

Prince George

Sustainable Forest Management Plan



2007/08 Annual Report



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1.0 Introduction

This is the third Annual Report of the Prince George Sustainable Forest Management Plan. It covers the reporting period of April 1, 2007 to March 31, 2008. The Sustainable Forest Management Plan (SFMP) is a result of the combined efforts of four major licensees and British Columbia Timber Sales (BCTS) to achieve and maintain Canadian Standards Association (CSA) certification to the CSA Z809-02 standard. The signatories to the plan are:

1. BC Timber Sales, Prince George Business Area
2. Canadian Forest Products Ltd., Prince George Operations
3. Carrier Lumber Ltd.
4. Lakeland Mills Ltd.
5. Winton Global Lumber Ltd.

The CSA Standard provides SFM specifications that include public participation, performance, and system requirements that must be met to achieve certification. These specifications were the framework for the development of the Prince George SFMP. Each Licensee and BCTS has existing management systems that contribute to the overall SFM strategy. These may include existing management systems such as ISO 14001 Environmental Management Systems, standard operating procedures, and internal policies.

One of the public participation strategies suggested in the CSA SFM Standard is the formation of a local group of interested and affected members of the public to provide input on an ongoing basis. This strategy provides the base for the formation of a Public Advisory Group (PAG) whose purpose is to achieve CSA standard's public participation requirements. The Licensees/ BCTS established a PAG in the fall of 2004 to assist with the development of the SFMP. A wide range of public sector interest groups, from within the Prince George Forest District, were invited to participate in the SFM process through the PAG. In all, fifty members of the public including First Nation peoples attended at least one PAG meeting and/or received the agenda and minutes for each PAG meeting. After completing the Terms of Reference in December 2004, the PAG established the SFMP Criteria and Elements Performance Matrix with the SFMP being completed in September of 2005. It is important to note, the Prince George SFMP is a working document and is subject to continual improvement. Over time, the document will incorporate new knowledge, experience and research in order to recognize society's environmental, economic and social values.

This Annual Report measures the signatory's performance in meeting the indicator targets outlined in the SFMP over the Prince George Defined Forest Area (DFA). The DFA is the Crown Forest land base within the Prince George Forest District and the traditional operating areas of the signatory licensees and BCTS, excluding woodlots, Parks, Protected Areas and private land. The intent of this Annual Report is to have sustainable forest management viewed by the public as an open, evolving process that is taking steps to meet the challenge of managing the forests of the Prince George DFA for the benefit of present and future generations.

The following Table summarizes the results for the current reporting period. For clarification of the intent of the indicators, objectives or the management practices involved, the reader should refer to the Prince George Sustainable Forest Management Plan Document.

1.1 List of Acronyms

Below is a list of common acronyms used throughout this annual report. For those wishing a more comprehensive list should consult the Prince George Sustainable Forest Management Plan.

BCTS – BC Timber Sales
BEC – Biogeoclimatic Ecosystem Classification
CSA – Canadian Standards Association
CE & VOIT- Criterion, Element & Value Objective Indicator Target
DFA – Defined Forest Area
MoFR – Ministry of Forest and Range
NDU – Natural Disturbance Unit
PAG – Public Advisory Group

PG – Prince George
 PG TSA – Prince George Timber Supply Area
 SAR – Species at Risk
 SFM – Sustainable Forest management
 SFMP – Sustainable Forest management Plan

1.2 Executive Summary

Since last years annual report some indicators have been changed or dropped and some new ones added. The indicating numbering system has been changed. These changes are noted in Table 1. Of the 50 unique indicators listed in Table 1. 37 indicators were met within the prescribed variances and 9 indicators were not met within the prescribed variances. 4 are still pending. Indicators 56,57,& 58 will be reported on in the 2008/09 annual report. A corrective and preventative action plan is contained in the indicator discussions for each non-conformance indicator.

Table 1: Summary of Indicator Status, April 1, 2007 to March 31, 2008.

Indicator Number	CSA CE& VOIT references	Revisions to indicator	Indicator Description	Target Met	Pending	Target Not Met
1	1.1A.a, 2.1A.a	Added quality report	Old forest by Natural Disturbance Unit	X		
2	1.1A.a, 2.1A.a	None	Old interior forest	X		
3	1.1A.a, 2.1A.a	None	Young patch size distribution	X		
4	1.1A.a, 1.3.A.a, 2.2.A.a	None	Landscape level biodiversity reserves	X		
5	1.1A.a, 1.3.A.b	None	Stand level retention – average and minimum			X
6	1.1A.a, 2.1A.a	None	Wet Trench and Wet Mountain young patch size	X		
7	1.1.A.a	None	Coarse Woody Debris Levels	X		
8	1.2.A.a, 2.2.A.a	None	Species Diversity and Ecosystem Productivity: <ul style="list-style-type: none"> ▪ Caribou UWR ▪ Mule deer UWR ▪ SAR notices ▪ Riparian reserves 			X
9	1.2.A.a	Deleted	Personal trained to identify species at risk			
10	1.2.A.a	Deleted	Develop SAR & management strategies			
11	1.2.A.a	Deleted	Forest Operations and SAR management strategies			
12	1.2.A.a	Deleted	Site Plan review for species at risk.			
13	1.2.A.a	Deleted	Site Plans with identified species at risk			
14	1.3.A.b	None	Chief Foresters Standards for Seed Use			X
15	1.4.A.A	Deleted	Sites of Biological Significance			
16	1.4.A.a	Deleted	Sites of Biological Significance Management Strategies			
17	1.4.A.a	Deleted	Sites of Biological Significance Management Strategies implementation			
18	1.4.B.a	None	Harvesting within landscape level reserves.	X		
19	2.1.A.a	None	Areas planted consistent with operational plans	X		
20	3.1.A.a	None	Soil conservation standards	X		
21	3.1.A.a, 4.2.A.a	None	Cutblock area occupied by permanent access structures	X		
22	3.1.A.a	None	Terrain management	X		
23	3.1.A.a	None	Legally reportable spills			X
24	3.2.A.a	None	Riparian area conservation			X
25	3.2.A.a	None	Stream crossing management	X		

Indicator Number	CSA CE& VOIT references	Revisions to indicator	Indicator Description	Target Met	Pending	Target Not Met
26	3.2.A.a	None	Mitigating sedimentation	X		
27	3.2.A.a	None	Maintain of natural stream flow	X		
28	3.2.A.a, 4.1.A.a, 5.1.A.a	None	Forest Continuity	X		
29	3.2.A.a	Deleted	Peak Flow Index Calculation			
30	4.1.A.a	None	Free Growing requirements			X
31	4.1.A.a, 5.1.A.a	None	Stand Damaging agents	X		
32	4.2.A.a	None	Forest Land conversion	X		
33	5.1.A.a	None	Cut level volumes	X		
34	5.1.A.a	None	Forestry related industry fires	X		
35	5.1.A.b	None	Non-Timber Benefits: <ul style="list-style-type: none"> ▪ Visuals ▪ Cultural Heritage ▪ Range ▪ Riparian (Indicator 24) ▪ Recreation ▪ Lakeshore 			X
36	5.1.A.b	None	First Order wood products	X		
37	5.1.A.b, 5.2.A.a	None	Volume advertised through competitive bid			X
38	5.1.A.b	None	Public and Stakeholder input	X		
39	5.1.A.c	New objective	Viewing of access plans, operational plans and SFMPs	X		
40	5.1.A.c	New objective added access inquiry info	Response to written public inquiries			X
41	5.1.A.c	New objective	Communication Strategies	X		
42	5.2.A.a	None	Support of North Central Interior suppliers and contractors	X		
43	5.3.A.a	None	Payment of taxes	X		
44	5.3.A.a	None	Stumpage paid to Government	X		
45	5.3.A.a	None	Lost time accidents	X		
46	6.1.A.a	None	Legally recognized treaty areas	X		
47	6.1.A.a	None	FSP referral to First Nations	X		
48	6.1.A.a	None	PMP Referrals to First Nation	X		
49	6.2.A.a	None	Cultural heritage requirements	X		
50	6.2.A.a	None	Heritage conservation Act	X		
51	6.3.A.a	None	PAG satisfaction with public participation	X		
52	6.3.A.a	None	PAG Terms of Reference	X		
53	6.3.A.a	None	Number of PAG meetings	X		
54	6.3.A.a	None	Public sector participation in the PAG	X		
55	6.4.A.a	None	PAG satisfaction with information presented for decision making	X		
56	3.2.A.a	New	Active watershed risk evaluation		X	
57	3.2.A.a	New	Watersheds assessed by qualified professional		X	
58	3.2.A.a	New	Operations consistent with professional watershed recommendations		X	
59	1.2.A.a, 1.4.A.a	New	Compliance with Species at Risk and Sites of Biological Importance management strategies		X	
Totals				37	4	9

1.3 SFM Performance Reporting

This annual report will describe the success of the licensees and BCTS in meeting the indicator targets over the DFA. The report will be available to the public and will allow for full disclosure of forest management activities, successes, and failures. Each signatory to the SFMP has reported individual performance within their traditional operating areas as well as performance that contributes to shared indicators and targets across the plan area. Each signatory to the plan is committed to work together to fulfill the PG SFMP commitments including data collection and monitoring, participation in public processes, producing public reports, and continuous improvement.

Non-replaceable Forest License A70174

Within the BCTS traditional operating area, Carrier Lumber Ltd. operates under a non-replaceable forest license (FLA70174). Carrier Lumber Ltd. and BCTS have shared management responsibilities for developing and harvesting blocks on this license. BCTS and Carrier Lumber are committed to work together and co-operate to fulfill and achieve the SFMP objectives on this license.

2.0 SFM Indicators, Targets and Strategies

Indicator 1. (1.1.A.a / 2.1.A.a) Old Forest by Natural Disturbance Unit

Indicator Statement	Target and Variance
The amount of old forest by NDU/merged BEC within the DFA	Target: As per the "Landscape Biodiversity Objectives for the PG TSA" Variance: 0%

This indicator is intended to quantify, at a point in time, the amount of landscape occupied by "old forests". Maintenance of old forest stands is crucial to forest management for the conservation of landscape ecosystem biodiversity. The Mountain Pine Beetle epidemic presents its own challenges, as older pine leading stands are the most susceptible to infestation.

The Landscape Objective Working Group (LOWG), which has representation from the Ministry of Agriculture and Lands - Integrated Land Management Bureau (ILMB), MoFR (Ministry of Forest and Range) and timber licensees has developed Landscape Biodiversity Objectives and Old Forest Retention requirements for the Prince George Timber Supply Area (PG TSA), which includes the Prince George Forest District. The current status of old forest within the DFA is shown in Table 2 below.

In March of 2008 the Licensee LOWG proceeded with the 2008 analysis using both Forest Cover and the newest Vegetative Resource Inventory (VRI) data. The new VRI (projected to Jan 1, 2007) utilized in this analysis is the same data set to be used in the Timber Supply Review IV for the Prince George Timber Supply Area. The Crown Forest Land Base defined in previous years analysis was used (this changed from 2.204 million ha to 2.189 million ha), though the area of old forest results from Forest Cover to VRI are noted to be slightly different. In 2009, the CFLB will be reassessed using the TSR IV methodology and the targets, results and trends should be closely reassessed.

Table 2: Old Forest by Natural Disturbance Unit Merged BEC

Natural Disturbance Unit (NDU)	NDU / Merged BEC ¹	Total CFLB (ha)	OLD Forest Target		Current Status using VRI as of March 31, 2008			
			%	Hectares	% of CFLB	Hectares	Surplus / Deficit	Licensee Action
Boreal Foothills	A1	7,254	33%	2,394	76%	5,542	3,148	Watch
McGregor	A2	10,351	26%	2,691	57%	5,881	3,190	Watch
McGregor	A3	70,562	12%	8,613	40%	28,554	20,087	No Action
McGregor	A4	215,342	26%	57,007	30%	65,406	9,417	No Action
Moist Interior	A5	12,397	29%	3,595	39%	4,893	1,298	Watch
Moist Interior	A6	16,418	29%	4,761	46%	7,615	2,854	Watch

¹ See Appendix 1 for BEC description and NDU / Merged BEC Maps

Moist Interior	A7	5,576	17%	1,008	42%	2,346	1,398	Watch
Moist Interior	A8	9,146	12%	1,097	37%	3,429	2,331	Watch
Moist Interior	A9	33,025	12%	4,013	17%	5,692	1,730	Watch
Moist Interior	A10	38,771	17%	6,645	37%	14,511	7,920	No Action
Moist Interior	A11	126,969	12%	15,428	26%	33,441	18,204	No Action
Moist Interior	A12	176,300	12%	21,484	26%	46,383	25,227	No Action
Moist Interior	A13	367,379	12%	44,471	32%	116,247	72,162	No Action
Wet Mountain	A14	154,030	50%	77,005	89%	137,134	60,119	No Action
Wet Mountain	A15	27,832	84%	23,379	92%	25,655	2,276	Watch
Wet Mountain	A16	33,909	26%	8,818	44%	15,057	6,241	No Action
Wet Mountain	A17	114,681	50%	57,337	72%	82,394	25,053	No Action
Wet Trench	A18	33,993	80%	27,198	91%	30,801	3,606	Watch
Wet Trench	A19	65,021	48%	31,205	86%	56,172	24,962	No Action
Wet Trench	A20	98,726	80%	78,970	91%	89,490	10,509	No Action
Wet Trench	A21	114,759	48%	55,081	60%	68,938	13,854	No Action
Wet Trench	A22	27,156	53%	14,403	65%	17,614	3,221	Watch
Wet Trench	A23	145,471	53%	77,200	62%	90,807	13,707	No Action
Wet Trench	A24	131,754	30%	39,541	30%	38,917	(609)	Approved Recruitment Strategy in place
Wet Trench	A25	152,189	46%	70,242	48%	72,733	2,726	Watch
Totals		2,189,014		731,022		1,065,652	334,629	

Indicator Discussion: All NDU/Merged BEC units with the exception of A24, have a surplus of old forest. 12 units have a Licensee Action of "Watch" which is defined as having a surplus of between 1000 and 5000 hectares. Licensees planning new development in any of these 12 units will need to closely watch the proposed development impacts to Old Forest. This action will ensure forest development planning and operations meet the intent of the Landscape Biodiversity Order in the PG TSA

A24 is currently in deficit in old forest amounts by 609 hectares. A24 currently has a recruitment strategy developed by licensees and approved by government. With an approved recruitment strategy in place for A24 and all other unit in surplus of old forest, this indicator meets the target.

Old Forest Quality Strategy

At the time of producing this annual report the 2008 LOWG analysis had just become available. As such licensees and BCTS were unable to overlay with the old forest quality resultant in time for including the result with this report. In January 2009 a presentation will be made to the PAG highlighting the current old forest quality results.

Indicator 2. (1.1.A.a.ii | 2.1.A.a.ii) Old Interior Forest

Indicator Statement	Target and Variance
The amount of old interior forest by NDU/ merged BEC within the DFA.	Target: As per the "Landscape Biodiversity Objectives for the PG TSA" Variance: 0%

Old interior forest conditions are achieved when the impact of adjacent openings no longer influences environmental conditions within the stand. Many species are dependent upon old interior forest conditions to meet their habitat requirements.

The LOWG, which has representation from ILMB, MoFR and timber licensees, aided ILMB in the development of landscape biodiversity objectives for old interior forest conditions for the Northern Interior Forest Region, which included the Prince George DFA. Old interior forest retention objectives have been established for each Natural Disturbance Unit (NDU) that occurs within the Prince George DFA.

The current status of the old interior forest retention objectives within the DFA is shown in Table 3 below. As noted in Indicator 1, the results for 2008 are using VRI.

Table 3: Old Interior Forest by Natural Disturbance Unit merged BEC

Natural Disturbance Unit (NDU)	NDU / Merged BEC	Old Forest Threshold (ha)	Interior OLD Forest Threshold		Current Status VRI as of March 31, 2008			
			%	Hectares	%	Hectares	Surplus / Deficit	Licensee Action
Boreal Foothills	A1	2,394	40%	958	223%	5,337	4,379	Watch
McGregor	A2	2,691	40%	1,076	179%	4,815	3,739	Watch
McGregor	A3	8,467	25%	2,153	129%	10,915	8,798	No Action
McGregor	A4	55,989	10%	5,701	52%	28,992	23,393	No Action
Moist Interior	A5	3,595	40%	1,438	78%	2,813	1,375	Watch
Moist Interior	A6	4,761	40%	1,904	93%	4,424	2,519	Watch
Moist Interior	A7	948	10%	101	172%	1,631	1,536	Watch
Moist Interior	A8	1,097	25%	274	160%	1,752	1,477	Watch
Moist Interior	A9	3,963	10%	401	62%	2,456	2,060	Watch
Moist Interior	A10	6,591	25%	1,661	114%	7,510	5,862	No Action
Moist Interior	A11	15,236	25%	3,857	81%	12,296	8,487	No Action
Moist Interior	A12	21,156	10%	2,148	109%	23,063	20,948	No Action
Moist Interior	A13	44,085	25%	11,118	124%	54,601	43,580	No Action
Wet Mountain	A14	77,015	40%	30,802	164%	125,997	95,191	No Action
Wet Mountain	A15	23,379	40%	9,352	101%	23,701	14,349	No Action
Wet Mountain	A16	8,816	25%	2,204	109%	9,612	7,408	No Action
Wet Mountain	A17	57,341	25%	14,334	103%	59,150	44,815	No Action
Wet Trench	A18	27,195	40%	10,879	103%	27,916	17,038	No Action
Wet Trench	A19	31,210	40%	12,482	158%	49,212	36,728	No Action
Wet Trench	A20	78,981	40%	31,588	101%	79,847	48,255	No Action
Wet Trench	A21	55,084	40%	22,033	88%	48,402	26,368	No Action
Wet Trench	A22	14,393	40%	5,761	70%	10,071	4,313	Watch
Wet Trench	A23	77,100	40%	30,880	83%	64,225	33,385	No Action
Wet Trench	A24	39,526	10%	3,954	40%	15,663	11,711	No Action
Wet Trench	A25	70,007	25%	17,561	61%	42,832	25,330	No Action
Totals		731,022				717,233	493,045	

Indicator Discussion: See Indicator #1 discussion.

As shown in the table above, all units have a surplus of interior old forest as of March 31, 2008. With all units in surplus of interior old forest, this indicator meets the target. Eight units have a Licensee action of "Watch" as defined above in the Indicator 1 Discussion.

Indicator 3. (1.1A.a | 2.1.A.a) Young Patch Size Distribution

Indicator Statement	Target and Variance
The young forest patch size distribution by NDU within the DFA	<u>Target:</u> As per the "Landscape Biodiversity Objectives for the PG TSA" <u>Variance:</u> +/- 15%

A patch is a forest unit with identifiable boundaries and vegetation different from its surroundings. Often patches are even aged forests established from natural disturbances such as fire, wind or pest outbreaks, or harvesting. Natural disturbances maintain plant and animal diversity over time and space by creating structural complexity within stands, and by influencing the size distribution, edge characteristics, and dispersion of stands across the landscape (Zackrisson, 1977).

Table 4 shows the updated current status of young patch size distribution as of March 31, 2005.

Table 4: Young Patch Distribution

PATCH SIZE	Current Status as of March 31, 2005					Future Patch Size Trending
	< 50	50-100	100 - 1000	> 1000	Total	
Moist Interior Plateau Target	5%	5%	20%	70%	100%	Trend towards larger blocks in order to reduce the percentage of smaller blocks.
PG (ha)	7,059	8,845	13,675	69,602	99,181	
PG (%)	7.1%	8.9%	13.8%	70.2%	100.0%	
Moist Interior Mtn Target	40%	30%	10%	20%	100%	Trend towards smaller blocks in order to reduce the percentage of larger blocks.
PG (ha)	359	1,238	2,035	1,643	5,275	
PG (%)	6.8%	23.5%	38.6%	31.2%	100.0%	
McGregor Plateau Target	10%	5%	45%	40%	100%	Trend towards the midsized blocks.
PG (ha)	5,411	11,952	19,818	28,538	65,719	
PG (%)	8.2%	18.2%	30.2%	43.4%	100.0%	
Wet Trench Valley Target	20%	10%	60%	10%	100%	Trend towards the smallest and mid-sized blocks and away from the largest blocks.
PG (ha)	7,215	12,823	28,925	71,308	120,271	
PG (%)	6.0%	10.7%	24.0%	59.3%	100.0%	
Wet Trench Mtn Target	20%	10%	60%	10%	100%	Trend towards the smallest and mid-sized blocks and away from the largest blocks.
8463)PG (ha)	2,106	6,183	6,197	34,470	48,956	
PG (%)	4.3%	12.6%	12.7%	70.4%	100.0%	
Wet Mtn Target	20%	10%	60%	10%	100%	Trend towards the smallest and mid-sized blocks and away from the largest blocks.
PG (ha)	3,063	6,513	13,103	5,584	28,262	
PG (%)	10.8%	23.0%	46.4%	19.8%	100.0%	

Indicator Discussion: As harvesting continues, it is anticipated that the distribution of patches will mimic the natural range of patch size distribution. While current trends will take most patch size distributions toward targets, others will be further from achieving objectives due to previous harvesting patterns and the effects of the massive infestation of mountain pine bark beetle. This indicator has a five-year measurement criterion as established in the PG TSA LOWG Reporting Protocol. The next reporting date is scheduled for the spring of 2010.

Indicator 4. (1.1.A.a | 1.3.A.a | 2.2.A.a) Landscape Level Biodiversity Reserves

Indicator Statement	Target and Variance
The amount of landscape level biodiversity reserves within the DFA	<u>Target:</u> Hectares set aside to maintain natural forest conditions across DFA as per the latest Prince George Timber Supply Review <u>Variance:</u> -1%

There are two levels of Biodiversity Reserves: **stand level**, which includes mapped wildlife tree patches and riparian reserve areas, and **landscape level**, which includes provincial parks and all other large reserve areas that are removed from the timber harvesting land base. This indicator illustrates the amount of productive forest put into landscape level biodiversity reserves. The Government of BC currently classifies landscape level retention through higher level and strategic planning initiatives. Some examples of this include Crown Land Plans and the Parks and Protected Areas Strategy.

The current status is shown for the operating year of April 1, 2006 to March 31, 2007 in the following table and has not changed from the previous reporting period. These areas will be updated after the next Timber Supply Review, which is scheduled for sometime in 2008/09.

Table 5: The Amount of Landscape Level Biodiversity Reserves within the DFA

Landscape Reserve		Total Reserve Area in the PG District (ha)
Protected Areas & Parks		256,295
Old Growth Management Areas	Dome	31,780
	Slim	56,310
	Humbug	35,487
Herrick Old Growth Reserve		4,481
Crown Land Plan Reserves		45,324
Caribou High		94,468
Total		524,145

Source: 2001 Timber Supply Review

Indicator 5. (1.1.A.a | 1.3.A.b) Stand Level Retention

Indicator Statement	Target and Variance
The average percentage of stand level retention in harvested areas within the DFA	Target: >7% annually within the DFA, with a minimum of 3.5% by block and no maximum %. Variance: 0%

Stand level retention consists primarily of wildlife tree patches (WTP) and riparian management areas. WTP are forested patches of timber within or adjacent to a harvested cutblock while riparian management areas are associated with water features within or adjacent to the harvest cutblock. Stand retention provides a source of habitat for wildlife, sustains local genetic diversity, and protects important landscape or habitat features, such as mineral licks and raptor nesting sites. Maintenance of habitat through stand retention contributes to conservation of ecosystem diversity by conserving a variety of forest age classes, stand structure and unique features at the stand level.

Licensees and BCTS within the DFA, manage stand level retention for each cut block. Retention levels in each block is documented in the associated Site Plan, recorded in the Licensee/ BCTS database systems and reported out in RESULTS (Ministry of Forests and Range data base) on an annual basis.

The current status for average stand level retention for all cutblocks > 15ha with completed harvesting between April 1, 2007 and March 31, 2008 in the DFA is found in Table 5.

Table 6: Stand Level Retention in Harvested Areas

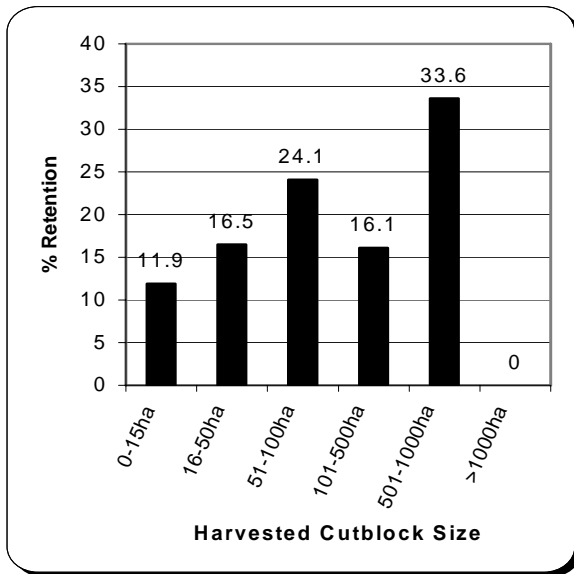
Licensee	Net Area Harvested (ha)*	Associated Total Retention (ha)	Average % Retained **	Total Number of Blocks	Blocks Achieving 3.5% Min. ***	% of Blocks Achieving 3.5% Minimum
Canfor	8,963.6	1,525.9	17.0%	101	101	100%
Winton Global	782.7	252.0	24.4%	19	19	100%
Lakeland Mills	584.1	105.4	15.3%	11	11	100%
BCTS	2703.1	608.6	18.4%	44	37	84.1%
BCTS (FLA70174)	997.4	156.4	13.6%	13	13	100%
Carrier	295.4	37.8	11.3%	2	2	100%
TOTAL	14,326	2,686	15.8%	190	183	96.3%
Target			≥7%			100.0%
Variance			0.0%			0.0%

* Only blocks >15 ha with completed harvesting measured

** Average % retention = (total reserve area with 100% retention / total reserve area with 100% retention and net area to be reforested) X 100. Does not include permanent access structures and non-productive ground or other areas not included in the productive forest.

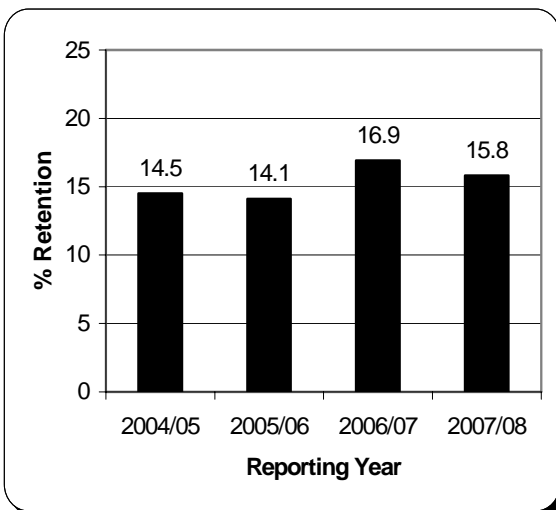
*** Number of blocks achieving the 3.5% / total number of blocks harvested

As shown in the following figure, the average % retention in harvested areas within the DFA during this reporting period is generally increasing with block size.



Indicator Discussion: BCTS

5 of the 7 blocks without retention were part of TSL A82556, that was developed solely to remove dead pine timber adjacent to local hydro and BCTEL lines to protect their infrastructure and reduce outages. This program did not allow BCTS to leave reserves to meet the objectives of BCTEL and BC Transmission Corp. The remaining 2 were part of TSL A76086. These 2 blocks were developed in 2005 and due to their small size, the prescription prescribed stand level retention as reserving Douglas Fir and Aspen trees.



The average % retention of 15.8% is within the range of the last three years.

Indicator 6. (1.1.A.a | 2.1.A.a) Wet Trench & Wet Mountain Young Patch Size Distribution

Indicator Statement	Target and Variance
Trend towards the percentage of area of patches in 101-500ha range within the Wet Trench and Wet Mountain of the young patch size distribution class 101-1000ha	Target: $\geq 75\%$ Variance: -5%

Patch size categories used in Prince George Forest District include the following: < 51 hectares, 51-100 hectares, 101-1000 hectares and > 1000 hectares. However in the higher elevation areas (Wet Trench and Wet Mountain natural disturbance units) the range of 101- 1000 hectares is too large a range to actually account for the natural disturbance ecology. Therefore the range was sub divided into 101-500 hectares and 501-1000 hectares.

Table 7 shows the updated current status of Wet Trench and Wet Mountain young patch size distribution in the as of March 31, 2005.

Table 7: Wet Trench and Wet Mountain Young Patch Size Distribution

Natural Disturbance Unit (NDU)	TARGET	Patch Size Range (ha)			Future Patch Size Trending
		101-500	501-1000	Total	
Wet Mountain					Trend towards smaller patch sizes and away from larger patch sizes.
PG (ha)		9,739	3,364	13,103	
PG (%)	≥ 75%	74.3%			
Wet Trench Mountain					Trend towards smaller patch sizes and away from larger patch sizes.
PG (ha)		3,305	2,893	6,197	
PG (%)	≥ 75%	53.3%			
Wet Trench Valley					Trend towards larger patch sizes and away from smaller patch sizes.
PG (ha)		17,889	11,036	28,925	
PG (%)	≥ 75%	61.8%			

Indicator Discussion: The LOWG that has representation for Ministry of Agriculture and Lands, MoFR, and Licensees, developed Landscape Biodiversity Objectives for patch size distribution for the 101–1000 ha size category within the PG TSA, which includes the Prince George DFA. This indicator has a five-year measurement criterion as established in the PG TSA LOWG Reporting Protocol. The next reporting date is scheduled for the spring of 2010.

Licensees will continue to share block data and work towards having ≥ 75% of area of patches in the 101-500 ha size category within the 101-1000ha young patch size range within the Wet Trench and Wet Mountain Natural Disturbance Units.

Indicator 7. (1.1.A.a) Coarse Woody Debris

Indicator Statement	Target and Variance
The percentage of cut blocks consistent with coarse woody debris requirements in operational plans.	Target: 100% Variance: 0%

Coarse woody debris (CWD) is defined as material with the following characteristics and dimensions: minimum of 2.0 meters in length and greater than 7.5 cm in diameter at one end, in all stages of decay and consists of above-ground logs, exposed roots and large fallen branches (F.P.P.R. Sec. 68. 2005). CWD is a vital component of a healthy functioning forest ecosystem, providing habitat for plants, animals and insects. It is an important source of soil nutrients and aids in soil moisture retention. Targets for CWD requirements are identified in operational plans, typically the site plan for each specific cutblock.

The Licensees and BCTS have met the target of 100% consistency with CWD requirements in operational plans for the operating period of April 1, 2007 to March 31, 2008 (Table 6). Licensees and BCTS will continue to implement pre-work checklists, interim inspections, and final reviews to ensure targets continue to be met.

Table 8: Cut Blocks Consistent with Course Woody Debris Requirements in Operational Plans

Licensee	Total Number of Blocks Harvested with CWD Strategies*	Number of Blocks Harvested Consistent with CWD Strategies	Overall %**
Canfor	101	101	100%
Winton Global	19	19	100%
Lakeland Mills	11	11	100%
BCTS	35	35	100%
BCTS (FLA70174)	11	11	100%
Carrier	2	2	100%
TOTAL	179	179	100%

* Blocks must be > 15 ha ** % = (Blocks harvested in accordance with prescribed strategies/total blocks harvested with CWD strategies) X 100

Indicator 8. (1.2.A.a / 2.2.A.a) Species Diversity and Ecosystem Productivity

Indicator Statement	Target and Variance
The percentage of forest operations consistent with approved provincial Caribou Ungulate Winter Range, Mule deer UWR, Species at risk Notice /Orders and Riparian reserve requirements as identified in operational plans	Target: 100% Variance: 0%

Caribou UWR

Mountain caribou populations are highly sensitive to disturbance and predatory pressures within their habitat. Caribou numbers are in decline due to a variety of causes. The B.C. conservation data center has placed mountain caribou on the provincial red list. All cutblocks within approved ungulate winter ranges must be consistent with the management guidelines in the approved Order for Ungulate Winter Range #U7-003. The Order prescribes specific objectives to maintain mountain caribou winter range, to provide high suitability snow interception, cover, and foraging opportunities. Site plans prepared for these areas will reflect these objectives.

During this reporting period there were no operations within caribou ungulate winter range hence the target for this measure was achieved.

Table 9: Forest Operations Consistent with Caribou Ungulate Winter Range Requirements

Licensee	Number of Forest Operations with Caribou Ungulate Winter Range (UWR) Requirements				Forest Operations Consistent with UWR Requirements	% in DFA**
	Roads	Harvesting	Silviculture*	Total		
Canfor	0	0	0	0	0	100%
Winton Global	0	0	0	0	0	
Lakeland Mills	0	0	0	0	0	
BCTS	0	0	0	0	0	
BCTS (FLA70174)	0	0	0	0	0	
Carrier	0	0	0	0	0	
TOTAL	0	0	0	0	0	

*Silviculture refers to Mechanical Site Preparation only

** % = (Operations completed in accordance with identified requirements/total operations with Caribou UWR requirements) X100

Mule Deer UWR

The mule deer is an important ungulate found in many parts of the DFA. It is dependent on suitable winter range conditions in order to survive the severe winters that often occur within the DFA. As such, mule deer were included in the Order for Ungulate Winter Ranges. An "Ungulate Winter Range" (UWR) is an area that contains habitat that is necessary to meet the winter habitat requirements of an ungulate species. As many UWR can be directly and indirectly affected by forest harvesting activities it is important that Licensees and BCTS in the Prince George DFA track the UWR locations and establish management objectives.

Areas harvested within mule deer UWR within the DFA during this reporting period are found in Table 8.

Table 10: Forest Operations consistent with Mule Deer Ungulate Winter Range Requirements

Licensee	Number of Forest Operations with Mule Deer Ungulate Winter Range (UWR) Requirements				Forest Operations Consistent with UWR Requirements	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	1	0	1	0	0
Winton Global	0	0	0	0	0	
Lakeland Mills	0	0	0	0	0	
BCTS	0	0	0	0	0	
BCTS (FLA70174)	0	0	0	0	0	
Carrier	0	0	0	0	0	
TOTAL	0	1	0	1	0	

* % = (Operation meeting identified requirements/ total operations with Mule Deer ungulate Winter Range requirements) X 100

UWR

Canfor reported that an area of 2.8 ha was harvested in the Pelican operating area encroaching on Mule Deer UWR unit PGD-041. Opening size and width criteria were met for the UWR. The age class criteria was met. The crown closure is within 1.5% of meeting the target. Approximately 170m of road was constructed in this UWR polygon which has not been permanently closed and rehabilitated. Actions will be taken to ensure that the road is permanently closed and rehabilitated.

Species at Risk Notice/Orders

This indicator is intended to monitor the consistency of forest operations with approved provincial Species at Risk Notice/Orders requirements as identified in operational plans. Being consistent with these requirements will ensure that the habitats that are required to support these Species at Risk will be maintained.

No harvesting occurred within areas with approved provincial Species at Risk Notice/ Order requirements during the reporting period of April 1, 2007 to March 31, 2008.

Table 11: Forest Operations consistent with Species at Risk Notice/ Orders Requirements

Licensee	Number of Forest Operations with Species at Risk Notice/Order (SAR) Requirements				Forest Operations Consistent with SAR Requirements	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	0	0	0	
Winton Global	0	0	0	0	0	
Lakeland Mills	0	0	0	0	0	
BCTS	0	0	0	0	0	
BCTS (FLA70174)	0	0	0	0	0	
Carrier	0	0	0	0	0	
TOTAL	0	0	0	0	0	100

* % = (Operations completed in accordance with identified requirements/total operations with Species at Risk requirements) X100

Indicator Discussion: Licensees have produced maps that show the habitat amount and distribution of species at risk in the DFA from the Species at Risk Notice (Northern Caribou / Mountain Caribou). Further refinement of this data will be conducted over the next year.

Riparian Reserves

Riparian areas are the zones adjacent to lakes, streams, and wetlands. They encompass the area covered by continuous high moisture content and the adjacent upland vegetation. In British Columbia legislation has identified Riparian Management Areas (RMA) which consist of a Riparian Management Zone (RMZ) and, where required, a Riparian Reserve Zone (RRZ).

Currently, riparian reserves are identified in the site plan for the cutblock and in the field. A site plan is completed prior to harvesting for most areas within the DFA. The riparian requirements within the site plan identify the type of riparian features present within or adjacent to a proposed harvest area, the size of the RMA (which includes the RRZ where applicable), and a prescription for specific activities within the RMA to protect water quality and habitat values.

Forest operations conducted between April 1, 2007 and March 31, 2008 within the DFA is shown in Table 12.

Table 12: Forest Operations Consistent with Riparian Reserve Requirements

Licensee	Total Number of Forest Operations with Riparian Reserve Requirements*				Number of Forest Operations Completed	% in DFA**
	Roads	Harvesting	Silviculture	Total Operations**		
Canfor	29	302	86	417	416	
Winton Global	0	14	9	23	23	
Lakeland Mills	13	8	10	31	31	
BCTS	0	21	0	21	21	
BCTS (FLA70174)	0	7	2	9	9	
Carrier	0	2	1	3	3	
TOTAL	42	354	108	504	503	99.8%

* Measured by block

** % = (Operations completed in accordance with identified requirements / operations with riparian reserve requirements) X 100

Riparian Reserve

One block encroached into the RRZ of an S3 in the Weedon operating area. It was noted to be a Canfor layout issue due to boundary ribboning. This site was the site of a stream crossing that was removed in the field to avoid the stream crossing however the ribbon was not appropriately located to show this change. The contractor removed 4 trees within the RRZ and realized the error. This issue has been reviewed with all Canfor staff and specific checks are now in place when changes are made in the field.

Table 13: Indicator 8 Summary Table

Licensee	Total Number of Forest Operations with Caribou, mule deer, SAR and Riparian Reserve Requirements*				Number of Forest Operations Completed	% in DFA**
	Roads	Harvesting	Silviculture	Total Operations**		
Canfor	29	303	86	418	416	
Winton Global	0	14	9	23	23	
Lakeland Mills	13	8	10	31	31	
BCTS	0	21	0	21	21	
BCTS (FLA70174)	0	7	2	9	9	
Carrier	0	2	1	3	3	
TOTAL	42	355	108	505	503	99.6%

Indicator Discussion:

Overall, the licensees forest operations are 99.6% consistent with approved provincial Caribou Ungulate Winter Range, Mule deer UWR, Species at risk Notice /Orders and Riparian reserve requirements as identified in operational plans

Indicator 9. (1.2.A.a) Personnel Trained to Identify Species at Risk (Indicators 9, 10, 11, 12, 13, 15, 16 & 17 removed and replaced by Indicator 59).

Indicator 14. (1.3.A.b) Chief Forester's Standards for Seed Use

Indicator Statement	Target and Variance
Percent compliance with Chief Forester's Standards for Seed Use	Target: 100% Variance: 0%

Adherence to the Chief Forester's Seed Use Standards is crucial for sustainable forest management as the standards are designed to establish healthy stands composed of ecologically and genetically appropriate trees. Planting unsuitable genetic stock could result in stands that will not meet future economic and ecological objectives.

Table 14 shows the area planted with seedlings and seeds within the DFA in accordance with the Chief Forester's Standards for Seed Use for this reporting period.

Table 14: Compliance with Chief Forester's Standards for Seed Use

Licensee	Total Area Planted (ha)	Area Planted in Accordance with Chief Forester's Standards*	Total % DFA**
Canfor	13985.0	13985.0	100%
Winton Global	1457.7	1457.7	100%
Lakeland Mills	849.7	849.7	100%
BCTS	5070.8	4574.5	90.2%
BCTS (FLA70174)	1169.7	1169.7	100%
Carrier	396.7	396.7	100%
TOTAL	22929.6	22433.3	97.8%

* Measured in terms of number of trees purchased ** % = (Area planted in accordance with Chief Forester's Standards for Seed Use / total area planted) X 100

Indicator Discussion: BCTS- This deficiency has occurred due to administrative oversight. The deficiency has been reported to the District Manager through the legal reporting process. To prevent this situation from happening in the future we have further refined our business processes for allocation of seedlings to cutblocks.

Indicator 18. (1.4.B.a) Harvesting within Landscape Level Reserves

Indicator Statement	Target and Variance
Hectares of unauthorized forestry related harvesting or road construction within landscape level biodiversity reserves	Target: 0 ha Variance: 0 ha

Landscape level biodiversity reserves/ Protected Areas are areas protected by legislation, regulation, or land-use policy to control the level of human occupancy or activities (*Canadian Standards Association, 2003*). These include Old Growth Management Areas (OGMA), parks, and new protected areas. As forestry activities may occur near these areas the chance exists for unauthorized harvesting or road construction to happen within these sites. In addition to being an obvious violation of legislation, such an act would also damage sites and organisms that were set aside for protection. Tracking the number of unauthorized hectares within landscape level biodiversity reserves will allow forest managers to determine if and when improvements are needed in the planning process and implementation of forestry activities.

Table 15 shows the amount of unauthorized forestry operations within landscape level biodiversity reserves between April 1, 2007 and March 31, 2008 within the DFA.

Table 15: Unauthorized Forestry Operations within Landscape-Level Biodiversity Reserves

Licensee	Number of Unauthorized Harvesting Incidents*	Total Area of Unauthorized Harvesting (ha)	Number of Unauthorized Road Construction Incidents	Total Area of Unauthorized Road Construction (ha)
Canfor	0	0	0	0
Winton Global	0	0	0	0
Lakeland Mills	0	0	0	0
BCTS	0	0	0	0
BCTS (FLA70174)	0	0	0	0
Carrier	0	0	0	0
TOTAL	0	0	0	0

*As per internal tracking systems

Indicator 19. (2.1.A.a) Areas Planted Consistent with Operational Plans

Indicator Statement	Target and Variance
Percent of areas planted consistent with operational plans	Target: 100% Variance: -5%

To ensure a minimum regeneration delay and complete stocking, nearly all harvested sites are planted with ecologically suitable coniferous species to prescribed densities. Species are prescribed within the site plan on

the basis of ecological suitability, and the management objectives for the stand. Densities are prescribed based on forest health concerns and historic levels of natural regeneration in those areas.

As shown in the following table, 99.9% of the areas planted between April 1, 2007 and March 31, 2008 within the DFA were consistent with operational plans.

Table 16: Areas Planted Consistent with Operational Plans

Licensee	Total Area Planted (ha)	Area Planted in accordance with Operational Plans (ha)*	% in DFA**
Canfor	13,985	13,985	
Winton Global	1457.7	1457.7	
Lakeland Mills	849.7	849.7	
BCTS	5070.8	5040.7	
BCTS (FLA70174)	1169.7	1169.7	
Carrier	396.7	396.7	
TOTAL	22929.6	22899.5	99.9

* Licensees may address what they consider significant factors (density, species, spacing etc.)

** % = (Area planted in accordance with operational plans / total area planted) X 100

Indicator Discussion: BCTS planted 4 small standard units with a moderate proportion of acceptable species and did not meet the minimum preferred requirement in the Site Plan. This deficiency has occurred due to administrative oversight. Action plans have been developed/implemented to correct the issue. To prevent this situation from happening in the future we have further refined our business processes for allocation of seedlings to cutblocks.

Indicator 20. (3.1.A.a) Soil Conservation Standards

Indicator Statement	Target and Variance
The percentage of forest operations consistent with soil conservation standards as identified in operational plans	Target: 100% Variance: 0%

Conserving soil function and nutrition is crucial to sustainable forest management. To achieve this, forest operations have limits on the amount of soil disturbance they can create. Soil disturbance is expected to some extent from timber harvesting or silviculture activities, but these activities are held to soil conservation standards outlined in site plans (where they are more commonly known as "soil disturbance limits"). The site plan prescribes strategies for each site to achieve activities and still remain within acceptable soil disturbance limits.

As shown in the table below, 100% of forest operations conducted between April 1, 2007 and March 31, 2008 within the DFA are consistent with soil conservation standards as identified in the operational plans.

Table 17: Forest Operations Consistent with Soil Conservation Standards

Licensee	Total Number of Forest Operations			Forest Operations Consistent with Soil Conservation Standards	% in DFA*
	Harvesting and Roads	Silviculture**	Total		
Canfor	101	17	118	118	
Winton Global	58	19	77	77	
Lakeland Mills	29	13	42	42	
BCTS	44	0	44	44	
BCTS (FLA70174)	13	4	17	17	
Carrier	2	1	3	3	
TOTAL	247	54	301	301	100%

* % = (Operations completed in accordance with soil conservation standards / total operations completed) X 100

** Refers to maximum levels addresses mechanically site prepared blocks only

Indicator 21. (3.1.A.a | 4.2.A.a) Cutblock Area Occupied by Permanent Access Structures

Indicator Statement	Target and Variance
The percentage of cutblock area occupied by total permanent access	Target: ≤ 5% - averaged annually

structures	Variance: +1%
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This indicator measures the amount of area developed as permanent access structures (PAS) within cutblocks, in relation to the area harvested during the same period. Permanent access structures include roads, bridges, landings, gravel pits, or other similar structures that provide access for timber harvesting. Area that is converted to non-forested land, as a result of permanent access structures and other development, is removed from the productive forest land base and no longer contributes to the forest ecosystem

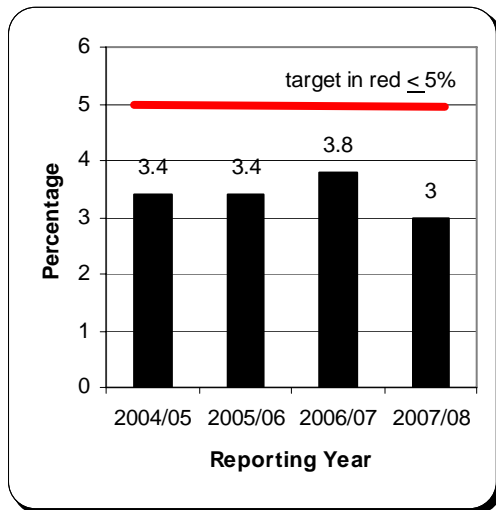
The area occupied by permanent access structures in cut blocks harvested during this reporting period within the DFA are found in Table 18.

Table 18: Cut Block Area Occupied by Total Permanent Access Structures

Licensee	Total Cutblock Area Harvested (ha) *	Total cutblock Area in Permanent Access Structures	% of Cutblock Area**	% in DFA
Canfor	9233.3	270.2	2.9%	3.0%
Winton Global	1070.6	35.9	3.4%	
Lakeland Mills	691.8	21.8	3.2%	
BCTS	3305.1	84.6	2.6%	
BCTS (FLA70174)	1021.3	44.9	4.4%	
Carrier	344.	10.9	3.2%	
TOTAL	15666.1	468.3	3.0%	

* Total cutblock area = gross area less natural NP.

** % = (Area of permanent access structures/ total cutblock area) X 100



During this reporting period, the range of the average cutblock area occupied by total permanent access structures is 3.5% to 4.2%.

As shown in the adjacent figure, the average cutblock area occupied by total permanent access structures over the last three years within the DFA has been below the target of ≤ 5%.

Indicator 22. (3.1.A.a) Terrain Management

Indicator Statement	Target and Variance
The percentage of forest operations consistent with terrain management requirements as identified in operational plans	Target: 100% Variance: 0%

Some areas subject to forest operations occur on slopes that warrant special terrain management requirements in operational plans (usually the site plan). These unique actions are prescribed to minimize the likelihood of landslides or mass wasting. Terrain Stability Assessments (TSA) are completed on areas with proposed harvesting or road development that has been identified as either unstable or potentially unstable. The recommendations of the TSA are then integrated into the site plan or road layout/design and implemented during forest operations.

Table 19 indicates forest operations with terrain management requirements on blocks harvested between April 1, 2007 and March 31, 2008 within the DFA.

Table 19: Forest Operations consistent with Terrain Management Requirements

Licensee	Number of Forest Operations with Terrain Management Requirements (TMR)				Forest Operations in Compliance with TMR	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	1	8	0	9	9	
Winton Global	0	5	2	7	7	
Lakeland Mills	1	0	1	2	2	
BCTS	0	0	0	0	0	
BCTS (FLA70174)	0	3	0	3	3	
Carrier	0	0	0	0	0	
TOTAL	2	16	3	21	21	100%

* % = (Operations completed in accordance with terrain management requirements / total operations completed) X 100

Indicator 23. (3.1.A.a) Reportable Spills

Indicator Statement	Target and Variance
The number of legally reportable spills	Target: 0 (annually) Variance: ≤ 5 (annually)

The Spill Reporting Regulation of the *BC Waste Management Act* requires any spill in excess of the reportable level for that substance to be immediately reported by the person involved or an observer to the Provincial Emergency Program.

This indicator is intended to monitor the number of spills that may occur as a result of forest operations and evaluate the success of measures to reduce such spills. The use of heavy equipment for forest operations may result in accidental petroleum/ antifreeze release into the environment. As these materials can be toxic to plants and animals, avoidance of such spills or ensuring their proper containment will contribute to sustainable forest management. By tracking spill occurrence, guidelines and procedures can be adjusted to improve handling and transportation procedures to avoid a reoccurrence of the spill.

Table 20: The Number of "Legally" Reportable Spills

Licensee	Number of Legally Reportable Spills
Canfor	1
Winton Global	0
Lakeland Mills	0
BCTS	0
Carrier	0
TOTAL for DFA	1

Indicator Discussion:

Canfor reported one recorded reportable spill for this reporting year. The spill was contained to land, no petroleum products or antifreeze were introduced into the stream, and Canfor staff conducted the cleanup within 24 hours.

Indicator 24. (3.2.A.a) Riparian Area Conservation

Indicator Statement	Target and Variance
The percentage of forest operations consistent with riparian management requirements as identified in operational plans	Target: 100% Variance: 0%

Riparian areas occur adjacent to streams, lakes and wetlands. They include both the area dominated by continuous high moisture content and the adjacent upland vegetation that exerts an influence on it. Riparian habitat can be critical for providing wildlife cover, fish food organisms, stream nutrients, large organic debris, stream bank stability and maintenance of water quality and quantity. Riparian features are also well appreciated by humans for recreation, aesthetics, and sustaining water quality.

This indicator is intended to ensure that the strategies identified in operational plans (such as site plans) to conserve riparian values have those strategies implemented on the ground. Once a strategy to conserve riparian values is included in a Forest Stewardship Plan, there is a legal obligation for the licensee to implement and adhere to the strategy. Harvest, road and silviculture inspections ensure that strategies are implemented as stated in the Site Plan document.

Table 21: Forest Operations Consistent with Riparian Management

Licensee	Total Number of Forest Operations with Riparian Management Requirements			Number of Forest Operations with Requirements Met	% in DFA*
	Harvesting/Roads	Silviculture	Total		
Canfor	331	86	417	415	
Winton Global	14	10	24	24	
Lakeland Mills	27	10	37	37	
BCTS	29	0	29	29	
BCTS (FLA70174)	15	2	17	17	
Carrier	2	1	3	3	
TOTAL	418	109	527	525	99.6%

* % = (Operations completed in accordance with riparian management requirements / total operations completed) X 100

Indicator Discussion: Canfor had one incident related to stream side retention along an S4 stream in the Weedon Operating Area. Harvesting Contractor was preworked in the field to ensure 10 stems per 100m of the stream were retained along the stream. The actual harvesting was then not carried out until 3-4 weeks after the prework and the contractor did not retain enough stems along the stream to meet the site plan requirement. This issue was highlighted at the May 2008 General Contractor Prework. Another Canfor incident involving trees removed from a riparian reserve zone in the Weedon operating area - see Indicator 8.

Indicator 25. (3.2.A.a) Stream Crossing Management

Indicator Statement	Target and Variance
The percentage of stream crossings that are installed or removed consistent with erosion control plans or procedures	Target: 100% Variance: -5%

Forestry roads can have a large impact on water quality and quantity when they intersect with streams, particularly by increasing sedimentation into water channels. Increased sedimentation can damage spawning beds, increase turbidity, and effect downstream water users. Erosion control plans and procedures are used to ensure installations and removals are done properly. To measure the success of this indicator it is important to ensure that a process is in place to monitor the quality of stream crossings, their installation, removal, and to mitigate any issues as soon as possible. Streams and crossing structures are identified during operational plan preparation. Pre-work forms are completed for all projects, including stream crossings, as part of EMS/Standard Operating Procedures. Stream crossing installations are usually planned for timeframes when conditions are favorable (i.e. fish windows). Appropriate erosion control devices are also installed during the installation process, such as silt fences.

Table 22 illustrates the number of stream crossings installed or removed between April 1, 2007 and March 31, 2008.

Table 22: Stream Crossings Consistent with Erosion Control Plans or Procedures

Licensee	Number of Stream Crossings with Erosion Control Plans	Number of Stream Crossings Completed According to Erosion Control Plans	% in DFA
Canfor	29	29	
Winton Global	6	6	
Lakeland Mills	0	0	
BCTS	5	5	
BCTS (FLA70174)	8	8	
Carrier	1	1	
TOTAL	49	49	100%

* % = (Stream crossings treated in accordance with erosion control plans / total stream crossings activities) X100

Indicator 26. (3.2.A.a) Mitigating Sedimentation

Indicator Statement	Target and Variance
The percentage of unnatural known sediment occurrences where mitigating actions were taken	Target: 100% Variance: -5%

Sedimentation can damage water bodies by degrading spawning beds, increasing turbidity, and reducing water depths. Forest management activities may create unnatural inputs of sedimentation into water bodies. In addition to the effects of roads, sedimentation may also occur from slope failures as a result of forestry activities. Once sedimentation occurrences are detected, mitigating actions must be taken to stop further damage and rehabilitate the site. Tracking these mitigation actions contributes to sustainable forest management by evaluating where, when and how sedimentation occurs and the monitoring results of mitigation actions. Forestry personnel detect sedimentation occurrences during stream crossing inspections, road inspections, silviculture activities, and other general activities. 100% of the unnatural known sediment occurrences had mitigation actions taken as shown in Table 23.

Table 23: Unnatural Known Sediment Occurrences where Mitigating Actions were Taken

Licensee	Total Number of Unnatural Known Sedimentation Occurrences	Total Number of Mitigation Actions Required	Total Number of Mitigation Actions Taken	% DFA *
Canfor	0	0	0	
Winton Global	0	0	0	
Lakeland Mills	7	7	7	
BCTS	1	1	1	
BCTS (FLA70174)	1	1	1	
Carrier	2	2	2	
TOTAL	11	11	11	100%

* % = (Total number mitigation actions taken / total number of mitigation actions required) X 100

Indicator 27. (3.2.A.a) Maintenance of Natural Stream Flow

Indicator Statement	Target and Variance
The percentage of new stream crossings that maintain natural stream flow	Target: 100% Variance: 0%

When forest roads are constructed it is often necessary to build structures (i.e. culverts, bridges) that intersect fish-bearing streams. In order to maintain the number and diversity of fish species, stream crossings cannot be a barrier to fish migration. As fish are also an important food source, the success of these stream crossings contributes to the population maintenance of other faunal species within the DFA.

Careful consideration of the size of the crossing structure must be made to ensure that the structure can manage natural high water events. This indicator will measure the success of maintaining fish movement and managing peak flow at all new stream crossings within the DFA.

Streams and crossing structures are identified during operational plan preparation. The streams are surveyed for their fish bearing potential and qualified personnel determine their probable peak flow volumes. The appropriate crossing structure size and installation procedure is then prescribed for the stream crossing.

As shown in Table 24, 100% of all new stream crossings were installed to maintain natural stream flow.

Table 24: New Stream Crossings that Maintain Natural Stream Flow

Licensee	Total Number of New Steam Crossings Installed	Number of New Stream Crossings Maintaining Natural Stream Flow*	% in DFA**
Canfor	29	29	
Winton Global	4	4	
Lakeland Mills	0	0	
BCTS	5	5	
BCTS (FLA70174)	5	5	
Carrier	0	0	
TOTAL	43	43	100%

* Unrestricted stream flow which accommodates fish passage

** % = (Stream crossings that maintain natural flow / total number of stream crossings) X 100

Indicator 28. (3.2.A.a | 4.1.A.a | 5.1.A.a) Forest Continuity

Indicator Statement	Target and Variance
Percent of net area regenerated within 3 years after the commencement of harvesting.	Target: 100% annually Variance: -2%

Trees have a profound influence on water quality and quantity. They intercept precipitation, shade streams, bind soil particles, and draw moisture from the soil. When harvesting occurs there can be immediate impacts to the hydrologic cycle. Water tables may rise, water temperatures may increase, and stream levels may become more erratic as the mitigating influence of the forest is absent. One of the objectives to regenerating harvested areas quickly and efficiently is to restore the balance to the hydrology in the area. Tracking the area regenerated in comparison to the area harvested on a landscape level will ensure that harvesting does not outpace the ability of the DFA to adjust to changes in its hydrology. In addition to hydrological and ecological benefits, prompt reforestation benefits society in the short and long term. Regenerated cutblocks improves aesthetics, provides recreational opportunities, and contributes to the economic future of the forest industry.

Site plans define the standards to which regenerated blocks will be held to, and the timeframe to which they must reach Free Growing status. The prescribed legal date for regenerating a cutblock is the "regen" date, and varies depending on the ecosystem association being reforested. This indicator measures harvesting and reforestation on a landscape level and provides a different perspective than traditional reforestation goals set at the individual cutblock level.

As shown in the following table, 99.6% of the net area was regenerated within 3 years of the starting of harvesting.

Table 25: Percent of area regenerated within 3 years after the commencement of harvesting.

Licensee	Harvesting (ha) on NAR commenced from April 1, 2004 to March 31, 2005	Of the area harvested, net area regenerated (ha) * by reporting year.	% in DFA**
Canfor	15,724.5	15,724.5	
Winton Global	1,297.6	1,297.6	
Lakeland Mills	590.2	590.2	
BCTS	3616.0	3532.0	
BCTS (FLA70174)	699.0	699.0	
Carrier	641.4	641.4	
TOTAL	22268.7	22187.7	99.6%

* Area qualified as regenerated as soon as planting takes place

** % = (Total area regenerated/ total area harvested) X 100

Indicator 29. (3.2.A.a) Peak Flow Index Calculations (Removed and replaced by Indicators 56, 57 and 58)

Indicator Discussion: At the time of this report Licensees and BCTS have completed 100% of the PFI

Indicator 30. (4.1.A.a) Free Growing Requirements

Indicator Statement	Target and Variance
Percent of cut block area that meets Free Growing requirements as identified in Site Plans	Target: 100% Variance: 0%

This indicator measures the percentage of harvested blocks that meet free growing obligations across the DFA. A free growing stand is a stand of healthy trees of a commercially valuable species, the growth of which is not impeded by competition from plants, shrubs or other trees (BC MOF 1995b). A free growing assessment is conducted on stands based on the time frame indicated by the site plan. If a survey indicates that the stand has not achieved free growing status by the required date, corrective actions will be prescribed immediately in order to remedy the situation while still meeting the late free growing deadline.

While this percentage is an important legal requirement for Licensees and BCTS, it is also important for sustainable forest management. Stands that meet free growing standards are deemed to have reached a stage

where their continued presence and development is more assured. They are of a stand density, health, and height that make them less vulnerable to competition and more likely to reach maturity. Producing a free to grow stand means that the forest ecosystem will continue to evolve. It means that carbon sequestration will also continue, locking up additional green house gases as cellulose in the growing plantation.

For the reporting period of April 1, 2007 to March 31, 2008 the target for this measure was met as demonstrated in Table 26.

Table 26: Cut Block Area that Meets Free Growing Requirements as Identified in Site Plans

Licensee	Cut Block Area Required to Meet Late Free Growing Status (ha)	Cut Block Area Meeting Free Growing Status (ha)	% in DFA*
Canfor	184.0	184.0	100%
Winton Global	1,258.0	1,258.0	100%
Lakeland Mills	705.1	705.1	100%
BCTS	2972	2855	96.1%
Carrier	643.0	643.0	100%
TOTAL	5762.1	5645.1	98.0%

* % = (Cut block area achieving free to grow status/ cutblock area required to meet free to grow status) X 100

Indicator Discussion: BCTS-This deficiency has occurred due to ongoing data integrity issues associated with our forest information management system. We have made significant improvements to the quality of our data as reflected in the noted improvement in performance this year. The deficiency has been reported to the District Manager through the legal reporting process and action plans have been put in place to deal with the non-compliances. To prevent this situation from happening in the future we have further refined our business processes and allocated the necessary staffing resources.

Indicator 31. (4.1.A.a) Stand Damaging Agents

Indicator Statement	Target and Variance
Areas with stand damaging agents will be prioritised for treatment	Target: 100% Variance: -10%

Damaging agents are considered to be biotic and abiotic factors (fire, wind, insects etc.) which reduce the net value of commercial timber. At present, the most serious stand-damaging agent in the Prince George DFA is the Mountain Pine Bark Beetle, which has killed millions of mature, commercially viable Lodgepole pine. Prioritizing infested stands for treatment can contribute to sustainable forest management in several ways. Removing infested trees can slow the spread of beetles to adjacent healthy stands and allow Licensees to utilize trees before they deteriorate. Also, once harvesting is complete the area can be replanted, turning an area that would have released carbon through the decomposition of dead trees into the carbon sink of a young plantation. All Licensees and BCTS target damaged stands in a similar manner. Each year the volume of damaged timber is assessed within the DFA. Of this volume, licensees prioritize planning and harvesting activities based on levels of attack, stage of attack, wood quality and milling capacity/needs. This indicator measures the success in ensuring areas with stand damaging agents have been assessed and have been prioritized for treatment, if required and thereby minimizing value losses within the DFA.

Table 27 shows the areas with stand damaging agents that were prioritized for treatment between April 1, 2007 and March 31, 2008 within the DFA.

Table 27: Areas with Stand Damaging Agents Prioritized for Treatment

Licensee	Total Area with Stand Damaging Agents Identified	Area with Stand Damaging Agents that are Prioritized for Treatment (ha)	% for DFA*
Canfor	1,137,218	1,137,218	100%
Winton Global	264,602	264,602	100%
Lakeland Mills	85,277	85,277	100%
BCTS	555,699	555,699	100%
Carrier	189,109	189,109	100%
TOTAL	2,231,905	2,231,405	100%

* % = (Area with damaging agents prioritized for treatment / total area with stand damaging agents identified) X 100

Indicator 32. (4.2.A.a) Forest Land Conversion

Indicator Statement	Target and Variance
The total percentage of forested land within the timber harvesting landbase that is converted to non-forested land.	Target: ≤4% annually Variance: + 0.5%

Forested land is converted to non-forested land as a result of forest operations through the development of permanent roads, bridges, landings, gravel pits and other similar structures in order to provide timber harvesting access. These structures remain in place after forest operations are complete. As roads are constructed, the ability of the landbase to support forests that contribute to ecosystem diversity, productivity as well as soil and water conservation is either eliminated or reduced. Minimizing the loss of total forest landbase contributes to the sustainable forest management of the forest ecosystem for the DFA.

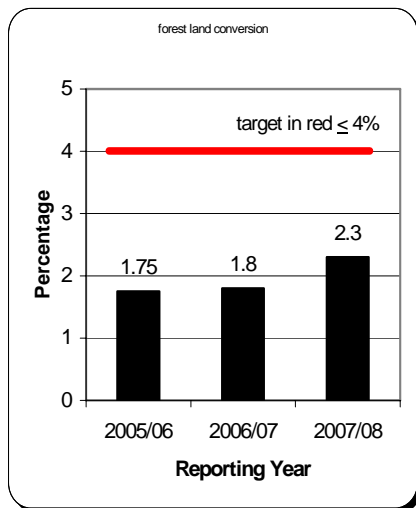
This indicator monitors on an annual basis the conversion of forested land in relation to the MoFR, Timber Supply Review standard of 5% THLB conversion to permanent access structures. The indicator was developed on the recommendation of the PAG during this reporting period and is reported out below.

Table 28: Forested Land Converted to Non-Forested Land

Licensee	Total THLB* (ha)	Total Area of THLB in Permanent Access Structures** (ha)	% of THLB Area in DFA *** (ha)	Area of New Permanent Access Structures Constructed (ha)
Canfor	807,307	17,997	2.2%	248
Winton Global	168,661	4,188	2.5%	70
Lakeland Mills	64,683	1,860	2.9%	39
BCTS	301,578	5196	1.7%	84
Carrier	101,014	3,318	3.3%	84
TOTAL	1,443,243	32,558	2.3%	.036%

* THLB: total harvestable landbase = gross area less non-productive landbase ** Area of Permanent Access Structures = Road Length (km) X Road Width (Forest Service Roads (25.0 m), Road Permit (15.0 m), On-Block (10.0 m), Non-Status (13.0 m)).

*** % in DFA = Area of permanent access structures/ THLB area) X 100



During this reporting period, the average forest land conversion ranged by licensees from 1.4% to 3.2%.

As shown in the adjacent figure, the amount of forest land conversion over the last two years is below the target of ≤ 4%.

Indicator 33. (5.1.A.a) Cut Level Volumes

Indicator Statement	Target and Variance
The cut level volumes compared to the apportionment across the Timber Supply Area	Target: ≤100% Over each 5 year cut control period Variance: +10%

To be considered sustainable, harvesting a renewable resource such as timber can not deplete the resource on an ecological, economic or social basis. During the Allowable Annual Cut (AAC) determination, various considerations are examined including the long term sustainable harvest of the timber resource, community stability, wildlife use, recreation use, and the productivity of the DFA. The AAC is generally determined every five years by the Chief Forester of British Columbia, using extensive data and forecasts to assess the many resource values that need to be managed. On behalf of the Crown, the Chief Forester makes an independent

determination of the rate of harvest that is considered sustainable for a particular Timber Supply Area (TSA). The Prince George DFA comprises about 44% of the larger Prince George TSA area.

The harvest level for a TSA must be met within thresholds that are established by the Crown. Maintaining the rate of harvest consistent with what is considered by the province to be sustainable ecologically, economically and socially within the DFA is considered sound forest management. The final review for this measure will be undertaken at the end of the cut control period.

As shown in the table below, the licensees are currently at a cut level of 19.0% of the apportioned amount.

Table 29: Cut Level Volumes Compared to the Apportionment across the Timber Supply Area

Licensee	5 year AAC Volume for DFA	Actual Volume Cut for Reporting Period*	Number of Years into Cut Control Period	Overall % of 5 Year Cut Control for DFA**
Canfor	11,942,755	2,211,292	1	18.5%
Winton Global	2,694,835	426,344	1	15.8%
Lakeland Mills	1,270,510	279,303	1	22.0%
BCTS	6,351,015	736,132	1	11.6%
FLA70174	1,500,000	1,092,729	1	72.8%
Carrier	1,265,135	7,262	1	0.6%
TOTAL	25,024,250	4,753,062		19.0%

*Actual volume cut / 5 year volume apportioned

**% = (Actual cut level volume / AAC volume apportioned) X 100

*** The calculation for BCTS will be different

+BCTS data from cut control letters for forest licenses or best information available at the time

Indicator 34. (5.1.A.a) Forestry Related Industrial Fires

Indicator Statement	Target and Variance
Number of hectares (area) damaged by accidental forestry related industrial fires	Target: <100 ha annually Variance: 5.0 ha

This indicator measures the number of hectares affected by industrial forest fires. As forest fires can result in catastrophic losses to timber supply, wildlife habitat, and private property, a high value has been placed on reducing the impact of these fires within the DFA. Accidental industrial fires can be caused by various sources, including escapes from the use of prescribed fire (e.g. burning slash piles) or from human induced error (e.g. machinery, cigarette smoking, etc.).

Industrial fires are usually brought under control quickly due to the availability of fire fighting equipment and Licensee/ BCTS Fire Preparedness Plans. In contrast, naturally caused fires have the potential to quickly grow in size before fire control efforts can be undertaken. However the area and extent of accidental industrial fires must be minimized throughout the DFA in order to contribute to the overall health of the forest and long-term sustainability of the resource.

There were no accidental forestry related industrial fires during this reporting period.

Table 30: Accidental Forestry Related Industrial Fires

Licensee	Number of Accidental Forestry Related Industrial Fires	Total Area Damaged (ha)
Canfor	0	0
Winton Global	0	0
Lakeland Mills	0	0
BCTS	0	0
Carrier	0	0
TOTAL	0	0

Indicator 35. (5.1.A.b) Non Timber Benefits

Indicator Statement	Target and Variance
The percentage of forest operations consistent with visual cultural heritage, range, riparian, recreation and lakeshore requirements as identified in operational plans.	Target: 100% Annually Variance: 0%

Visual Quality

Forests can provide intangible benefits in addition to their economic and ecological values. The perceived visual quality of certain areas is one of these benefits and must be considered in forest management. Protection and maintenance of visual quality helps ensure that these values will be available for current and future generations. A Visual Quality Objective (VQO) is a resource management objective established by the MoFR District Manager, or contained in a higher level plan that reflects the desired level of visual quality. It is based on the physical characteristics and social concern for the area.

The indicator is designed to ensure that those operational plans with identified strategies to conserve visual quality have those strategies implemented on the ground. Visual Impact Assessments (VIA) are conducted on all identified visual quality areas, which help determine block shape, location and internal retention options. At the site level these strategies are included within the Site Plan to minimize visual impacts.

Table 31 indicates between April 1, 2007 and March 31, 2007, within the DFA, 100% of forest operations with visual quality requirements were adhered to.

Table 31: Forest Operations Consistent with Visual Quality Requirements

Licensee	Number of Forest Operations with Visual Quality Requirements (VQR)				Forest Operations in Adhered to VQR	% for DFA *	
	Roads	Harvesting	Silviculture	Total			
Canfor	4	6	0	10	10		
Winton Global	0	5	0	5	5		
Lakeland Mills	0	0	0	0	0		
BCTS	0	18	0	18	18		
BCTS (FLA70174)	1	1	1	3	3		
Carrier	0	0	0	0	0		
TOTAL	5	30	1	36	36		100%

* % = (Operations completed in accordance with visual quality requirements / total operation completed) X 100

Cultural Heritage

The protection of cultural heritage values assures they will be identified, assessed and available to future generations. A cultural heritage value is a unique or significant place or feature of social, cultural or spiritual importance. It may be an archaeological site, recreation site or trail, cultural heritage site or trail, historic site or a protected area. Cultural heritage values often incorporate First Nation's heritage and spiritual sites, but they can also involve features protected and valued by non-aboriginal people. Maintenance of cultural heritage values is an important aspect to sustainable forest management because it contributes to respecting the social and cultural needs of people who traditionally and currently use the DFA for a variety of reasons.

Forest plans have used an Archaeological Predictive Model to assess the potential presence of archaeological resources within proposed harvest areas or road access corridors. Where activities are proposed within zones of high archaeological potential, Licensees and BCTS conduct site level Archaeological Evaluations (AE) to identify, assess and record any archaeological resources that may be present. Once a strategy to conserve cultural heritage values is included within an operational plan, there is a legal obligation for the licensee to implement and adhere to the strategy. Harvest and subsequent silviculture inspections ensure that these strategies are implemented as stated in the operational plan.

Table 32: Forest Operations Consistent with the Cultural Heritage Requirements

Licensee	Number of Forest Operations with Cultural Heritage Requirements				Total with Cultural Heritage Requirements Met	% for DFA *
	Roads	Harvesting	Silviculture	Total		
Canfor	34	48	0	82	82	
Winton Global	0	4	1	5	5	
Lakeland Mills	9	4	6	19	19	
BCTS	0	8	0	80	8	
BCTS (FLA70174)	4	2	1	7	7	
Carrier	0	0	1	1	1	
TOTAL	47	66	9	122	122	100%

* % = (Operations completed in accordance with cultural heritage requirements / total operations completed) X 100

Range

The livestock industry has been an important part of British Columbia's economy for over a century. Historically, ranchers have used Crown range resources as a source of feed for their animals. Conservation of identified range resources will help to assure their availability for future generations. Range resources can include grazing or hay cutting permits or areas with potential for these ventures. Range managers and forest managers share the forest for their particular purposes, and must work cooperatively in order to achieve sustainable development and management of its resources. This indicator will help to ensure that various range values are conserved for current and future generations

Table 33 shows 100% of forest operations on blocks with range management requirements were adhered to during the reporting period within the DFA.

Table 33: Forest Operations Consistent with Range Requirements

Licensee	Total Number of Forest Operation with Range Requirements				Total Number with Range Requirements Met	% for DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	0	0	0	
Winton Global	0	0	0	0	0	
Lakeland Mills	1	0	0	1	1	
BCTS	0	2	0	2	2	
BCTS (FLA70174)	3	3	2	8	8	
Carrier	0	0	0	0	0	
TOTAL	4	5	2	11	11	100%

* % = (Operations completed in accordance with range requirements / total operations completed) X 100

Riparian Management (see Indicator 24.)

Recreation

The consideration of non-timber values such as recreation is important to sustainable forest management as it recognizes the multiple benefits forests can provide to society. Licensees and BCTS currently solicit public and stakeholder input during Forest Development Plan/ Forest Stewardship Plan development. Land and Resource Management Plans (LRMP) can also provide direction for planning for recreational interests. The site plan for a cutblock provides the site-specific requirements that operations have to achieve to meet the needs of recreational users. Once a recreation strategy is included within an operational plan document, there is a legal obligation for the Licensee or BCTS to implement and adhere to the strategy. Harvest and silviculture inspections ensure that these strategies are implemented as stated in the operational plan.

Table 34 shows forest operations within areas with recreation management requirements between April 1 2007 and March 31, 2008 within the DFA.

Table 34: Forest Operations Consistent with Recreation Requirements

Licensee	Total Number of Forest Operations with Recreation Requirements				Number of Forest Operations Meeting Recreation Requirements	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	0	0	0	
Winton Global	0	0	0	0	0	
Lakeland Mills	0	0	0	0	0	
BCTS	0	1	0	1	1	
BCTS (FLA70174)	0	0	0	0	0	
Carrier	0	0	0	0	0	
TOTAL	0	1	0	1	1	100%

* % = (Operations completed in accordance with recreation requirements/total operations completed) X 100

Lakeshore

Lakeshores are a type of riparian habitat that may be critical for providing wildlife cover, fish food organisms, and supporting unique vegetation communities. They are also highly valued for their recreational and aesthetic properties. The protection and maintenance of lakeshores will ensure that these values will be conserved for current and future generations.

Lakeshore values are generally identified through the planning process and then verified on the ground during field exercises. Lakeshore management areas are initially identified on a map during the preparation of the Forest Stewardship Plan. If harvesting operations are planned for an area that may contain lakeshore values, additional information is identified in a site plan. The site plan also prescribes any management activities that are to be undertaken to conserve the lakeshore riparian values. Once lakeshore requirements are identified in operational plans, there is a legal obligation for the Licensee or BCTS to implement and adhere to those requirements.

Table 35: Forest Operations Consistent with Lakeshore Requirements

Licensee	Number of Forest Operations with Lakeshore Requirements				Number with Requirements Met	% for DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	28	0	28	28	
Winton Global	0	0	0	0	0	
Lakeland Mills	5	2	3	10	10	
BCTS	0	5	0	5	5	
BCTS (FLA70174)	0	0	0	0	0	
Carrier	0	0	0	0	0	
TOTAL	5	35	3	43	43	100

* % = (Operations completed in accordance with lakeshore requirements / total operations completed) X 100

Table 36: Indicator 35 Summary

Licensee	Number of Forest Operations with Visual, Cultural Heritage, Range, Riparian, Recreation and Lakeshore Requirements				Number with Requirements Met	% for DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	38	384	86	508	506	
Winton Global	0	23	11	34	34	
Lakeland Mills	32	16	19	67	67	
BCTS	0	34	0	34	34	
BCTS (FLA70174)	10	17	6	33	33	
Carrier	0	2	2	4	4	
TOTAL	80	476	124	680	678	99.7

Indicator Discussion

Canfor had two riparian incidents during the reporting period. See discussions for Indicators #8 and #24.

Indicator 36. (5.1.A.b) First Order Wood Products

Indicator Statement	Target and Variance
The number of first order wood products produced from trees harvested from the DFA	Target: ≥ 12 types of products annually Variance: -3

This indicator monitors the number of first order wood products that are produced within the DFA. First order wood products are items directly produced from trees. This indicator demonstrates how forest management activities contribute to a diversified local economy based on the range of products produced at the local level. By ensuring a large portion of the volume of timber harvested within the DFA is processed into a variety of products at local facilities, the local economy will remain stable, diverse, and resilient.

Each Licensee currently produces a variety of forest products with different grades and sizes of dimensional lumber being the primary products (Table 40). BCTS is limited to providing raw logs for sale through an open competitive bid process. Licensees also produce specialty wood products such as Japanese select lumber, Machine Stress Rated lumber, and a variety of special order lumber products.

From Table 37, there are 13 first order wood products produced from trees harvested from the DFA.

Table 37: First Order Wood Products Produced from Trees Harvested from the DFA

Licensee	Canfor	Winton Global	Lakeland Lumber	BCTS	Carrier	Total	Products Produced
Raw Logs	0	0	1	1	1	3	1
House Logs	0	1	0	0	0	1	1
Lumber	1	1	1	0	1	4	1
Custom Cut Lumber	0	1	0	0	0	1	1
Re-man Lumber*	1	1	0	0	1	3	1
Pulp Chips	1	1	1	0	1	4	1
OSB Stands	0	0	0	0	0	0	0
Hog Fuel	1	1	1	0	1	4	1
Wood Shavings	1	1	1	0	1	4	1
Plywood	1	0	0	0	0	1	1
Veneer	1	0	0	0	0	1	1
Pole Logs	0	0	0	0	0	0	0
Railway Ties	0	0	0	0	1	1	1
Sawdust	1	1	0	0	0	2	1
Instruments	0	0	0	0	0	0	0
Finger Joint	1	0	0	0	0	1	1
Japanese Blinds	0	0	0	0	0	0	0
Total	9	8	5	1	7	7	13

* Remanufactured lumber - trim blocks

Indicator 37. (5.1.A.b) Volume Advertised through Competitive Bid

Indicator Statement	Target and Variance
The percentage of DFA volume advertised for sale through open competitive bid	Target: $\geq 20\%$ Annually Variance: -5%

Most of the timber harvested in the DFA is collectively cut under major licenses held by Forest Licensees. However, a percentage of the annual volume cut is advertised for sale through an open competitive bid process. The Crown through BC Timber Sales (BCTS) sells this volume of timber. BCTS develops and sells publicly owned timber to establish market prices and optimize net revenue to the Crown. Reliant on the highest bid, BCTS sells units of timber across the DFA to a variety of customers, including sawmill operators, small-scale loggers, and timber processors.

In addition to helping establish market prices and providing revenue to the Crown, BCTS provides the opportunity for customers to purchase timber in a competitive and open market. In this way people who might not have access to Crown timber have an opportunity to purchase it in an equitable manner.

This indicator evaluates the volume of timber advertised for sale through open competitive bid. The process contributes to the social and economic aspects of SFM by creating opportunities for forest sector employment, and by providing revenue to the Crown that reinvests the money back into the DFA through government programs and institutions. Tracking the indicator will ensure that the volume of timber offered for sale in this manner is sufficient to meet the goals of sustainable forest management.

Table 38 reports on the percentage of volume advertised through an open competitive bid in the Prince George Forest District. Currently 13.7% of volume in the Prince George Forest District is advertised through open competitive bid.

Table 38: Volume Advertised for Sale through Open Competitive Bid

Licensee	Total Annual Volume in the Prince George Forest District (m3)*	Volume Advertised for Open Competitive Bid (m3)**	% in DFA***
Canfor	2,211,292	0	
Winton Global	505,541	0	
Lakeland Mills	279,303	0	
BCTS	1,270,203	622,741	
BCTS (FLA70174)	280,269	0	
Carrier	7,262	0	
Non-Signatory			
TOTAL	4,553,870	622,741	13.7%

* Volume is cut control volume billed in that calendar year from the PG District. ** Volume for BCTS is the apportioned volume for each fiscal year

*** % For DFA = (volume advertised for sale through open competitive bid / total annual volume) X 100

Indicator discussion: BCTS- Due to log grade changes and changes to legislation that affected one of our clients BCTS was unable to deliver the volume of sales expected until these issues were resolved.

Indicator 38. (5.1.A.b) Public and Stakeholder Input

Indicator Statement	Target and Variance
The number of opportunities given to the public and stakeholders to express forestry related concerns and be involved in planning processes	Target: ≥ 15 Annually Variance: -3

Forestry activities can impact a wide sector of the general public and individual stakeholders within the DFA. This indicator was designed to monitor the success of the Licensees and BCTS at providing effective opportunities to residents and stakeholders to express concerns and proactively be involved in the planning process. This process ensures that when forestry activities are planned, information is exchanged in an effective and timely manner, so as to resolve potential conflicts before they occur. This process will help to identify the public values, interests and uses of the forest that will be considered within the Prince George Licensees and BCTS planning framework. There are many opportunities for the public and stakeholders to express forestry-related concerns and to be involved in the planning process. These include Forest Stewardship Plan (FSP) public reviews, FSP amendments, letters to stakeholders soliciting input, Pesticide Management Plan reviews, field tours, newsletters, and a website.

Table 39 shows that a total of 34 opportunities were provided to the public and stakeholders to express forestry related concerns and to be involved in planning process of the signatories of the Prince George SFMP.

Table 39: Opportunities for Public and Stakeholders to be involved in Planning Processes

Opportunity	Number of Opportunities for Public and Stakeholders Input						
	Canfor	Winton Global	Lakeland Mills	BCTS	Carrier	Joint SFMP	TOTAL
FSP Original Ads	0	0	0	0	0		0
FSP Amendment Ads	1	1	1	0	With Canfor		3
FSP Stakeholder Letters	1	1	1	1	1		5
PMP Original Ads	0	0	0	0	0		0
PMP Stakeholder letters	1	1	1	0	1		4
PMP Signage	1	0	1	0	1		3
Field Tours	1	1	0	1	1	1	5
CNRC Meetings	0	0	0	0	0		0
Newsletters	0	0	0	0	0		0
Open Houses	1	1	0	0	0		2
PAG Meetings	1	1	0	0	0	1	3
LRMP Meetings	1	0	0	0	0		1
Documented Phone Calls	1	1	1	0	1		4
Documented Personal Meetings	1	1	0	0	1		3
Expression of interest letters	1	0	0	0	0		1
Total for DFA*	11	8	5	2	6	2	34

* This indicator tracks the number of different types of opportunities that the public has to provide input into the planning process, not the total number of opportunities.

Indicator 39. (5.1.A.b) Viewing of Access Plans, Operational Plans and SFMPs

Indicator Statement	Target and Variance
Annually, provide a viewing of BCTS and Licensee current access plans of the DFA	<u>Target:</u> On or before October 1 st of each year <u>Variance:</u> +1 month

Forestry roads provide access for industry and the public to large portions of the DFA. Constructing, maintaining, deactivating, and closing these roads is an ongoing process that requires careful planning. Because many non-forestry users of these roads have an interest in their management it is important to provide a viewing of the current access plans of BCTS and Licensees. The input received from such open houses can be used to plan future access management activities.

The Licensees and BCTS held an access viewing at Pine Center Mall, PG - October 20, 2006, jointly displaying their road access information, which meets the target, established for this measure. In addition, the licensees provided information on general sustainable forest management, the Prince George Public Advisory Group, the Prince George SFMP and the Prince George SFMP annual report.



Open House held at the Prince George Pine Centre Mall

Indicator 40. (5.1.A.b) Responses to Written Public Inquiries

Indicator Statement	Target and Variance
Percentage of timely responses to written public inquiries	<u>Target:</u> 100% Annually <u>Variance:</u> -5%

All Licensees and BCTS solicit feedback for their public forest management plans within the DFA. They also receive ongoing general comments and inquiries regarding forestry activities. These inquiries represent a public concern for how forest resources are managed, and as such should receive a timely response by all Licensees. This indicator has defined a timely response as one that is made within 30 days of written inquiry. Comments from the public may be provided in many ways, including written letters, e-mails, or faxes to Licensees and BCTS. There may also be written comment made during an in-person meeting between a Licensee or BCTS staff member and the person providing comment, or a comment written by a Licensee staff member dictated by a member of the public over the phone or in person.

The licensees are currently at 87.9% rate regarding timely responses to written public inquiries.

Table 40: Timely Responses to Written Public Inquiries

Licensee	Total Number of Written Public Inquiries Made	Total Number of Responses Made within 30 days	% for DFA*
Canfor	14	14	
Winton Global	0	0	
Lakeland Mills	0	0	
BCTS	13	9	
Carrier	6	6	
TOTAL	33	29	87.9%

* % = (Number of responses made within 30 days of receipt / total number of public inquiries made) X 100

Indicator Discussion: BCTS- For two of the correspondences received our system did not record a response. Follow-up action is ongoing. For the remaining two the complexity of the issues identified required significant investigation and a response was not possible within the expected response window. The BCTS tracking system has been enhanced to allow for better capture of these issues. Further training of new staff will enhance performance.

Of the **33** written public inquiries made, **2** inquiries were specific to access management. Although some licensees reported that no written public inquiries were made to licensees by the public, stakeholders and the public were communicated with a number of times.

Indicator 41. (5.1.A.b) Communication Strategies

Indicator Statement	Target and Variance
Percentage of communication strategy requirements met	<u>Target:</u> 100% Annually <u>Variance:</u> -5%

Licensees and BCTS maintain a list of interested parties that they notify when forestry operations/ developments are to occur. These interested parties may be private landowners, lodge operators, trappers, or hunting guides. Communication strategies are in place to ensure that information is provided to these interested parties in a timely and efficient manner. As sustainable forest management includes non-timber values, it is important that the forest industry works with these individuals to minimize the impact of forest operations and consider their concerns. This indicator is intended to measure the success of meeting communication strategy requirements that are designed to achieve these goals.

As shown in the following table 98.2% of stakeholder and public communication strategy requirements have been met over the reporting period.

Table 41: Communication Strategy Requirements Met

Licensee	Number of Communication Strategies Required	Number of Communication Strategies Completed	% for DFA*
Canfor	151	148	
Winton Global	54	54	
Lakeland Mills	31	31	
BCTS	354	346	
Carrier	5	5	
Joint	0	0	
TOTAL	595	584	98.2%

* % = (Number of communication strategies completed / total number of communication strategies required) X 100

Indicator 42. (5.2.A.a) Support of North Central Interior Suppliers and Contractors

Indicator Statement	Target and Variance
Percent of money spent on forest operations and management in the DFA provided from North Central Interior Suppliers and Contractors	Target: 75% Variance: -5%

Forests provide many ecological benefits but they also provide substantial socio-economic benefits. In order to have sustainable socio-economic conditions for local communities associated with the DFA, local forest related businesses should be able to benefit from the work that is required in the management of the DFA.

Furthermore, for small forestry companies to contribute to and invest in the local economy there must be assurances that there will be a consistent flow of work. In the same way that larger licensees depend on a secure flow of resources to justify investment in an area, small businesses depend on a sustained flow of opportunities to develop and invest in the local community.

The North Central Interior is defined in this SFMP as the region that includes communities from 100 Mile House to McKenzie (south to north) and from Smithers to McBride (west to east). The total dollar value of goods and services considered to be local will be calculated relative to the total dollar value of all goods and services used. This calculation will be used to derive the percentage of money spent on forest operations and management of the DFA from suppliers in north central BC.

87.5% of the money spent on forestry operations and management is provided to NCI suppliers/contractors.

Table 42: Forest Operations and Management Provided by NCI Suppliers/Contractors

Licensee	% Money Spent in NCI***	Volume Billed (sold BCTS)	Weighted Average Volume*	Weighted average % in DFA**
Canfor	97.0%	2,211,292.0	21,449.5	
Winton Global	94.5%	426,344.0	4,029.0	
Lakeland Mills	94.4%	319,199.0	3,013.2	
BCTS	65.7%	1,450,145.0	9,527.5	
Carrier	99.4%	389,996.0	3,876.6	
TOTAL	87.5%	4,796,976	41,986	87.5%

* Weighted Average Volume = (individual cut volume X individual % money spent in NCI) / 100

** Weighted Average % = (total weighted average volume / total cut volume) X 100

*** % Money spent in NCI does not include taxes

Indicator 43. (5.3.A.a) Payment of Taxes

Indicator Statement	Target and Variance
Percentage of taxes paid on time to the Government	Target: 100% Variance: 0%

Payment of taxes (including Federal, Provincial, and local government taxes) by Licensees and BCTS is a quantifiable indicator of how the public is receiving a portion of the economic benefits derived from forests. It is important to note that Licensees/ BCTS does not control how municipal and other taxes are spent, or whether

the public within the DFA receives benefits. However, it should be assumed that a portion of the monies received from taxes would be returned to communities within the DFA.

A query of the financial data stored within the Licensees accounting systems reported that all taxes for the reporting period between April 1, 2007 and March 31, 2008, were paid on time. This includes GST, property tax and corporate taxes and is based on a weighed average by volume billed.

Table 43: Taxes and Stumpage Paid on Time to Governments

Licensee	% Taxes Paid on Time*	% Stumpage Paid on Time**	AAC
Canfor	100	100 %	2,211,292
Winton Global	100	100 %	505,541
Lakeland Mills	100	100 %	254,102
BCTS	n/a	n/a	n/a
Carrier	100	100 %	389,996
TOTAL			3,360,931

* This includes GST, property tax and corporate tax only

** % = (Weighted by AAC)

Indicator Discussion: Government organizations such as BCTS do not pay taxes to government.

Indicator 44. (5.3.A.a) Stumpage Paid to Government

Indicator Statement	Target and Variance
The percent of stumpage paid on time to Government	Target: 100% Variance: 0%

The payment of stumpage owing on the timber harvested by Licensees is a quantifiable indicator of how the public in the Prince George DFA is receiving a portion of the economic benefits derived from the forest. Forests provide many ecological benefits to areas that surround them and also generate significant socio-economic benefits. In order to ensure continual sustainable socio-economic conditions for local DFA communities, all stumpage billings are to be paid on time. Each month, the provincial government invoices the Licensees for stumpage. This invoice is directed to the accounting and payroll departments for immediate processing. During the reporting period of April 1, 2007 and March 31, 2008, 100% of stumpage fees were paid on time.

Indicator 45. (5.3.A.a.iii) Loss Time Accidents

Indicator Statement	Target and Variance
Number of loss time accidents (days) in Woodland Operations	Target: 0 Variance: 0

The health and safety of forest workers and members of the public is an important objective that is essential to SFM. All Licensees and BCTS consider employee and public safety as a primary focus for all forestry-related operations. Evidence of this high priority can be seen in various company mission or policy statements. This indicator was developed to track and report out on the number of loss time workplace accidents that occur within the woodlands division of each Licensee and the field operations of BCTS. Activities conducted outside of woodlands operations have been excluded from this indicator; however Licensees and BCTS currently promote safety in all aspects of forest management operations.

Monitoring and reporting the number of workplace loss time accidents will help Licensees identify problems with procedures and increase overall awareness in order to prevent future injuries and accidents. The current status for this measure is derived through an analysis of safety reports and a tally of all loss time accidents.

Table 44 shows the number of lost time accidents reported between April 1, 2007 and March 31, 2008 in the Woodland Operations of the signatory licensees.

Table 44: Number of Loss Time Accidents in Woodlands Operations

Licensee	Number of Loss Time Accidents
Canfor	0
Winton Global	0
Lakeland Mills	0
BCTS	0
Carrier	0
TOTAL	0

Indicator discussion: No loss time accidents for woodlands operations were recorded in reporting year.

Indicator 46. (6.1.A.a) Legally Recognized Treaty Areas

Indicator Statement	Target and Variance
No unauthorised forestry activities within legally recognized (Province and Federal) treaty areas.	Target: 100% Variance: 0%

A treaty is a negotiated agreement that spells out the rights, responsibilities and relationships of First Nation peoples and the Federal and Provincial governments (Government of BC, 2005). Depending on the nature of the treaty, specific First Nation people will exercise a variety of rights over the area outlined by the treaty. Any forestry activities that occur in these areas without the permission of the appropriate First Nation peoples could have serious legal, economic, and social repercussions. Respecting Aboriginal treaty rights is part of sustainable forest management as it protects social and economic values. The following First Nation peoples are within the DFA:

- Lheidli T'enneh (Lheit-Lit'en) First Nation
- Lhoosk'uz Dene Nation (Kluskus First Nation)
- McLeod Lake (Tsekani) First Nation
- Nak'azdli Band
- Nazko Band
- Simpcw First Nation (North Thompson)
- Red Bluff Band
- Saik'uz First Nation
- Halfway River First Nation
- West Moberly First Nations

Table 45 shows that one authorized forest operation, was carried out within the DFA Treaty areas, during this reporting period.

Table 45: Forest Activities within Legally Recognized Treaty Areas

Licensee	Total Number of Forest Operations within Treaty Areas				Number of Authorized Forest Activities	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	1	1	1	100%
Winton Global	0	0	0	0	0	
Lakeland Mills	0	0	0	0	0	
BCTS	0	0	0	0	0	
Carrier	0	0	0	0	0	
TOTAL	0	0	1	1	1	

* % = (Number of authorized activities inside legally recognized treaty areas/ total number of activities in treaty areas) X 100

Indicator 47. (6.1.A.a) Forest Stewardship Plan Referral to First Nations

Indicator Statement	Target and Variance
All Forest Stewardship Plans (FSP) and associated major amendments are referred to affected Aboriginal bands	Target: 100% Variance: 0%

This indicator is designed to evaluate the success of providing opportunities to Aboriginal peoples to be involved in the forest management planning processes. Specifically, all Forest Stewardship Plans and associated major amendments are to be referred to affected Aboriginal bands for their input. Incorporation of First Nation peoples and their unique perspective into the forest planning process is an important aspect of SFM. This indicator will contribute to respecting the social, cultural and spiritual needs of the people who traditionally and currently use the DFA for the maintenance of traditional aspects of their lifestyle.

Licensees and BCTS currently have individual working relationships with local First Nation communities within the DFA. All of these First Nation communities have had the opportunity for participation and input into the SFM planning process. To maintain a high level of participation and response, Licensees/ BCTS have engaged First Nation people, within their communities as they have requested, to provide greater opportunity for involvement in the Prince George SFMP process.

As shown in the following table, during the reporting period, 100% of the required referrals to Aboriginal Bands were done.

Table 46: FSP and Associated Major Amendments Referred to Affected Aboriginal Bands

Licensee	Number of FSP and Associated Major Amendments Completed	Number Referred to Affected Aboriginal Bands	% for DFA*
Canfor / Carrier	2	2	100%
Sinclair**	1	1	
BCTS	2	2	
TOTAL	5	5	

* % = (Number of FSP and major amendments referred / total number of FSP and major amendments completed) X 100

**Sinclair includes Winton Global Lumber Ltd. and Lakeland Mills Ltd.

Indicator 48. (6.1.A.a) Pesticide Management Plan Referrals to First Nations

Indicator Statement	Target and Variance
The percentage of Pest Management Plans (PMP) and associated major amendments are referred to affected Aboriginal bands	Target: 100% Variance: 0%

This indicator will measure the success of Licensees/ BCTS referrals of all Pesticide Management Plans and associated major amendments, to affected Aboriginal bands. Licensees/ BCTS use a variety of pesticides during the forest management process. The primary objective is to control competing vegetation on regenerated cutblocks. Industrial users of non-high risk class pesticides are required to prepare Pest Management Plans (PMP) that require public consultation as part of the PMP preparation process. Including Aboriginal communities in the planning and communication process is fundamental to recognizing their unique interests in the forest, and an integral part of sustainable forest management. Pesticides may have to be used within the DFA to meet certain forestry objectives and Pest Management Plans outline the details of use. Use may include areas of interest to various First Nation groups and then referral of plans for input is required. The location and type of pesticide use may change as a result of their consultation.

Table 47 shows that 100% of the required Pesticide Management Plans and associated major amendments referrals to Aboriginal Bands were completed during this reporting period within the DFA.

Table 47: All PMP and Associated Major Amendments referred to Affected Aboriginal Bands

Licensee	PMP and Associated Major Amendments Completed	PMP and Amendments Referred to Affected Aboriginal Bands	% for DFA*
Canfor	0	0	
Winton Global	0	0	
Lakeland Mills	0	0	
BCTS	0	0	
Carrier	0	0	
TOTAL	0	0	

* % = (Number of FSP and major amendments referred / total number of FSP and major amendments completed) X 100

Indicator 49. (6.2.A.a) Cultural Heritage Requirements

Indicator Statement	Target and Variance
The percentage of forest operations consistent with cultural heritage requirements as identified in operational plans	Target: 100% annually Variance: 0%

Protection of cultural heritage values assures identification, assessment and their availability for future generations. A cultural heritage value is a unique or significant place or feature of social, cultural or spiritual importance. It may be an archaeological site, recreation site or trail, cultural heritage site or trail, historic site or a protected area. Cultural heritage values often incorporate First Nation's heritage and spiritual sites, but they can also involve features protected and valued by non-aboriginal people. Maintenance of cultural heritage values is an important aspect to sustainable forest management because it contributes to respecting the social and cultural needs of people who traditionally and currently use the DFA for a variety of reasons.

Forest plans have used an Archaeological Predictive Model to assess the potential presence of archaeological resources within proposed harvest areas or road access corridors. Where activities are proposed within zones of high archaeological potential, Licensees and BCTS conduct site level Archaeological Evaluations (AE) to identify, assess and record any archaeological resources that may be present. Once a strategy to conserve cultural heritage values is included within an operational plan, there is a legal obligation for the licensee to implement and adhere to the strategy. Post harvest and subsequent silviculture inspections ensure that these strategies are implemented as stated in the operational plan.

As shown in the table below, 100% of forest operations conducted between April 1, 2007 and March 31, 2008 within the DFA are consistent with cultural heritage requirements..

Table 48: Forest Operations Consistent with the Cultural Heritage Requirements

Licensee	Number of Forest Operations with Cultural Heritage Requirements				Total with Cultural Heritage Requirements Met	% for DFA *
	Roads	Harvesting	Silviculture	Total		
Canfor	34	48	0	82	82	
Winton Global	0	4	1	5	5	
Lakeland Mills	9	4	6	19	19	
BCTS	0	8	0	8	8	
BCTS (FLA70174)	4	2	1	7	7	
Carrier	0	0	1	1	1	
TOTAL	47	66	9	122	122	100%

* % = (Operations completed in accordance with cultural heritage requirements / total operations completed) X 100

Indicator 50. (6.2.A.a) Heritage Conservation Act

Indicator Statement	Target and Variance
Percent of forest operations consistent with the Heritage Conservation Act	Target: 100% Variance: 0%

The *Heritage Conservation Act's* stated purpose is "to encourage and facilitate the protection and conservation of heritage property in British Columbia". The act prohibits activities that will damage specific heritage resources. There are many heritage resources in the DFA that are protected by the Act. Some of the more

common features that are of concern to forestry operations are culturally modified trees, cache pits and pit house sites. Measures must be taken to ensure forest operations are consistent with the Heritage Conservation Act to preserve and manage these features to meet social and cultural needs of First Nation people and the broader community within the DFA.

Known features protected under the Act are relatively easy to plan forest operations around. Forest Development Plans also use an Archaeological Predictive Model to assess the potential for archaeological resources within proposed harvest areas or road access corridors. Where activities are proposed within zones of high archaeological potential, Licensees/ BCTS conduct site level Archaeological Impact Assessments (AIA) to identify, assess and record any archaeological resources that may be present. Trained archaeologists identify resources that are to be protected under the Heritage Conservation Act.

As shown in the table below, 100% of forest operations conducted between April 1, 2007 and March 31, 2008 within the DFA are consistent with Heritage Conservation Act.

Table 48: Forest Operations Consistent with the Heritage Conservation Act

Licensee	Number of Forest Operations within Sites Protected under the Heritage Conservation Act (pre1846)				Activities in Compliance with the Act	% for DFA *
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	1	1	1	100%
Winton Global	0	0	0	0	0	
Lakeland Mills	0	0	1	1	1	
BCTS	0	0	0	0	0	
BCTS (FLA70174)	1	1	0	2	2	
Carrier	0	0	0	0	0	
TOTAL	1	1	2	4	4	

* % = (Operations completed in accordance with the Heritage Conservation Act/ total operations completed) X100

Indicator 51. (6.3.A.a) PAG Satisfaction with Public Participation

Indicator Statement	Target and Variance
Percentage of PAG (Public Advisory Group) satisfaction with public participation process	Target: 100%-a rank of 5 (very good) for all meetings Variance: -20% (a rank of 4)

The PAG is one of the key elements of public involvement in the SFM process. The Prince George PAG provided guidance, input and evaluation during development of the SFMP. It is also instrumental in maintaining links to current local values and forest resource uses within the DFA. Therefore, it is important that the Licensees and BCTS have a positive and meaningful working relationship with the PAG, where the Licensees/ BCTS is able to respond to all issues and concerns the PAG may have during this process. This indicator will use an average from the PAG meeting evaluation forms to determine the level of PAG satisfaction with the public participation process.

During the 6 PAG meetings, PAG participants completed formal meeting evaluations. A number of questions were asked under three general headings: 1) Meeting and PAG Progress, 2) Facilitator, and 3) Meeting Logistics. In addition to the questions, the participants were asked to provide suggestions and comments. The meeting evaluations included the question "Are you satisfied with the PAG process?" The answers to the question showed a general improving trend. The overall average was 4.05 (81.0%). This translates as a "good" ranking, with 5 being very good, the highest possible rating.

Table 49: PAG Satisfaction with the Public Participation Process

Prince George Sustainable Forest Management Plan Public Advisory Group	Score	% (score / 5)
Question MQ 11 - Are you satisfied with the PAG process?	4.05	81%

Indicator 52. (6.3.A.a) PAG Terms of Reference

<i>Indicator Statement</i>	<i>Target and Variance</i>
PAG (Public Advisory Group) Terms of Reference reviewed per year	<u>Target:</u> ≥1 <u>Variance:</u> 0

The Terms of Reference document is an important part of the public participation component as it lays out the mutually agreed upon procedures, participants, communication strategies, responsibilities and conduct of the PAG members. The document is intended to provide the necessary framework and proper protocol to ensure the existence of a relevant and functioning PAG. SFM requires public participation and the PAG Terms of Reference ensures these requirements are met, in a credible and transparent fashion. The initial Terms of Reference document was developed by the PAG and accepted as part of the SFMP process on December 9th, 2004. The PAG Terms of Reference is to be reviewed annually to ensure it is up to date with the present day context of SFM. The Licensees and BCTS are responsible for ensuring that PAG members are given adequate notice as to when the Terms of Reference document will be reviewed. This review is part of a scheduled PAG meeting so that all participants are aware of review timelines. The Licensees/ BCTS maintains the Terms of Reference (ToR) document so that any revisions resulting from an annual review will be made and the new document will be distributed to PAG members.

The PAG reviewed the ToR once during this reporting period October 18, 2007 that meets the established target for this indicator.

Indicator 53. (6.3.A.a) Number of PAG Meetings

<i>Indicator Statement</i>	<i>Target and Variance</i>
The number of Public Advisory Group (PAG) meetings per year	<u>Target:</u> ≥3 <u>Variance:</u> -1

The Prince George PAG is made up of a diverse set of representatives that have various defined interests, values or specific uses of the forest resource within the DFA. The PAG provided valuable input with the initial development of values, indicators, measures and targets for the SFMP. PAG members helped to identify local issues and values for the Prince George DFA for forestry managers to consider during the management and planning processes. The PAG will continue to provide guidance, input and evaluation throughout the SFMP process, including all aspects of implementation and continual improvement of the plan over time. PAG participation with the SFMP will also help to demonstrate the achievement of the public participation requirements, which are part of the CSA performance audit requirements.

The Public Advisory Group met 6 times this year exceeding the established target for this indicator.

Table 50: Number of Public Advisory Group Meetings per Year

Meeting	Number of Meetings	<i>Total Number of PAG Meetings</i>
Field Tour	1	
General PAG Meeting	4	6 Target 3
Old Forest Quality Subcommittee Meeting –4 th meeting	1	
2007/08 Total	6	



Fall 2007 PAG Field Trip

Indicator 54. (6.3.A.a) Public Sector Participation in the PAG

Indicator Statement	Target and Variance
Percentage of the public sectors as defined in the Terms of Reference invited to participate in the Public Advisory Group (PAG) process	<u>Target:</u> 100% Annually <u>Variance:</u> 0%

The Prince George PAG is comprised of a variety of representatives that have various defined interests, values or specific uses of the forest resource within the DFA. An important component of the PAG is the representation from the various public sectors as defined in the Terms of Reference.

Their involvement in the PAG process is crucial to the success of the SFMP as they represent a broad range of interests, both commercial and non-commercial, within the DFA. They also possess experience and expertise that Licensees/ BCTS can draw from to achieve sustainable forest management objectives. Their participation will enhance the co-operation between the forest industry and other parties interested in the management of public lands within the DFA to meet the social, economic, and ecological goals of sustainable forest management.

This indicator monitors the efforts made to encourage public sector participation by tracking the percentage of public sectors, as defined in the Terms of Reference, which were invited to participate in the PAG process. The PAG provides the opportunity for participation through such invitations.

As of July 2007, the PAG included at least one representative from 18 of the 19 Terms of Reference listed sectors. Some of the people attending the PAG meetings were affiliated with some of the six First Nation groups listed in the Terms of Reference, but they were not their official representatives.

Table 51: Public Sectors Invited to Participate in the PAG Process

Number of Sectors with a Representative Identified	18
Number of Sectors with No Representative, with invitations on file	1
Total number invited	19
Number of Public Sectors in Terms of Reference (ToR)	19
% of Public Sectors Invited*	100%

* % = (Number of sectors with representation or invitations on file / number of sectors in ToR) X 100

Indicator 55. (6.4.A.a) PAG Satisfaction with Information Presented for Decision Making

Indicator Statement	Target and Variance
Percentage of PAG satisfaction with amount and timing of information presented for informed decision making	<u>Target:</u> 100% <u>Variance:</u> -20%

The PAG is one of the key elements of public involvement in the SFM process. The Prince George PAG provided guidance, input and evaluation during the SFMP development. It is also instrumental in maintaining links to current local values and forest resource uses within the DFA. In order for the PAG to make informed decisions with regard to the SFMP, such as indicators, targets, and levels of responsibility, they must have the background information to support those decisions. This information must be sufficient in quantity, quality and delivered in a timely manner to the PAG to facilitate sound decision making as part of the SFMP process.

This indicator is intended to measure and report the level of satisfaction the PAG members have with the amount and timing of information presented for informed decision-making. While it is hoped that there will be high satisfaction with the provision of background information, it is also acknowledged that with any group of diverse backgrounds and opinions it is difficult to achieve unanimous satisfaction. However, if the SFMP is to succeed, the people who are involved must have a certain level of satisfaction with the information they are using to direct the SFMP development.

Two questions were added to the PAG meeting evaluation forms to address this indicator: MQ12 - how timely was the information, and MQ13 how satisfied were you with the information? The feedback on these two questions was tracked at the PAG meetings during the reporting period. A score of 87% and 83% respectively for these questions is within the target set for this indicator.

Table 52: PAG Satisfaction with the Information Presented for Informed Decision-Making

Prince George SFMP PAG	Score (of 5)	% *
Question MQ 12 - How timely was the information?	4.33	86.6%
Question MQ 13- How satisfied were you with the information?	4.15	83.0%

* % = Score / # of meeting evaluations

Indicator 56. Active Watershed Risk Evaluation (To be reported on in the 2008/09 report)

Indicator Statement	Target and Variance
The percent of active watersheds with PFI greater than the minimum threshold that have had a watershed risk evaluation completed.	Target: 100% Annually Variance: -10%

A watershed is an area of land that contributes water to the flow of a stream or river. With regards to the conservation of water quality in the DFA, it is important to be able to maintain the watershed level conditions within natural ranges of variation to ensure that other users of water are not adversely affected. The peak flow index provides a method to forecast and evaluate the potential effects of future harvesting plans, and to ensure that these harvested areas do not contribute to the degradation of the water resource.

Watersheds in the northern interior of British Columbia have a wide range of sensitivity to peak flows. The sensitivity of a watershed can be evaluated by examining five parameters; peak flow buffering (lakes and wetlands), terrain stability, watershed relief, channel pattern and channel stability. The watershed risk evaluation essentially reviews these five parameters.

As indicated in the SFMP, the licensees and BCTS have committed to reporting out on the number of active watersheds in the DFA.

Table 53: Watersheds

Peak flow Index (PFI) Threshold	Number of Watersheds	Watershed Area (ha)	Total number of Active Watersheds

See table below. As well, the table below identifies the number of watersheds currently exceeding the Peak Flow Targets, and the number of watersheds with a risk evaluation completed. This indicator and risk evaluation process are somewhat new within the PG DFA and, as recognized, will take some time to implement.

Table 54: Active Watersheds with Risk Evaluation Completed

Licensee	Total Number of active watersheds exceeding PFI target or PFI > 30	Number of watersheds that have had a risk evaluation completed	DFA%
Canfor			
Winton Global			
Lakeland Mills			
BCTS			
Carrier			
TOTAL			

Indicator 57. Watersheds Assessed by Qualified Professional

<i>Indicator Statement</i>	<i>Target and Variance</i>
The percent of active high risk watersheds that are assessed by a qualified professional	Target 100% Variance 0%

Table 55: Watersheds assessed by a Qualified Professional

Licensee	Total number Active High Risk Watersheds	Number of these active high risk watersheds that have been assessed by a qualified professional	DFA%
Canfor			
Winton Global			
Lakeland Mills			
BCTS			
Carrier			
TOTAL			

% = (Number of sectors with representation or invitations on file / number of sectors in ToR) X 100

Indicator 58. Operational Consistent with Professional Watershed Recommendations

<i>Indicator Statement</i>	<i>Target and Variance</i>
Percent of active operations within high-risk watersheds that are consistent with recommendations of Hydrologic assessments.	Target 100% Variance 0%

Table 56: Operations Consistent with Professional Watershed Recommendations

Licensee	Total number of operations within high risk watersheds	Number of these operations that are carried out consistent with the recommendations of the qualified professional	DFA%
Canfor			
Winton Global			
Lakeland Mills			
BCTS			
Carrier			
TOTAL			

This is a new indicator and a lot of work is still in progress to review and implement the assessments that are still ongoing for many of the active watersheds in the DFA. Efforts to evaluation the Lodgepole Pine leading stands and determine the impacts of harvesting these Mountain Pine Beetle stands versus leaving these stands is in progress.

There is ongoing review and assessment of active watersheds in the DFA.

Monitoring and Reporting Procedures

For those watersheds in the DFA with PFIs higher than the threshold a risk evaluation is required before operations commence. Licensees/ BCTS will develop systems to monitor future planned harvesting to ensure that evaluations are completed. Planners will be primarily responsible for conducting risk evaluations. Evaluations may be conducted using several sources of information such as aerial photography, contour maps and hydrologic maps of the area. Forest cover and past and proposed harvesting will also be used. Much of this information is in a digital form available for use in Geographic Information Systems (GIS). GIS analysis may aid in calculating some of the risk parameters. Licensees and BCTS intend to share information about recent harvesting where operations of more than one licensee exist in a watershed. The annual report will be produced with information about the number of active watersheds within a given reporting period and the proportion of those that were evaluated for risk prior to operations commencing. The report will also contain the proportion of active high-risk watersheds that were assessed. Finally, for operations within high-risk watersheds, the proportion of those conducted consistent with the recommendations of qualified professional. Databases such as GENUS, or similar systems, will be maintained to provide up to date planning information. Indicators 56, 57 and 58 will be reported on in the 2008/09 Annual Report.

Indicator 59. Compliance with Species at Risk and Sites of Biological Importance Management Strategies

Indicator Statement	Target and Variance
Percentage of forest operations that adhere to licensee specific management strategies for: <ul style="list-style-type: none"> • Species at Risk (plants, plant communities, and Important wildlife, fish, and bird species; and, • Sites of Biological Significance 	<p><u>Target:</u> 100%</p> <p><u>Variance:</u> -5%</p>

This indicator evaluates the success of implementing specific management strategies for Species at Risk and Sites of Biological Importance as prescribed in operational plans. Appropriate management of these species and their habitat is crucial in ensuring populations of flora and fauna are sustained in the DFA.

Licensees and BCTS must ensure:

- Key staff are trained in SAR and Sites of Biological Importance identification;
- SAR listings are reviewed and management strategies are updated periodically
- Implementation of strategies are carried out through operational plans;
- Report out annually to the Public and submit all sightings and occurrences to the BC. Conservation Data Center

All Licensees and BCTS currently have systems in place to evaluate the consistency of forest operations with operational plans. Tracking this consistency will ensure problems in implementation are identified and corrected in a timely manner.

Table 57 Forest Operations Consistent with Species and Risk and Sites of Biological Importance

Licensee	Number of Forest Operations with Species at Risk and Sites of Biological Importance Management Strategies				Forest Operations Consistent with Identified Strategies	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	6	6	4	10	10	
Winton Global	0	7	0	7	7	
Lakeland Mills	2	2	0	4	4	
BCTS						
BCTS (FLA70174)	0	4	0	4	4	
Carrier	0	2	0	2	2	
TOTAL						100

- % = (# of operations in accordance with identified strategies/ total operations with Species at Risk management strategies) X 100

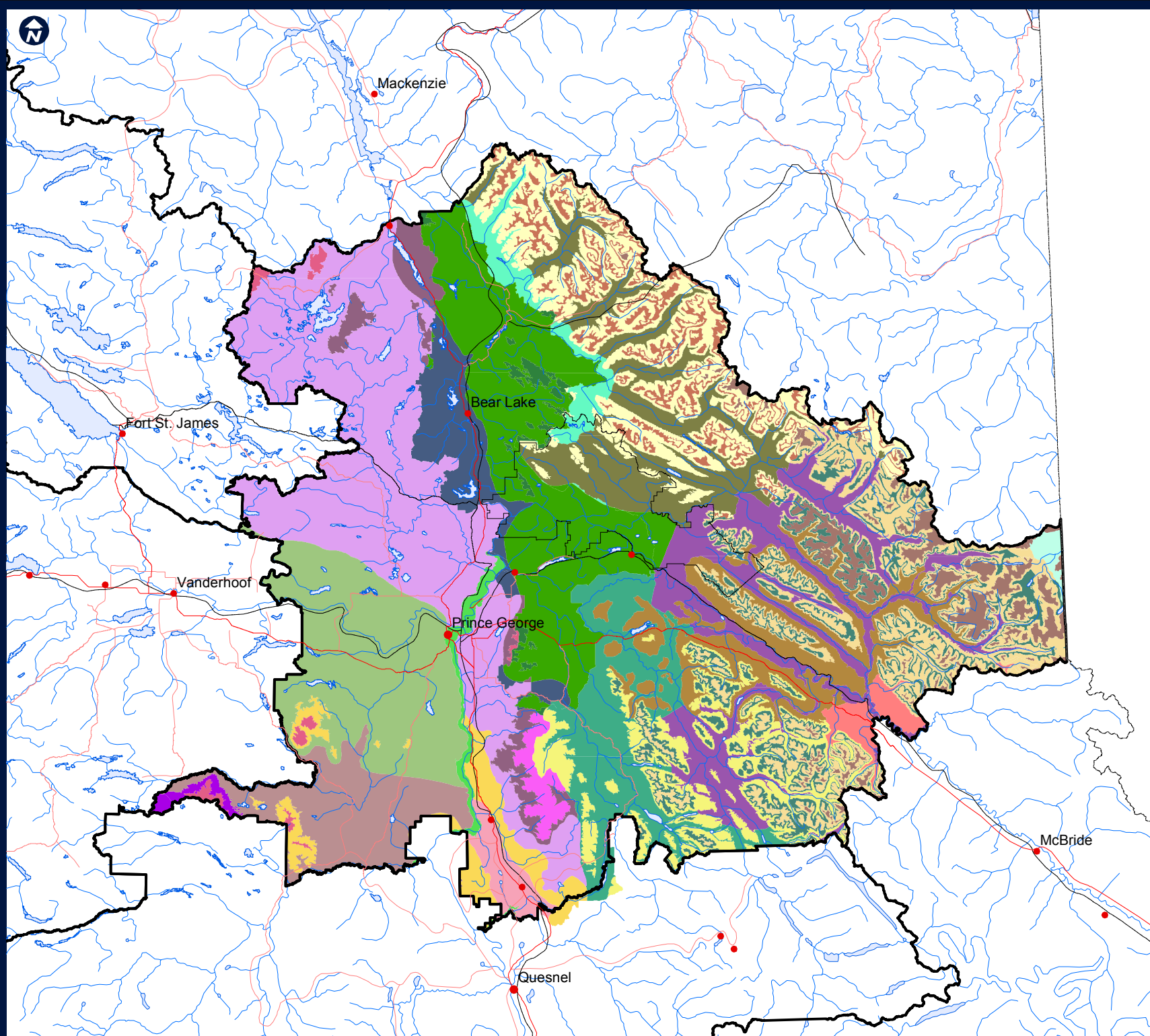
Indicator Discussion: Licensees and BCTS completed the annual review of SAR and Site of Biological Importance through a FIA project completed March 31, 2008. The *'Management Guidelines for Species at Risk and Plant Communities at Risk in the Prince George Timber Supply Area – 2007'* was not updated at the time of the Annual Report., however, this is intended to be updated during the 2008-09 FIA fiscal. As shown in the following table, 100% of the forest operations were consistent with these strategies during the 2007/08 reporting period. Training for key staff was conducted during the 2007/08 reporting period.

Table 58: Key Staff

Licensee	Key Staff trained to Identify SAR & Sites of Biological Significance	Key Staff** Involved in Management Activities
Canfor	54	55
Winton Global	6	6
Lakeland Mills	5	5
BCTS	28	30
Carrier	7	7
TOTAL	100	103

APPENDIX 1.0: NDU Merged BEC Descriptions and Maps

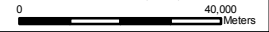
Natural Disturbance Unit (NDU)	NDU/ Merged BEC	Description
Boreal Foothills	A1	Boreal Foothills - Mountain ESSFmv 2
McGregor	A2	McGregor Plateau ESSFwk 2
McGregor	A3	McGregor Plateau SBS mk 1
McGregor	A4	McGregor Plateau SBS wk 1
Moist Interior	A5	Moist Interior - Mountain ESSFmv 3
Moist Interior	A6	Moist Interior - Mountain ESSFwk 1
Moist Interior	A7	Moist Interior - Plateau SBS mh
Moist Interior	A8	Moist Interior - Plateau SBS mc 2
Moist Interior	A9	Moist Interior - Plateau SBS mw
Moist Interior	A10	Moist Interior - Plateau SBS wk 1
Moist Interior	A11	Moist Interior - Plateau SBS dw 2
Moist Interior	A12	Moist Interior - Plateau SBS dw 3
Moist Interior	A13	Moist Interior - Plateau SBS mk 1
Wet Mountain	A14	Wet Mountain ESSFwk 2
Wet Mountain	A15	Wet Mountain ESSFwc 3
Wet Mountain	A16	Wet Mountain SBS wk 1
Wet Mountain	A17	Wet Mountain SBS vk
Wet Trench	A18	Wet Trench - Mountain ESSFwcp
Wet Trench	A19	Wet Trench - Mountain ESSFwk 2
Wet Trench	A20	Wet Trench - Mountain ESSFwc 3
Wet Trench	A21	Wet Trench - Mountain ESSFwk 1
Wet Trench	A22	Wet Trench - Valley ICH wk 3
Wet Trench	A23	Wet Trench - Valley ICH vk 2
Wet Trench	A24	Wet Trench - Valley SBS wk 1
Wet Trench	A25	Wet Trench - Valley SBS vk



Prince George SFMP Merged BEC Map

Reference Map #2

Scale: 1:1,500,000



NDU Merged Biogeoclimatic Units

A1	A19	A4
A10	A2	A5
A11	A20	A6
A12	A21	A7
A13	A22	A8
A14	A23	A9
A15	A24	AAT
A16	A25	AXX
A17	A3	

Water Feature

	River/Stream
	Lake

Access Management

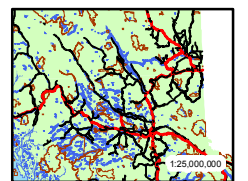
	Highway
	Secondary Road
	Rail Line

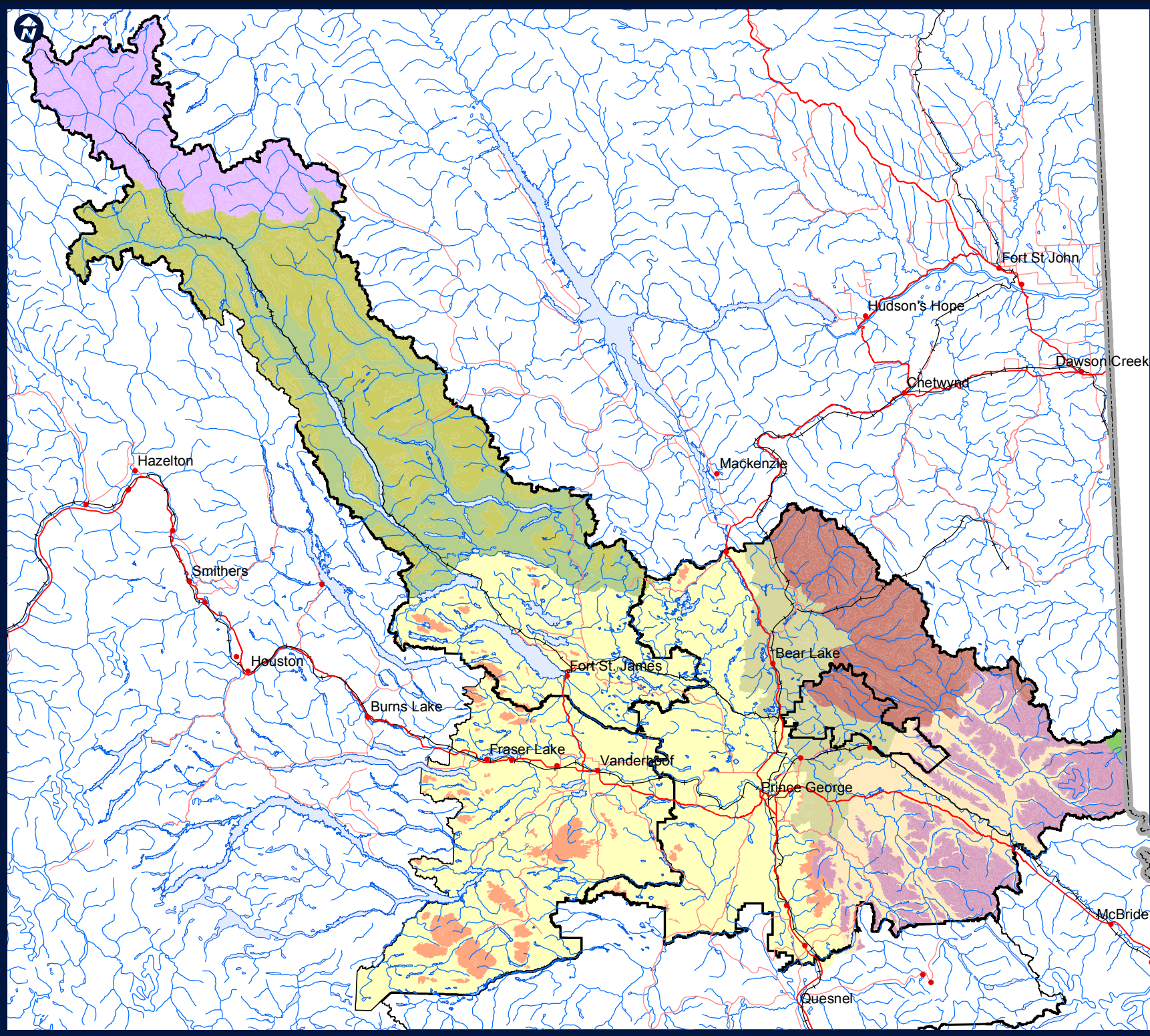
Other Features

	Town
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This map was developed using base data provided by government.

Keymap





**Prince George SFMP
NDU Map**

Reference Map #1

Scale: 1:2,500,000



Natural Disturbance Unit

- Boreal Foothills-Mountain
- McGregor Plateau
- Moist Interior-Mountain
- Moist Interior-Plateau
- Northern Boreal Mountains
- Omineca
- Omineca-Mountain
- Omineca-Valley
- Wet Mountain
- Wet Trench-Mountain
- Wet Trench-Valley

Water Feature

- River/Stream
- Lake

Access Management

- Highway
- Secondary Road
- Rail Line

This map was developed using base data provided by government.

