 0 | 1703 | 1703 | 2/1/2012 | Cross Ditches | Prespatou Creek | | Permanent |
| Canfor | S29-017-00 | 0 | 1710 | 1710 | 2/1/2012 | Cross Ditches | Prespatou Creek | Quad/ATV | Permanent |
| Canfor | S29-021-00 | 0 | 921 | 921 | 10/10/2011 | Cross Ditches | Prespatou Creek | Quad/ATV | Permanent |
| Canfor | S29-021-01 | 0 | 402 | 402 | 10/10/2011 | Cross Ditches | Prespatou Creek | Quad/ATV | Permanent |
| Canfor/Cameron River | 01-106-00 | 0 | 1463 | 1463 | 11/30/2011 | Cross Ditches | Inga Lake | Quad/ATV | Permanent |
| Canfor/Cameron River | 01-106-01 | 0 | 1260 | 1260 | 11/30/2011 | Cross Ditches | Inga Lake | Quad/ATV | Permanent |
| Canfor/LP | S01-017-00 | 0 | 4131 | 4131 | 2/25/2012 | Cross Ditches | Inga Lake | Quad/ATV | Temporary |
| Canfor/LP | S01-017-01 | 0 | 485 | 485 | 2/25/2012 | Cross Ditches | Inga Lake | Quad/ATV | Temporary |
| Other | 01-015-00 | 0 | 2329 | 2329 | 1/26/2012 | Cross | Inga Lake | No Access | Temporary |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Ditches | | | |
| Tembec Industries | 02-057-00 | 0 | 911 | 911 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-057-01 | 0 | 860 | 860 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-00 | 0 | 163 | 163 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-01 | 0 | 597 | 597 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-02 | 0 | 1133 | 1133 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-03 | 0 | 1170 | 1170 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-04 | 0 | 715 | 715 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-05 | 0 | 1212 | 1212 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-06 | 0 | 709 | 709 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-07 | 0 | 182 | 182 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-08 | 0 | 200 | 200 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-09 | 0 | 135 | 135 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| Tembec Industries | 02-059-20 | 0 | 137 | 137 | 4/5/2011 | Cross Ditches | South Blueberry | Quad/ATV | Temporary |
| | 02-068-03 | 495 | 532 | 37 | 2/1/2012 | Cross Ditches | South Blueberry | Quad/ATV | Permanent |
| **Total** | | | | **141,933** | | | | | |

**Table 32: Annual report on roads deactivated in the Fort St John BCTS field office area.**

April 1st 2011 to March 31st 2012

| Steward | Road Name | Start Chainage (m) | End Chainage (m) | Length (m) | Deactivation Date | Method | Operating Area | Access Type | Level |
|---|---|---|---|---|---|---|---|---|---|
| BCTS | 04-019-01 | 0 | 2580 | 2580 | 2012-03-16 | CROSS DITCHES | Wonowon | Quad/ATV | Permanent |
| BCTS | A66536-04039-01 | 0 | 1013 | 1013 | 2012-03-16 | CROSS DITCHES | Wonowon | Quad/ATV | Permanent |
| BCTS | A66536-04039-02 | 0 | 62 | 62 | 2012-03-16 | CROSS DITCHES | Wonowon | Quad/ATV | Permanent |
| BCTS | A76782-03059-00 | 0 | 3644 | 3644 | 2012-03-15 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76782-03059-01 | 0 | 334 | 334 | 2012-03-16 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76782-03060-00 | 0 | 1527 | 1527 | 2012-03-10 | Maintained-Inactive | North Blueberry | 4WD | Permanent |
| BCTS | A76782-03060-00 | 1527 | 2421 | 894 | 2012-03-10 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76783-03063-00 | 0 | 938 | 938 | 2012-01-20 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76783-03063-01 | 0 | 700 | 700 | 2012-01-20 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76783-03064-00 | 0 | 1486 | 1486 | 2012-03-20 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76784-03050-00 | 0 | 2004 | 2004 | 2012-03-31 | Maintained-Inactive | North Blueberry | 4WD | Maintained-Inactive |
| BCTS | A76784-03050-00 | 2004 | 5300 | 3236 | 2012-03-31 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76784-03050-01 | 0 | 489 | 489 | 2012-03-31 | CROSS DITCHES | North Blueberry | 4WD | Permanent |
| BCTS | A76784-03050-02 | 0 | 933 | 933 | 2012-03-31 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76784- | 0 | 351 | 351 | 2012-03-31 | CROSS | North Blueberry | Quad/ATV | Permanent |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 03050-03 | | | | | DITCHES | | | |
| BCTS | A76784-03052-01 | 0 | 1024 | 1024 | 2012-03-31 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A76784-03052-02 | 0 | 680 | 680 | 2012-03-31 | CROSS DITCHES | North Blueberry | Quad/ATV | Permanent |
| BCTS | A82097-29018-00 | 0 | 11294 | 11294 | 2012-02-14 | Maintained-Inactive | Prespatou Creek | 4WD | Maintained-Inactive |
| BCTS | A82097-29018-01 | 0 | 1137 | 1137 | 2012-02-14 | CROSS DITCHES | Prespatou Creek | Quad/ATV | Permanent |
| BCTS | A87359-001-00 | 0 | 5720 | 5720 | 2012-03-31 | CROSS DITCHES | Cameron Creek | Quad/ATV | Permanent |
| BCTS | A89117-02278-00 | 0 | 814 | 814 | 2012-02-10 | CROSS DITCHES | South Blueberry | Quad/ATV | Permanent |
| BCTS | A89248-43081-00 | 681 | 1900 | 1219 | 2012-03-31 | CROSS DITCHES | Cache Creek | Quad/ATV | Permanent |
| BCTS | A89248-43081-00 | 0 | 681 | 681 | 2012-03-31 | Maintained-Inactive | Cache Creek | Quad/ATV | Permanent |
| **Total:** | | | | 42,760 | | | | | |

# Appendix 4: Timber Harvesting

**Table 33: Summary of Completed Timber Harvesting by Participants (April 1, 2011 to March 31, 2012)**

| Participant | Gross Area (ha) | Merch Area (ha) |
|---|---|---|
| BCTS | 1092.1 | 988.6 |
| Dunne-za/Canfor | 0 | 0 |
| Cameron River Logging | 254.2 | 243.2 |
| Tembec | 51.2 | 44.4 |
| Canfor (conifer) | 2033.5 | 1853.9 |
| Canfor (decid) | 1314.8 | 1242.1 |
| LP | 495.5 | 454.5 |
| **Total** | **5241.3** | **4826.7** |

# Appendix 5: Reforestation

## Table 34: BCTS Establishment Delay Complete (Inventory Label) 2011

| Harvest Date | Opening | License | Permit | Block ID | Activity | Regen Met Date | Stratum | Area | Layer | Sp. 1 | Sp 1 % | Sp. 2 | Sp 2 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Dec-03 | 94A.062-038 | A69487 | | 1 | Regen Delay (Stocking)(Walkthrough) | 15-Aug-11 | B | 4.6 | I | Sw | 60 | At | 40 |
| 20-Dec-07 | 94A.094-033 | A80052 | | 29010 | Regen Delay (Stocking)(Walkthrough) | 13-July-11 | A | 23.5 | I | At | 90 | Sw | 10 |
| 20-Dec-07 | 94A.094-033 | A80052 | | 29010 | Regen Delay (Stocking)(Walkthrough) | 13-July-11 | B | 53.1 | I | At | 100 | | |
| 30-Nov-07 | 94A.093-016 | A80053 | | 29026 | Regen Delay (Stocking)(Walkthrough) | 11-Aug-09 | A | 26.2 | I | At | 90 | Sw | 10 |
| 27-Jan-10 | 94A.063-061 | A80055 | | 01069 | Regen Delay (Stocking)(Walkthrough) | 17-Aug-11 | A | 22.1 | I | Sw | 60 | Pl | 40 |
| 27-Jan-10 | 94A.063-062 | A80055 | | 01070 | Regen Delay (Stocking)(Walkthrough) | 17-Aug-11 | A | 5.3 | I | At | 60 | Pl | 40 |
| 27-Jan-10 | 94A.063-063 | A80055 | | 01071 | Regen Delay (Stocking)(Walkthrough) | 18-Aug-11 | A | 4.7 | I | Sw | 60 | Pl | 40 |
| 27-Jan-10 | 94A.063-064 | A80055 | | 01072 | Regen Delay (Stocking)(Walkthrough) | 23-Aug-11 | A | 71.8 | I | Sw | 60 | At | 40 |
| 11-Dec-09 | 94A.054-075 | A82099 | | 01078 | Regen Delay (Stocking)(Walkthrough) | 17-Aug-11 | A | 65.5 | I | Sw | 60 | Pl | 40 |
| 11-Dec-09 | 94A.054-075 | A82099 | | 01078 | Regen Delay (Stocking)(Walkthrough) | 19-Aug-11 | B | 25.5 | I | Sw | 70 | At | 30 |
| 11-Dec-09 | 94A.054-075 | A82099 | | 01078 | Regen Delay (Stocking)(Walkthrough) | 19-Aug-11 | C | 3.2 | I | Pl | 90 | At | 10 |
| 10-Dec-07 | 94A.055-038 | A82651 | | 27009 | Regen Delay (Stocking)(Walkthrough) | 16-Aug-11 | A | 48.4 | I | At | 90 | Ep | 10 |
| 10-Dec-07 | 94A.055-038 | A82651 | | 27009 | Regen Delay (Stocking)(Walkthrough) | 16-Aug-11 | B | 20.7 | I | At | 100 | | |
| 10-Dec-07 | 94A.055-038 | A82651 | | 27009 | Regen Delay (Stocking)(Walkthrough) | 16-Aug-11 | C | 5.0 | I | At | 70 | Ac | 30 |
| 1-Mar-10 | 94A.073-051 | A85683 | | 02029 | Regen Delay (Stocking)(Walkthrough) | 15-Aug-11 | A | 36.1 | I | At | 50 | Sw | 50 |

## Table 35: BCTS Establishment Delay Complete (Silviculture Label) 2011

| Harvest Date | Opening | License | Permit | Block ID | Activity | Regen Met Date | Stratum | Area | Layer | Sp. 1 | Sp 1 % | Sp. 2 | Sp 2 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Dec-03 | 94A.062-0 38 | A69487 | | 1 | Regen Delay (Stocking)(Walkthrough) | 15-Aug-11 | B | 4.6 | S | Sw | 100 | | |
| 20-Dec-07 | 94A.094-033 | A80052 | | 29010 | Regen Delay (Stocking)(Walkthrough) | 13-Jul-11 | A | 23.5 | S | Sw | 99 | Pl | 1 |
| 20-Dec-07 | 94A.094-033 | A80052 | | 29010 | Regen Delay (Stocking)(Walkthrough) | 13-Jul-11 | B | 53.1 | S | At | 99 | Ac | 1 |
| 30-Nov-07 | 94A.093-016 | A80053 | | 29026 | Regen Delay (Stocking)(Walkthrough) | 11-Aug11 | A | 26.2 | S | At | 94 | Ac | 6 |
| 27-Jan-10 | 94A.063-061 | A80055 | | 01069 | Regen Delay (Stocking)(Walkthrough) | 17-Aug11 | A | 22.1 | S | Pl | 50 | Sw | 50 |
| 27-Jan-10 | 94A.063-062 | A80055 | | 01070 | Regen Delay (Stocking)(Walkthrough) | 18-Aug-11 | A | 5.3 | S | Pl | 50 | Sw | 50 |
| 27-Jan-10 | 94A.063-063 | A80055 | | 01071 | Regen Delay (Stocking)(Walkthrough) | 18-Aug-11 | A | 4.7 | S | Pl | 50 | Sw | 50 |
| 27-Jan-10 | 94A.063-064 | A80055 | | 01072 | Regen Delay (Stocking)(Walkthrough) | 23-Aug-11 | A | 71.8 | S | Sw | 90 | Pl | 10 |
| 11-Dec-09 | 94A.054-075 | A82099 | | 01078 | Regen Delay (Stocking)(Walkthrough) | 19-Aug-11 | A | 65.5 | S | Sw | 70 | Pl | 30 |
| 11-Dec-09 | 94A.054-075 | A82099 | | 01078 | Regen Delay (Stocking)(Walkthrough) | 19-Aug-11 | B | 25.5 | S | Sw | 100 | | |
| 11-Dec-09 | 94A.054-075 | A82099 | | 01078 | Regen Delay (Stocking)(Walkthrough) | 19-Aug-11 | C | 3.2 | S | Pl | 100 | | |
| 10-Dec-07 | 94A.055-038 | A82651 | | 27009 | Regen Delay (Stocking)(Walkthrough) | 16-Aug-11 | A | 48.4 | S | Pl | 80 | Sw | 20 |
| 10-Dec-07 | 94A.055-038 | A82651 | | 27009 | Regen Delay (Stocking)(Walkthrough) | 16-Aug-11 | B | 20.7 | S | At | 99 | Ac | 1 |
| 10-Dec-07 | 94A.055-038 | A82651 | | 27009 | Regen Delay (Stocking)(Walkthrough) | 16-Aug-11 | C | 5.0 | S | Pl | 100 | | |
| 1-Mar-10 | 94A073-051 | A85683 | | 02029 | Regen Delay (Stocking)(Walkthrough) | 15-Aug-11 | A | 36.1 | S | Sw | 50 | At | 50 |

**Table 36: Mean MSQ by Block-BCTS (2011)**

| Licence | Block | Opening Number | Block MSQ Average |
|---|---|---|---|
| A32914 | 1 | 94A.030-007 | 2.50 |
| A32922 | 1 | 94A.080-002 | 2.89 |
| A31997 | 1 | 94A.030-007 | 1.23 |
| A48186 | 1 | 94A.030-105 | 2.12 |
| A48294 | 1 | 94B.040-044 | 3.19 |
| A48305 | 1 | 94A.031-017 | 3.21 |
| A49431 | 1 | 94H.031-027 | 2.53 |
| A49431 | 2 | 94H.031-028 | 3.28 |
| A49553 | 1 | 94B.077-015 | 3.10 |
| A52286 | 1 | 94A.074-003 | 2.49 |
| A52286 | 2 | 94A.073-023 | 2.67 |
| A54878-B | B | 94H.033-003 | 2.06 |

**Table 37: Mean MSQ by Block-Canfor (2011)**

| Licensee | Block | Block-Level Mean MSQ |
|---|---|---|
| Canadian Forest Products Ltd. | 114001 | 3.7 |
| Canadian Forest Products Ltd. | 114004 | 3.6 |
| Canadian Forest Products Ltd. | 114006 | 3.8 |
| Canadian Forest Products Ltd. | 117005 | 3.7 |
| Canadian Forest Products Ltd. | 117006 | 3.5 |
| Canadian Forest Products Ltd. | 117007 | 3.3 |
| Canadian Forest Products Ltd. | 117010 | 3.8 |
| Canadian Forest Products Ltd. | 139001 | 3.8 |
| Canadian Forest Products Ltd. | 139002 | 3.9 |
| Canadian Forest Products Ltd. | 139003 | 3.6 |
| Canadian Forest Products Ltd. | 139004 | 3.8 |
| Canadian Forest Products Ltd. | 139005 | 3.7 |
| Canadian Forest Products Ltd. | 206005 | 3.9 |
| Canadian Forest Products Ltd. | 206008 | 3.5 |
| Canadian Forest Products Ltd. | 214005 | 3.9 |
| Canadian Forest Products Ltd. | 215001 | 3.5 |
| Canadian Forest Products Ltd. | 215002 | 3.9 |
| Canadian Forest Products Ltd. | 215003 | 3.6 |
| Canadian Forest Products Ltd. | 215004 | 3.5 |
| Canadian Forest Products Ltd. | 219001 | 3.8 |
| Canadian Forest Products Ltd. | 219002 | 4.0 |
| Canadian Forest Products Ltd. | 219003 | 3.6 |
| Canadian Forest Products Ltd. | 219004 | 3.6 |
| Canadian Forest Products Ltd. | 219005 | 3.9 |
| Canadian Forest Products Ltd. | 219006 | 3.8 |
| Canadian Forest Products Ltd. | 322001 | 4.0 |
| Canadian Forest Products Ltd. | 322002 | 4.0 |
| Canadian Forest Products Ltd. | 322005 | 4.0 |
| Canadian Forest Products Ltd. | 322008 | 3.9 |
| Canadian Forest Products Ltd. | 325003 | 3.7 |
| Canadian Forest Products Ltd. | 325004 | 3.9 |
| Canadian Forest Products Ltd. | 325005 | 3.8 |
| Canadian Forest Products Ltd. | 327001 | 3.7 |
| Canadian Forest Products Ltd. | 327002 | 3.7 |
| Canadian Forest Products Ltd. | 327003 | 3.6 |
| Canadian Forest Products Ltd. | 328001 | 3.8 |
| Canadian Forest Products Ltd. | 328002 | 3.9 |

| | | |
|---|---|---|
| Canadian Forest Products Ltd. | 512002 | 3.3 |
| Canadian Forest Products Ltd. | 512009 | 2.5 |
| Canadian Forest Products Ltd. | 512010 | 3.3 |
| Canadian Forest Products Ltd. | 513007 | 4.0 |
| Canadian Forest Products Ltd. | 513008 | 4.0 |
| Canadian Forest Products Ltd. | 513009 | 3.5 |
| Canadian Forest Products Ltd. | 513010 | 3.6 |
| Canadian Forest Products Ltd. | 513011 | 3.2 |
| Canadian Forest Products Ltd. | 513012 | 4.0 |
| Canadian Forest Products Ltd. | 513013 | 3.7 |
| Canadian Forest Products Ltd. | 513014 | 2.8 |
| Canadian Forest Products Ltd. | 513015 | 3.1 |
| Canadian Forest Products Ltd. | 513016 | 3.0 |
| Canadian Forest Products Ltd. | 513017 | 2.9 |
| Canadian Forest Products Ltd. | 612001 | 3.6 |
| Canadian Forest Products Ltd. | 612002 | 3.4 |
| Canadian Forest Products Ltd. | 612004 | 2.3 |
| Canadian Forest Products Ltd. | 612005 | 3.7 |
| Canadian Forest Products Ltd. | 612006 | 3.8 |
| Canadian Forest Products Ltd. | 612007 | 3.3 |
| Canadian Forest Products Ltd. | 612008 | 3.9 |
| Canadian Forest Products Ltd. | 612008A | 4.0 |
| Canadian Forest Products Ltd. | 612009 | 3.7 |
| Canadian Forest Products Ltd. | 613001A | 3.0 |
| Canadian Forest Products Ltd. | 613001B | 3.0 |
| Canadian Forest Products Ltd. | 613002 | 3.7 |
| Canadian Forest Products Ltd. | 613003 | 2.8 |
| Canadian Forest Products Ltd. | 613004 | 3.2 |
| Canadian Forest Products Ltd. | 613005 | 3.5 |
| Canadian Forest Products Ltd. | 613006 | 3.7 |
| Canadian Forest Products Ltd. | 613007 | 3.2 |
| Canadian Forest Products Ltd. | 613007 | 3.3 |
| Canadian Forest Products Ltd. | 613009 | 3.3 |
| Canadian Forest Products Ltd. | 613011 | 3.4 |
| Canadian Forest Products Ltd. | 613012 | 2.6 |
| Canadian Forest Products Ltd. | 614001 | 3.8 |
| Canadian Forest Products Ltd. | 614002 | 4.0 |
| Canadian Forest Products Ltd. | 614003 | 3.3 |
| Canadian Forest Products Ltd. | 614005 | 3.7 |
| Canadian Forest Products Ltd. | 614006 | 3.7 |

| | | |
|---|---|---|
| Canadian Forest Products Ltd. | 615002 | 3.5 |
| Canadian Forest Products Ltd. | 615004 | 3.1 |
| Canadian Forest Products Ltd. | 615005 | 3.5 |
| Canadian Forest Products Ltd. | 615006 | 3.6 |
| Canadian Forest Products Ltd. | 615007 | 3.3 |
| Canadian Forest Products Ltd. | 615008 | 3.2 |
| Canadian Forest Products Ltd. | 615009 | 3.6 |
| Canadian Forest Products Ltd. | 617001 | 3.6 |
| Canadian Forest Products Ltd. | 617002 | 3.4 |
| Canadian Forest Products Ltd. | 617003 | 4.0 |
| Canadian Forest Products Ltd. | 617004 | 3.9 |
| Canadian Forest Products Ltd. | 617005 | 3.8 |
| Canadian Forest Products Ltd. | 617006 | 4.0 |
| Canadian Forest Products Ltd. | 618005 | 3.3 |
| Canadian Forest Products Ltd. | 618006 | 3.6 |
| Canadian Forest Products Ltd. | 618007 | 3.9 |
| Canadian Forest Products Ltd. | 618008 | 3.5 |
| Canadian Forest Products Ltd. | 619001 | 3.9 |
| Canadian Forest Products Ltd. | 619002 | 3.9 |
| Canadian Forest Products Ltd. | 619003 | 3.4 |
| Canadian Forest Products Ltd. | 619004 | 3.8 |
| Canadian Forest Products Ltd. | 619005 | 3.9 |
| Canadian Forest Products Ltd. | 619006 | 3.8 |
| Canadian Forest Products Ltd. | 619007 | 3.6 |

## Table 38: BCTS Planting Activities (2011)

| Harvest Start Date | Opening | License | Permit | Block ID | Activity | Activity Date | Area | Seedlot | # Trees |
|---|---|---|---|---|---|---|---|---|---|
| 1998-01-01 | 94A09400 26 | A31981 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 3.62 | 02116 | 5940 |
| 2002-12-10 | 94A03100 22 | A54403 | | 1 | Fill Plant (Container) - FSJ | 2011-08-15 | 19.02 | 02116 | 13680 |
| 2005-03-06 | 94G01600 3 | A61904 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 19.12 | 47906 | 6750 |
| 2005-03-06 | 94G01600 3 | A61904 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 19.12 | 60455 | 3330 |
| 2010-02-18 | 94A05400 66 | A63402 | | 1 | Planting (Container) - FSJ | 2011-08-11 | 9.92 | 60455 | 17910 |
| 2006-11-15 | 94A05400 55 | A63403 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 8.21 | 60455 | 7560 |
| 2005-02-07 | 94A06100 29 | A63412 | | 1 | Fill Plant (Container) - FSJ | 2011-08-14 | 0.69 | 02116 | 1440 |
| 2001-01-01 | 94A07000 10 | A65297 | | 1 | Fill Plant (Container) - FSJ | 2011-08-14 | 2.27 | 02116 | 4320 |
| 2009-11-17 | 94B10000 27 | A66550 | | 1 | Road/Pile Plant - FSJ | 2011-08-14 | 0.5 | 02116 | 1260 |
| 2003-12-01 | 94A06200 38 | A69487 | | 1 | Planting (Container) - FSJ | 2011-08-14 | 4.56 | 02116 | 1440 |
| 2003-12-01 | 94A06200 38 | A69487 | | 1 | Planting (Container) - FSJ | 2011-08-14 | 4.56 | 60455 | 3060 |
| 2010-01-27 | 94A06300 63 | A80055 | | 01071 | Planting (Container) - FSJ | 2011-08-18 | 4.71 | 02116 | 3600 |
| 2010-01-27 | 94A06300 63 | A80055 | | 01071 | Planting (Container) - FSJ | 2011-08-18 | 4.71 | 60455 | 3780 |
| 2010-01-27 | 94A06300 62 | A80055 | | 01070 | Planting (Container) - FSJ | 2011-08-18 | 5.28 | 02116 | 3600 |
| 2010-01-27 | 94A06300 62 | A80055 | | 01070 | Planting (Container) - FSJ | 2011-08-18 | 5.28 | 60455 | 3780 |
| 2010-01-27 | 94A06300 61 | A80055 | | 01069 | Planting (Container) - FSJ | 2011-08-17 | 22.12 | 02116 | 17820 |
| 2010-01-27 | 94A06300 61 | A80055 | | 01069 | Planting (Container) - FSJ | 2011-08-17 | 22.12 | 60455 | 17280 |
| 2010-01-27 | 94A06300 64 | A80055 | | 01072 | Planting (Container) - FSJ | 2011-08-17 | 8.3 | 02116 | 8460 |
| 2010-01-27 | 94A06300 64 | A80055 | | 01072 | Planting (Container) - FSJ | 2011-08-17 | 53.4 | 60455 | 54720 |
| 2010-01-27 | 94A06300 64 | A80055 | | 01072 | Planting (Container) - FSJ | 2011-08-17 | 38.3 | 60455 | 39220 |
| 2010-11-10 | 94A09300 29 | A82096 | | 18008 | Planting (Container) - FSJ | 2011-08-18 | 17.95 | 02116 | 21350 |
| 2010-11-10 | 94A09300 29 | A82096 | | 18008 | Planting (Container) - FSJ | 2011-08-18 | 17.95 | 60455 | 2430 |
| 2009-12-15 | 94A06400 42 | A82098 | | 01045 | Road/Pile Plant - FSJ | 2011-08-15 | 0.75 | 02116 | 1080 |
| 2009-12-11 | 94A05400 75 | A82099 | | 01078 | Planting (Container) - FSJ | 2011-08-19 | 3.18 | 02116 | 4320 |
| 2009-12-11 | 94A05400 75 | A82099 | | 01078 | Planting (Container) - FSJ | 2011-08-19 | 25.37 | 60455 | 23940 |
| 2009-12-11 | 94A05400 75 | A82099 | | 01078 | Planting (Container) - FSJ | 2011-08-19 | 64.6 | 02116 | 42120 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2009-12-11 | 94A05400 75 | A82099 | | 01078 | Planting (Container) - FSJ | 2011-08-19 | 64.6 | 60455 | 44280 |
| 2009-12-11 | 94A05400 75 | A82099 | | 01078 | Planting (Container) - FSJ | 2011-08-19 | 64.6 | 60455 | 720 |
| 2007-12-10 | 94A05500 38 | A82651 | | 27009 | Fill Plant (Container) - FSJ | 2011-08-13 | 5.08 | 60455 | 9540 |
| 2007-12-10 | 94A05500 38 | A82651 | | 27009 | Fill Plant (Container) - FSJ | 2011-08-13 | 43.35 | 60455 | 19800 |
| 2010-03-01 | 94A07300 51 | A85683 | | 02029 | Planting (Container) - FSJ | 2011-08-15 | 9.4 | 02116 | 6120 |
| 2010-03-01 | 94A07300 51 | A85683 | | 02029 | Planting (Container) - FSJ | 2011-08-15 | 9.4 | 60455 | 8820 |
| 1998-01-01 | 94A09400 26 | A31981 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 3.62 | 02116 | 5940 |
| 2002-12-10 | 94A03100 22 | A54403 | | 1 | Fill Plant (Container) - FSJ | 2011-08-15 | 19.02 | 02116 | 13680 |
| 2005-03-06 | 94G01600 3 | A61904 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 19.12 | 47906 | 6750 |
| 2005-03-06 | 94G01600 3 | A61904 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 19.12 | 60455 | 3330 |
| 2010-02-18 | 94A05400 66 | A63402 | | 1 | Planting (Container) - FSJ | 2011-08-11 | 9.92 | 60455 | 17910 |
| 2006-11-15 | 94A05400 55 | A63403 | | 1 | Fill Plant (Container) - FSJ | 2011-08-13 | 8.21 | 60455 | 7560 |
| 2005-02-07 | 94A06100 29 | A63412 | | 1 | Fill Plant (Container) - FSJ | 2011-08-14 | 0.69 | 02116 | 1440 |
| | | | **Total** | | | | **582.04** | | **403,470** |

## Table 39: Predicted and Target Volumes by Stratum-BCTS 2011

| Block Strata Summary | Stratum | Net Area (ha) | Mean SI | Mean EA | Mean MSQ | Mean TSS | PMV/ha | Tot PMV | Target MSQ | Target EA | TMV/ha | Total TMV | PMV % of Target |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A54878B-B (A2) | PlSx/SR/20-22/1200-1400 | 37 | 20.8 | 14.8 | 1.2 | 1200 | 292.3 | 10814 | 3.7 | 14 | 528 | 19537 | 55.4 |
| A49431-2 (B), A54878B-B (A1) | PlSx/WG/0-2/1200-1400 | 21.6 | 19.8 | 14.4 | 3.7 | 1200 | 509.3 | 11000 | 3.7 | 14 | 482.3 | 10419 | 105.6 |
| A49431-1 (A) A49431-2 (A) A49553-1 (A) | PlSx/WG/20-22/1200-1400 | 71.1 | 21.1 | 14.3 | 3 | 1200 | 543.3 | 38630 | 3.7 | 14 | 544.2 | 38695 | 99.8 |
| A48305-1 (A2) | PlSx/WG/22-24/1200-1400 | 21.4 | 22.9 | 13.4 | 3.9 | 1200 | 666.9 | 14272 | 3.7 | 14 | 633.1 | 13549 | 105.3 |
| A48186-1 (A), (B), A52286-1 (A), A52286-2 (B), A48305-1 (A3), A32922-1 (A2) | Sx/SR/20-22/1200-1400 | 99.9 | 21.7 | 16 | 2.2 | 1200 | 527.3 | 52675 | 3.7 | 14 | 612.7 | 61212 | 86.1 |
| A52286-2 (A), A48294-1 (A), A48305-1 (A1), A32914-1 (A)(B)(C), A32922-1 (A1) | Sx/WG/20-22/1200-1400 | 174.3 | 21.5 | 17.2 | 3 | 1194 | 617 | 107544 | 3.7 | 14 | 602.7 | 105051 | 102.4 |
| | **Total** | **425.3** | **21.4** | **15.9** | **2.8** | **1198** | **552.4** | **234935** | **3.7** | **14** | **584.2** | **248463** | **94.6** |

## Table 40: Predicted and Target Volumes by Stratum – Canfor 2011

| Block Strata Summary | Stratum | Net Area(ha) | Mean SI | Mean Effective Age | Mean MSQ | Mean TSS | PMV/ha | Total PMV | Target MSQ | Target Effective Age | TMV/ha | Total TMV | PMV % of Target |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 322001-A, 612001-B, 612007-C, 612008A-A, 613004-B, 613005-B, 613008-A,C, 614002-D | Pl/WG/18-20/1200-1400 | 27.7 | 18.9 | 13.3 | 3.7 | 1198 | 435.9 | 12.074 | 3.7 | 14 | 417.5 | 11,565 | 104.4 |
| 322002-B, 322008-C, 328001-C, 612009-A, 613002-A,B, 613005-A, 613008-B, 619002-C2, 619004-A | Pl/WG/20-22/1200-1400 | 169.7 | 20.2 | 13.3 | 3.6 | 1200 | 498.5 | 84,600 | 3.7 | 14 | 477.6 | 81,048 | 104.4 |
| 117005-A, 219005-A,B, 219006-B, 612002-A, 612007-B, 613004-A, 613006-A, 617005-B, 617006-A | Pl/WG/22-24/1200-1400 | 252.8 | 21.9 | 12.6 | 3.6 | 1200 | 576.9 | 145,850 | 3.7 | 14 | 555.9 | 140,542 | 103.8 |
| 617001-A, 619003-B | Pl/WG/26-28/1200-1400 | 27.3 | 22.4 | 10.7 | 3.5 | 1200 | 593.5 | 16,202 | 3.7 | 14 | 581.7 | 15,882 | 102.0 |
| 512010-B, 613001B-C, 617005-C | PlSx/SR/20-22/1200-1400 | 8.4 | 21.7 | 17.8 | 1.6 | 1157 | 395.5 | 3323 | 3.7 | 14 | 573.8 | 4820 | 68.9 |
| 139001-A, 322008-B, 325003-A, 325004-C, 328002-A,B, 612001-A,D, 613001A-B, 613007-B, 617001-B, 618008-B, 619002-A | PlSx/WG/12-14/1200-1400 | 55.2 | 19.7 | 13.5 | 3.6 | 1192 | 496.4 | 27,402 | 3.7 | 14 | 475.8 | 26,266 | 104.3 |
| 206005-A, 206008-A, 214005-B, 215002-A,B, 215003-B, 215004-B, 219004-B, 219005-C, 322005-A,B, 328001-F, 612001-C, 613009-B,C, 613011-B, 614001-B, 614002-B, 618008-A, 619007-C | PlSx/WG/18-20/1200-1400 | 209.6 | 20.2 | 12.9 | 3.7 | 1191 | 525.5 | 110,153 | 3.7 | 14 | 502.8 | 105,392 | 104.5 |
| 117007-A, 214005-A, 215001-A,B,C, 215004-A, 219006-A, 322002-A, 322008-A, 327002-B, 328001-A,B, 328002-C,D, 512010-A, 612004-A, 612005-A, 612007-A, 612008-A, 613007-A, 613011-A, 615003-A, 615007-A, 618006-A, 618007-A,B, 619002-B, 619003-A, 619005-A, 619006-B, 619007-A,B | PlSx/WG/20-22/1200-1400 | 625.7 | 21.2 | 13.8 | 3.7 | 1200 | 575.0 | 359,750 | 3.7 | 14 | 547.7 | 342,678 | 105.0 |
| 139005-B, 206005-B, 327003-B, 612006-A, 613001A-A, 613003-A, 613009-A, 617002-A, 617003-A, 617004-A, 617005-A, 618006-C, 618008-C, 619001-A | PlSx/WG/22-24/1200-1400 | 270.9 | 23.1 | 13.1 | 3.6 | 1197 | 671.6 | 181,924 | 3.7 | 14 | 644.9 | 174,694 | 104.1 |
| 139002-D, 215002-C, 613001B-B, 613003-B, 613012-A, 614001-A, 615004-B | PlSx/WG/24-26/1200-1400 | 96.8 | 24.4 | 13.6 | 3.2 | 1200 | 718.0 | 69,505 | 3.7 | 14 | 707.3 | 68,467 | 101.5 |
| 117005-B, 612002-B,C, 614001-C | PlSx/WG/26-28/1200-1400 | 43.4 | 26.2 | 13.0 | 3.5 | 1200 | 823.5 | 35,738 | 3.7 | 14 | 796.7 | 34,577 | 103.4 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117007-B, 512009-D, 513012-A2, 513015-A, 618005-A2 | Sx/SR/20-22/1200-1400 | 15.5 | 22.8 | 16.8 | 2.3 | 1195 | 590.4 | 9152 | 3.7 | 14 | 665.9 | 10,322 | 88.7 |
| 512009-C, 513014-B2 | Sx/SR/22-24/1200-1400 | 6.3 | 23.4 | 17.2 | 1.9 | 1105 | 561.6 | 3538 | 3.6 | 14 | 697.2 | 4392 | 80.5 |
| 512002-A2,C2 | Sx/SR/26-28/1200-1400 | 12.0 | 27.3 | 15.8 | 3.2 | 1117 | 928.7 | 11,144 | 3.6 | 14 | 900.7 | 10,808 | 103.1 |
| 206008-B, 219004-D, 325004-B, 325005-A,B,C,D,E,F, 513007-B, 513008-A, 513009-D, 513016-B, 618006-D | Sx/WG/12-14/1200-1400 | 67.2 | 17.9 | 16.0 | 3.7 | 1153 | 439.3 | 29,522 | 3.7 | 14 | 410.9 | 27,615 | 106.9 |
| 325004-A, 328001-E, 513008-C, 513009-A, 513010-A, 513012-A1,B, 613003-C, 619007-D2 | Sx/WG/14-16/1200-1400 | 41.7 | 23.2 | 15.8 | 3.5 | 1199 | 727.0 | 30,314 | 3.7 | 14 | 690.0 | 28,774 | 105.4 |
| 114001-A,F, 114004-A, 117006-A,C, 139002-A, 215003-C, 219003-A, 327002-C, 327003-C, 513007-A, 513016-C, 614003-A,C, 615002-B, 615007-B, 619006-C | Sx/WG/18-20/1200-1400 | 48.8 | 19.7 | 15.5 | 3.5 | 1152 | 531.4 | 25,933 | 3.7 | 14 | 503.7 | 24,583 | 105.5 |
| 114006-D, 215003-A, 219004-A, 325003-B,C, 328001-D, 512002-B, 512009-A,E, 513009-C, 513013-A, 513017-A, 613001B-B, 614003-B,C, 614006-A2, 615005-A, 615007-C, 618005-A1, 618005-B,C | Sx/WG/20-22/1200-1400 | 216.3 | 23.3 | 15.6 | 3.3 | 1187 | 722.8 | 156,339 | 3.7 | 14 | 694.4 | 150,209 | 104.1 |
| 219003-B, 327001-C, 513014-B1 | Sx/WG/22-24/1000-1200 | 34.9 | 24.3 | 16.0 | 3.5 | 1000 | 787.8 | 27,492 | 3.5 | 14 | 737.8 | 25,748 | 106.8 |
| 114001-D, 114004-C, 114006-B,C,F, 117006-D, 139002-B,C, 139003-D, 139004-A,C, 219001-C, 219002-A, 325003-D, 327002-A, 327003-A, 512002-C1, 513011-A,B, 513014-A, 614003-A, 614005-B, 615002-A, 615004-A, 615005-B, 615006-B, 615008-A,B, 615009-A,B, 618006-A, 619002-C1 | Sx/WG/22-24/1200-1400 | 307.6 | 23.8 | 17.0 | 3.5 | 1200 | 769.6 | 236,743 | 3.7 | 14 | 723.0 | 222,381 | 106.5 |
| 117006-B, 139003-C, 219002-B, 219004-C, 513015-B | Sx/WG/24-26/1000-1200 | 71.6 | 25.5 | 15.6 | 3.5 | 1000 | 857.1 | 61,368 | 3.5 | 14 | 801.8 | 57,408 | 106.9 |
| 114001-B, 139001-B,C, 139002-E, 139003-B, 139004-B, 139005-A, 219001-B, 327001-B, 513009-B, 513015-C, 513016-A | Sx/WG/24-26/1200-1400 | 105.7 | 25.4 | 15.9 | 3.7 | 1200 | 856.9 | 90,576 | 3.7 | 14 | 803.4 | 84,919 | 106.7 |
| 512002-A1, 513010-B, 513013-C | Sx/WG/26-28/1000-1200 | 47.7 | 28.5 | 15.7 | 3.2 | 1000 | 997.2 | 47,566 | 3.5 | 14 | 954.1 | 45,510 | 104.5 |
| 114004-B,D, 117010-B, 139003-A, 327001-A, 513008-B, 614005-A, 614006-A1,B, 615006-A | Sx/WG/26-28/1200-1400 | 122.9 | 27.2 | 13.7 | 3.8 | 1200 | 945.2 | 116,161 | 3.7 | 14 | 898.5 | 110,422 | 105.2 |
| 219001-A, 513013-B | Sx/WG/28-30/1000-1200 | 12.9 | 27.7 | 15.9 | 3.7 | 1068 | 982.5 | 12,674 | 3.6 | 14 | 916.8 | 11,827 | 107.2 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 117010-A | Sx/WG/30-32/1200-1400 | 11.5 | 29.1 | 15.2 | 3.8 | 1200 | 1060.0 | 12,190 | 3.7 | 14 | 997.2 | 11,468 | 106.3 |
| | **Totals/Averages** | **2,910.1** | **22.6** | **14.3** | **3.6** | **1,184** | **658.8** | **1,917,231** | **3.7** | **14** | **629.6** | **1,832,316** | **104.6** |

## Table 41: Licensee Participant Planting Activities 2011

| Harvest Start Date | Licence | Permit | Block ID | Planting Activity | Planting Date | Planted Area (ha) | Seedlot | # of Trees |
|---|---|---|---|---|---|---|---|---|
| 06/18/2010 | A18154 | 720 | 01017 | Planting - Establishment | 07/25/2011 | 21.0 | 48555 | 15060 |
| 06/18/2010 | A18154 | 720 | 01017 | Planting - Establishment | 07/25/2011 | 57.0 | 31310 | 52185 |
| 12/15/2009 | A18154 | 901 | 02018 | Planting - Establishment | 06/21/2011 | 32.0 | 31310 | 39930 |
| 03/09/2011 | A60972 | 752 | 02049 | Planting - Establishment | 06/21/2011 | 24.0 | 60455 | 25740 |
| 11/25/2010 | A60972 | 752 | 02057 | Planting - Establishment | 07/25/2011 | 55.0 | 43117 | 29160 |
| 11/25/2010 | A60972 | 752 | 02057 | Planting - Establishment | 07/25/2011 | 55.0 | 31310 | 29190 |
| 09/28/2009 | A60972 | 909 | 02082 | Planting - Establishment | 06/21/2011 | 77.0 | 60455 | 92460 |
| 09/28/2009 | A60972 | 909 | 02082 | Planting - Establishment | 06/21/2011 | 9.0 | 44282 | 6720 |
| 09/28/2009 | A60972 | 909 | 02082 | Planting - Establishment | 06/21/2011 | 5.0 | 31303 | 5670 |
| 09/28/2009 | A60972 | 909 | 02082 | Planting - Establishment | 06/21/2011 | 14.0 | 31303 | 4800 |
| 08/16/2010 | A18154 | 901 | 02086 | Planting - Establishment | 07/25/2011 | 5.0 | 31310 | 5355 |
| 08/16/2010 | A18154 | 901 | 02086 | Planting - Establishment | 06/21/2011 | 51.0 | 31310 | 22680 |
| 08/16/2010 | A18154 | 901 | 02086 | Planting - Establishment | 06/21/2011 | 51.0 | 60455 | 49900 |
| 10/31/2010 | A18154 | 360 | 03065 | Planting - Establishment | 07/25/2011 | 208.0 | 31310 | 103395 |
| 10/31/2010 | A18154 | 360 | 03065 | Planting - Establishment | 07/25/2011 | 208.0 | 43117 | 121935 |
| 10/12/2010 | A18154 | 360 | 03066 | Planting - Establishment | 07/25/2011 | 55.0 | 43117 | 61260 |
| 01/19/2011 | A18154 | 360 | 03067 | Planting - Establishment | 07/25/2011 | 50.0 | 31310 | 54240 |
| 01/01/2011 | A18154 | 360 | 03068 | Planting - Establishment | 07/25/2011 | 24.0 | 31310 | 25890 |
| 01/22/2011 | A18154 | 376 | 03080 | Planting - Establishment | 07/25/2011 | 15.0 | 43117 | 18765 |
| 02/01/2011 | A18154 | 360 | 03081 | Planting - Establishment | 07/25/2011 | 27.0 | 31310 | 30315 |
| 01/22/2011 | A18154 | 376 | 03084 | Planting - Establishment | 07/25/2011 | 6.0 | 43117 | 6000 |
| 12/01/2010 | A18154 | 905 | 04058 | Planting - Establishment | 07/25/2011 | 31.0 | 43117 | 15960 |
| 12/01/2010 | A18154 | 905 | 04058 | Planting - Establishment | 07/25/2011 | 31.0 | 31310 | 19980 |
| 11/20/2010 | A18154 | 905 | 04061 | Planting - Establishment | 07/25/2011 | 30.0 | 31310 | 18900 |
| 11/20/2010 | A18154 | 905 | 04061 | Planting - Establishment | 07/25/2011 | 30.0 | 43117 | 11310 |
| 07/09/2007 | A60050 | 702 | 05001 | Planting - Fill Plant | 07/25/2011 | 33.0 | 31310 | 46050 |
| 01/28/2011 | A18154 | 189 | 05018 | Planting - Establishment | 07/25/2011 | 20.0 | 43117 | 21690 |
| 02/10/2011 | A18154 | 189 | 05019 | Planting - Establishment | 07/25/2011 | 41.0 | 43117 | 46455 |
| 09/24/2009 | A18154 | 189 | 05020 | Planting - Establishment | 07/25/2011 | 160.0 | 48555 | 27090 |
| 09/24/2009 | A18154 | 189 | 05020 | Planting - Establishment | 07/25/2011 | 160.0 | 43117 | 20590 |
| 09/24/2009 | A18154 | 189 | 05020 | Planting - Establishment | 07/25/2011 | 160.0 | 43116 | 26730 |
| 09/24/2009 | A18154 | 189 | 05020 | Planting - Establishment | 07/25/2011 | 160.0 | 48555 | 28695 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 09/24/2009 | A18154 | 189 | 05020 | Planting - Establishment | 07/25/2011 | 262.0 | 60455 | 229305 |
| 01/20/2007 | A18154 | 172 | 06012 | Planting - Establishment | 07/25/2011 | 53.0 | 60455 | 19380 |
| 01/20/2007 | A18154 | 172 | 06012 | Planting - Establishment | 07/25/2011 | 53.0 | 43117 | 40890 |
| 01/20/2011 | A18154 | 731 | 06022 | Planting - Establishment | 07/25/2011 | 51.0 | 31310 | 32190 |
| 01/20/2011 | A18154 | 731 | 06022 | Planting - Establishment | 07/25/2011 | 51.0 | 43117 | 32730 |
| 08/08/2010 | A18154 | 223 | 09005 | Planting - Establishment | 07/25/2011 | 19.0 | 31310 | 12555 |
| 08/08/2010 | A18154 | 223 | 09005 | Planting - Establishment | 07/25/2011 | 19.0 | 43117 | 12900 |
| 06/08/2010 | A18154 | 222 | 09006 | Planting - Establishment | 07/25/2011 | 16.0 | 43117 | 9150 |
| 06/08/2010 | A18154 | 222 | 09006 | Planting - Establishment | 07/25/2011 | 34.0 | 48555 | 39435 |
| 06/08/2010 | A18154 | 222 | 09006 | Planting - Establishment | 07/25/2011 | 40.0 | 31310 | 23415 |
| 06/08/2010 | A18154 | 222 | 09006 | Planting - Establishment | 07/25/2011 | 24.0 | 43116 | 13125 |
| 07/18/2010 | A59959 | 229 | 09007 | Planting - Establishment | 07/25/2011 | 46.0 | 31310 | 67485 |
| 01/13/2011 | A59959 | 231 | 09009 | Planting - Establishment | 07/25/2011 | 30.0 | 43116 | 25035 |
| 01/13/2011 | A59959 | 231 | 09009 | Planting - Establishment | 06/21/2011 | 18.0 | 60455 | 17085 |
| 01/13/2011 | A59959 | 231 | 09009 | Planting - Establishment | 07/25/2011 | 30.0 | 60455 | 9840 |
| 01/25/2011 | A59959 | 231 | 09011 | Planting - Establishment | 06/21/2011 | 2.0 | 60455 | 2310 |
| 10/23/2009 | A18154 | 907 | 09025 | Planting - Fill Plant | 06/21/2011 | 17.0 | 60455 | 19790 |
| 06/23/2010 | A18154 | 907 | 09035 | Planting - Establishment | 07/25/2011 | 46.0 | 48555 | 31470 |
| 06/23/2010 | A18154 | 907 | 09035 | Planting - Establishment | 07/25/2011 | 46.0 | 31310 | 31380 |
| 12/21/2007 | PAG12 | APR-83319 | 25001 | Planting - Fill Plant | 07/25/2011 | 2.0 | 60455 | 2110 |
| 02/01/2011 | A18154 | 245 | 45018 | Planting - Establishment | 07/25/2011 | 8.0 | 43117 | 8625 |
| 02/01/2011 | A18154 | 245 | 45019 | Planting - Establishment | 07/25/2011 | 7.0 | 43117 | 6690 |
| 07/24/2006 | A60049 | 196 | S01113 | Planting - Fill Plant | 07/25/2011 | 9.0 | 60455 | 12540 |
| 02/01/2011 | A18154 | 756 | S02007 | Planting - Establishment | 07/25/2011 | 45.0 | 31310 | 49695 |
| 01/25/2011 | A18154 | 756 | S02029 | Planting - Establishment | 07/25/2011 | 13.0 | 31310 | 7290 |
| 01/25/2011 | A18154 | 756 | S02029 | Planting - Establishment | 07/25/2011 | 13.0 | 43117 | 7260 |
| 01/25/2010 | A18154 | 756 | S02034 | Planting - Establishment | 07/25/2011 | 6.0 | 31310 | 6900 |
| 07/09/2007 | PAG12 | APR-82835 | S02053 | Planting - Fill Plant | 07/25/2011 | 13.0 | 60455 | 18300 |
| 01/20/2011 | A18154 | 360 | S03022 | Planting - Establishment | 07/25/2011 | 18.0 | 31310 | 20535 |
| 02/08/2010 | A60049 | 246 | S09067 | Planting - Establishment | 06/21/2011 | 15.0 | 60455 | 15270 |
| 09/20/2007 | A60049 | 241 | S09081 | Planting - Fill Plant | 06/21/2011 | 15.0 | 60455 | 19830 |
| 11/17/2010 | A18154 | 909 | S09133 | Planting - Establishment | 06/21/2011 | 9.0 | 60455 | 11085 |
| 04/02/2007 | A60050 | 367 | S10035 | Planting - Fill Plant | 07/25/2011 | 9.0 | 60455 | 12750 |
| 01/31/2008 | PAG12 | APR-83805 | S27004 | Planting - Fill Plant | 07/25/2011 | 13.0 | 60455 | 17380 |
| | | | | | **Totals** | **2,956.0** | | **1,969,830** |

## Table 42: Establishment Delay Report – Inventory Layer – Licensee Participants 2011

| Harvest Start Date | Licensee | Licence | CP | Block ID | Regen Met Date | Stratum Name | Stratum Area | Inventory Layer | Species 1 | Species 1 % | Species 2 | Species 2 % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2/4/2008 | LP | A60049 | 715 | 01010 | 9/2/2011 | a | 27.30 | I | At | 90 | Act | 10 |
| 6/18/2010 | CANFOR | A18154 | 720 | 01017 | 7/25/2011 | 4 | 0.80 | I | | | | |
| 6/18/2010 | CANFOR | A18154 | 720 | 01017 | 7/25/2011 | a1 | 35.80 | I | Sx | 100 | | |
| 6/18/2010 | CANFOR | A18154 | 720 | 01017 | 7/25/2011 | a2 | 6.00 | I | Pli | 55 | Sx | 45 |
| 6/18/2010 | CANFOR | A18154 | 720 | 01017 | 7/25/2011 | b1 | 15.00 | I | Pli | 55 | Sx | 45 |
| 2/1/2008 | CANFOR | A18154 | 711 | 01057 | 5/20/2011 | a | 9.38 | I | At | 100 | | |
| 12/30/2008 | TEMBEC | A60972 | 724 | 01073 | 10/1/2011 | b11 | 21.70 | I | At | 100 | | |
| 11/1/2007 | CANFOR | PAG12 | APR-83367 | 02013 | 4/1/2011 | a | 17.50 | I | At | 100 | | |
| 7/22/2008 | CANFOR | PAG12 | APR-83869 | 02014 | 4/21/2011 | a | 87.10 | I | At | 100 | | |
| 8/21/2007 | CANFOR | PAG12 | APR-82371 | 02015 | 10/1/2011 | a1 | 92.90 | I | At | 90 | Act | 10 |
| 8/21/2007 | CANFOR | PAG12 | APR-82371 | 02015 | 10/1/2011 | b1 | 8.00 | I | At | 100 | | |
| 12/15/2009 | CRL | A18154 | 901 | 02018 | 9/1/2011 | a2 | 32.38 | I | Sx | 100 | | |
| 10/14/2008 | CANFOR | PAG12 | APR-83922 | 02048 | 5/26/2011 | a | 37.50 | I | At | 95 | Act | 5 |
| 3/9/2011 | TEMBEC | A60972 | 752 | 02049 | 6/6/2011 | a1 | 23.90 | I | Sx | 100 | | |
| 11/25/2010 | TEMBEC | A60972 | 752 | 02057 | 7/25/2011 | a1 | 45.30 | I | Pli | 50 | Sx | 50 |
| 11/25/2010 | TEMBEC | A60972 | 752 | 02057 | 7/25/2011 | b1 | 10.10 | I | Pli | 50 | Sx | 50 |
| 1/29/2008 | CANFOR | PAG12 | APR-83921 | 02067 | 5/18/2011 | a | 177.80 | I | At | 100 | | |
| 9/28/2009 | TEMBEC | A60972 | 909 | 02082 | 6/25/2011 | a1 | 77.09 | I | Sx | 100 | | |
| 9/28/2009 | TEMBEC | A60972 | 909 | 02082 | 6/25/2011 | a2 | 5.15 | I | Pli | 100 | | |
| 9/28/2009 | TEMBEC | A60972 | 909 | 02082 | 6/25/2011 | a3 | 9.31 | I | Pli | 100 | | |
| 8/16/2010 | CRL | A18154 | 901 | 02086 | 6/15/2011 | a1 | 43.76 | I | Sx | 100 | | |
| 8/16/2010 | CRL | A18154 | 901 | 02086 | 6/15/2011 | a2 | 5.07 | I | Sx | 100 | | |
| 10/31/2010 | CANFOR | A18154 | 360 | 03065 | 7/25/2011 | a1 | 207.58 | I | Pli | 54 | Sx | 46 |
| 10/12/2010 | CANFOR | A18154 | 360 | 03066 | 7/25/2011 | a1 | 55.00 | I | Pli | 100 | | |
| 1/19/2011 | CANFOR | A18154 | 360 | 03067 | 7/25/2011 | a1 | 49.70 | I | Sx | 100 | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/1/2011 | CANFOR | A18154 | 360 | 03068 | 7/25/2011 | a1 | 22.80 | I | Sx | 100 | | |
| 1/22/2011 | CANFOR | A18154 | 376 | 03080 | 7/25/2011 | a1 | 15.20 | I | Pli | 100 | | |
| 2/1/2011 | CANFOR | A18154 | 360 | 03081 | 7/25/2011 | a1 | 26.90 | I | Sx | 100 | | |
| 1/22/2011 | CANFOR | A18154 | 376 | 03084 | 7/25/2011 | a1 | 5.60 | I | Pli | 100 | | |
| 12/1/2010 | CANFOR | A18154 | 905 | 04058 | 7/25/2011 | a | 12.10 | I | Sx | 56 | Pli | 44 |
| 12/1/2010 | CANFOR | A18154 | 905 | 04058 | 7/25/2011 | b | 18.90 | I | Sx | 56 | Pli | 44 |
| 11/20/2010 | CANFOR | A18154 | 905 | 04061 | 7/25/2011 | a1 | 15.00 | I | Sx | 63 | Pli | 37 |
| 11/20/2010 | CANFOR | A18154 | 905 | 04061 | 7/25/2011 | b1 | 14.60 | I | Sx | 63 | Pli | 37 |
| 7/9/2007 | LP | A60050 | 702 | 05001 | 7/25/2011 | a1 | 21.25 | I | Sx | 100 | | |
| 7/9/2007 | LP | A60050 | 702 | 05001 | 7/25/2011 | b1 | 11.60 | I | Sx | 100 | | |
| 2/10/2011 | | A18154 | 189 | 05019 | 7/25/2011 | a | 41.20 | I | Pli | 100 | | |
| 9/24/2009 | | A18154 | 189 | 05020 | 7/1/2011 | A1 | 72.83 | I | Sx | 54 | Pli | 46 |
| 9/24/2009 | | A18154 | 189 | 05020 | 7/1/2011 | A2 | 87.83 | I | Sx | 100 | | |
| 9/24/2009 | | A18154 | 189 | 05020 | 7/1/2011 | B1 | 90.84 | I | Sx | 54 | Pli | 46 |
| 9/24/2009 | | A18154 | 189 | 05020 | 7/1/2011 | B2 | 10.40 | I | Sx | 100 | | |
| 1/20/2007 | CANFOR | A18154 | 172 | 06012 | 7/25/2011 | aa | 48.01 | I | Pli | 68 | Sx | 32 |
| 1/20/2007 | CANFOR | A18154 | 172 | 06012 | 7/25/2011 | bb | 2.00 | I | Pli | 68 | Sx | 32 |
| 1/20/2011 | CANFOR | A18154 | 731 | 06022 | 7/25/2011 | a1 | 50.60 | I | Pli | 50 | Sx | 50 |
| 8/8/2010 | CANFOR | A18154 | 223 | 09005 | 7/25/2011 | a | 19.20 | I | Pli | 51 | Sx | 49 |
| 6/8/2010 | CANFOR | A18154 | 222 | 09006 | 7/25/2011 | a | 16.30 | I | Sx | 51 | Pli | 49 |
| 6/8/2010 | CANFOR | A18154 | 222 | 09006 | 7/25/2011 | a1 | 17.80 | I | Pli | 100 | | |
| 6/8/2010 | CANFOR | A18154 | 222 | 09006 | 7/25/2011 | aa | 24.00 | I | Sx | 52 | Pli | 48 |
| 6/8/2010 | CANFOR | A18154 | 222 | 09006 | 7/25/2011 | b2 | 15.70 | I | Pli | 100 | | |
| 7/18/2010 | CRL | A59959 | 229 | 09007 | 7/25/2011 | a1 | 44.70 | I | Sx | 100 | | |
| 1/13/2011 | CRL | A59959 | 231 | 09009 | 7/25/2011 | a1 | 30.60 | I | Pli | 72 | Sx | 28 |
| 1/13/2011 | CRL | A59959 | 231 | 09009 | 6/21/2011 | a2 | 18.00 | I | Sx | 100 | | |
| 1/25/2011 | CRL | A59959 | 231 | 09011 | 9/30/2011 | a1 | 2.10 | I | Sx | 100 | | |
| 7/25/2008 | LP | A60049 | 241 | 09020 | 5/27/2011 | a | 63.50 | I | At | 85 | Act | 15 |
| 10/23/2009 | CANFOR | A18154 | 907 | 09025 | 9/27/2011 | a1 | 16.80 | I | Sx | 100 | | |
| 6/23/2010 | CANFOR | A18154 | 907 | 09035 | 7/25/2011 | a1 | 44.20 | I | Pli | 50 | Sx | 50 |
| 6/23/2010 | CANFOR | A18154 | 907 | 09035 | 7/25/2011 | b1 | 1.50 | I | Pli | 50 | Sx | 50 |
| 12/21/2007 | CANFOR | PAG12 | APR-83319 | 25001 | 7/25/2011 | b1 | 1.90 | I | Sx | 100 | | |
| 2/1/2011 | CANFOR | A18154 | 245 | 45018 | 7/25/2011 | a | 7.60 | I | Pli | 100 | | |
| 2/1/2011 | CANFOR | A18154 | 245 | 45019 | 7/25/2011 | a1 | 6.50 | I | Pli | 100 | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/24/2006 | LP | A60049 | 196 | S01113 | 7/25/2011 | aa | 9.09 | I | Sx | 100 | | |
| 2/1/2011 | TEMBEC | A18154 | 756 | S02007 | 7/25/2011 | a | 39.10 | I | Sx | 100 | | |
| 9/23/2008 | CANFOR | PAG12 | APR-83411 | S02008 | 5/20/2011 | a | 4.60 | I | At | 100 | | |
| 2/26/2008 | CANFOR | PAG12 | APR-83869 | S02024 | 5/2/2011 | a | 77.80 | I | At | 100 | | |
| 3/13/2008 | CANFOR | PAG12 | APR-83869 | S02027 | 5/2/2011 | a | 65.90 | I | At | 95 | Act | 5 |
| 1/25/2011 | TEMBEC | A18154 | 756 | S02029 | 7/25/2011 | a1 | 9.37 | I | Pli | 50 | Sx | 50 |
| 1/25/2010 | TEMBEC | A18154 | 756 | S02034 | 7/25/2011 | a | 6.10 | I | Sx | 100 | | |
| 7/9/2007 | CANFOR | PAG12 | APR-82835 | S02053 | 7/25/2011 | a-fp | 13.42 | I | Sx | 100 | | |
| 11/1/2008 | CANFOR | PAG12 | APR-84979 | S02061 | 5/18/2011 | A | 280.80 | I | At | 95 | Act | 5 |
| 9/15/2008 | CANFOR | PAG12 | APR-84028 | S02063 | 5/18/2011 | a | 20.80 | I | At | 100 | | |
| 1/20/2011 | CANFOR | A18154 | 360 | S03022 | 7/25/2011 | a1 | 17.50 | I | Sx | 100 | | |
| 7/2/2008 | LP | A60049 | 199 | S04033 | 11/9/2011 | a1 | 621.20 | I | At | 100 | | |
| 10/16/2008 | CANFOR | PAG12 | APR-84842 | S25068 | 5/19/2011 | a | 21.44 | I | At | 100 | | |
| 1/31/2008 | CANFOR | PAG12 | APR-83805 | S27004 | 7/25/2011 | bb | 12.60 | I | Sx | 100 | | |

**Table 43: BCTS establishment delay calculation for reporting period of April 1, 2011 to March 31, 2012**

| **Conifer** | | | | | |
|---|---|---|---|---|---|
| **Harvest Start Date** | **Net Area to be Reforested (NAR)** | **Cutblock #** | **TSL** | **# of days from harvest start through reporting period of March 31, 2012** | **# days * NAR** |
| 2010-02-18 | 9.9 | 1 | A63402 | 773 | 7668.16 |
| 2012-02-01 | 14.4 | 4039 | A66536 | 60 | 864 |
| 2012-01-05 | 18.0 | 03059 | A76782 | 87 | 1566 |
| 2012-01-05 | 20.1 | 03059 | A76782 | 87 | 1746.96 |
| 2012-01-06 | 21.2 | 03060 | A76782 | 86 | 1823.2 |
| 2012-01-06 | 4.9 | 03060 | A76782 | 86 | 421.4 |
| 2012-01-06 | 3.4 | 03060 | A76782 | 86 | 292.4 |
| 2011-12-08 | 29.3 | 03063 | A76783 | 115 | 3369.5 |
| 2011-12-08 | 2.3 | 03063 | A76783 | 115 | 264.5 |
| 2011-12-09 | 31.4 | 03064 | A76783 | 114 | 3579.6 |
| 2011-12-09 | 16.3 | 03064 | A76783 | 114 | 1858.2 |
| 2012-01-05 | 101.2 | 03050 | A76784 | 87 | 8804.4 |
| 2012-01-05 | 17.4 | 03050 | A76784 | 87 | 1513.8 |
| 2012-02-21 | 15.7 | 03051 | A76784 | 40 | 628 |
| 2012-02-10 | 26.0 | 03052 | A76784 | 51 | 1326 |
| 2012-02-11 | 4.3 | 03052 | A76784 | 51 | 219.3 |
| 2008-12-05 | 64.4 | 01035 | A76788 | 1,213 | 78117.2 |
| 2008-11-24 | 56.0 | 01039 | A76789 | 1,224 | 68544 |
| 2009-01-26 | 52.4 | 01040 | A76789 | 1,161 | 60836.4 |
| 2007-11-13 | 68.9 | 41003 | A76792 | 1,601 | 110308.9 |
| 2007-11-13 | 9.8 | 41003 | A76792 | 1,601 | 15689.8 |
| 2011-03-10 | 78.4 | 18002 | A82094 | 388 | 30419.2 |
| 2010-11-10 | 61.3 | 18008 | A82096 | 508 | 31140.4 |
| 2011-11-28 | 39.4 | 29018 | A82097 | 125 | 4925 |
| 2009-12-15 | 70.1 | 01042 | A82098 | 838 | 58752.18 |
| 2009-12-15 | 43.5 | 01045 | A82098 | 838 | 36411.1 |
| 2011-12-28 | 24.1 | 18006 | A89520 | 95 | 2289.5 |
| Totals | 904.1 | | | 11,631 | 533379.1 |
| | | Weighted number of days | | | 589.982 |
| | | Weighted number of years | | | 1.63 |
| **Deciduous** | | | | | |
| **Harvest Start Date** | **Net Area to be Reforested (NAR)** | **Cutblock #** | **TSL** | **# of days from harvest start through reporting period of March 31, 2011** | **# days * NAR** |
| 2009-11-16 | 116.1 | 1 | A66554 | 867 | 100639.9 |
| 2009-11-16 | 30.6 | 04045 | A84642 | 867 | 26545.46 |
| 2011-01-10 | 110.5 | 01082 | A63400 | 447 | 49393.5 |

| | | | | | |
|---|---|---|---|---|---|
| 2010-11-22 | 53.3 | 01084 | A63400 | 496 | 26436.8 |
| 2010-02-18 | 9.6 | 01027 | A63402 | 773 | 7397.61 |
| 2010-02-18 | 4.4 | 1 | A63402 | 773 | 3432.12 |
| 2011-03-07 | 64.4 | 01083 | A63433 | 391 | 3741.87 |
| 2012-02-01 | 27.3 | 04039 | A66536 | 60 | 266.4 |
| 2010-11-10 | 94.8 | 1 | A66539 | 508 | 2255.52 |
| 2010-11-10 | 6.2 | 1 | A66539 | 508 | 32715.2 |
| 2008-11-14 | 53.7 | 1 | A66542 | 1,234 | 66265.8 |
| 2010-02-18 | 123.9 | 2 | A66542 | 773 | 95751.51 |
| 2010-02-01 | 114.5 | 3 | A66542 | 790 | 90447.1 |
| 2010-01-12 | 33.4 | 1 | A66547 | 810 | 27078.3 |
| 2009-11-17 | 77.5 | 1 | A66550 | 866 | 67080.36 |
| 2012-02-10 | 14.8 | 03052 | A76784 | 51 | 754.8 |
| 2007-11-30 | 18.2 | 29012 | A80054 | 1,584 | 28828.8 |
| 2011-02-17 | 78.9 | 18001 | A82094 | 409 | 32270.1 |
| 2011-03-10 | 43.5 | 18002 | A80094 | 388 | 16878 |
| 2011-01-03 | 62.3 | 18003 | A82096 | 454 | 28284.2 |
| 2011-01-10 | 42.0 | 18004 | A82096 | 447 | 18774 |
| 2009-12-15 | 18.1 | 01042 | A82098 | 838 | 15176.18 |
| 2012-02-03 | 63.0 | 05011 | A87359 | 58 | 3654 |
| 2012-02-20 | 72.6 | 1 | A87359 | 41 | 2976.6 |
| 2011-12-28 | 39.4 | 18006 | A89520 | 95 | 3743 |
| Totals | 1373 | | | 14,528 | 750787.1 |
| | | | | | |
| | | Weighted number of days | | | 546.836 |
| | | Weighted number of years | | | 1.5 |

**Mixedwood**

| Harvest Start Date | Net Area to be Reforested (NAR) | Cutblock # | TSL | # of days from harvest start through reporting period of March 31, 2011 | # days * NAR |
|---|---|---|---|---|---|
| 2012-03-14 | 15.6 | 02278 | A89117 | 18 | 280.8 |
| 2012-03-23 | 17.1 | 04062 | A89117 | 9 | 153.9 |
| 2012-02-02 | 14.2 | 43081 | A89248 | 59 | 837.8 |
| 2012-02-02 | 4.4 | 43081 | A89248 | 59 | 259.6 |
| Totals | 51.3 | | | 145 | 1532.1 |
| | | Weighted number of days | | | 29.8655 |
| | | Weighted number of years | | | 0.1 |

**Table 44: Licensee Participants establishment delay calculation for reporting period of April 1, 2011 to March 31, 2012**

| Conifer | | | | | |
|---|---|---|---|---|---|
| Harvest Start Date | Net Area to be Reforested (NAR) | Block ID | Licence | # of days from harvest start through reporting period of March 31, 2012 | # days * NAR |
| 12/21/2007 | 64.1 | 01055 | A18154 | 1562 | 100124.2 |
| 03/28/2012 | 125.0 | 01021 | A18154 | 3 | 375.0 |
| 07/04/2011 | 40.9 | 01023 | A18154 | 271 | 11083.9 |
| 08/11/2011 | 48.5 | 04224 | A18154 | 233 | 11300.5 |
| 08/06/2011 | 42.2 | 04230 | A18154 | 238 | 10043.6 |
| 08/06/2011 | 15.2 | 04230 | A18154 | 238 | 3617.6 |
| 01/07/2011 | 5.0 | 02083 | A18154 | 449 | 2245.0 |
| 01/25/2011 | 18.5 | S02016 | A18154 | 431 | 7973.5 |
| 01/20/2011 | 6.4 | S02021 | A18154 | 436 | 2790.4 |
| 10/01/2010 | 90.3 | 01031 | A18154 | 547 | 49394.1 |
| 10/01/2010 | 118.0 | 01031 | A18154 | 547 | 64546.0 |
| 11/08/2010 | 112.0 | S01048 | A18154 | 509 | 57008.0 |
| 02/21/2011 | 23.9 | 02008 | A18154 | 404 | 9655.6 |
| 02/21/2011 | 7.9 | 02008 | A18154 | 404 | 3191.6 |
| 02/10/2011 | 16.1 | 02010 | A18154 | 415 | 6681.5 |
| 02/10/2011 | 13.7 | 02010 | A18154 | 415 | 5685.5 |
| 08/18/2011 | 28.5 | 04228 | A18154 | 226 | 6441.0 |
| 10/12/2011 | 6.4 | 01153 | A18154 | 171 | 1094.4 |
| 10/05/2011 | 10.5 | 01154 | A18154 | 178 | 1869.0 |
| 10/05/2011 | 4.7 | 01154 | A18154 | 178 | 836.6 |
| 10/07/2011 | 5.0 | 01155 | A18154 | 176 | 880.0 |
| 10/20/2011 | 5.4 | 01156 | A18154 | 163 | 880.2 |
| 10/20/2011 | 6.7 | 01156 | A18154 | 163 | 1092.1 |
| 09/26/2011 | 32.4 | S01047 | A18154 | 187 | 6058.8 |
| 08/15/2011 | 31.1 | 02060 | A18154 | 229 | 7121.9 |
| 10/13/2011 | 61.9 | 01015 | A18154 | 170 | 10523.0 |
| 10/13/2011 | 12.7 | 01015 | A18154 | 170 | 2159.0 |
| 09/10/2011 | 6.0 | 02061 | A18154 | 203 | 1218.0 |
| 08/27/2011 | 10.0 | 04225 | A18154 | 217 | 2170.0 |
| 09/01/2011 | 29.1 | 04226 | A18154 | 212 | 6169.2 |
| 12/05/2011 | 10.0 | 02245 | A18154 | 117 | 1170.0 |
| 11/29/2011 | 6.9 | 02028 | A18154 | 123 | 848.7 |
| 03/06/2012 | 3.1 | 01025 | A18154 | 25 | 77.5 |
| 12/01/2011 | 38.3 | 01043 | A18154 | 121 | 4634.3 |
| 03/08/2012 | 12.3 | 01024 | A18154 | 23 | 282.9 |
| 11/01/2011 | 4.8 | S02026 | A18154 | 151 | 724.8 |

| | | | | | |
|---|---|---|---|---|---|
| 01/02/2012 | 6.0 | 01201 | A18154 | 89 | 534.0 |
| 01/01/2012 | 25.9 | 01019 | A18154 | 90 | 2331.0 |
| 01/01/2012 | 62.3 | 01019 | A18154 | 90 | 5607.0 |
| 11/26/2011 | 103.1 | S01264 | A18154 | 126 | 12990.6 |
| 12/14/2011 | 65.5 | 02081 | A18154 | 108 | 7074.0 |
| 02/13/2012 | 15.7 | 03109 | A18154 | 47 | 737.9 |
| 02/13/2012 | 16.2 | 03109 | A18154 | 47 | 761.4 |
| 03/01/2012 | 99.1 | 01149 | A18154 | 30 | 2973.0 |
| 12/15/2009 | 62.6 | 02018 | A18154 | 837 | 52396.2 |
| 10/10/2011 | 7.0 | 05002 | A18154 | 173 | 1211.0 |
| 10/10/2011 | 85.1 | 05002 | A18154 | 173 | 14722.3 |
| 10/23/2011 | 12.4 | 05021 | A18154 | 160 | 1984.0 |
| 11/20/2010 | 38.4 | 04061 | A18154 | 497 | 19084.8 |
| 11/23/2011 | 35.1 | 02011 | A18154 | 129 | 4527.9 |
| 11/23/2011 | 13.7 | 02011 | A18154 | 129 | 1767.3 |
| 11/22/2011 | 24.6 | 02016 | A18154 | 130 | 3198.0 |
| 11/15/2011 | 13.8 | 02101 | A18154 | 137 | 1890.6 |
| 06/23/2010 | 124.4 | 09035 | A18154 | 647 | 80486.8 |
| 06/23/2010 | 18.3 | 09035 | A18154 | 647 | 11840.1 |
| 11/17/2010 | 49.3 | S09133 | A18154 | 500 | 24650.0 |
| 08/31/2011 | 34.1 | 09019 | A18154 | 213 | 7263.3 |
| 11/30/2011 | 5.1 | 09105 | A18154 | 122 | 622.2 |
| 11/15/2011 | 64.6 | 05007 | A18154 | 137 | 8850.2 |
| 11/16/2011 | 71.7 | 05008 | A18154 | 136 | 9751.2 |
| 12/22/2011 | 100.6 | 05009 | A18154 | 100 | 10060.0 |
| 12/22/2011 | 80.5 | 05009 | A18154 | 100 | 8050.0 |
| 02/01/2012 | 57.8 | 05132 | A18154 | 59 | 3410.2 |
| 09/01/2010 | 100.4 | 05006 | A18154 | 577 | 57930.8 |
| 09/01/2010 | 2.8 | 05006 | A18154 | 577 | 1615.6 |
| 07/18/2010 | 59.2 | 09007 | A59959 | 622 | 36822.4 |
| 07/18/2010 | 3.0 | 09007 | A59959 | 622 | 1866.0 |
| 08/15/2010 | 8.0 | 09010 | A59959 | 594 | 4752.0 |
| 01/25/2011 | 4.4 | 09011 | A59959 | 431 | 1896.4 |
| 01/25/2012 | 8.5 | 25002 | A59959 | 66 | 561.0 |
| 02/08/2012 | 50.0 | 25005 | A59959 | 52 | 2600.0 |
| 10/05/2011 | 35.9 | 01106 | A59959 | 178 | 6390.2 |
| 10/05/2011 | 10.8 | 01107 | A59959 | 178 | 1922.4 |
| 01/26/2012 | 27.8 | 01134 | A59959 | 65 | 1807.0 |
| 01/26/2012 | 7.2 | 01134 | A59959 | 65 | 468.0 |
| 02/13/2012 | 4.5 | 01135 | A59959 | 47 | 211.5 |
| 02/13/2012 | 11.2 | 01135 | A59959 | 47 | 526.4 |
| 02/07/2012 | 26.8 | 18010 | A59959 | 53 | 1420.4 |
| 02/09/2012 | 10.6 | 18011 | A59959 | 51 | 540.6 |
| 02/12/2012 | 9.2 | 18012 | A59959 | 48 | 441.6 |
| 03/02/2012 | 43.6 | 01172 | A59959 | 29 | 1264.4 |
| 02/27/2012 | 57.1 | 01005 | A59959 | 33 | 1884.3 |
| 02/27/2012 | 58.9 | 01005 | A59959 | 33 | 1943.7 |
| 03/09/2012 | 32.4 | 01171 | A59959 | 22 | 712.8 |

| | | | | | |
|---|---|---|---|---|---|
| 03/17/2012 | 67.3 | 01003 | A59959 | 14 | 942.2 |
| 03/17/2012 | 30.5 | 01003 | A59959 | 14 | 427.0 |
| 03/17/2012 | 0.4 | 01287 | A59959 | 14 | 5.6 |
| 03/19/2012 | 9.8 | 01288 | A59959 | 12 | 117.6 |
| 02/19/2007 | 13.4 | S09104 | A60049 | 1867 | 25017.8 |
| 01/21/2010 | 15.0 | 09027 | A60049 | 800 | 12000.0 |
| 02/08/2010 | 20.0 | S09067 | A60049 | 782 | 15640.0 |
| 11/20/2010 | 3.3 | S43022 | A60050 | 497 | 1640.1 |
| 12/11/2007 | 64.2 | S45043 | A60050 | 1572 | 100922.4 |
| 07/20/2010 | 22.2 | 01074 | A60972 | 620 | 13764.0 |
| 07/02/2010 | 111.3 | 02070 | A60972 | 638 | 71009.4 |
| 07/02/2010 | 15.4 | 02070 | A60972 | 638 | 9825.2 |
| 07/29/2011 | 30.7 | 02058 | A60972 | 246 | 7552.2 |
| 10/01/2011 | 14.8 | 02069 | A60972 | 182 | 2693.6 |
| 09/28/2009 | 101.3 | 02082 | A60972 | 915 | 92689.5 |
| 09/28/2009 | 20.7 | 02082 | A60972 | 915 | 18940.5 |
| 01/06/2009 | 38.8 | S18016 | PAG12 | 1180 | 45784.0 |
| 01/31/2008 | 42.0 | S27004 | PAG12 | 1521 | 63882.0 |
| 11/25/2008 | 19.0 | 02064 | PAG12 | 1222 | 23218.0 |
| 02/23/2011 | 21.0 | S02035 | PAG12 | 402 | 8442.0 |
| 08/04/2010 | 21.4 | S02037 | PAG12 | 605 | 12947.0 |
| 09/21/2011 | 12.6 | 02042 | PAG12 | 192 | 2419.2 |
| 11/15/2011 | 19.2 | 02243 | PAG12 | 137 | 2630.4 |
| 11/15/2011 | 10.7 | 02244 | PAG12 | 137 | 1465.9 |
| 12/15/2011 | 16.3 | 02160 | PAG12 | 107 | 1744.1 |
| Totals | 3,680.0 | | | 35577 | 1364039.6 |
| | | Weighted number of days | | | 370.6629 |
| | | Weighted number of years | | | 1.015515 |

**Deciduous**

| Harvest Start Date | Net Area to be Reforested (NAR) | Block ID | Licence | # of days from harvest start through reporting period of March 31, 2012 | # days * NAR |
|---|---|---|---|---|---|
| 12/21/2007 | 18.6 | 01055 | A18154 | 1562 | 29053.2 |
| 12/06/2007 | 3.4 | 01064 | A18154 | 1577 | 5361.8 |
| 10/11/2011 | 44.0 | 01020 | A18154 | 172 | 7568.0 |
| 07/04/2011 | 43.3 | 01023 | A18154 | 271 | 11734.3 |
| 10/13/2011 | 16.9 | 01015 | A18154 | 170 | 2873.0 |
| 12/05/2011 | 33.7 | 02246 | A18154 | 117 | 3942.9 |
| 12/09/2011 | 33.0 | 02161 | A18154 | 113 | 3729.0 |
| 11/22/2011 | 19.1 | 02016 | A18154 | 130 | 2483.0 |
| 10/30/2011 | 64.1 | S02025 | A18154 | 153 | 9807.3 |
| 02/08/2012 | 15.5 | 25005 | A59959 | 52 | 806.0 |
| 10/03/2006 | 6.2 | 04031 | A60049 | 2006 | 12437.2 |
| 07/02/2008 | 943.4 | S04033 | A60049 | 1368 | 1290571.2 |

| | | | | | |
|---|---|---|---|---|---|
| 11/08/2010 | 21.2 | 04036 | A60049 | 509 | 10790.8 |
| 11/07/2007 | 58.7 | S09036 | A60049 | 1606 | 94272.2 |
| 12/15/2006 | 9.3 | S45028 | A60049 | 1933 | 17976.9 |
| 02/02/2007 | 24.2 | S09068 | A60049 | 1884 | 45592.8 |
| 09/20/2007 | 73.2 | S09081 | A60049 | 1654 | 121072.8 |
| 09/20/2007 | 2.9 | S09081 | A60049 | 1654 | 4796.6 |
| 01/21/2010 | 45.0 | 09027 | A60049 | 800 | 36000.0 |
| 02/08/2010 | 59.5 | S09067 | A60049 | 782 | 46529.0 |
| 01/05/2011 | 4.3 | S09157 | A60049 | 451 | 1939.3 |
| 01/05/2011 | 1.0 | S09159 | A60049 | 451 | 451.0 |
| 01/05/2011 | 6.2 | S09160 | A60049 | 451 | 2796.2 |
| 01/05/2011 | 4.8 | S09161 | A60049 | 451 | 2164.8 |
| 01/05/2011 | 4.3 | S09162 | A60049 | 451 | 1939.3 |
| 01/05/2011 | 2.7 | S09165 | A60049 | 451 | 1217.7 |
| 11/30/2009 | 76.1 | 09014 | A60049 | 852 | 64837.2 |
| 07/01/2011 | 95.8 | 09018 | A60049 | 274 | 26249.2 |
| 06/09/2011 | 54.2 | 09104 | A60049 | 296 | 16043.2 |
| 10/05/2011 | 11.2 | S09114 | A60049 | 178 | 1993.6 |
| 07/25/2011 | 149.9 | S10025 | A60049 | 250 | 37475.0 |
| 07/25/2011 | 22.0 | S10025 | A60049 | 250 | 5500.0 |
| 01/07/2008 | 38.7 | 01022 | A60049 | 1545 | 59791.5 |
| 03/03/2008 | 11.0 | S01038 | A60049 | 1489 | 16379.0 |
| 02/22/2010 | 86.1 | S01071 | A60049 | 768 | 66124.8 |
| 07/20/2009 | 333.2 | S01277 | A60049 | 985 | 328202.0 |
| 03/12/2011 | 8.8 | S03042 | A60049 | 385 | 3388.0 |
| 03/06/2011 | 23.6 | S03043 | A60049 | 391 | 9227.6 |
| 02/20/2011 | 36.2 | S03044 | A60049 | 405 | 14661.0 |
| 03/01/2011 | 11.8 | S03045 | A60049 | 396 | 4672.8 |
| 08/31/2011 | 34.2 | S06124 | A60049 | 213 | 7284.6 |
| 10/01/2011 | 16.3 | S06125 | A60049 | 182 | 2966.6 |
| 08/18/2011 | 25.5 | S06141 | A60049 | 226 | 5763.0 |
| 02/17/2012 | 80.4 | S01023 | A60049 | 43 | 3457.2 |
| 03/06/2012 | 13.8 | S01049 | A60049 | 25 | 345.0 |
| 11/05/2011 | 23.9 | S01050 | A60049 | 147 | 3513.3 |
| 10/09/2011 | 18.7 | 01105 | A60049 | 174 | 3253.8 |
| 02/13/2012 | 9.9 | 01136 | A60049 | 47 | 465.3 |
| 03/24/2012 | 23.6 | 01150 | A60049 | 7 | 165.2 |
| 12/07/2005 | 84.0 | S05008 | A60050 | 2306 | 193704.0 |
| 11/20/2010 | 168.5 | S43022 | A60050 | 497 | 83744.5 |
| 02/01/2011 | 83.6 | S43025 | A60050 | 424 | 35446.4 |
| 04/02/2007 | 112.3 | S10035 | A60050 | 1825 | 204947.5 |
| 11/08/2010 | 146.7 | S26003 | A60050 | 509 | 74670.3 |
| 01/20/2011 | 89.4 | S26007 | A60050 | 436 | 38978.4 |
| 12/14/2010 | 100.3 | S26012 | A60050 | 473 | 47441.9 |
| 08/01/2011 | 16.5 | S01251 | A60050 | 243 | 4009.5 |
| 08/18/2008 | 369.6 | S01256 | A60050 | 1321 | 488241.6 |
| 07/20/2010 | 10.1 | 01074 | A60972 | 620 | 6262.0 |
| 11/25/2010 | 79.2 | 02059 | A60972 | 492 | 38966.4 |

| | | | | | |
|---|---|---|---|---|---|
| 10/12/2007 | 26.2 | 02017 | PAG12 | 1632 | 42758.4 |
| 01/25/2011 | 5.0 | S03038 | PAG12 | 431 | 2155.0 |
| 01/20/2011 | 33.0 | S03066 | PAG12 | 436 | 14388.0 |
| 11/05/2007 | 131.8 | S25006 | PAG12 | 1608 | 211934.4 |
| 01/06/2009 | 57.1 | S18016 | PAG12 | 1180 | 67378.0 |
| 04/01/2008 | 31.4 | 27001 | PAG12 | 1460 | 45844.0 |
| 02/22/2011 | 16.5 | S27002 | PAG12 | 403 | 6649.5 |
| 01/31/2008 | 78.2 | S27004 | PAG12 | 1521 | 118942.2 |
| 11/11/2008 | 24.1 | 02046 | PAG12 | 1236 | 29787.6 |
| 03/13/2008 | 75.7 | S02027 | PAG12 | 1479 | 111960.3 |
| 12/06/2008 | 31.2 | S18031 | PAG12 | 1211 | 37783.2 |
| 10/02/2008 | 43.1 | S03001 | PAG12 | 1276 | 54995.6 |
| 10/29/2008 | 58.4 | S25011 | PAG12 | 1249 | 72941.6 |
| 09/27/2011 | 37.7 | 02068 | PAG12 | 186 | 7012.2 |
| 11/20/2011 | 9.0 | S29016 | PAG12 | 132 | 1188.0 |
| 11/16/2011 | 13.2 | S29017 | PAG12 | 136 | 1795.2 |
| 02/01/2010 | 13.3 | S29018 | PAG12 | 789 | 10493.7 |
| 02/01/2010 | 20.7 | S29019 | PAG12 | 789 | 16332.3 |
| 11/26/2008 | 5.6 | S03002 | PAG12 | 1221 | 6837.6 |
| 12/01/2008 | 9.0 | S03005 | PAG12 | 1216 | 10944.0 |
| 01/20/2012 | 9.2 | S03110 | PAG12 | 71 | 653.2 |
| 10/13/2010 | 1.3 | 25004 | PAG12 | 535 | 695.5 |
| 10/10/2010 | 14.4 | S25013 | PAG12 | 538 | 7747.2 |
| 10/13/2010 | 4.2 | S25014 | PAG12 | 535 | 2247.0 |
| 10/13/2010 | 8.2 | S25015 | PAG12 | 535 | 4387.0 |
| 01/12/2010 | 28.8 | S02069 | PAG12 | 809 | 23299.2 |
| 01/12/2010 | 21.7 | S02070 | PAG12 | 809 | 17555.3 |
| 11/18/2009 | 80.7 | S02071 | PAG12 | 864 | 69724.8 |
| 01/18/2010 | 130.0 | S26005 | PAG12 | 803 | 104390.0 |
| 12/07/2009 | 83.2 | S26009 | PAG12 | 845 | 70304.0 |
| 03/20/2010 | 31.2 | 02043 | PAG12 | 742 | 23150.4 |
| 02/02/2010 | 53.7 | 02019 | PAG12 | 788 | 42315.6 |
| 01/04/2010 | 78.6 | 02020 | PAG12 | 817 | 64216.2 |
| 02/15/2010 | 9.0 | 02036 | PAG12 | 775 | 6975.0 |
| 02/16/2010 | 5.5 | 02038 | PAG12 | 774 | 4257.0 |
| 01/25/2010 | 50.8 | S02089 | PAG12 | 796 | 40436.8 |
| 09/10/2010 | 5.6 | S02091 | PAG12 | 568 | 3180.8 |
| 02/03/2010 | 6.7 | S02092 | PAG12 | 787 | 5272.9 |
| 02/05/2010 | 2.6 | S02093 | PAG12 | 785 | 2041.0 |
| 05/07/2011 | 210.0 | 18007 | PAG12 | 329 | 69090.0 |
| 11/14/2011 | 11.9 | S29007 | PAG12 | 138 | 1642.2 |
| 11/16/2011 | 4.2 | S29013 | PAG12 | 136 | 571.2 |
| 12/16/2010 | 59.5 | S02032 | PAG12 | 471 | 28024.5 |
| 01/20/2011 | 51.0 | S02033 | PAG12 | 436 | 22236.0 |
| 02/23/2011 | 36.9 | S02035 | PAG12 | 402 | 14833.8 |
| 08/04/2010 | 200.7 | S02037 | PAG12 | 605 | 121423.5 |
| 01/13/2011 | 21.9 | S02039 | PAG12 | 443 | 9701.7 |

| | | | | | |
|---|---|---|---|---|---|
| 10/05/2010 | 20.5 | 03069 | PAG12 | 543 | 11131.5 |
| 01/01/2012 | 23.6 | S03023 | PAG12 | 90 | 2124.0 |
| 01/18/2012 | 56.9 | S03024 | PAG12 | 73 | 4153.7 |
| 03/01/2011 | 13.9 | S03025 | PAG12 | 396 | 5504.4 |
| 02/14/2012 | 11.7 | S03026 | PAG12 | 46 | 538.2 |
| 01/02/2012 | 9.5 | S03028 | PAG12 | 89 | 845.5 |
| 02/16/2012 | 7.6 | S03027 | PAG12 | 44 | 334.4 |
| 02/24/2012 | 8.1 | S03030 | PAG12 | 36 | 291.6 |
| 02/24/2012 | 8.2 | S03040 | PAG12 | 36 | 295.2 |
| 02/16/2012 | 1.6 | S03046 | PAG12 | 44 | 70.4 |
| 01/03/2011 | 8.0 | S02010 | PAG12 | 453 | 3624.0 |
| 01/03/2011 | 37.1 | S02011 | PAG12 | 453 | 16806.3 |
| 01/22/2011 | 14.2 | S02018 | PAG12 | 434 | 6162.8 |
| 09/20/2011 | 8.3 | S02077 | PAG12 | 193 | 1601.9 |
| 09/06/2011 | 5.3 | S02078 | PAG12 | 207 | 1097.1 |
| 09/16/2011 | 8.4 | S02079 | PAG12 | 197 | 1654.8 |
| 08/15/2011 | 57.7 | S29014 | PAG12 | 229 | 13213.3 |
| 09/10/2011 | 26.4 | S29021 | PAG12 | 203 | 5359.2 |
| 12/06/2011 | 41.6 | S02023 | PAG12 | 116 | 4825.6 |
| 11/01/2011 | 22.8 | 01186 | PAG12 | 151 | 3442.8 |
| 11/08/2011 | 28.2 | 01205 | PAG12 | 144 | 4060.8 |
| 10/24/2011 | 54.6 | 01206 | PAG12 | 159 | 8681.4 |
| 10/28/2011 | 122.9 | S26001 | PAG12 | 155 | 19049.5 |
| 12/23/2011 | 16.2 | S26018 | PAG12 | 99 | 1603.8 |
| 12/07/2011 | 22.6 | S26021 | PAG12 | 115 | 2599.0 |
| 01/11/2012 | 6.3 | S26022 | PAG12 | 80 | 504.0 |
| 12/15/2011 | 64.4 | 02160 | PAG12 | 107 | 6890.8 |
| 11/20/2011 | 30.4 | 02103 | PAG12 | 132 | 4012.8 |
| 01/11/2012 | 28.5 | 26021 | PAG12 | 80 | 2280.0 |
| 01/03/2012 | 16.2 | 26022 | PAG12 | 88 | 1425.6 |
| 03/06/2012 | 11.8 | S18015 | PAG12 | 25 | 295.0 |
| Totals | 6,758.8 | | | 80837 | 5433050 |
| | | Weighted number of days | | | 803.8483 |
| | | Weighted number of years | | | 2.202324 |

**Mixedwood**

| Harvest Start Date | Net Area to be Reforested (NAR) | Block ID | Licence | # of days from harvest start through reporting period of March 31, 2012 | # days * NAR |
|---|---|---|---|---|---|
| 02/01/2011 | 12.2 | S02007 | A18154 | 424 | 5172.8 |
| 01/25/2011 | 5.0 | S02029 | A18154 | 431 | 2155.0 |
| 08/16/2010 | 19.8 | 02086 | A18154 | 593 | 11741.4 |
| 01/03/2011 | 11.2 | 09036 | A18154 | 453 | 5073.6 |
| 11/17/2010 | 39.1 | S09133 | A18154 | 500 | 19550.0 |
| 02/19/2007 | 7.9 | S09104 | A60049 | 1867 | 14749.3 |
| 01/07/2012 | 29.8 | S09166 | A60049 | 84 | 2503.2 |

| | | | | | |
|---|---|---|---|---|---|
| 01/07/2012 | 64.0 | S09166 | A60049 | 84 | 5376.0 |
| 12/15/2006 | 24.4 | S45028 | A60049 | 1933 | 47165.2 |
| 12/15/2006 | 8.6 | S45028 | A60049 | 1933 | 16623.8 |
| 12/15/2006 | 5.3 | S45028 | A60049 | 1933 | 10244.9 |
| 02/02/2007 | 42.2 | S09068 | A60049 | 1884 | 79504.8 |
| 09/20/2007 | 23.7 | S09081 | A60049 | 1654 | 39199.8 |
| 01/20/2011 | 10.0 | 02047 | PAG12 | 436 | 4360.0 |
| | 303.2 | | | 14209 | 263420 |
| | | Weighted number of days | | | 868.7988 |
| | | Weighted number of years | | | 2.380271 |

# Appendix 6: Compliance

## Table 45: Contraventions Reported to Agencies - April 1, 2011- March 31, 2012

| Incident ID | Occurrence Date | Tenure | Location | Date Reported | Agency | Status | Issue Description |
|---|---|---|---|---|---|---|---|
| ITS-FSJ-2011-0161 | Feb 1, 2011 | A59959, | Fort St. John TSA | June 10, 2011 | MFLNRO | Closed | **Trespass**<br>Block 09011 was harvested in Jan-Feb 2011. Trespass was identified in snow free conditions in June 2011. A narrow finger containing scattered aspen and alder extends into 09011. A previously harvested block, S09104 iscommon boundary to 09011 except for a 0.1 ha section at the end of the narrow finger in 09011.<br>The feller-buncher operator crossed boundary and walked the machine through an alder patch in the 0.1 ha section that is between 09011 and S09104.<br><br>MFLNRO sent a compliance notice with no further actions required. No penalties were issued by MFLNRO. |
| ITS-FSJ-2011-0162, | August 2011 | Blocks: 21001, 08045, 626004, 618001, S27004, 14003, 03022, 03032, 03030, 01055, 09003, 16006, 27010, 27011, 01068, 01064, 06010, 05001, S09081, | Fort St. John TSA | Feb 9, 2012 | MOE | Closed | **Herbicide application outside planned area**<br><br>Herbicide overspray incidents from August 2010 that were discovered during a brushing program block review audit completed in June 2011. These non-compliances were officially reported to the MOE on Feb. 9, 2012.<br><br>Minor off target herbicide applications into non treatment zones occurred on 11 bocks. Off target herbicide applications out of the block boundary, into non treatment areas within the block or into wildlife tree patches (WTP) occurred on 12 blocks.<br><br>The MOE has taken no compliance and enforcement action to date. No penalties were issued by MOE. |

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| | | 03021, 04015, 24006 | | | | | |
| ITS-FSJ-2011-0174 | August 23, 2011 | S06141 | Gundy Road | August 26, 2011 | MFLNRO | Closed | **Trespass**<br>Boundary ribbons in field not consistent with authorized block boundary location resulted in buncher trespass outside of the authorized block boundary.<br><br>The boundary ribbons in the field were GPS'd and mapped. Boundary marking was very visible and clear to follow, however, approximately 0.25 ha of crown land was ribboned into the block that was shown as outside block on the logging plan map.<br><br>The trespass was reported to MFLNRO on Aug 26, 2011. MFLNRO walked the incident area with Canfor. MFLNRO did not issue a compliance notice. To date of preparation of this report MFLNRO has not taken any enforcement or punitive action. No penalties were issued by MFLNRO. |
| ITS-FSJ2011-0424 | Aug 29, 2011 | Block 02008 | South Blueberry | Nov 17, 2011 | MFLNRO | Closed | **Trespass**<br>Boundary ribbons in the field were not consistent with the mapped authorized block boundary location, which resulted in the buncher trespassing outside of the authorized block boundary.<br><br>The trespass was reported to MFLNRO on Nov 17, 2011. MFLNRO did not issue a compliance notice. To date of preparation of this report MFLNRO has not taken any enforcement or punitive action. No penalties were issued by MFLNRO. |
| ITS-FSJ-2012-0482 | Dec 6, 2011 | PA 12 Bk S02023 | Wonowon | Dec 12, 2011 | MFLNRO | Closed | **Trespass**<br><br>A buncher operator did not receive a bush orientation from his supervisor and made a mistake reading the block map. The operator crossed into and completed some bunching of |

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| | | | | | | | timber within the wildlife tree patch of adjacent block 02245. Approximately 0.4 ha was harvested outside of authorized block S02023.<br><br>The incident was reported to MFLNRO C&E on Dec 12, 2011. MFLNRO did not issue a compliance notice. To date of preparation of this report MFLNRO has not taken any enforcement or punitive action. No penalties were issued by MFLNRO. |
| ITS-TPL-2012-0097 | 2011-09-04 | A66555 | BR10TDB001 YR3 / A66555 | Not reported to date of preparation of annual report, will be reported when investigation is completed. | Ministry of Environment | Open Investigation not complete. Investigation to be completed by September 30, 2012. | **Herbicide application outside planned area**<br><br>During the herbicide treatment efficacy review completed on June 26, 2012 it was noted that an area had been sprayed outside of the prescribed area, but still within the block. The area is approximately 0.2 hectares. No streams or sensitive area were affected.<br><br>***The over spray occurred during the 2011 reporting period and was discovered outside of the reporting period. Table 45 will be updated in the 2012 annual report regarding this issue.*** |
| ITS-TPL-2012-0071 | 2011-10-31 | 2011 MSQ Population A48305-1 A32914-1 A52286-2 A52286-1 A32922-1 A48186-1 A48294-1 A49553-1 A49431-1 A49431-2 A54678B-B | FSJ TSA # 40 A48305-1 A32914-1 | 2011-12-14 | MFLNRO C&E | Closed | **Reforestation assessment**<br><br>During the 2011 field season, a contract to complete the MSQ surveys(contract SU12TDF001) for BCTS was tendered and awarded. There were 11 blocks in this population that encompassed a survey area of just under 500 ha. The contractor completed the field collection of the data during the months of August and September. A sample of three draft maps and copies of the field cards were supplied to our contractor coordinator for checking purposes during the course of the field work. The sample work supplied was checked and the |

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| | | | | | | | contract coordinator indicated that he was satisfied with the work quality. He also did not make any specific reference to these blocks having any potential brushing issues and he felt confident that the blocks were indeed well growing. The contractor submitted the final deliverables on November 15 including final maps, reports, and all of the required data entered in the compiler spreadsheet. Upon uploading the data into the MSQ compiler the first time there were validation errors identified by the compiler. The validation system in the compiler is quite specific so it is almost expected that there will be initial errors, so the compiler spreadsheet was returned to the contractor to make corrections. When the corrected compiler spreadsheet was returned to BCTS, staff took a closer look at the data and began to discrepancies. Upon examining the average MSQ per block, it was evident that the numbers were not as high as experienced in recent years. The contractor confirmed that there were areas on two or three blocks that had brush issues which were affecting well growing numbers. Based on the potential well growing numbers, it was evident that there was sufficient stocking present, but needed to be released through further treatment. The key point now was that no assumption could yet be made as to whether the population would pass or fail until the data had been entered in the MSQ compiler. The compiler results indicated that the population had indeed failed to achieve the minimum target value. The predicted merchantable volume was 234,935m3 and the target volume was 248,468m3 which results in a 94.6 percentage. This is less than the 95% variance level required.<br><br>Plans implemented to aerially broadcast |

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| | | | | | | | herbicide two of the blocks in the population in 2012. The two blocks chosen will contribute the greatest increase in MSQ value following the treatment. Thus this should also result in the greatest increase in predicted merchantable volume when the data is recompiled and should allow the population of blocks to exceed the 95% variance level.<br>A letter was sent to the District Manager identifying an action plan to deal with the situation. |