SUSTAINABLE FOREST MANAGEMENT PLAN

2007-08 Annual Report

July 16, 2008

TREE FARM LICENCE 30

Canadian Forest Products Ltd.

Prince George Operations

BC Timber SalesPrince George Business Area





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1.0 INTRODUCTION

Canadian Forest Products Ltd. (Canfor) achieved registration under the Canadian Standards Association CAN/CSA Z809-96 Sustainable Forest Management Standards for Tree Farm Licence 30 in July 2001.

The TFL30 Public Advisory Group (PAG) was formed in September 2000 to help Canfor identify quantifiable local-level indicators and objectives of Sustainable Forest Management. Originally, 40 indicators and objectives were identified by the TFL 30 PAG and associated with forest management practices to achieve those objectives in a Sustainable Forest Management Plan (SFMP) for Tree Farm Licence 30 (Canfor SFMP, June 2001).

British Columbia Timber Sales (BCTS) accepted the invitation to cooperate in a joint SFM plan in the fall of 2005. Canfor and BCTS (Prince George Business Area) achieved registration under an updated certification standard (CSA-Z809-02) in June 2006. As a result of the new standard and the continuous improvement process, the number of indicators has expanded to 56.

It is important to note that the TFL30 SFMP is a working document and is subject to continual improvement. Over time, new knowledge, experience and research will be incorporated in order to recognize society's environmental, economic and social values.

This Annual Report measures the signatories' performance in meeting the indicator targets outlined in the SFMP for the TFL30 Defined Forest Area (DFA), over the reporting period of April 1st 2007 to March 31st 2008. The intent of the Report is for sustainable forest management to be viewed by the public as an open and evolving process to meet the challenge of forest management on the TFL30 DFA for the benefit of present and future generations.

For further reference to the intent of the Indicators and Objectives, or the practices involved, the reader should refer to Canfor's Sustainable Forest Management Plan for Tree Farm Licence 30 (Canfor SFMP, February 2008).

2.0 EXECUTIVE SUMMARY

Of the 56 indicators listed in the following table, 53 indicators were met within the prescribed variances and 3 indicators were not met within the prescribed variances. A corrective and preventative action plan is contained in the indicator discussions for each non-conformance indicator.

3.1 Old Forest		Indicator	Criteria & Elements Matrix	Objective Met	Objective Pending	Objective Not Met
3.3 Young Forest Patches 1.1c X Wet Trench & Wet Mountain Young Patch Size Distribution 1.1d X X X X X X X X X	3.1	Old Forest	1.1a, 2.1a	X		
3.4 Wet Trench & Wet Mountain Young Patch Size Distribution 1.1d X			,			
Young Patch Size Distribution		3	1.1c	X		
3.6 Stand Level Retention 1.4e X 3.6 Stand Level Retention 1.1ff, 1.3c X 3.7 Coarse Woody Debris 1.1gh, X X 3.8 Caribou Habitat 1.2a X 3.9 Species at Risk Notice / Orders & Habitat 1.2b, c X 3.10 Riparian Management Areas 1.2d X 3.11 Personnel Trained to Identify Species at Risk & Sites of Biological Significance X X 3.12 Species at Risk & Sites of Biological Significance 1.2f X 3.12 Species at Risk & Sites of Biological Significance 1.2f X 3.12 Species at Risk & Sites of Biological Significance 1.2f X 3.12 Species at Risk & Sites of Biological Significance 1.2f X 3.13 Native Plant Species Diversity 1.2g X 3.14 Deciduous Tree Species 1.2h X 3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 1.3b X 3.16 Distinct Habitat Types	3.4			Х		
3.7 Coarse Woody Debris 1.1g,h X 3.8 Caribou Habitat 1.2a X 3.9 Species at Risk Notice / Orders & Habitat 1.2b,c X 3.10 Riparian Management Areas 1.2d X 3.11 Personnel Trained to Identify Species at Risk & Sites of Biological Significance 1.2e, 1.4a,b X 3.12 Species at Risk & Sites of Biological Significance 1.2f X 3.13 Native Plant Species Diversity 1.2g X 3.14 Deciduous Tree Species 1.2h X 3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 1.3b X 3.17 Chief Forester's Standards for Seed Use 1.3d X 3.18 Wild life Biodiversity Corridors X 3.19 Site Index X 3.20 Soil Conservation X 3.21 Permanent Access Structures / Land Conversion X 3.22 Terrain Stability X 3.23 Reportable Spills X 3.24 Stream Crossing Quality Index X 3.25 Stream Crossing Undex X 3.26 Peak Flow Index X 3.27 Sediment Occurrence Mitigation X 3.28 Net Area Reforested X 3.29 Meeting Free Growing Dates X 3.20 Carbon Storage X	3.5	Biodiversity Reserves		Х		
3.8 Caribou Habitat 1.2a X						
3.9 Species at Risk Notice / Orders & Habitat 3.10 Riparian Management Areas 1.2d X 3.11 Personnel Trained to Identify Species at Risk & Sites of Biological Significance 3.12 Species at Risk & Sites of Biological Significance 3.13 Native Plant Species Diversity 3.14 Deciduous Tree Species 3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 3.16 Distinct Habitat Types 3.17 Chief Forester's Standards for Seed Use 3.18 Wild life Biodiversity Corridors 3.19 Site Index 3.20 Soil Conservation 3.21 Permanent Access Structures / Land Conversion 3.22 Terrain Stability 3.24 Stream Crossing Quality Index 3.25 Stream Crossing Quality Index 3.26 Peak Flow Index 3.27 Meeting Free Growing Dates 3.29 Meeting Free Growing Dates 3.20 Souro Storage 3.20 Meeting Free Growing Dates 3.20 Meeting Free Growing Dates 3.20 Meeting Free Growing Dates 3.20 Scrobon Storage	3.7		1.1g,h			
Orders & Habitat 3.10 Riparian Management Areas 1.2d X 3.11 Personnel Trained to Identify Species at Risk & Sites of Biological Significance 3.12 Species at Risk & Sites of Biological Significance 3.13 Native Plant Species Diversity 3.14 Deciduous Tree Species 3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 3.16 Distinct Habitat Types 3.17 Chief Forester's Standards for Seed Use 3.18 Wild life Biodiversity Corridors 3.19 Site Index 3.20 Soil Conservation 3.21 Permanent Access Structures / Land Conversion 3.22 Terrain Stability 3.23 Reportable Spills 3.26 Peak Flow Index 3.27 Sediment Occurrence Mittigation 3.28 Net Area Reforested 3.29 Meeting Free Growing Dates 3.20 Meeting Free Growing Dates 3.20 Meeting Free Growing Dates 3.21 Merical Structures / Land Conversion 3.22 Meeting Free Growing Dates 3.23 Meeting Free Growing Dates 3.24 Meeting Free Growing Dates 3.25 Meeting Free Growing Dates			1.2a	X		
3.11 Personnel Trained to Identify Species at Risk & Sites of Biological Significance 3.12 Species at Risk & Sites of Biological Significance 1.2f X Management Strategies 1.2f X Management Strategies 1.2h X 3.13 Native Plant Species Diversity 1.2g X 3.14 Deciduous Tree Species 1.2h X 3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 3.16 Distinct Habitat Types 1.3b X 3.17 Chief Forester's Standards for Seed Use 1.3d X 3.18 Wild life Biodiversity Corridors X 3.19 Site Index 3.20 Soil Conservation X 3.20 Soil Conservation X 3.21 Permanent Access Structures / Land Conversion X 3.22 Terrain Stability X 3.23 Reportable Spills X 3.24 Stream Crossing Quality Index X 3.25 Stream Crossing Installation X 3.26 Peak Flow Index X 3.27 Sediment Occurrence Mitigation 3.28 Net Area Reforested X 3.29 Meeting Free Growing Dates X 3.30 Carbon Storage X 3.30 Meeting Free Growing Dates X 3.30 Carbon Storage X 3.30 Carbon Storage X X	3.9		1.2b,c	Х		
Species at Risk & Sites of Biological Significance 3.12 Species at Risk & Sites of Biological Significance		Riparian Management Areas	1.2d	Х		
Biological Significance Management Strategies 3.13 Native Plant Species Diversity 3.14 Deciduous Tree Species 3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 3.16 Distinct Habitat Types 3.17 Chief Forester's Standards for Seed Use 3.18 Wild life Biodiversity Corridors 3.19 Site Index 3.20 Soil Conservation 3.21 Permanent Access Structures / Land Conversion 3.22 Terrain Stability 3.23 Reportable Spills 3.24 Stream Crossing Quality Index 3.25 Stream Crossing Installation 3.26 Peak Flow Index 3.27 Sediment Occurrence Mitigation Ecosympa Street Growing Dates 3.29 Meeting Free Growing Dates 3.20 Carbon Storage		Species at Risk & Sites of Biological Significance	1.2e, 1.4a,b	Х		
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3.15 Effectiveness Monitoring Plans for Selected Wildlife Species and Ecosystem Resilience 3.16 Distinct Habitat Types 3.17 Chief Forester's Standards for Seed Use 3.18 Wild life Biodiversity Corridors 3.19 Site Index 3.20 Soil Conservation 3.21 Permanent Access Structures / Land Conversion 3.22 Terrain Stability 3.23 Reportable Spills 3.24 Stream Crossing Quality Index 3.25 Stream Crossings Installation 3.26 Peak Flow Index 3.27 Sediment Occurrence Mitigation 3.28 Net Area Reforested 3.29 Meeting Free Growing Dates 3.30 Carbon Storage	3.13	Native Plant Species Diversity	1.2g	Х		
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Seed Use	3.16	Distinct Habitat Types	1.3b			Х
3.19 Site Index	3.17		1.3d	X		
3.20 Soil Conservation X 3.21 Permanent Access Structures / Land Conversion X 3.22 Terrain Stability X 3.23 Reportable Spills X 3.24 Stream Crossing Quality Index X 3.25 Stream Crossings Installation X 3.26 Peak Flow Index X 3.27 Sediment Occurrence Mitigation X 3.28 Net Area Reforested X 3.29 Meeting Free Growing Dates X 3.30 Carbon Storage X		•				
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3.27 Sediment Occurrence Mitigation 3.28 Net Area Reforested 3.29 Meeting Free Growing Dates 3.30 Carbon Storage X	3.25	Stream Crossings Installation		X		
Mitigation X 3.28 Net Area Reforested X 3.29 Meeting Free Growing Dates X 3.30 Carbon Storage X	3.26	Peak Flow Index		X		
3.29 Meeting Free Growing Dates X 3.30 Carbon Storage X	3.27			X		
3.30 Carbon Storage X						
		<u> </u>				
3.31 Volume of Timber Harvested X						
	3.31	Volume of Timber Harvested		X	<u> </u>	

3.32	Damaging Agent Assessment	1	X	-
3.33	Accidental Industrial Fires		X	
3.34	Non-Timber Benefits		^	
3.34	Requirements		X	
2.25				
3.35	Public Input Opportunity and		X	
2.20	Response to Public Concerns		V	
3.36	Viewing of Access Plans		Х	
3.37	Survey of Non-Timber Uses			
	and List of Quality & Value of		X	
0.00	Non-timber Forest Products			
3.38	Local Contract Value		Х	
3.39	Supply of Timber to Local		X	
	Processing Facilities			
3.40	Main Access Road Maintained		X	
3.41	1 0		Х	
3.42	Average Income of DFA		X	
	Workers		Λ	
3.43	Donation to the Local		X	
	Community		Λ	
3.44	Safe Certification			X
3.45			X	
3.46	FSP Referral and PMP Referral		X	
	to First Nations		^	
3.47	Heritage Conservation Act		X	
3.48	Aboriginal Participation in		Х	
	Planning Process		^	
3.49	Aboriginal Issues Evaluated		X	
3.50	Aboriginal Strategy		Х	
	Incorporation		^	
3.51	PAG Follow Up Survey		X	
3.52	Number of Public Advisory		V	
	Group Meetings		X	
3.53	Public Sector Participation in		V	
	the PAG		X	
3.54	PAG and Interested Parties		· ·	
	Satisfaction		X	
3.55	Continuous Improvement			
1	Matrix		X	
3.56	Alder Conversion	1.4d	Х	

3.0 SFM INDICATORS AND OBJECTIVES

3.1 OLD FOREST

Indicator: The amount of old forests by landscape unit/Natural Disturbance Type within the DFA.

Management Objective: Maintain old forests consistent with the targets (0% variance) in Table 1.

This indicator reflects the "state of the forest" and portrays the percentage of the landscape that is represented by the older age classes. Table 1 identifies the current status of old forest representation and targets associated with each landscape and ecosystem on TFL 30.

The old forest objective has been met in 2007/08 as 100% of the mature and old seral stage targets that were to be achieved annually were accomplished.

In a number of cases due to natural disturbances (such as fire) and past harvesting, the status of the old forest category is below the target required. As the forest grows older, the status will trend toward the targets. In these circumstances, it will take several decades before the targets are achieved. In old forest stages areas below the target, harvesting will not normally occur until the status is above the targets. Exceptions to this may be made for forest protection activities (beetles, windthrow).

See comments under Interior Old Forest page 4 with respect to timing and measurement units to be used going forward.

Table 1. Current State of Old Forest

Land- scape Unit	N D T	BEC Subzones	Old Forest Stage (years)	Current Status % March 31, 2008	Target %	Achieved By
A	3	SBSwk1, mk1	Old>140	36.2%	> 11%	Annually
Averil	1	ICHvk2	Old>250	40.6%	> 13%	Annually
	1	ESSFwk2	Old>250	2.2%	> 19%	2026
	2	SBSvk	Old > 250	61%	> 9%	2011
	3	SBSwk1	Old > 140	68.6%	> 11%	Annually
Seebach	1	ICHvk2	Old > 250	47.9%	> 13%	Annually
	1	ESSFwk2, wc3	Old > 250	25.8%	> 19%	2031
Woodall	2	SBSvk	Old > 250	44.2%	> 9%	2011
	1	ICHvk2	Old > 250	36.2%	> 13%	2016

1	ESSFwk2, wc3	Old > 250	5.7%	> 19%	2071
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3.2 INTERIOR OLD FOREST

Indicator: The amount of old interior forest by Natural Disturbance Unit (NDU)/merged Biogeoclimatic Ecosystem Classification (BEC) within the DFA.

Management Objective: Achieve the targets of total interior old forest area by NDU/Merged BEC as per Table 2 (0% variance).

Old interior forest conditions are achieved when the climatic and biotic impact of adjacent younger stands no longer influences environmental conditions. This indicator is important because many species are dependent upon old interior forest conditions for their habitat requirements.

Table 2. Current Interior Old Forest Condition and Forecasting Results

NDU/Merged BEC	Target Total Old Forest Area (ha)	Target Old Interior (%)	Target Old Interior (ha)	Old Interior (%) as of Mar '08	Current Old Interior (ha) as of Mar 31, 2008	Old Interior in 50 years (%)	Old Interior in 50 years (ha)
A2 NDU_McGregor Plateau_ESSF	137	<u>></u> 40%	<u>></u> 55	190%	260	5%	7
A3 + A13 NDU_McGregor Plateau_SBSmk1	816	<u>></u> 25%	<u>></u> 204	282%	2301	1%	12
A4 NDU_McGregor Plateau_SBSvk, wk1	13,397	<u>></u> 10%	<u>≥</u> 1,340	35%	4635	4%	507
A14 NDU_Wet Mountain_ESSFwk2	3,907	<u>></u> 40%	<u>≥</u> 1,563	92%	3612	77%	3,006
A15 NDU_Wet Mountain_ESSFwc3	2,479	<u>></u> 40%	<u>></u> 992	48%	1192	83%	2,049
A16 NDU_Wet Mountain_SBSwk1	1,273	<u>></u> 25%	<u>></u> 318	139%	1768	24%	310
A17 NDU_Wet Mountain_SBSvk	28,952	<u>></u> 25%	<u>></u> 7,238	66%	18,983	7%	2,025
A19 NDU_Wet Trench Mountain_ESSFwk2	935	<u>></u> 40%	<u>></u> 374	109%	1019	105%	983
A20 NDU_Wet Trench Mountain_ESSFwc3	29	<u>></u> 40%	<u>></u> 11	105%	30	105%	30
A23 NDU_Wet Trench- Valley_SBSwk1	1	<u>></u> 10%	<u>></u> 0	0%	0	0%	0
A25 NDU_Wet Trench- Valley_SBSvk	10,342	<u>></u> 25%	2,585	30%	3117	5%	509

The old interior forest objective has been met in 2007/08 as 100% of the mature and old seral stage interior forest targets were achieved.

Prior to 2006 this indicator was reported out at the Landscape Unit by Natural Disturbance Type level. This aligns with the current old forest analysis. Note the two different units being reported on page 3. At the time the recommendation was made to move to the Natural Disturbance Units (NDU) by merged Biogeoclimatic (BEC) Zones, the intention was that TFL30 would be rolled into the Prince George Timber Supply Area (TSA) Landscape Biodiversity Order. This has yet to be acted upon and therefore, it is not reasonable to continue running two different analysis methodologies. In addition, completing the analysis annually is deemed unnecessary when very low levels of harvesting operations occurring.

These concepts were brought to the attention of the TFL30 PAG on June 17, 2008 and it was noted that 1) the newer NDU Merged BEC Units would be implemented going forward for both Old Forest and Old Interior Forest analysis and 2) 2008 will be the baseline data and these indicators will be reported every 3 years, until such time that activities increase.

Regardless of the measurement units applied, old and old interior forests are being monitored over time. In these areas, current and future practices will be to continue to harvest while monitoring the interior old forest status to ensure the minimum threshold limits are maintained.

3.3 YOUNG FOREST PATCHES

Indicator: The young forest patch size distribution by NDU/merged BEC within the DFA.

Management Objective: To trend towards the achievement of the young forest patch size targets by NDU as per Table 3 (0% variance).

This indicator addresses the pattern of young forest patches distributed across ecosystems and landscapes, with young forests defined as stands of 0 to 20 years of age.

Formerly, this indicator was reported as "patch size category by landscape unit", but as per the 2005/06 annual report recommendation, the methodology and targets were replaced with those used in the Prince George Timber Supply Area Landscape Biodiversity Order.

Table 3 identifies the baseline current status (June 2006) of patch size classes and targets associated with the Natural Disturbance Units on TFL 30. As per the PG TSA Landscape Biodiversity Order, reporting protocol (July 2005), the reporting will take place over a 5-year period. The next current status reporting will be in 2011.

Eight blocks were harvested in 2006/07 and another six blocks were reported in 2007/08, therefore no significant changes would be observed. As discussed in the previous indicator, it was thought in 2006 that this indicator would potentially be rolled into the PG TSA landscape biodiversity order. Being that this has yet to a occur, Canfor Staff are reviewing and providing recommendations as to the preferred analysis methodology to use, going forward.

Table 3. Current Young Patch Size Distribution (June 2006)

Natural Disturbance Unit		Needed Future Young Patch Size Trending			
	<50 ha	50-100 ha	100-1000 ha	>1000 ha	
McGregor Plateau – Target %	10%	5%	45%	40%	
Current Young Patch Size Distribution %	3%	3%	3%	90%	Trending towards increasing <50ha
Year 50 – Young Patch Size Distribution %	19%	6%	17%	58%	and 100-1000 ha
Wet Mountain – Target %	20%	10%	60%	10%	
Current Young Patch Size Distribution %	7%	7%	22%	64%	Trending towards
Year 50 – Young Patch Size Distribution %	25%	11%	20%	45%	increasing <50ha and 100-1000 ha blocks
Wet Trench – Target %	20%	10%	60%	10%	
Current Young Patch Size Distribution %	6%	4%	1%	89%	Trending towards increasing <50ha, 50-100 ha & 100-
Year 50 – Young Patch Size Distribution %	13%	5%	10%	71%	1000 ha blocks

In most cases, the current status of the patch size category is not near the specified target due to past harvesting trends. As the forest grows older and new harvesting is conducted, the targets may be maintained or achieved; however, this process may take several decades. Current and future practice will be to prescribe further harvesting that will accelerate the trend toward the desired target for each category.

3.4 WET TRENCH & WET MOUNTAIN YOUNG PATCH SIZE DISTRIBUTION

Indicator: Trend towards the percentage of area of patches in 101-500 ha range within the Wet Trench and Wet Mountain of the young patch size distribution class 101-1000 ha.

Management Objective: To trend towards the achievement of the young forest patch size targets by higher-elevation NDU as per Table 4 (±10% variance).

This indicator addresses the pattern of young forest patches distributed within the Wet Trench and Wet Mountain NDU's. The Prince George Forest District patch size category of 101-1000 hectares is too large a range to account for the natural disturbance ecology in these higher-elevation NDU's, so the range is sub-divided for the purpose of this indicator (as per Table 4).

As per the PG TSA Landscape Biodiversity Order, reporting protocol (July 2005) for patch size distribution, the reporting will take place over a 5-year period. The next current status reporting will be in 2011. No blocks were harvested within these NDU's during the reporting period.

Table 4. Wet Trench & Wet Mountain Current Young Patch Size Distribution (June 2006)

		Young Patch Size Cla	ee
Natural Disturbance Unit	Area in 100-	Area & % in 100-	Area & % in
	1000 ha	500 ha	500-1000 ha
Wet Trench – Target %		70% ±10%	
Current Young Patch Size Distribution	110 ha	110 100%	0 ha 0%
Year 50 – Young Patch Size Distribution	828 ha	828 100%	0 ha 0%
Wet Mountain – Target %		70% ±10%	
Current Young Patch Size Distribution	3,912 ha	3,001 ha 77%	911 ha 23%
Year 50 – Young Patch Size Distribution	2,143 ha	2,143 ha 100%	0 ha 0%

With regard to the 100-500 ha patch size class, the Wet Trench NDU is currently above the target range and the Wet Mountain NDU is within the target range. As new blocks are designed in the short term within the Wet Trench NDU, there will be efforts made to increase young patch area within the 500-1000 ha patch size category so that the 100-500 ha young patch area falls within the target range.

3.5 BIODIVERSITY RESERVES

Indicator: The amount in hectares of landscape-level biodiversity reserves within the DFA; and the hectares of unauthorized forestry-related harvesting or road construction within Protected Areas.

Management Objective: To achieve the targets for landscape-level biodiversity reserves within the DFA as per Table 5 (0% variance); and to ensure no unauthorized forestry-related harvesting occurs within Protected Areas, as per Table 5 (0% tolerance).

Landscape-level biodiversity reserves include provincial parks and all other large reserve areas that are removed from the timber harvesting landbase. This indicator evaluates the amount of productive forest devoted to landscape level biodiversity reserves, and tracks the amount of area harvested within Protected Areas to enable forest managers to determine if there are flaws in the planning and implementation of forestry activities.

As illustrated in Table 5, the objective has been met for this reporting period as there was no harvesting in protected areas within the DFA.

Table 5. Current Status of Biodiversity Reserves

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Biodiversity Reserve Type	Current Status (ha)* as of March 31, 2007	Target (ha)*	Area of Unauthorized Harvest	Achieve- ment			
Giscome Portage Trail	93	93	0 ha	Annually			
Horseshoe Recreation Area	649	649	0 ha	Annually			
High Value Caribou Habitat	8313	8313	0 ha	Annually			
McGregor River Management Zone	3182	3182	0 ha	Annually			
Seebach Riparian Management Zone	1196	1196	0 ha	Annually			
Tri Lakes Recreation Area	675	675	0 ha	Annually			
Woodall Recreation Area	1734	1734	0 ha	Annually			
Total	15,842 ha	15,842 ha	0 ha				

^{*} All areas refer to the productive forested portion of the TFL

3.6 STAND LEVEL RETENTION

Indicator: The average percentage of stand level retention in harvested areas within the DFA.

Management Objective: On an annual basis, to achieve average stand level retention of >7% (>3.5% by cut block, with 0% variance).

Stand level retention consists primarily of wildlife tree patches and riparian management areas. The targets of 3.5% and 7% were established by the Provincial Government (Forest Planning and Practices Regulation) to ensure an adequate amount of original stand structure is maintained in and/or around a cut block as a result of landscape planning.

From April 1st 2007 to March 31st 2008, BCTS did not conduct forest operations on the DFA. Canfor harvested 348.0 ha, designated 46.7 ha as reserve areas and 6.0ha designated as WTC (Wildlife Tree Credit) area. The average stand level retention is 15.1% within the DFA for this reporting period, with >3.5% retained on each harvested block.

3.7 COARSE WOODY DEBRIS

Indicator: The percentage of site plans that have Coarse Woody Debris (CWD) retention within the natural range appropriate for the site; and the percentage of cut blocks consistent with CWD requirements in operational plans.

Management Objective: To ensure that CWD retention requirements are part of the planning process and that those requirements are achieved in cut blocks (target of 100% with variance of 0%).

Work was completed April 1st 2006 to March 31st 2007 to gather information for establishing a natural range of CWD in ecosystems that cover TFL30. This included a literature review and analysis of current data on CWD in natural forests and gathering new CWD data within natural stands.

As of March 31st 2008, there is no established natural range for CWD in ecosystems on TFL30. Therefore, the target will be assumed to be the default amount noted in the Forest Planning and Practices Regulation (FPPR), which is 4 pieces/ha of a certain size. Although Canfor and BCTS recognize that 4 pieces/ha is an unrealistically small amount that is likely insufficient for biodiversity purposes, this target will be applied until a target for the natural range of CWD is established. Canfor and BCTS are currently waiting on government residue and waste legislation before setting natural range of CWD targets.

From April 1st 2007 to March 31st 2008, Canfor harvested five blocks on TFL 30 and BCTS did not conduct any harvesting. The site plans for all five blocks specified CWD targets as noted above (the FPPR default amount) and 100% of the blocks were consistent with those CWD requirements.

3.8 CARIBOU HABITAT

Indicator: The amount in hectares of Caribou Ungulate Winter Range Habitat within TFL30.

Management Objective: To maintain the availability of high value caribou habitat (0% variance) and corridor habitat (0% variance) consistent with the targets in Table 6.

An "Ungulate Winter Range (UWR)" is defined as an area that contains habitat necessary to meet the winter habitat requirements of an ungulate species. The BC Conservation Data Centre has placed Mountain Caribou on the provincial red list, which species and sub-species that are endangered, extirpated or threatened in BC.

Canfor and BCTS are committed to 100% of forest operations being consistent with the approved Ungulate Winter Range Order #U7-003. Canfor and BCTS are also committed to maintaining the designated travel corridors as outlined in Table 6.

Table 6. Current Status of Caribou Habitat and Connectivity Corridors

Caribou Management Areas	Current Status	Target	Allowable Variance	Achieved By
High Value Caribou Habitat	Current status is 100% reserved from harvest. (7171 ha)	Reserve 100% of the high value Caribou habitat (7171ha) from harvesting.	None	Annually
Caribou Connectivity Corridors	There are 5459 ha with a total of 20 BEC/NDT combinations for tracking. On average across all units, currently 76% of the forested area is mature.	Maintain 5459 ha of functional* caribou connectivity corridors.	None	Annually

^{*} Functional is defined as being at least 200m wide and containing 70% mature forest

3.9 SPECIES AT RISK NOTICE /ORDERS & HABITAT

Indicator: The percentage of forest operations consistent with approved provincial Species at Risk Notice/Orders requirements as identified in operational plans; and the amount of Species at Risk (wildlife) habitat (ha) within TFL 30.

Management Objective: Ensure forest operations are consistent with approved provincial Species at Risk Notice/Orders requirements as identified in operational plans (target 100%, with 0% variance); and identify the amount of Species at Risk (wildlife) habitat (ha) within TFL 30 by September 2008 (+6 months variance).

In the DFA, mountain caribou, grizzly bear, fisher, and wolverine are red- or bluelisted species that play a key role in the ecosystems and/or are of great socioeconomic value.

One provincial Species at Risk order applies to the DFA (Ungulate Winter Range Order #U7-003, pertaining to Mountain Caribou). 100% of the blocks harvested within the DFA during the reporting period were consistent with the requirements of UWR Order #U7-003.

(It is worth noting that one of Canfor's blocks is located within a Caribou Corridor identified in #U7-003, but that the requirements of the Order were met. Whereas the Order specifies to maintain a minimum of 20% of the forest in each corridor as 100+ years of age where no more than 20% of the areas is in less than 3m green-up condition, 74.4% of the corridor is 100+years of age with 5.6% in less than 3m green-up condition.)

Identification of the amount of Species at Risk habitat within the TFL is an ongoing project, targeted for completion by 30th September 2008 (+6 months variance).

3.10 RIPARIAN MANAGEMENT AREAS

Indicator: Percentage of forest operations consistent with riparian reserve requirements as identified in Site Plans; and percentage of forest operations consistent with riparian management requirements as identified in Site Plans.

Management Objective: Ensure that forest operations are consistent with riparian reserve and riparian management requirements as identified in Site Plans (target of 100%, with 0% variance).

Riparian areas occur next to the banks of streams, lakes and wetlands and include both the area covered by continuous high moisture content and the adjacent upland vegetation. Riparian management areas contribute to the sustainable forest management of TFL 30 through the conservation of riparian and aquatic environments, which are key to the survival of flora and fauna species. Riparian management areas also provide critical habitats, home ranges, and travel corridors for wildlife.

Over the past harvesting year (April 1st 2007 to March 31st 2008), 100% of all riparian reserve and riparian management requirements were consistent with the site plans (as determined through a review of the Canfor Incident Tracking System and EMS

final harvest inspection forms). BCTS did not conduct forest operations on the DFA during this reporting period.

3.11 PERSONNEL TRAINED TO IDENTIFY SPECIES AT RISK & SITES OF BIOLOGICAL SIGNIFICANCE

Indicator: Percentage of appropriate personnel trained to identify Species at Risk and their habitat; and the percentage of appropriate personnel trained to identify Sites of Biological Significance.

Management Objective: To achieve the target of training 100% of appropriate personnel to identify Species at Risk and their habitat and Sites of Biological Significance (0% variance).

This indicator defines Species at Risk as endangered or threatened species; redlisted animal species, forested plant communities and plants; blue-listed animal species and forested plant communities; and provincially identified wildlife. Sites of Biological Significance include sites that support red- and blue-listed plant communities and rare ecosystems; protected areas (such as parks and wildlife reserves); and features such as bald eagle or osprey nests and mineral licks.

Currently 100% of the appropriate Canfor staff was trained on the identification of Species at Risk and Sites of Biological Significance in the spring of 2006. The training, which is mandatory for new staff and update training for all appropriate staff is scheduled every 3 years and was completed most recently, May 9, 2008. The Canfor Office Manager records and tracks this training.

Currently 93.3% of BCTS appropriate staff have been trained on Species at Risk and sites of Biological Significance with the DFA. Training is provided every 2 years or earlier and this list of appropriate staff is managed by the Certification Standards Officer (CSO). Training was provided for staff in summer 2007.

BCTS is developing an online SAR webpage specifically designed for BCTS to update staff training and summer student employees with appropriate level of training. To be rolled out by June 30, 2008.

Canfor is developing a process to identify contractors who require training, and to communicate and track training completion. BCTS is refining a training matrix and a tracking system to identify key personnel who require the training. Furthermore, BCTS is developing an on-line training course to provide training for new staff or those staff who miss the bi-annual training opportunities.

3.12 SPECIES AT RISK & SITES OF BIOLOGICAL SIGNIFICANCE MANAGEMENT STRATEGIES

Indicator: Percentage of forest operations consistent with Species at Risk management strategies applicable to TFL 30; and the percentage of forest operations consistent with Sites of Biological Significance management strategies applicable to TFL 30.

Management Objective: To ensure that forest operations are 100% consistent with the Species at Risk and Sites of Biological Significance management strategies applicable to TFL 30 (0% variance).

Over the past three years, Canfor has developed and implemented management strategies for Species at Risk and some Sites of Biological Significance on the DFA. In 2006, BCTS completed a set of management strategies for their operations in the Prince George Forest District including TFL30.

Within this reporting period, no Species at Risk or Sites of Biological Significance were identified on Canfor blocks harvested in the TFL. BCTS did not conduct any forest operations in TFL30. The Species at Risk management guidelines for licensees in the Prince George TSA were last reviewed and released in April 2007.

3.13 NATIVE PLANT SPECIES DIVERSITY

Indicator: Native plant species diversity index by plant associations within the DFA.

Management Objective: Maintain plant species diversity consistent with the targets identified in Table 7 (variance 0%).

A diversity index is a mathematical measure of species diversity in a community. Diversity indices provide more information about community composition than simply species richness (i.e., the number of species present); they also take the relative abundance of different species into account.

In order for entire ecosystems to function effectively and be able to recover from disturbances (e.g. forest harvesting activities), it is necessary to retain a natural diversity of elements that are fundamental to ecosystem recovery. Largely, plant species provide the basic requirements and fundamental habitat for faunal species and contribute to the recycling of nutrients and other life sustaining elements necessary to sustain the productive capacity of the ecosystem. As a result, ecosystem resilience is strengthened if a natural diversity of plant life can be maintained throughout TFL30.

The approach to monitoring Plant Diversity has been updated for the 2006/07 reporting period. The indicator landbase has been expanded to encompass the entire PG Timber Supply Area (PGTSA), including TFL30. As eight of the top ten PGTSA grouped site associations occur in the TFL, these eight associations were recommended for monitoring (see Table 7).

In 2005/06, the Shannon-Wiener index was applied, whereas Simpson's and Species Richness indices are also applicable for 2006/07.

As shown in Table 7, all grouped site associations have met the targets for Plant Diversity Index within managed stands.

Table 7. Status of Plant Diversity Index on the DFA, as of March 31st 2008

Grouped Site Association	Mean Shannon- Wiener Index (2008)	New Shannon- Wiener Target	Mean Simpson 's Index (2006)	New Simpson 's Target	Mean Species Rich- ness (2006)	New Rich- ness Target
Bl – Oak fern	2.766	>2.198	0.135	<0.187	38	>31
BI – Rhododendron	2.811	>1.952	0.146	<0.251	36	>30
Sb – Feathermoss	2.490	>1.469	0.143	<0.378	28	>21
Sxw – Devil's club	2.737	>2.282	0.142	<0.165	43	>34
Sxw – Horsetail	2.811	>2.239	0.118	<0.186	49	>39
Sxw – Huckleberry	2.468	>1.720	0.153	<0.276	41	>33
Sxw – Oak fern	2.600	>2.203	0.130	<0.185	40	>32
SxwFd – Princes Pine	2.364	>1.963	0.167	<0.229	30	>23

3.14 DECIDUOUS TREE SPECIES

Indicator: Proportion of mature and old deciduous tree species by BEC subzone within the DFA.

Management Objective: Achieve the proportion of mature and old deciduous tree species by BEC subzone consistent with the targets (-1% variance) in Table 8.

The current status of this indicator (Table 8) remains unchanged from the information presented in the Sustainable Forest Management Plan for TFL30 (June 27, 2001), and indicates that the objective has been met. This indicator will be updated following

the next re-inventory which will be conducted in conjunction with the preparation of Management Plan 10 in 2010.

Table 8. Current Deciduous Tree Species Component and Targets.

BEC subzone	Natural Stands Current Status *	Managed Stands Current Status *	Target Managed Stands*	Achieved by
SBS mk1	11%	14%	>6%	Every 5 year
SBS wk1	7%	15%	>5%	re-inventory
ICH vk2	2%	4%	>1%	period
ESSF (all subzones)	0%	0%	0%	
SBS vk	2%	8%	>2%	

^{* %} deciduous based on basal area; the current status % were obtained by multiplying the percent composition of deciduous in each stand by BEC subzone reported in the VRI attribute file by the forested area within the stand then dividing by the total forest area in each BEC subzone variant (see table 51 and 52 in the MP 9 data information package for more details).

The current status of deciduous basal area in the ESSF is 0% in natural and managed stands due to the lack of deciduous species in high elevation ecosystems.

3.15 EFFECTIVENESS MONITORING PLANS FOR SELECTED WILDLIFE SPECIES AND ECOSYSTEM RESILIENCE

Indicator: Effectiveness monitoring plans (wildlife) are developed and implemented for selected indicator species to keep common species common; and a monitoring plan is developed and implemented for evaluating ecosystem resilience.

Management Objective: To develop and implement an effectiveness monitoring plan (wildlife) and ecosystem resilience by the target date of December 31st 2007 (+3 months variance).

To determine if productive populations of a selected species are present and well distributed throughout their habitat within the DFA, Canfor and BCTS committed to developing an Effectiveness Monitoring Plan for one or more indicator species. This plan will help determine if current management practices and policies are successful in producing desired populations.

A report on an Effectiveness Monitoring Plan for the DFA was developed by late March 2007 by Proulx and Bernier. The proposed field inventories and further

planning scheduled for 2007 did not occur. Effectiveness monitoring within the TFL and other Canfor Defined Forest Areas is currently under review to determine an overall biodiversity strategy that will embody a number of stand and landscape level biodiversity objectives.

A Songbird Monitoring Project has been funded by FIA, and initiated within the TFL30 DFA. This project addresses one aspect of the Species Accounting System and Effectiveness Monitoring. This Species Accounting system work completed to date is in the early data collection stage, where songbird data will be used to identify certain indicator bird species to monitor and report on the functioning of forest and habitat types.

3.16 DISTINCT HABITAT TYPES

Indicator: The percentage of area (ha) occupied by Distinct Habitat Types in the non-harvesting landbase.

Management Objective: >=15% of common ecosystem groupings will be maintained in the NHLB; and >=50% of rare ecosystem groupings will be maintained in the NHLB.

Maintenance of distinct habitat types on the Non-timber Harvesting Land Base (NHLB) is important for many reasons, primarily the use of natural landscapes in comparison to managed landscapes. Unmanaged stands play an important role as a precautionary buffer against errors in efforts intended to sustain species and a variety of genes within the managed forest.

TFL30 contains two levels of unmanaged forest: 1) at the stand level, which includes wildlife tree patches and riparian reserve areas, and 2) at the landscape level, which includes provincial parks and other large reserve areas that have become part of the NHLB through strategic-level processes. The NHLB occupies 15% of the forested land base of TFL30.

The TFL30 DFA includes 31 Distinct Habitat Types that were overlaid onto the NHLB and Timber Harvesting Land Base (THLB). A query of hectares associated with each habitat type within the NHLB and THLB was completed. The results were integrated into a preliminary rating of relative ecological risk associated with ecosystem representation and maintenance of Distinct Habitat Types. Targets were set for all habitat types based on whether they were uncommon or common. Seven distinct habitat types did not meet the target set for area located in the NHLB, and therefore these habitat types have stand level retention strategies applied in order to slowly increase the overall area located in the NHLB (stand level retention being a part of the NHLB). See Appendix B for table highlighting management strategies.

Canfor and BCTS have incorporated the Distinct Habitat Type targets into the general block planning and declaration process. A spatial layer of the Distinct Habitat Types

(Genus – PG Ecosystem Representation) requiring management in TFL30 exists for planners; this layer is represented on field layout maps for identification and verification in the field.

The table identifying the appropriate management strategy by Distinct Habitat Type inserted into the 2008.1 SFM Plan was incorrect. It stated that the Retention Strategy for 2-30 was to retain 100%, however this strategy was to be implemented for the Uncommon Ecosystem Groupings not the Common Ecosystem Groupings. This was presented to the TFL30 PAG at the June 17 meeting. The following items were requested by PAG members and have been provided in Appendix B of this years Annual Report: 1) more analysis information should be provided in the results table; 2) detailed descriptions of each of the distinct habitat types be provided; 3) identify the appropriate management strategies to be implemented going forward.

Four blocks harvested on TFL30 this past reporting year overlapped with the "Common Ecosystem Grouping – 2-30". These blocks did not meet the 15% retention strategy. This was attributable to timing and implementing of the business process. To ensure that blocks planned prior to December 2007 are not falling within these Distinct Habitat Types with retention strategies, there will be an audit to review all blocks on the TFL30. This will be documented and retention strategies will be loaded into the Genus Task Tab. A query of all planned and permitted blocks has been completed in order to ensure the management strategies are implemented going forward.

Over time, as more inventory data is available and more information comes on line for each of the Distinct Habitat Types, we may alter the targets.

3.17 CHIEF FORESTER'S STANDARDS FOR SEED USE

Indicator: Percent compliance with Chief Forester's Standards for Seed Use.

Management Objective: To maintain 100% compliance with the Chief Forester's Standards for Seed Use (variance of 0%).

The Chief Forester's Standards for Seed Use is a component of the Forest and Range Practices Act (FRPA). Adherence to the 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 9 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 9. Compliance with Chief Forester's Standards for Seed Use April 1/06 to March 31/07

Licensee	Total Area Planted (ha)	Area Planted in Accordance with Chief Forester's Standards* (ha)	Total % DFA**
Canfor	504.9	504.9	100%
BCTS	104.6	104.6	100%
TOTAL	609.5	609.5	100%

^{*} Measured in terms of number of trees purchased

3.18 WILDLIFE BIODIVERSITY CORRIDORS

Indicator: The area in hectares in wildlife biodiversity corridors within the DFA.

Management Objective: To maintain ≥82 ha of wildlife biodiversity corridors within the DFA (variance of 0%).

Canfor has been actively planning for wildlife movement corridors since 1999. These movement corridors provide a mosaic of early-, mid- and late-successional vegetation stages which accommodates the needs of furbearers by giving them access to canopy cover and promoting the use of openings and ecotones for foraging.

A Certified Wildlife Biologist designed the corridors within the DFA, which attempt to mimic natural patterns of connectivity and to provide basic ecological linkages throughout the forest landscape.

As of March 31st 2008, more than 82 ha of wildlife biodiversity corridors have been established within the DFA.

3.19 SITE INDEX

Indicator: Site index by BEC subzone within the DFA.

Management Objective: To maintain the site index consistent with the targets (-5% variance) in Table 10.

Site index is a relative measure of forest site quality. It is a measure of the height growth that can be expected in 50 years (after trees reach 1.3 m in height) by a particular tree species on a given site. Since site index is a physical measure of the growth of trees in a stand at a specified point in time, it provides a good method to evaluate if the productivity capacity of the forest is being maintained.

^{** % = (}Area planted in accordance with Chief Forester's Standards for Seed Use / total area planted) X 100

Data from 1999 to 2004 was collated by BEC subzone for the site index calculation. The data mainly included pre-1987 silviculture surveys and recent free growing surveys, which allowed for growth intercept assessment of site index.

As illustrated in Table 10, the objective has been met for the reporting period as the current status of the site indices exceeds the targets.

Table 10. Current Status of Site Index

BEC Subzone	Elevation	Current Status (Average Spruce Site Index (m))	Target (Average Spruce Site Index in meters)	Achieved By
SBSmk1, SBSvk, SBSwk1	Less than 1000m	22.5*	>19.4	
SBSvk, SBSwk1	More than 1000m	21*	>19.6	
ESSFwc3	More than 1000m	12.1	>11.5	A 5-year rolling
ESSFwk2	More than 1000m	23.1	>16.8	average
ESSFwcp3	More than 1000m	6.0	>5.7	
ICHvk2	More than 1000m	22.6	>20.2	

^{*} Numbers indicate updated average based on data collected during the reporting year.

3.20 SOIL CONSERVATION

Indicator: The percentage of forest operations consistent with soil conservation standards as identified in Site Plans.

Management Objective: To achieve 100% of forest operations consistent with soil conservation standards as identified in Site Plans (0% variance).

During the reporting period of April 1st 2007 to March 31st 2008, BCTS did not conduct forest operations on the DFA. Canfor harvested five blocks and conducted mechanical site preparation on two blocks. A review of completed EMS forms and the incident tracking system indicates that 100% of these Canfor blocks were consistent with the soil conservation targets identified in the Site Plans.

3.21 PERMANENT ACCESS STRUCTURES/LAND CONVERSION

Indicator: The total percentage of forested land area occupied by permanent access structures; and the percentage of productive forested land area converted to other non-forested areas.

Management Objective: To maintain the total percentage of forested land area occupied by permanent access structures to \leq 3% (+1% variance); and to maintain the percentage of productive forested land area converted to other non-forested areas to \leq 0.5% (+0.2% variance).

A permanent access structure is a structure, including a road, bridge, landing, gravel pit or other similar structure, that provides access for timber harvesting and remains after timber harvesting activities on the area are complete. Conversion to other uses would include any development project not covered under the above definition. This indicator is simply a measure of the amount of area permanently removed on an annual basis from the productive forest as a result of development, in relation to the defined forest area.

As per the February 2008 SFM Plan for the TFL (page 8), the productive forestland base is 159,385 ha. As of March 31st 2008, a total of 3492.5 ha (2.2%) of the productive forestland base is classified as permanent access structures (including the 19.0 ha of road constructed by Canfor during the reporting period). No land conversion occurred during the reporting period, so as of March 31st 2008, a total of 0.002% (2.6 ha) of productive forested land had been converted to non-forested areas.

3.22 TERRAIN STABILITY

Indicator: The percentage of forest operations consistent with terrain management requirements as identified in Site Plans.

Management Objective: To ensure that 100% of forest operations are consistent with terrain management requirements as identified in Site Plans (variance of 0%).

A terrain stability field assessment (TSFA) is an assessment that is conducted by a certified terrain stability specialist (usually a professional geo-scientist/engineer) on areas determined to be at risk from mass wasting. TSFA's are completed on any proposed harvest area or road location that lies within an area identified as either unstable or potentially unstable. The assessment is usually completed prior to preparation of the site plan or road layout and design, to facilitate integration of the recommendations into the relevant operational plan. To ensure the recommendations

are followed, Canfor conducts internal checks prior to the development project (prework meeting), and following project completion (final inspection). Inconsistencies are reported through Canfor's Environmental Management System.

One-terrain stability field assessments was necessary and completed on the blocks harvested and roads constructed during the assessment period of April 1, 2007 to March 31, 2008. All activities were consistent with recommendations provided in this assessment.

3.23 REPORTABLE SPILLS

Indicator: The number of "legally" reportable spills.

Management Objective: To meet the target of 0 reportable spills (variance of 0).

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.

The Spill Reporting Regulation of the *BC Environmental 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. By tracking spill occurrence, guidelines and procedures can be adjusted to improve handling and transportation procedures to avoid a reoccurrence of the spill.

Over the reporting period of April 1st 2007 to March 31st 2008, no reportable spills were caused within the DFA by Canfor or BCTS operations.

3.24 STREAM CROSSING QUALITY INDEX

Indicator: Stream Crossing Quality Index (SCQI) for each watershed within the DFA.

Management Objective: To achieve the target of 100% of Sub-basins having <10% SCQI high concerns (variance of –25%).

The stream crossing quality index is a measure of the potential of a stream crossing (on a permanent road) to deliver sedimentation into the stream. A high index indicates a high potential for the crossing to add sediment to the adjacent stream, whereas a

low index indicates that the crossing is being well managed to reduce the possibility of sedimentation.

The following progress has been made on this indicator since June 2001:

- > P. Beaudry & Associates developed a stream crossing quality index scoring methodology for Canfor, and produced a stream crossing inventory map.
- An associated database of stream crossing information was developed.
- Stream crossings were sampled in 8 sub-basins in TFL30 in 2002.
- Sampling continued in the summer of 2004 with the completion of the Upper Seebach and 7 additional watersheds.
- > In 2005, work completed on crossings in two watersheds resulted in moving them below the target. Also in 2005, an update to the plan for maintaining this indicator below threshold levels was completed.
- 13 crossings with High SCQI scores were rehabilitated in the summer of 2006 (Lower Olsson and Basin 4); these sites will be assessed by P. Beaudry & Associates in the early summer of 2007.

Currently 75% of the Sub-basins have less than 10% of the SCQI in the high concern category. Additional restoration planning occurred in May 2007 with implementation expected in the summer of 2008. Treatments to 7 crossings occurred in the summer of 2006. No treatments occurred in the summer of 2007 due to time constraints cause by heavy snowpack and the deactivation of the Sustut operating area. For the summer of 2008 the plan is to focus on restoring crossing in the six watersheds that are identified in the May 2007 updated plan.

Table 11. Stream Crossing Quality Index within TFL30 for 2006/2007

Sub-Basin	Number of	Target	Current Status
	crossing	% Crossing high	% Crossings
	surveyed		high
Barney Creek	70	<10 %	5.71
East Olsson	39	<10 %	2.6
Herring	83	<10 %	10.8
Lower Olsson	48	<10 %	10.4
Residual D	44	<10 %	2.27
Upper Seebach	300	<10 %	6.0
Basin 4	48	<10 %	4.2
Woodall	96	<10 %	7.29
East Seebach	269	<10 %	6.3
Averil	157	<10 %	11.5
Limestone	59	<10 %	0.0
Watershed 20	62	<10 %	21.0
Basin A	100	<10 %	5.0
Watershed 25	22	<10 %	13.64

Upper Olsson	187	<10 %	3.2
Lower Seebach	52	<10 %	11.5
Tay Creek	35	<10 %	0.0
Horn Creek	173	<10 %	6.4
Basin C	54	<10 %	0.0
Basin 7	13	<10 %	0.0
Mokus Creek	24	<10 %	8.3
West Torpy	114	<10 %	0.0
Hubble Creek	60	<10 %	0.0
Basin F	17	<10 %	0.0

^{*} Bold numbers indicate the % crossing high changed during the reporting period

3.25 STREAM CROSSINGS INSTALLATION

Indicator: The percentage of new or deactivated stream crossings that maintain natural stream flow.

Management Objective: To maintain natural stream flow on 100% of new or deactivated stream crossings (variance of 0%).

As roads are constructed to access areas for forest operations, it is necessary to build structures (i.e. culverts, bridges) where roads intersect with streams. This indicator will measure the success of maintaining fish movement and managing peak flow at all new and deactivated stream crossings in the DFA.

Streams and crossing structures are identified during site plan preparation. All streams are surveyed for fish bearing potential and qualified personnel determine probable peak flow volumes. The appropriate culvert size and installation procedures are then prescribed for the stream crossing. EMS pre-work forms are completed prior to their installation and the supervisor is then required to perform a complete inspection of the structure. In addition, many stream crossing structures undergo scheduled inspections over time, as part of EMS procedures.

During the reporting period, Canfor installed and subsequently deactivated 3 stream crossings in the Barney operating area on the TFL. As natural stream flow was maintained on 100% of these sites, the objective has been met.

BCTS did not install or deactivate any crossings during the reporting period.

3.26 PEAK FLOW INDEX

Indicator: Peak flow index (PFI) for each watershed within the DFA.

Management Objective: Each year, 100% (- 10% variance) of the watersheds will be below the baseline target in Table 12. Each year, all watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned (0% variance).

The peak flow index is an indicator of the potential effect of harvested areas on water flow in a particular watershed. Most hydrologic impacts occur during periods of the peak stream flow in a watershed. Peak flow is the maximum flow rate that occurs within a specified period of time, usually on an annual or event basis. In the interior of British Columbia, peak flow occurs as the snowpack melts in the spring. Barney Creek and East Olson are currently over the PFI threshold. Barney Creek is the location of Canfor's current MPB harvesting operations. The future PFI numbers are under the PFI target. This is new information as of April 2008 and therefore these watersheds are currently under review.

Table 12 presents the current peak flow index status in the 27 watersheds on the TFL. Currently, 92.6% of the watersheds are below the targets.

Table 12. Current Peak Flow Index on the DFA

Watershed name	PFI as of March 31, 2008	Target	Achieved
Averil	42.9	< 65	Annually
Barney Creek	43	< 37	
Basin 20	37.4	< 65	
Basin 25	37.7	< 80	
Basin 27	37.2	< 80	
Basin 7	43.6	< 80	
East Olsson	39.3	< 37	
Herring	41.4	< 65	
Horn	29.5	< 37	
Hubble	37.4	< 80	
Limestone	49.4	< 80	
Lower Olsson	50.2	< 65	
Mokus	50.1	< 90	
Residual A	35.3	< 65	
Residual B	25.9	< 37	
Residual C	29.9	< 65	
Residual D	20.8	< 37	
Residual E	41.0	< 65	
Residual F	33.1	< 65	
East Seebach	28.4	< 80	

Lower Seebach	43.5	< 65	
Upper Seebach	35.5	< 80	
Tay Creek	24.6	< 80	
Upper Olsson	31.9	< 80	
Basin 4	63.4	< 65	
Woodall	30.7	< 37	
West Torpy	15.5	< 37	

3.27 SEDIMENT OCCURRENCE MITIGATION

Indicator: The percentage of unnatural sediment occurrences where mitigative actions were taken.

Management Objective: On an annual basis, to take mitigative action, if required, on 100% of known unnatural sediment occurrences (-5% variance).

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, mitigative actions must be taken to stop further damage and rehabilitate the site. Tracking these mitigative actions contributes to sustainable forest management by evaluating where, when and how sedimentation occurs, and monitoring the results of the mitigative actions.

Forestry personnel detect sedimentation occurrences during stream crossing inspections, road inspections, silviculture activities, and other general activities. While in some situations the sites may have stabilized so that further sedimentation does not occur, in other cases mitigative actions may be required. This may involve re-contouring slopes, installing siltation fences, re-directing ditch lines, grass seeding, or deactivating roads.

No unnatural known sedimentation occurrences required mitigating actions between April 1st 2007 and March 31st 2008 in the DFA.

3.28 NET AREA REFORESTED

Indicator: Percentage of net area regenerated within 3 years after the completion of harvesting.

Management Objective: To regenerate 100% of net area within 3 years of harvest completion (-5% variance).

Prompt reforestation of harvested areas is a major component of sustainable forest management. In addition to creating wildlife habitat, maintaining hydrologic processes, and providing future timber for harvesting, regenerating cutblocks absorb significant amounts of carbon through photosynthesis. Because young plantations are typically healthy and rapidly growing, they sequester more CO₂ through photosynthesis than they release through decay. By reducing atmospheric greenhouse gases such as CO₂, regenerating cutblocks can contribute to reducing climate change. The sooner cutblocks are regenerated after the completion of harvest the sooner this process can begin.

Tracking plantation establishment will allow forest managers to assess how quickly and successfully regeneration is occurring, and if possible, adjust operations to reduce the time it takes to achieve reforestation.

As shown in Table 13, 100% (504.9 of 504.9 ha) of net areas to be reforested have been regenerated within 3 years after start of harvesting by Canfor. BCTS - 100% of all blocks harvested between April 1st 2004 and March 31st 2005 have met regen delay by 2007 (within 3 years of harvest start).

Table 13. Net Area Reforested within 3 Years of Start of Harvesting

Licensee	Net Area Harvested (ha)	Net Area Regenerated (ha)	% in DFA
Canfor	504.9	504.9	
BCTS	0	0	
TOTAL	504.9	504.9	100%

3.29 MEETING FREE GROWING DATES

Indicator: Percentage of cut block area that meets Free Growing requirements as identified in Site Plans.

Management Objective: To meet Free Growing requirements as identified in Site Plans for 100% of cut blocks (0% variance).

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, and assesses the fulfilment of a Licensee's obligation to the Crown for reforestation.

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 achievement of this indicator is important in a legal sense, 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 develop. 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 1st 2006 to March 31st 2007, the target for this measure was met as demonstrated in Table 14.

Table 14: Percent of Cut Block Area that Meets Free Growing Requirements as Identified in Site Plans (April 1, 2006 to March 31, 2007)

Licensee	Cut block area required to meet late Free Growing (FG) during reporting period	Cut block area required to meet FG succeeding in meeting FG during or before reporting period	% of Target
Canfor	1240.4	1240.4	
BCTS	0	0	
TOTAL	1240.4	1240.4	100%

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

3.30 CARBON STORAGE

Indicator: The amount of carbon stored in forest ecosystems within the DFA, reported separately for the timbered and non-timbered landbases.

Management Objective: To maintain carbon storage in forest ecosystems within the DFA at >150 tonnes/ha (0 tonnes/ha variance).

Although carbon uptake and storage is not currently monitored on the DFA, several forest-level decision support tools are available for assessing carbon sequestration rates. One such tool is the Canadian Forest Services Carbon Budget Model (CBM-CFS2) (an overview of this model is presented on the CFS website at http://www.carbon.cfs.nrcan.gc.ca/cbm/index_e.html). CBM-CFS2 is a potentially suitable model for the TFL30 because it contains many of the fundamental requirements for the achievement of SFM objectives identified through this measure.

This indicator was refined at the January 10th 2007 TFL PAG meeting. Following a presentation on the indicator, the PAG agreed upon a target of 150 tons/ha and a variance of 0 tons/ha, to be reported by timber and non-timber landbase. The

indicator is to be reported when the timber supply analysis is conducted (generally, every five years or when other analysis opportunities allow for efficient reporting).

3.31 VOLUME OF TIMBER HARVESTED

Indicator: Cut control volume of timber harvested (m³/year) within the DFA.

Management Objective: To meet the target of $\leq 100\%$ of cut control volume of timber harvested (m³/year) within the DFA (variance of +10% over each five-year cut control period).

To be considered sustainable, the harvesting of a renewable resource such as timber cannot deplete the resource on an ecological, economic or social basis. The determination of the Allowable Annual Cut (AAC) involves the consideration of various factors such as 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 the Province of British Columbia, using extensive data and forecasts to assess the resource values to be managed. On behalf of the Crown, the Chief Forester makes an independent determination of the rate of harvest that is considered sustainable.

The harvest level for a defined area 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. Due to the current mountain pine beetle epidemic in the Prince George TSA, harvest priority has shifted to the Prince George and Fort St. James DFA's and the cut has been temporarily reduced in TFL30.

This indicator is a simple annual summary of the volume of timber harvested form the DFA. These values are determined from timber scale billings from each calendar year, based on the data used by the Crown to determine stumpage revenue. Note that this target was changed from 100% to \leq 100% by PAG consensus (Indicator 5.1a on the Criteria & Elements Matrix).

The current status of volume cut in 2007 is shown in Table 15. BCTS cut 103,976 m3 during the period from 2000-2004, and 0 m3 from 2005-2007 (as shown in Table 16).

Table 15. Canfor - Current Allowable Annual Cut on the DFA

Year	Actual Recorded Cut (m³)	Allowable Annual Cut (m ³)	% Recorded Cut of AAC	5-Year Cut Control %
2000	285,016	328,688	86.7%	
2001	165,183	328,688	50.3%	

2002	375,231	328,688	114.2%	98.3%
2003	301,940	180,000	190.3%	
2004	135,220	180,000	86.6%	
2005	41,506	180,000	23.1%	(Note that the final
2006	43,371	180,000	24.1%	review of this measure
2007	169,869	180,000	94.4%	will be undertaken at the end of the cut control period)

Table 16. BCTS - Current Allowable Annual Cut on the DFA

Year	Actual Recorded Cut (m³)	Allowable Annual Cut (m³)	% Recorded Cut of AAC	5-Year Cut Control %
2000	41,182	65,253	63.1%	
2001	62,794	21,312	294.6%	
2002	0	21,312	0%	70.1%
2003	0	21,312	0%	
2004	0	21,312	0%	
2005	0	21,213	0%	(Note that the final
2006	0	21,213	0%	review of this measure
2007	0	21213	0%	will be undertaken at the end of the cut control period)

3.32 DAMAGING AGENT ASSESSMENT

Indicator: Percentage of the DFA (pre-harvest and after free growing) assessed for damaging agents.	Mgt. Objective: To complete an annual overview assessment of the DFA for damaging agents (preharvest and after free growing), targeting 100% over a 10-year period (-20% variance).
Indicator: Percentage of the DFA (pre-free growing) assessed for damaging agents.	Mgt. Objective: To assess 100% of the DFA for damaging agents (pre-free growing) over a 7-year period (-10% variance).
Indicator: Non-recoverable volume loss due to stand damaging agents.	Mgt. Objective: To manage non-recoverable volume loss due to stand damaging agents between >1500 m³/yr and ≤4000 m³/yr, applied as unplanned losses to the Timber Harvesting Land Base and calculated as a 10-year rolling average.

Monitoring the health of the forest within the DFA plays an important role in maintaining the continuous flow of economic benefits. The timing of the damaging

agent assessments will allow for adjustments to be made in the planning process, and for a greater understanding of the damaging agents that affect forest productivity.

At its November 2006 meeting, the PAG refined the target definition for pre-harvest and post-free growing assessment, and agreed to the targets for non-recoverable volume loss.

The objective has been met for the first part of this indicator, as overview assessments of the DFA were conducted during the reporting period, via a helicopter flight in November 2007.

Between April 1st 2007 and March 31st 2008, 3622 hectares were assessed for damaging agents on pre-free growing blocks in the DFA.

As part of the timber supply analysis in 2000 for TFL30 Management Plan 9, unsalvaged losses were calculated as 3640 m³ per year, representing approximately 5% of the total amount of timber damaged. Annual overview flights and ground surveys indicate that since 2000, the mountain pine beetle is the most significant damaging agent on the TFL (primarily in the Barney operating area). During the reporting period, efforts have been made to salvage mountain pine beetle-attacked stands in the Barney. Spatial analysis indicates that approximately 12,500 m3 of stands with a pine component (>20%) have been retained within inoperable areas or riparian reserves in the Barney. Therefore, the non-recoverable volume loss due to stand damaging agents is calculated to be 16,140 m3 for this reporting period.

3.33 ACCIDENTAL INDUSTRIAL FIRES

Indicator: Number of area (hectares) damaged by accidental forestry-related industrial fires.

Management Objective: To manage the area damaged by accidental forestry-related industrial fires within the target of <10 ha per year (variance +5 ha).

This indicator applies to accidental industrial fires originating in the DFA. As fire can result in catastrophic losses to the timber supply, wildlife, and private property, a high value has been placed on reducing the impact of these fires in the DFA.

From April 1st 2007to March 31st 2008 0 hectares were damaged due to accidental forestry related industrial fires originating within Canfor and BCTS operations on the DFA.

3.34 NON-TIMBER BENEFITS REQUIREMENTS

Indicator: The percentage of forest operations consistent with the following non-timber benefits: visual quality, cultural heritage, and lakeshore management requirements in site plans.

Management Objective: To manage 100% of forest operations consistent with the following non-timber benefits: visual quality, cultural heritage, and lakeshore management requirements in site plans (0% variance).

Forests provide intangible benefits in addition to their economic and ecological values. Protection and maintenance of these values helps assure that these benefits will be available for current and future generations.

Visual Quality Objective requirements address the perceived beauty of certain areas as designated by the MoFR District Manager or as contained in higher level plans. A cultural heritage value is a unique or significant place or feature of social, cultural or spiritual importance. Lakeshore requirements address the valuable role waterfront plays in ecosystem diversity, recreation and aesthetics. Maintenance of non-timber requirements is an important aspect to sustainable forest management because it contributes to respecting the social and cultural needs of people.

During the reporting period, 100% of Canfor forest operations were consistent with visual quality, cultural heritage, and lakeshore management requirements in site plans. One block was located within a known scenic area and was harvested in compliance with the visual impact assessment recommendations and no blocks were had a high potential for cultural heritage resource features. None of the blocks harvested within the reporting period had lakeshore management requirements.

BCTS did not conduct forest operations on the DFA during the reporting period.

3.35 PUBLIC INPUT OPPORTUNITY AND RESPONSE TO PUBLIC CONCERNS

Indicator: The number of opportunities given to the public and stakeholders to express forestry related concerns and be involved in our public planning processes; and the percentage of Creating Opportunities (Canfor) and Keeping in Touch (BCTS) communication strategy requirements met.

Management Objective: To present opportunities to the public and stakeholders to express forestry related concerns and be involved in our public planning processes, via ≥ 3 types of media annually (variance of -1); to meet 100% of the communication strategy requirements for Creating Opportunities (Canfor) and Keeping in Touch (BCTS) (variance of -5%).

As public involvement is a key element of CSA-SFM, it is important to provide meaningful and effective opportunities to incorporate public input and respond to public concerns. As public values change over time, it is important to be able to efficiently solicit public feedback and, where possible, incorporate this input into forest management and practices. Public plans include the forest stewardship plan, pest management plan, forest management plan, and the sustainable forest management plan.

The following key performance indicators will be applied to communication strategies:

- 100% of communications from resource users will be responded to within 30 days
- 100% of commitments made to resource users are delivered within the time frame specified
- 100% of the applicable public is sent notification of planning and development activities associated with TFL30 forest management activities.

Historically, Canfor and BCTS have used a total of four media types to provide public and stakeholders opportunities to express forestry related concerns and be involved in our planning processes. These include newspaper ads, notification letters, public meetings, and face-to-face meetings.

During the reporting period, 100% of public commitments were met on the DFA. Canfor sent a total of 1239 communications, received 32 communications, and delivered 32 separate actions within the time frames specified. In addition, Canfor sent the following notification letters to the relevant stakeholders:

- FSP Notifications
- Harvest Notifications
- Block Declaration Notifications

For the 2007 – 2008 year, 100% of BCTS's public commitments were met on the DFA. In addition, amendment #3 to the BCTS FSP contains changes to results and strategies for visual quality objectives for the DFA. All letters to stakeholders and First Nations were sent out with a 60-day review and comment period, and ads were placed in local papers for notification of the proposed amendment for Public review and comment. No issues were raised from the process. As of May30, 2008 amendment #3 was approved by the Prince George District Manager.

The number of opportunities provided to the public and to stakeholders within the reporting period is identified in Table 17.

Table 17. Public Input Opportunity from April 1st 2007 to March 31st 2008

Format of Opportunity	Number of Opportunities for Public and Stakeholders Input
	Stakeholders input

	Canfor	встѕ	Joint SFMP	TOTAL
FSP Original Ads	0	0		0
FSP Amendment Ads	1	1		2
FSP Stakeholder Letters	1	0		1
PMP Original Ads	0	0		0
PMP Stakeholder Letters	0	0		0
PMP Signage	0	0		0
Field Tours	0	0		0
Harvest Notification Letters	1	0		1
PAG Meetings	N/A	N/A	1	1
Documented Phone Calls	1	0		1
Newspaper Ad (Open House)	N/A	N/A	1	1
Open House (Pine Centre Mall)	N/A	N/A	1	1
Documented Personal Meetings	1	0		1
TOTAL FOR DFA*	5	1	3	9

^{*} 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.

3.36 VIEWING OF ACCESS PLANS

Indicator: Annual public review of Canfor and BCTS TFL30 road access plans.

Management Objective: To provide the public with an annual opportunity to review TFL30 road access plans, on or before October 1st of each year (variance of +1 month).

Forestry roads provide industrial and public access to large portions of the DFA. Creating, 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 opportunities to view the Canfor and BCTS current access plans. The input received from such viewings can be used to plan future access management activities.

On October 12th 2007, Canfor and BCTS participated in a licensee display of forestry harvesting and road access plans at the Pine Center Mall in Prince George. Licensee representatives staffed the display from 9:00 a.m. to 9:00 p.m.

3.37 SURVEY OF NON-TIMBER USES AND LIST OF QUALITY & VALUE OF NON-TIMBER FOREST PRODUCTS

Indicator: Public survey of non-timber uses within the DFA; and a list of quality

and value of non-timber forest products from the DFA.

Management Objective: To conduct a public survey of non-timber uses within the DFA at least every four years (+1 year variance); and to establish a list of quality and value of non-timber forest products from the DFA by March 31st 2007 (+3 months variance).

As sustainable forest management pertains to the interaction of social, ecological and economic factors, forest managers must not only be cognizant of the range of different uses on the DFA, but also how these uses and values change over time. This indicator measure the number of different local uses and values on the DFA as well as the intensity for each value/use. As data is collected through the public surveys, possible changes can be evaluated.

Public survey of non-timber uses was conducted within the DFA as part of FIA project # 2700003, during the 2007-08 reporting period. The project results will be presented to the TFL30 PAG in the Fall of 2008. See Appendix A for this list.

3.38 LOCAL CONTRACT VALUE

Indicator: Percentage of money spent on forest operations and management in the DFA provided from the North Central Interior Suppliers/Contractors (applies to Canfor only).

Management Objective: To target ≥90% of money spent on forest operations and management in the DFA on goods and services provided by the North Central Interior Suppliers/Contractors (0% variance).

Forests not only provide a multitude of ecological benefits to the areas surrounding them, but they also provide many critical socio-economic benefits. In order to have sustainable socio-economic conditions for local communities associated with TFL 30, local forestry-related businesses should be able to benefit from the work that is required in the management of the DFA. Local suppliers and contractors are considered to be those based in the geographic area bounded by 100 Mile House (south), Ft. St. John (north), Valemount (east) and Terrace (west).

Querying Canfor's accounting data allows for the current status and tracking of the local contract value within TFL 30. As shown in Table 18, 98.6% of the dollars spent within the DFA during the 2007 calendar year was spent on local suppliers and contractors.

Table 18. Local Contract Value within TFL30

Current Status of Indicator	Calendar Year	Target	Achieve By:
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92.4% 93.0%	2000 2001		
95.2%	2002		
99.1%	2003	> 90 %	Annually
98.6%	2004	> 90 %	Annually
99.4%	2005		
100.0%	2006		
98.6%	2007		

3.39 SUPPLY OF TIMBER TO LOCAL PROCESSING FACILITIES

Indicator: Proportion of timber extracted from the DFA supplied to local processing facilities (applies to Canfor only).

Management Objective: To supply ≥95% of timber extracted from the DFA to local processing facilities (-5% variance).

Sustainable forest management involves the balancing of ecological, social and economic values. Canfor can play a key role in the stability and sustainability of socio-economic factors by ensuring that a large proportion of timber volume is processed by local facilities (i.e. those located within the boundaries of the Prince George Timber Supply Area).

Each truckload of wood is scaled (weighed) at an approved MoFR scale site. The timber mark and scale-based information is recorded in Canfor's "Logs Production Module". A query of this Module for the period of April 1st 2007 to March 31st 2008 indicates that 100.0% of the timber harvested from TFL30 was delivered to local processing facilities.

3.40 MAIN ACCESS ROADS MAINTAINED

Indicator: Kilometers of main access roads maintained to a minimum standard in the spring.

Management Objective: To maintain ≥200 km of main access roads to a minimum standard in the spring.

Roads are a necessary component of forest management as they allow access to the forest resource and its recreation potential. This indicator provides a measure of the amount of main access roads maintained within the DFA, to allow for public access to the benefits of the forest resource. A balance must be met between the value of

access, the social costs or benefits, and the ecological costs or benefits in terms of impacts to other resource values such as wildlife.

The target of this measure is 200 km, 8.6 km of which is maintained by BCTS and the remainder by Canfor. The main roads within the DFA include: North Fraser, Church, Pass Lake, Seebach, Herrick, Olsson, Otter, Hayden, and Bend.

Road maintenance programs are currently tracked through each Licensee's internal data records. Canfor's process includes flying the roads in the spring to identify potential concerns; issuing hazard alerts for roads that are impassable until the problem is rectified; and implementing an annual road and bridge maintenance program.

For this reporting period, the objective has been met as a minimum of 200 km of main access roads were maintained to a minimum standard in the spring.

3.41 STUMPAGE PAID TO GOVERNMENT

Indicator: The percent of stumpage paid on time to Government (applies to Canfor only).

Management Objective: To pay 100% of stumpage on time to Government (0% variance).

The payment of stumpage owing on the timber harvested within the DFA by Canfor is a quantifiable indicator of how the public is receiving a portion of the economic benefits derived from forests. In order to ensure continual sustainable socio-economic conditions for local DFA communities, all stumpage billings will be paid on time.

Each month, the provincial government invoices Canfor for stumpage. This invoice is directed to the accounting and payroll departments for immediate processing.

During the reporting period of April 1st 2007 to March 31st 2008, Canfor paid 100% of its stumpage to Government on time.

3.42 AVERAGE INCOME OF DFA WORKERS

Indicator: Average income of DFA forest sector workers compared to provincial average for forest sector workers.

Management Objective: To monitor the average income of DFA forestry sector workers compared to provincial average for forest sector workers, targeting ≥100% every five years (0% variance).

Forests provide a mix of benefits to society, including direct and indirect employment, wood products, goods and services, non-market values, tourism, guiding, trapping, and recreation. This indicator focuses on the economic and social benefits that are offered by the forest sector in the form of income.

The forest sector generally provides a fair and reasonable wage for work done in the area. The Prince George Timber Supply Review conducted in 2001 reported the average income of a forest sector worker in Prince George as \$46,690 (based on 1996-1998 data). The provincial average income of a forestry and logging sector worker from the Statistics Canada 2001 census is estimated at \$42,925. The difference in average Prince George area income compared to Provincial average income is 108.7%.

This indicator is currently reported using dated information, but it is anticipated that updated income data will be available for the 2007/08 annual report. The October 2004 AAC determination for the PG TSA did not include data on average incomes, but the Data Package for the next PG TSA Timber Supply Review is scheduled for release in October 2007. According to the Statistics Canada website, the scheduled release date for the report on Income and Earnings, based on the 2006 census data is May 2008. This Indicator will be update for the 2008 – 2009 Annual Report.

3.43 DONATION TO THE LOCAL COMMUNITY

Indicator: Number of donations to the local community (applies to Canfor only).

Management Objective: To provide ≥6 donations to the local community (0% variance).

This indicator documents how Canfor provides economic and social benefits to the public over and above wages, taxes and stumpage fees through donations and involvement in local community organizations. Types of support opportunities within the local community vary from providing personnel, equipment and/or facilities, to providing cash and product donations. This is an important component of a community's economic and social stability, but it is also difficult to quantify as support opportunities often go unrecorded.

During 2007, Canfor provided several donations within the community and included recipients as follows:

- Prince George United Way
- University of Northern British Columbia
- School District #57
- The Exploration Place
- Two Rivers Gallery

- College of New Caledonia
- Prince George Community Foundation
- Theatre North West Society
- Prince George Public Library
- Prince George Chamber of Commerce
- Big Brothers and Big Sisters
- Dick Harris Special Olympics
- Canadian Red Cross Society
- And many more

As shown above there are at least 12 donations listed that Canfor has provided to the Community in 2007.

3.44 SAFE CERTIFICATION

Indicator:

- A Canfor and BCTS will maintain certification under the SAFE Certification Program.
- B Percentage of Canfor Contractors certified under the SAFE Certification Program.
- C Percentage of Canfor Contractors registered under the SAFE Certification Program.
- D Percentage of BCTS Contractors and Timber Sale Licensees issued by BCTS registered under the SAFE Certification Program

Management Objective:

A – Target: 100% SAFE Certified / 0% Variance

B – Target: 2008 – 60% 2009 – 80% 2010 – 90%

Variance – 10% C – Target: 100% / 0% Variance

D – Target: 100% / 0% Variance

This indicator was introduced during the current reporting year. PAG consensus was received on March 11, 2008. The Safety related indicator was changed from 'Loss Time Accidents' to 'SAFE Certification'. During the roll out and introduction of this new indicator, it was agreed that Canfor and BCTS would roll out the 2007-08 status of the SAFE Certification programs, in this annual report.

A - Canfor is SAFE Certified; BCTS is currently undergoing their SAFE Certification Audit.

B – Percentage of Canfor Contractors certified – 64%

C – Percentage of Canfor Contractors registered – 97% (100% Harvesting Contractors, 90% Silviculture Contractors)

D - Percentage of BCTS Contractors registered - (100 %)

Canfor did not meet Part C of this indicator at the time of the reporting date. There were 3% of contractors overall that were not registered however will be registered before starting work on 2008 projects.

With regards to Part D of this indicator, BCTS has a commitment with safe company certification, at the corporate level to ensure that 100% of companies providing work to BCTS are REGISTERED with the safe companies program. For the 2007 – 2008 reporting period BCTS Prince George has complied with that corporate policy and 100% of the companies working for BCTS P.G are Safe Company Registered. However there are no commitments to require the company to be certified to conduct work for BCTS P.G., therefore the number of companies certified that work for BCTS P.G is unavailable.

3.45 ABORIGINAL AND TREATY RIGHTS

Indicator: No unauthorized forestry activities within legally recognized (Provincial and Federal) treaty areas and Agreement-in-Principle areas.

Management Objective: 100% (0% variance) recognition and respect of Aboriginal and treaty rights.

A treaty is a negotiated agreement that spells out the rights, responsibilities and relationships of First Nations and the Federal and Provincial governments (Government of BC, 2005). Depending on the nature of the treaty, specific First Nations will exercise a variety of rights over the area described in 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 a part of sustainable forest management as it protects social and economic values.

Four First Nation Bands have asserted Aboriginal interests in the TFL30: the McLeod Lake Indian Band (Tsekani) the Lheidli T'enneh First Nation, the Nazko First Nation, and the West Moberly First Nation. The McLeod Lake Band signed a Treaty 8 settlement agreement with the Federal and Provincial governments in 2000. None of the Treaty 8 settlement lands are located within TFL30. The Lheidli T'enneh signed an Agreement-in-Principle in July 2003 and voted to reject a final agreement in March 2007. In the meantime, the Agreement-in-Principle (signed in July 2003) proposed land packages are being used to run this query.

As no treaty or Agreement-in-Principles areas have been identified within the DFA, Canfor and BCTS are able to report 100% compliance with no unauthorized forestry activities during the reporting period within legally recognized (Provincial and Federal) treaty areas and Agreement-in-Principle areas.

3.46 FSP REFERRAL AND PMP REFERRAL TO FIRST NATIONS

Indicator: All Forest Stewardship Plan (FSP) and associated major amendments are referred to affected Aboriginal peoples; and Pest Management Plans (PMP) and associated major amendments are referred to affected Aboriginal bands.

Management Objective: To refer 100% of Forest Stewardship Plan (FSP) and associated major amendments to affected Aboriginal peoples (0% variance); and to refer 100% of Pest Management Plans (PMP) and associated major amendments to affected Aboriginal bands (0% variance).

This indicator is designed to evaluate the success in providing opportunities to Aboriginal peoples to be involved in forest management planning processes. Specifically, all Forest Stewardship Plans and associated major amendments are to be referred to affected Aboriginal groups for their input. As pesticides may have to be used within the DFA to meet certain forestry objectives, Pest Management Plans will be prepared to outline their use. This use may be applied to areas of interest to various First Nations peoples within the DFA, necessitating referral. Operational plans (location and type of pesticide) may be changed as a result of referral.

Canfor's FSP was approved in February 2006, following a series of referral-related interactions with First Nations communities. In late March 2007, Canfor's first "FSP amendment requiring approval" (ARA-001) was prepared and referred to the First Nations, in the form of letters, tables and FSP content maps. The official referral period ended on June 1st 2007. Significant discussion occurred around this amendment with the West Moberly First Nation and the amendment was approved in September 27, 2007.

Canfor has referred 100% of the FSP amendments requiring approval to all of the affected First Nations within the DFA.

For the 2007 – 2008 reporting period, amendment #3 to the BCTS FSP contains changes to results and strategies for visual quality objectives for the DFA of BCTS Prince George. The amendment also applies the results and strategies proposed for the DFA to TFL 30. All letters to First Nations were sent out with a 60 day review and comment period, and ads were placed in local papers for notification of the proposed amendment for Public review and comment. No issues were raised from the process. As of May30, 2008 amendment #3 was submitted and approved by the Prince George district manager.

In January 2005, Canfor referred the 2005 PMP to First Nations bands. In addition, Canfor placed an ad in the local paper providing the public (including First Nations) an

opportunity to review and provide comment. Canfor's 2005 PMP was approved for a term from 2006-2011. No major amendments were prepared during the reporting period of April 1st 2007 to March 31st 2008.

In February 2006, BCTS referred its 2006 PMP to First Nations bands, and placed an ad in the local paper to provide the public and First Nations the opportunity to review and provide comment. No amendments were prepared during the reporting period.

3.47 HERITAGE CONSERVATION ACT

Indicator: Percent of forest operations consistent with the Heritage Conservation Act.

Management Objective: To conduct 100% of forest operations consistent with the Heritage Conservation Act (0% variance).

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 of concern to forest 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.

Forest operations are relatively easily adapted to protect known features under the Act. Archaeological Predictive Models are used 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, trained archaeologists conduct site-level Archaeological Impact Assessments (AIA) to identify, assess and record any archaeological resources that may be present.

Specific requirements to conserve cultural resources are prescribed in site plans. These strategies may include alteration if an alteration permit is obtained from the Archaeology Branch (BC Ministry of Tourism, Sport and the Arts). Harvest and subsequent silviculture inspections ensure that strategies are implemented as stated in the site plan.

AlA's were not required for any of the blocks harvested on the DFA by Canfor between April 1st 2007 and March 31st 2008. As BCTS did not harvest any blocks during this reporting period, 100% of Canfor and BCTS forest operations were consistent with the Heritage Conservation Act.

3.48 ABORIGINAL PARTICIPATION IN PLANNING PROCESS

Indicator: Documented opportunities for Aboriginal peoples' participation in developing public plans.

Management Objective: To conduct ≥1 meaningful face-to-face meeting per year (variance of 0).

The incorporation of Aboriginal peoples' needs into forest planning is a key aspect to sustainable forest management. As such, this indicator contributes to respecting the social, cultural heritage and spiritual needs of people who traditionally and currently use the DFA for the maintenance of traditional aspects of their lifestyle. Working with Aboriginal people to identify, define and develop management strategies for these special and unique needs is an important component of managing landscape elements for the traditional lifestyle values of Aboriginal peoples.

This indicator will report all documented opportunities provided to local Aboriginal peoples to participate in the development of forest management operational plans. Public plans refer to the Management Plan (5 year), Forest Stewardship Plan (5 year) and SFM plan (3-5 years). The target of one meeting per year with each Aboriginal group may increase if major issues arise within the DFA.

There have not been any major issues in the DFA within this reporting period as the Forest Stewardship Plan was approved in February 2006 and the Government has approved an extension to the current Management Plan (9). All four bands, McLeod Lake Indian Band, Lheidli T'enneh First Nation, Nazko First Nation and West Moberly First Nation, have been invited to send representatives to the Public Advisory Group (PAG) meetings.

Canfor hosted an open house at the Lheidli T'enneh First Nation's band office last April. In addition, Canfor has recently provided a developmental/training position for a member of the Lheidli T'enneh First Nations' Natural Resource staff and is also providing support for this staff member in the development of the Lheidli T'enneh's Community Forest FSP.

Canfor met with the McLeod Lake Indian Band last April and again in August to discuss various aspects of the planning process. Interest was expressed in developing joint strategies on the management around cultural heritage trails and culturally modified trees, and is being pursued with the Band.

On February 27th 2007, the Nazko First Nation signed a Mountain Pine Beetle Agreement with the Government of British Columbia. This Agreement expanded the Nazko Traditional Territory to include a portion of TFL030 (south of the Fraser River). Canfor representatives have met with forestry representatives from the Nazko First Nation and discussed their traditional territory expansion and the options available to the Nazko First Nation to participate in the planning process.

Canfor has met with representatives of the West Moberly First Nation twice in the last reporting period. Various aspects of the planning process were discussed at both of these meetings.

The target of ≥1 meaningful face-to-face meeting has been met, as Canfor's planning staff met numerous times with the 4 First Nations bands on the DFA throughout the reporting period.

3.49 ABORIGINAL ISSUES EVALUATED

Indicator: Percentage of issues raised by Aboriginal peoples evaluated by Canfor and BCTS; and the percentage of issues raised by Aboriginal Chief & Council or their representative developed into mutually agreed-upon strategies.

Management Objective: To evaluate 100% of issues raised by Aboriginal peoples evaluated by Canfor and BCTS (-10% variance); and to develop mutually agreed-upon strategies for 100% of the issues raised by Aboriginal Chief & Council or their representative (-50% variance).

The evaluation of forest management issues raised by Aboriginal peoples demonstrates respect for their unique perspective and historical connection with the forest.

Incorporating management strategies into the planning process in order to resolve issues raised by Aboriginal leaders is a key aspect of sustainable forest management. This indicator contributes to respecting the social, cultural heritage and spiritual needs of people who traditionally and currently use the DFA for the maintenance of traditional lifestyle aspects.

During the 2007/08 reporting period, the following issues were raised by Aboriginal Chief and Council (or representatives of the Chief and Council):

- Nazko First Nation
 - o Issues around fertilization in general and within the DFA. Canfor agreed to provide additional information around the PG Fertilization Strategy and to implement a water quality monitoring program in conjunction with any fertilization activities that are to take place. Also agreed to raise the issue of employment opportunities with the contractor conducting the water quality sampling program.
 - Brought forward that they found the current FSP Review template map didn't meet their needs. Requested some specific features be highlighted differently for ease of identification. Canfor agreed to modify the template and worked with the PG District ALO and the Nazko First

Nation to produce a better map product. Have agreed to use this map template for all FSP referrals sent to Nazko First Nation.

- McLeod Lake First Nation
 - Have expressed interest in locating, geo-referencing and developing management strategies for culturally important trails within their traditional territory. Canfor has committed to working with the McLeod Lake Indian Band to move forward with this project.
 - o Issues around fertilization in general and within the DFA. Canfor agreed to provide additional information around the PG Fertilization Strategy and to implement a water quality monitoring program in conjunction with any fertilization activities that are to take place. Canfor has also committed to inviting the McLeod Lake First Nation to make a site visit to any fertilization operations occurring within the DFA.
- West Moberly First Nation
 - Requested clarification on the FSP Amendment ARA-001, specifically the section regarding a provision to trend away from the patch size targets on the TFL. Canfor provided background information on the Order Establishing Landscape Biodiversity Objectives for the Prince George TSA. An explanation of why the current patch size targets could not be met was also provided.
 - Requested fish and fish habitat information for Olsson Creek. Canfor provided the information to the best of their abilities and included a list of resources that may provide a more detail.
 - Requested further information around the maintenance of water quality and quantity for TFL 30. Canfor provided an explanation of the water quality and quantity indicators for the TFL 30 SFM plan and provided the information contained in the 2006/07 annual report.

During the reporting period, no issues were raised by Aboriginal individuals.

3.50 ABORIGINAL STRATEGY INCORPORATION

Indicator: Incorporation of mutually agreed-upon strategies to address Aboriginal peoples' values, knowledge, and uses in public plans for the DFA; and the percentage of forest operations consistent with mutually agreed-upon strategies.

Management Objective: To incorporate 100% (annually) of mutually agreed-upon strategies to address Aboriginal peoples' values, knowledge, and uses in public plans for the DFA (0% variance); and to conduct 100% of forest operations consistently with mutually agreed-upon strategies (0% variance).

The development of mutually agreed-upon management strategies is only the first step in SFM. Incorporation of those strategies into public plans demonstrates recognition of Aboriginal forest values, knowledge, and uses ("public plans" refers to the Management Plan, Forest Stewardship Plan and SFM plan). Monitoring

adherence to these strategies is a measure of the success of these strategies to address the issues for which they were developed.

These indicators report on the incorporation and implementation of the strategies that were developed to address Aboriginal peoples issues. As these strategies are implemented, the tracking of forest activity compliance with the strategies will help to determine whether concerns are being addressed appropriately.

As no mutually agreed-upon strategies have been developed for application on the DFA, the percentage of forest operations consistent with such strategies cannot be reported, however, Canfor has been working to strengthen our communications and relationships with the First Nations groups who have interests in the DFA. A request was made by the Nazko First Nation to provide a modified map template in all referral packages sent to them that better highlights the proposed blocks predicted to have a high archaeological potential rating. Canfor has complied with this request in hopes that the improved map product will allow for areas of interest to be more readily identified and lead to further discussions around management strategies.

As reported in 2005/06, one of the Bands has demonstrated interest in working on the location, geo-referencing and development of management strategies for culturally important trails in its traditional territory. It is anticipated that progress will be made over the coming year with regard to trail inventories and the development of management strategies.

3.51 PAG FOLLOW UP SURVEY

Indicator: Percentage of people leaving the PAG process receiving a follow-up interview survey.

Management Objective: To ensure 100% of people leaving the PAG process receive a follow-up interview survey.

Public participation in the SFM planning process is essential to understanding and respecting local values and concerns. A follow -up interview in the form of a survey provides the public participants with an opportunity to express their satisfaction with the entire process. The information collected from these surveys can be used as part of the SFM continuous improvement process.

The PAG Facilitator oversees the follow up survey for those members leaving the PAG. Survey questions are designed to assess satisfaction with the entire PAG experience, suggestions for improvement and concerns with the SFMP process. The results of this survey are reported to the PAG and a course of action to address concerns is determined.

As no PAG members left the public advisory group process during the reporting period (April 1st 2007 to March 31st 2008), no follow up interviews were required.

3.52 NUMBER OF PUBLIC ADVISORY GROUP MEETINGS

Indicator: Number of times Public Advisory Group (PAG) Terms of Reference reviewed; and the number of Public Advisory Group meetings per year.

Management Objective: To review the PAG Terms of Reference ≥ 1 time per year (variance of 0); and to conduct ≥ 1 PAG meeting annually.

The TFL30 PAG is made up of a diverse set of representatives with various defined interests, values or specific uses of the forest resource within the DFA. The PAG provided valuable input into the initial development of values, indicators, and objectives for the CSA SFM process, and will continue to provide guidance, input and evaluation of this process. This indicator provides information regarding how often the PAG will meet on an annual basis.

The PAG reviewed the terms of reference in February 2008. Between May 16, 2007 and March 11, 2008, the PAG met 4 times to develop the Values, Goals, Indicators and Objectives for CSA-SFM TFL30 plan.

3.53 PUBLIC SECTOR PARTICIPATION IN THE PAG

Indicator: Percentage of the public sectors (as defined in the Terms of Reference) invited to participate in the Public Advisory Group (PAG) process.

Management Objective: To invite 100% of the public sectors (as defined in the Terms of Reference) to participate in the Public Advisory Group (PAG) process (variance of 0%).

An important component of the PAG is the representation from the various public sectors as defined in the Terms of Reference (ToR). Their involvement in the PAG process is crucial for the success of the SFMP as they represent a broad range of commercial and non-commercial interests within the DFA. Their participation will enhance the co-operation between the forest industry and other parties interested in the management of public lands in the DFA to meet the social, economic and ecological goals of sustainable forest management.

The process for inviting public sector representatives to participate in the PAG is defined in the PAG ToR. Within the reporting period, representatives from 100% of the 12 public sectors described in the ToR were invited to participate in the PAG.

3.54 PAG AND INTERESTED PARTIES SATISFACTION

Indicator:	Management Objective:
PAG overall satisfaction score with the meetings.	To achieve a score of 5 annually (variance of -1).
PAG overall satisfaction score with the public participation process.	To achieve a score of 5 annually (variance of –0.75).
Percentage of PAG satisfaction with the amount and timing of information presented for decision-making.	To achieve 100% PAG satisfaction with the amount and timing of information presented for decision-making (variance of –20%).
Percentage of interested parties satisfied with the amount and timing of information presented for decision-making.	To achieve 100% interested parties' satisfaction with the amount and timing of information presented for decision-making, every 3 years (variance of –40%).

This indicator is intended to measure and report the level of satisfaction the PAG has with meetings and the overall participation process, and the level of satisfaction the PAG and interested parties have with the amount and timing of information presented for informed decision-making input into the SFM plan and other public plans. While it is hoped that there will be high satisfaction, it is also acknowledged that as with any group of diverse backgrounds and opinions, it is difficult to achieve unanimous satisfaction in every regard. However, if the SFM Plan is to succeed, the people who are involved in its evolution must have a certain level of satisfaction with the information provided to direct that development.

A meeting evaluation survey was provided to the PAG at each of the 8 meetings in 2006/07 in order to determine the levels of satisfaction with the meetings, public participation process, and the amount and timing of information presented for decision-making. The average PAG satisfaction score was 4.6 for the meetings, 4.7 for the overall public participation process was 4.4, and 88% for the amount and timing of information presented for decision-making.

No information is available regarding the satisfaction of interested parties with the amount and timing of information presented for decision-making. Canfor and BCTS will develop and circulate a survey by October 2008, in order to facilitate reporting for the 2008/09 annual report.

3.55 CONTINUOUS IMPROVEMENT MATRIX

Indicator:	Management Objective:
Review ranking and update status of items on the Continuous Improvement Matrix.	To annually review the ranking and update the status of 100% of items on the Continuous Improvement Matrix (0% variance).
PAG satisfaction score for progress on the Continuous Improvement Matrix.	To achieve a score of 5 (variance of -1).
Number of items incorporated into the SFM Plan from the Continuous Improvement Matrix.	On an annual basis, to incorporate into the SFM Plan ≥ 2 items from the Continuous Improvement Matrix (variance of -1).

The TFL30 PAG and interested parties provide guidance, input and evaluation during development of the SFMP. The Terms of Reference provide for the discussion of relevant issues PAG meetings. Issues that cannot easily be developed into indicators or that require more information are added to the Continuous Improvement Matrix.

The Continuous Improvement Matrix is used to capture issues outside the scope of the PAG process but can contribute to continuous improvement of sustainable forest management. Canfor and BCTS have developed a work plan for ranking, updating, and incorporating items into indicators. In March 2007, the PAG assigned priorities to the items listed in the Matrix. For the 2007/08 year, the PAG satisfaction score for progress on the Matrix was 4.2.

During this reporting period, one item from the Matrix was incorporated into the SFM Plan (indicator for Safety).

3.56 ALDER CONVERSION

Indicator: The percentage of existing alder swale areas converted to something else.

Management Objective: On an annual basis, to convert of 0% of existing alder swales to something else (variance of +1%).

At the January 10th 2007 PAG meeting, the TFL PAG added this indicator to the SFMP for reporting to begin in 2006/07.

During the reporting period of April 1st 2007 to March 31st 2008, harvesting, road construction, Special Use Permits, or planting activities ha were conducted on 972.1 hectares within the DFA. 0.0 hectares of existing alder swales were impacted by these activities.

Appendix A – Initial Draft of the Non Timber Forest Products (NTFP) Species in the Prince George DFA.

NTFP	Botanical Name	Habitat	Parts Used	Harvest Timing	Use description	Use Category
Alder	Alnus viridis, A. sitchenis, A. crispa; A. incana	Mesic to hygric sites in openings or under canopy gaps across the area, very abundant in disturbances at mid elevations	Bark & Cones	Anytime	Alder bark and spruce tips used as a tea for colds	Т
Arnica	Arnica cordifolia; A. latifolia; A. angustifolia; A.	Species dependant, typically found on circummesic sites under canopy gaps	Flowers & Roots	June, July	Arnica	T/Cc
Beaked Hazel Nut	Corylus cornuta	Subxeric to mesic sites at lower elevations, most abundant in the SBSmh	Nuts	Fall	Beaked Hazel Nut	
Birch	Betula papyrifera	Mesic to subhygric mesotrophic soils on lower to toe slope positions at mid to lower elevations, large birch stands seem to be more common on clay soils	Sap	March to early May	Sap can be tapped to drink or boil for syrup or wine	T/Cc
			Bark	Best in the winter when there is a thaw	birch bark canoes tied together with spruce roots	T/Cc
			Seedlings	Spring	Live young trees can be used for restoration Dead saplings can be used for trellising or fencing	Cc Cp
Blueberrie s	Vaccinium myrtilloides	Xeric to submesic poor soils at mid to lower elevations in the moderate and wetter BGC units, found on mesic mesotrophic sites in the dryer BGC units, during a wetter year, 5 to 10 year old cutblocks produce well, in drier year, sites under pine canopy will produce better	Berries	August, September	Edible berries, preserves	T/Cc
	V. caespitosum	Often found on sites similar to velvet-leaved blueberry as well as in areas with cold air pooling	Leaves	Best in spring	Teas	T/Cc
Bog cranberrie s	Oxycoccos oxycoccos	Nutrient poor treed and non-treed wetlands hygric sites.	Berries	July, August	Edible berries	T/Cc
Bolete	Boletus spp	Species specific and will have mycorhizal associations with specific trees	Whole mushroom	SeptemberOctob er	Edible mushrooms	T/Cc
Bunchberr y	Cornus canadensis		Berries	July - September	Edible berries	T/Cp
Cattails	Typha latifolia	Nutrient rich wetlands with high water tables	Tops	Spring	Tops are edible, like corn	T/Cp
			Leaves	Fall	Leaves used in weaving	Т

NTFP	Botanical Name	Habitat	Parts Used	Harvest Timing	Use description	Use Category
Cedar	Thuja plicata	Interior temperate rainforest – ICHvk2, ICHwk4, ICHwk3	Boughs & Bark	Year round	Boughs used at Christmas	Сс
		TOTTWK4, TOTTWK5	Oil	Year round, but higher concentrations in spring	Essential oil	Cc
Chaga	Inontus obliquus	Birch stands	Fungus	All year	Contains anti-cancer properties (nutraceutical)	Сс
Choke cherry	Prunus virginiana	Dry exposed sites at lower elevations	Fruits	July, August	Edible berries	T/Cp
Clover	Trifolium pratense	Young disturbances	Flowers	Throughout season	Tea	T/Cc
Conifer cones	Picea, Pinus, Pseudotsuga, Tsuga, Thuja	Species dependant		All year	Potpourri	Сс
Conks	Ganoderma applanatum(Artist's fungus)	Found alone or in clumps on rotting stumps and logs, associated with most deciduous and coniferous species		All year	Fuel source, also used to draw on	Сс
Cottonwoo d	Populus balsamifera spp tricocarpa	Active fluvial plains, toe slope positions	Bark & Wood	All year	Bark used for art and other projects; sold for crafts and carving	Сс
			Leaves & Buds	May	Buds used as a healing salve	T/Cc
Cow Parsnip	Heracleum lanatum	Subhygric to hygric sites in mid to lower elevations	Stem	Early June	In spring, edible stems are eaten like celery	T T
					When dry, stems can be made into whistles	
			Roots	Anytime	Dried roots soaked in water and placed on skin to ease arthritis	Т
Cranberrie s	Viburnum edule	Cottonwood patches – deciduous overstory, active fluvial plains and toe slope positions at lower elevations	Berries	Late August, September	Edible berries, preserves & syrup	T/Cc
Crowberry	Empetrum nigrum	Cold air ponding sites and higher elevation sites with nutrient poor soils	Berries	August	Edible berry	T/Cp
Dandelion	Taxacum	Ubiquitous in disturbances across the area	Leaves	Spring	Spring greens	T/Cc

NTFP	Botanical Name	Habitat	Parts Used	Harvest Timing	Use description	Use Category
	officianale; T. ceratophorum		Roots	Anytime, best in spring	Teas	T/Cc
Devil's Club	Oplopanax horridus	Nutrient rich sites with seasonal subsurface seepage, typically not level sites, common in the wetter mid-elevation BGC subzone variants – SBSmk1, SBSwk3, SBSwk1,	Berries Stem & Roots	June	Spiritual uses, and used in teas and tinctures, like ginseng Spiritual uses, and used in	T/Cc
		SBSvk, ICHvk2, ICHwk4, ICHwk3	(rhizome)	7 tily till 10	teas and tinctures, like ginseng	1700
Douglas Maple	Acer glabrum	Steep warm aspects with mesotrophic soils in the moderate and warmer BGC zones	Seedlings	Early spring	Landscaping plant	Сс
Drift wood		Lake and river banks	Wood	Anytime	Furniture, art	Сс
Elderberry	Sambucus racemosa	Mesotrophic to rich, subhygric to hygric sites in the wetter wet mid-elevation BGC subzone variants – SBSwk3, SBSwk1, SBSvk, ICHvk2, ICHwk4, ICHwk3	Berries	Spring – June, July	Tea for coughs and colds	T/Cc
False	Smilacina	Often more abundant in recent disturbances S. trifolia -	Berries	Summer	Edible berries	Т
Solomon Seal	racemosa & S. trifolia	S. racemosa – mesic to subhygric mesotrophic sites in the mid to lower elevations	Greenery	Spring	Edible spring greens	Т
Fireweed	Epilobium angustifolium	Ubiquitous in recent disturbances across the area	Greenery	Spring	Edible spring greens	T/Cp
Gooseberr y	Ribes oxyacanthoides	Subhygric, nutrient rich sites, often associated with clay soils, birch/cottonwood at mid to low elevations	Berries	August	Edible berries	T/Cc
Huckleberr ies (black and blue)	Vaccinium membranaceum and V. ovalifolium	Edges of Older Spruce, Lodgepole Pine forests (gaps, moisture) 15 years post disturbance, north, northeast aspect in younger stands (plantations), WTPs	Berries	Mid to late summer (late July – August)	Edible berries, preserves, and wine	T/Cc
		post harvest Autecology — partial sun to partial shade, higher elevation on mesic, mesotrophic sites or on subxeric to submesic sites with poor soil nutrient in the wetter subzones. Typically more abundant at higher elevations (ESSF)	Leaves	Best in spring	Teas	T/Cc
Juniper	Juniperus spp.	Xeric to subxeric nutrient poor sites, typically	Boughs	Year round	Decorative boughs.	Сс

NTFP	Botanical Name	Habitat	Parts Used	Harvest Timing	Use description	Use Category
		on coarse textured, nutrient poor soils at mid to lower elevations	Berries	Year round	Teas or as seasoning.	T/Cp
			Plants		Landscaping plants	Сс
Kinnickinni ck	Arctostapholus uva-ursi	Xeric to subxeric nutrient poor sites, typically on coarse textured soils at mid to lower	Berries	Late summer, fall (September)	Edible berries.	T/Cp
		elevations	Leaves	All year for the most part	Teas.	T/Cp
Labrador Tea	Ledum groenlandicum	Nutrient poor soils, cold air ponding sites, typically associated with black spruce	Plant/seeds	Fall/winter	Landscaping.	Сс
Lichen	Bryoria, Alectoria	Old interior forest	Lobe & hair	Year round	Survival food	Т
Lupine	Lupinus polyphyllus	Recent disturbances in cool, moderate precipitation subzone/variants – SBSmk1, SBSwk1, ESSFwk2	Flowers	June	Cut flowers	Сс
Morels	Morchella spp.	Recent burns or in cutblocks in the first year post-harvest providing sufficient spring sun/heat		Early June or earlier	Edible mushroom	Cc
Moss	Sphagnum spp.	Nutrient poor wetlands and hygric forests	Peat moss	Year round	Used in diapers	Т
Mountain Ash	Sorbus sitchensis & S. scopulina	Mesic mesotrophic sits in the mid to upper elevation BGC units	Berries	September	Teas to treat diarrhea	
	,		Greenery	Spring, summer, fall	Leaves used in arrangements	Сс
Nettle	Urtica dioecious	Nutrient rich subhygric to hygric sites, toe slopes, in forest openings, associated with cottonwood	Leaves	Early spring, mid to late June, prior to seed production	Spring greens, and used in teas	T/Cc
Oregon grape	Mahonia aquifolia	Dry to mesic sites in the warm dry or moist hot BGC units	Berries	August, September	Edible berries, preserves.	T/Cc
			Greenery	August, September	Floral greenery	Сс
Ostrich fern	Matteucia struthiopteris	Subhygric to hygric nutrient rich sites, typically associated with fluvial outwashes. **SBSmh/08 and ICHvk2/05 are both red-listed ecosystems	Fiddleheads	Early June	Edible young fiddleheads	T/Cc
Pearly everlasting	Anaphalis margaritaca	Recent disturbances	Flowers	August	Dried flowers	Сс
Pin cherry	Prunus pensylvanica	Dry steep south aspects at lower elevations in the southern portion of the area	Fruits	End of June, early July	Edible fruit	

NTFP	Botanical Name	Habitat	Parts Used	Harvest Timing	Use description	Use Category	
Pine	Pinus contorta	Ubiquitous	Cambium	Spring, early June	Food source	Т	
			Sap	All year	Pine gum to chew	Т	
Puffballs				Spring, summer, fall	Edible mushroom	Сс	
Raspberrie	Rubus ideaus	Most commonly found in post harvest	Berries	Late July	Edible fruit, preserves	T/Cc	
S		cutblocks in mesic to subhygric ecosystems, in mid to lower elevations Also know to thrive in drier conditions although yield may not be as high Species is quick to recover post-disturbance	Leaves	Anytime, but better early	Leaves used in teas	T/Cc	
Red Osier	Cornus stolonifera	Wet and rich fluvial areas at mid to lower elevations in the moderate to warm drier BGC	Greenery	All season	Floral greens	Сс	
		units, often associated with Cottonwood	Plants		Landscaping plant	Сс	
Rose	Rosa spp	Ubiquitous but most abundant in dry warm and dry cool BGC units on submesic to mesic mesotrophic soils	Rosehips Flowers	Post flower Spring	Source of vitamin C, teas, jelly	T/Cc T/Cp	
Salvage wood, cones		Species dependant		All year	Art and smoke wood	T/Cc	
Saskatoon	Amelanchier alnifolium	Steep warm aspects with mesotrophic soils in the moderate and warmer BGC zones	Berries	Mid-July	Edible berries	T/Cc	
			Branches	All year			
Shaggy Manes	Coprinus comatus	Common on lawns and roadsides at mid to lower elevations across the area		September, October	Edible mushrooms	Сс	
Soopalallie	Sheperdia canadensis	Subxeric to submesic sites or poor soils with fluctuating water tables, most common in the moderate and dry BGC units at mid to lower elevations	Berries	Late June to early July	Whipped into ice cream, dried or smoked, mixed with pemmican as well	T/Cc	
Spruce	Picea spp.	Ubiquitous	New growth on branch tips	Most uses are early spring, boughs, roots anytime	Tea for colds when boiled with alder	Т	
			Boughs		Boughs at Christmas, also used for ceremonial purposes	T/Cc	
			Cambium		Food source	Т	

NTFP	Botanical Name	Habitat	Parts Used Harvest Timing		Use description	Use Category
			Sap		Spruce gum	Т
			Roots		Used like rope	T/Cc
Strawberry	Fragaria ssp.	Subxeric to mesic sites with partial to full sun, at mid to lower elevations across the area,	Berries	Early to mid June (some fruit twice)	Edible fruit, preserves	T/Cc
		most common on disturbed site such as roadsides with south facing aspects.	Leaves & Runners	Leaves picked anytime, runners in the summer when berries gone	Used for tea (for diarrhea) or hair colour	T/Cc
Strawberry blite	Chenopodium capitatum	Disturbances at mid to lower elevations across the area	Flowers	Late June, early July	Used in salads	T/Cp
Subalpine fir	Abies spp.	Ubiquitous at mid to high elevations across the area	Sap	August	Used as medicine	Т
Thimbleber ry	Rubus parvifolium	Mesic to sughygric sites with mesotrophic to rich soils at middle elevations in moderate to wet cool to cold BGC units	Berries Greenery	June Anytime	Edible berries	T/Cc
Valerian	Valerianna ssp.	Common at mid to high elevations across the area	Root	Spring – June	Teas and tinctures	T/Cc
Wild (Black) Currant	Ribes lacustre	Subhygric sites in	Berries	August	Edible berries	T/Cc
Wild flowers chocolate tiger lilies, columbine, sedum, rose, fern, grasses, lady slipper		Species specific	Whole plant Bulbs/corms	When dormant. Late summer, early fall	Landscaping plants	Cc T
Wild Ginger	Asarum cladatum	Moist rich lower to toe slope positions in very wet BGC units, most commonly found on subhygric benches under dense conifer cover	Leaves Roots	Mid to late June Anytime	Teas	T/Cp
Wild mint	Mentha spp.	Medium to rich wetlands and rich hygric sites at mid to lower elevations	Leaves	All season	Teas	T/Cc
Wild onion	Allium spp.	Dry open sites, wooded or grassy, typically	Bulb	Fall before frost	Edible bulbs	T/Cp

NTFP	Botanical Name	Habitat	Parts Used	Harvest Timing	Use description	Use Category
		with sandy soils on warm aspects, may be associated with Douglas-fir				
Wild rice			Fruit/grain	Late summer to Fall	Edible rice	T/Cc
Willow	Salix spp	Species dependant, most species thrive in disturbances	Greenery (bark, leaf, buds)	All year Spring	Willow for furniture Pussy willows in spring as floral greenery Used as a pain reliever in tea Bark scraped and mixed with tobacco Scraped bark for sore eyes	Cc Cc T T
Yarrow	Achillea millefolium	Partial to full sun on dry to moist soils at mid to lower elevations across the area	Leaves & Flowers	All season – better at certain times of year depending upon use – teas early, smudges later	Teas, flowers used as a rub on the skin or a smudge for mosquitoes	T/Cc

Appendix B Distinct Forest Habitat Types Management Strategies and 2007-08 Results

Distinct Habitat Grouping	Description of Ecosystem Habitat Type	Type of Ecosystem Grouping	Total Area in TFL 30	TFL30 (ha) NHLB	Total TFL30 % Rep. in the NHLB	Distinct Habitat Types Targets	Total Area in DPG (ha) THLB	Total DPG % Rep. in the NHLB	Area (Ha) Harvested 2008	Area (ha) in Reserve 2008	Retention Strategy for areas found in the THLB
2-7	SBSmk1 04 subxeric-submesic Pl Fd Sx leading; Huckleberry, Spirea, Rose, Saskatoon; Moderate tree cover light shrub cover;	Uncommon	141	22.6	16%	>50%	665	8.9%	0	0	No Harvest
3-23	ESSFwk2 03 mesic-subhygric Se, Bl; thimbleberry, huckleberry, rhododendron, twinberry, bunchberry, oak fern, foamflower, bluebells, lady fern, horsetail, knights plume, feathermoss; Light tree cover, heavy shrub cover, moderate herb cover, heavy moss (this unit is now lumped with another unit in the PG TSA – may no longer be considered uncommon).	Uncommon	139	65.3	47%	>50%	139	47%	0	0	

Distinct Habitat Grouping	Description of Distinct Habitat Grouping Type	Type of Ecosystem Grouping	Total Area in TFL 30	TFL30 (ha) NHLB	Total TFL30 % Rep. in the NHLB	Distinct Habitat Types Targets	Total Area in DPG (ha) THLB	Total DPG % Rep. in the NHLB	Area (Ha) Harvested TFL30 2008	Area (ha) in Reserve TFL30 2008	Retention Strategy for areas found in the THLB
3-06	SBSwk1 02 xeric-subxeric PI Sx, Fd leading; Huckleberry Velvet Leaved Blueberry, bunchberry twinflower dwarf blueberry, feathermoss, cladina and freckle lichens; Light tree cover and shrub cover, very sparse herb cover, heavy moss/lichen cover, rare and small	Uncommon	15	5	33%	>50%	669	31%	0	0	No Harvest
2-30	SBSmk1 08 subhygric-hygric Sxw, Bl, Devils club, twinberry, gooseberry, thimbleberry, Queen's cup, oak fern lady fern, leafy mosses, knights plume, feathermoss, cat's tail moss; Moderate tree cover, moderate shrub and herb cover, moderate moss cover; limited to stream edges and seepage flats	Common	303	21.2	7%	>15%	18,586	10.9%	14.8	5.5	15 % WTP Retention on blocks, target retention in Distinct Habitat Type area
3-04	ICH/SBSvk 02 or SBS wk1 03 xeric- subxeric Pl, Sx Velvet leaved blueberry, huckleberry, twinberry, pink spirea, rose, Saskatoon, huckleberry, bunchberry, 5-leaved bramble, toadflax, ricegrass, freckled lichen, cladina lichen, stepmoss; Light tree cover, light shrub cover, moderate herb cover, heavy moss cover, limited to fluvial terraces.	Common	621	62.1	10%	>15%	18,610	11.9%	0	0	
3-20	SBSwk1 01/05 circum-mesic Sx Pl, Huckleberry, thimbleberry, devils club, gooseberry, cranberry, oak fern bunchberry, queen's cup, feathermoss, leafy moss, step moss; light tree cover, light shrub cover, heavy her cover, abundant mosses. Large area.	Common	29,187	2043	7%	>15%	334,517	11.6%	0	0	
3-25	SBSwk1 06 subhygric Sx, Pl, Sb, Pink spirea, twinberry, thimbleberry, Labrador tea, cranberry, rose, gooseberry, bunchberry, oak and lady fern, wintergreen, ground pine, feathermoss, knights plume, broom moss; Moderate tree cover and shrub, light herb cover, moderate moss cover, cold air drainage.	Common	3,660	256.2	7%	>15%	14,534	6.3%	0	0	

Distinct Habitat Type Indicator Targets:
**Uncommon Grouping Target >50% in NHLB **Common Grouping Target >15% in NHLB