

SUSTAINABLE FOREST MANAGEMENT PLAN 4

2008 ANNUAL REPORT

TFL 48

Final



Canadian Forest Products Ltd.
Chetwynd Division
PO Box 180
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2008 ANNUAL REPORT

Canadian Forest Products Ltd.
Chetwynd Operations — TFL 48

Preparation Coordinated by:



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EXECUTIVE SUMMARY

As shown in the following Table 1 of the 54 Indicators 9 were not reported on this year as next reporting is 2010, of the remaining 45 indicators 43 or 96% met the targets while in 2 instances (4%) of the targets were not met. Those indicators that are highlighted in the following table and in the body of the document have suggested changes to either the indicator or monitoring timing.

Table 1: Summary of 2007 Performance

Indicator	Target			
	Met	Not Met	Not Reported (Next Date for Reporting)	Recommend Reporting be Suspended
2.1 Ecosystem Representation	✓			
2.2 Forest Types			2010	
2.3 Late Seral Forest	✓			
2.4 Patch Size Distribution	✓			✓
2.5 Snags/Live Tree Retention	✓			
2.6 Coarse Woody Debris			2010	
2.7 Average Minimum Width of RRZ and RMZ	✓			
2.8 Shrubs/Early Forest			2010	
2.9 Wildlife Tree Patches	✓			
2.10 Habitat Supply for Species of Public Concern			2010	
2.11 Species of Management Concern	✓			
2.12 Coniferous Seeds	✓			
2.13 Deciduous Seeds and Vegetative Material	✓			
2.14 Class A Parks, Ecological Reserves and LRMP Designated Protected Areas	✓			
2.15 Wildlife Habitat Areas, Ungulate Winter Ranges and Dunlevy Creek Management Plan	✓			
2.16 Forest Health	✓			
2.17 Proportion of Completed Forest Health Action Plans	✓			
2.18 Regeneration Declaration	✓			
2.19 Free Growing Stands	✓			
2.20 Permanent Access Corridors			2010	
2.21 Site Index	✓			
2.22 AAC	✓			
2.23 Soil Degradation	✓			
2.24 Soil Disturbance Surveys	✓			
2.25 Use of Environmentally Friendly Lubricants	✓			✓
2.26 Spills Entering Waterbodies	✓			
2.27 Stream Crossing Quality Index	✓			
2.28 Action Plans for High Water Quality Concern Rating (WQCR)	✓			
2.29 Peak Flow Index	✓			
2.30 Watershed Reviews	✓			
2.31 Carbon Sequestration			2010	
2.32 Ecosystem Carbon Storage (Mg) in the DFA			2010	
2.33 Area of Forested Land			2010	
2.34 Range Opportunities	✓			✓
2.35 Maintenance of Visual Landscape Inventory	✓			
2.36 Proportion of Harvesting Consistent with Visual Quality Objective	✓			



Indicator	Target			
	Met	Not Met	Not Reported (Next Date for Reporting)	Recommend Reporting be Suspended
2.37 Back Country Condition	✓			
2.38 Recreational Sites	✓			
2.39 Harvest Levels/Volumes	✓			
2.40 Waste	✓			
2.41 Harvest Method	✓			
2.42 Summer and Fall Deliveries		✓		✓
2.43 Local Employment	✓			
2.44 Community Donations		✓		✓
2.45 Consistency with Third Party Action Plans	✓			
2.46 Known Values and Uses Addressed in Operational Planning	✓			
2.47 Conformance to Elements Pertinent to Treaty Rights	✓			
2.48 LRMP Implementation Meetings Attended by Canfor	✓			
2.49 Public Advisory Committee	✓			
2.50 Public Advisory Committee Terms of Reference	✓			
2.51 Open Houses			N/A	
2.52 Response to Public Inquiries	✓			
2.53 Distribution/Access to SFM Plan, Annual Reports and Audit Results	✓			
2.54 Spatial Forecasting and Analysis	✓		2010	
2.55 Currency of Vegetation Resource Inventory	✓			

ACKNOWLEDGEMENTS

We would like to thank the Chetwynd Woodlands staff and BC Timber Sales (Dawson Creek) staff and Louisiana Pacific staff on behalf of Tembec for compiling or providing data.

We would also like to thank the Public Advisory Committee members and advisors for their continued input to the Sustainable Forest Management process and providing input on the draft document. This report was reviewed by the PAC on September 10, 2009.

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This report is prepared as an annual report required by the CSA standard and also serves as a TFL Annual Report. In this report, each Indicator is reiterated, and a brief status report is provided. For additional information on the Indicators and Objectives, or the practices involved, the reader should refer to Canfor's Sustainable Forest Management Plan 4 for Tree Farm Licence 48 (Canfor, 2006).

The Public Advisory Committee reviewed this report on **TBD**.

1.1 OVERVIEW

The format of the remainder of this document and the detailed status of each indicator are provided below. *This document is subject to review by the Public Advisory Committee (PAC).*

Information noted as SBFEP was collected and provided by BC Timber Sales staff at the Dawson Creek office of the Peace Forest District. Canfor then included this information into applicable indicator reporting. Information provided by Tembec for harvesting, road construction and silviculture activity was included into the applicable indicators.

1.2 SIGNIFICANT CHANGES

A significant development in the management of TFL 48 is that on December 5, 2007, due to continuing poor lumber markets and a high Canadian dollar, Canfor announced an indefinite closure of its sawmill in Chetwynd once existing log inventories were utilized and finished products shipped. This is the main destination of logs from TFL 48 and as such activities will be at considerably lesser scale than what normally would occur.

Canfor is committed to maintaining TFL 48 in good standing and is continuing to manage all obligations such as silviculture, roads, and SFMP certification during this economic downturn.

2 SFM INDICATORS AND OBJECTIVES

2.1 ECOSYSTEM REPRESENTATION

Indicator Statement	Target Statement
Proportion of rare ecosystem groups (3, 6, 7, 10, 21) reserved from harvest	100% of rare ecosystems reserved from harvest
<p>SFM Objective: We will conserve or restore ecosystem diversity within the natural range of variation within DFA over time. We will conserve genetic diversity of both wildlife and plant species.</p>	

STATUS AND COMMENTS:

Blocks are assessed annually as layout is completed to determine the presence of rare ecosystems. There were zero blocks laid out for Canadian Forest Products Ltd. over the 2008 field season.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.2 FOREST TYPES

Indicator Statement	Target Statement
Percent distribution of forest type (deciduous, deciduous mixed wood, conifer mixed wood, conifer) >20 years old across DFA	100% of forest type groups will be within the target range (Conifer - 75-85%, Conifer Mixedwood - 4-6%, Deciduous - 9-15%, Deciduous Mixedwood - 2-4%)
<p>SFM Objective: We will conserve or restore ecosystem diversity within the natural range of variation within the DFA over time. We will sustain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress. We will sustain the natural range of ecosystem productivity to support naturally occurring species.</p>	

STATUS AND COMMENTS:

This indicator's status was reported in SFMP 4 and will not be reported on again until 2010. The following Table 2 shows the status as reported in SFMP 4.

Table 2: Forest Type Distribution Current and FDP Status and Target Ranges

Forest Type	Area by Forest Type					Target Range
	MP 3 % ¹	2005	%	2010	%	
Coniferous	80%	407,906	80%	413,252	80%	75-85%
Mixed - Coniferous	5%	26,477	5%	26,858	5%	4-6%
Mixed - Deciduous	3%	17,723	3%	17,876	3%	2-4%
Deciduous	12%	62,437	12%	63,394	12%	9-15%
Grand Total		514,543	100%	521,380	100%	

REVISIONS:

No revisions are suggested for this indicator or objective.

2.3 LATE SERAL FOREST

Indicator Statement	Target Statement
The minimum acceptable proportion (%) of late seral forest by Natural Disturbance Unit (NDU) and NDU by BEC	The minimum proportion (%) of late seral forest by NDU and NDU by BEC as shown in (SFMP 4 Table 11)
SFM Objective: We will conserve or restore ecosystem diversity within the natural range of variation within DFA over time. We will conserve genetic diversity of both wildlife and plant species.	

STATUS AND COMMENTS:

As part of the annual reporting an assessment of the impact of the existing and proposed harvest was made on the late seral targets for TFL 48. As we have shifted from completing Forest Development Plans (FDP) under the Forest Practices Code of BC Act to completing Forest Stewardship Plans (FSP) under the Forest and Range Practices Act, the way proposed harvest areas are defined has changed quite significantly. Under a FSP the proposed harvest area is normally quite large to solicit input on concerns or values in these areas prior to conducting fieldwork. As the shape and size is much larger than the actual completed or proposed harvest area it is inappropriate to use these areas to project impacts on values such as late seral forest. As such only proposed harvesting where fieldwork has been completed and the actual harvest area defined is used to project the future seral impacts. For this annual report the current ha is based on ages being projected to 2009 and the projected ages is to 2011.

The following provides a summary of the results:

NDU/BEC Targets – All targets are met for the Boreal Plains and Boreal Foothills – Valley Deciduous units (See Table 3).

Boreal Plains Conifer (See Table 4) – Targets are met at the BEC variant level however the targets are not met at the NDU level, although the deficit has decreased from 1,351 ha to 1,009 ha through recruitment. There is projected to be over 31,000 ha of mature to recruit from.

¹ MP 3 data is shown as a percent due to a slight change in the way this indicator is reported. The indicator has change to reporting only stands greater than 20 years old and there have been some changes to the area of TFL 48.

Boreal Foothills – Valley – Conifer – Targets are met at the BEC variant level and at the NDU level.

Boreal Foothills – Mountain – Targets are met at the BEC variant level and at the NDU level by the end of the projected harvesting.

Omineca – Valley – Targets are met at the BEC variant and NDU level for this unit. There is no new proposed harvesting in this amendment.

Omineca – Mountain – Targets are met at the BEC variant level but not at the NDU level. While this reporting shows an increase in the deficit there has actually been a steady increase in the amount of late seral from 30% to 35% in 2020 after proposed harvesting. This is due to this unit being very small and the forest continuing to age while no harvesting has taken place and there still being proposed harvesting for CP 332. This is a CAT A approved permit from the 2002 FDP. Harvesting has been deferred from this area and shifted more MPB priority areas. The blocks have remained in the analysis, as the permit is predominately pine.

Wet Mountain – Targets are met at the BEC variant level but not at the NDU level. There has been a decrease in the deficit from 20,430 ha to 20,167 ha. There are a total of 665 ha of new harvesting proposed in the wet mountains. The target for this unit is 84% 141 years old or older. It is projected that the full targets will be met within 80 years. The harvesting proposed in this amendment will not jeopardize the achievement of this target as there are 27,615 ha of recruitment available in the lower 2 age groups. The proposed harvesting in this unit is consistent with SFMP 4 for TFL 48 section 3.3 indicator, target and acceptable variance.

REVISIONS:

No revisions are suggested for this indicator or objective.

Table 3: Current and Projected Harvest Status of Late Seral Forest – Deciduous

NDU	BEC	<40				40-100				101+				Total Forested ha	141+ Target	Years to Meet Target		
		Current		Projected		Current		Projected		Current		Projected					Surplus (Deficit)	Surplus (Deficit)
		ha	%	ha	%	ha	%	ha	%	ha	%	ha	%					
Boreal Plains - Deciduous	BWBSmw 1	2,828	7%	3,183	8%	20,879	55%	20,039	53%	14,158	37%	10,371	14,643	39%	10,857	37,865	10%	
	BWBSwk 1	87	2%	75	2%	3,051	77%	3,013	76%	843	21%	445	893	22%	495	3,981	10%	
	ESSFmv 2	11	2%	11	2%	350	80%	345	79%	75	17%	31	80	18%	36	436	10%	
	SBS wk 2		0%		0%	11	28%	11	28%	29	72%	N/A	29	72%	N/A	40	N/A	
Boreal Plains - Deciduous Total		2,926	7%	3,269	8%	24,291	57%	23,407	55%	15,104	36%	10,872	15,645	37%	11,413	42,321	10%	0
Boreal Foothills - Valley - Deciduous	BWBSmw 1	2,171	10%	2,015	9%	10,827	49%	10,394	47%	9,154	41%	6,938	9,742	44%	7,527	22,152	10%	
	BWBSwk 1	28	2%	31	2%	1,065	72%	1,062	72%	380	26%	233	380	26%	232	1,473	10%	
	BWBSwk 2	178	3%	121	2%	2,043	40%	2,086	41%	2,883	56%	2,373	2,897	57%	2,386	5,103	10%	
	SBS wk 2	426	5%	470	5%	5,534	64%	5,229	61%	2,621	31%	1,763	2,882	34%	2,024	8,581	10%	
Boreal Foothills - Valley - Deciduous Total		2,803	8%	2,638	7%	19,469	52%	18,771	50%	15,037	40%	11,306	15,900	43%	12,169	37,309	10%	0
Grand Total		5,729	7%	5,906	7%	43,760	55%	42,178	53%	30,141	38%		31,546	40%		79,630		

Table 4: Current and Projected Harvest Status of Late Seral Forest – Coniferous

NDU	BEC	<40		40-100				101-140				141+				Total Current ha	141+ Target	Years to Meet Target				
		Current		Projected		Current		Projected		Current		Projected		Surplus (Deficit)	Projected				Surplus (Deficit)			
		ha	%	ha	%	ha	%	ha	%	ha	%	ha	%		ha					%		
Boreal Plains - Conifer	BWBSmw 1	7,751	24%	8,178	25%	10,122	31%	9,164	28%	11,358	35%	11,855	37%	3,231	10%	1,608	3,266	10%	1,642	32,462	5%	
	BWBSwk 1	2,189	9%	2,329	10%	6,512	27%	5,206	22%	11,700	49%	12,843	54%	3,368	14%	2,180	3,392	14%	2,204	23,770	5%	
	ESSFmv 2	446	3%	446	3%	2,194	17%	1,644	13%	6,532	50%	6,798	52%	3,842	30%	3,192	4,127	32%	3,476	13,015	5%	
	SBS wk 2	0	0%	0	0%	178	89%	177	88%	10	5%	11	6%	13	6%	N/A	13	6%	N/A	201	N/A	
Boreal Plains - Conifer Total		10,386	15%	10,953	16%	19,006	27%	16,190	23%	29,600	43%	31,507	45%	10,455	15%	(1,351)	10,798	16%	(1,009)	69,448	17%	20
Boreal Foothills - Valley - Conifer	BWBSmw 1	4,303	14%	4,502	14%	8,593	27%	7,942	25%	11,160	35%	11,589	36%	7,793	24%	5,563	7,817	25%	5,587	31,849	7%	
	BWBSwk 1	623	11%	966	18%	1,652	30%	1,213	22%	931	17%	1,179	22%	2,222	41%	1,842	2,069	38%	1,689	5,427	7%	
	BWBSwk 2	272	4%	267	4%	3,538	48%	3,533	47%	2,802	38%	2,807	38%	833	11%	312	837	11%	316	7,444	7%	
	SBS wk 2	13,744	17%	15,083	18%	23,728	29%	19,958	24%	21,013	25%	23,484	28%	24,632	30%	18,813	24,592	30%	18,774	83,118	7%	
Boreal Foothills - Valley - Conifer Total		18,943	15%	20,819	16%	37,510	29%	32,646	26%	35,906	28%	39,058	31%	35,479	28%	6,076	35,315	28%	5,912	127,839	23%	10
Boreal Foothills - Mountain	ESSFmv 2	7,928	7%	8,531	8%	27,173	26%	23,261	22%	29,184	27%	31,850	30%	41,938	39%	31,316	42,580	40%	31,958	106,223	10%	
	ESSFmv 4	297	3%	262	2%	5,320	45%	5,327	45%	4,413	38%	4,427	38%	1,708	15%	535	1,722	15%	548	11,738	10%	
	ESSFwc 3	604	2%	604	2%	5,781	24%	5,592	23%	10,520	43%	9,455	39%	7,622	31%	5,170	8,877	36%	6,424	24,527	10%	
	ESSFwk 2	3,250	12%	3,782	14%	7,225	27%	6,609	25%	8,815	33%	8,978	34%	7,116	27%	4,475	7,037	27%	4,396	26,406	10%	
Boreal Foothills - Mountain Total		12,078	7%	13,179	8%	45,499	27%	40,789	24%	52,932	31%	54,709	32%	58,384	35%	2,650	60,216	36%	4,481	168,893	33%	10
Omineca - Valley	BWBSmw 1		0%	0%	10	36%	10	36%	17	64%	17	64%		0%	N/A		0%	N/A	27	N/A		
	SBS wk 2	666	11%	636	10%	428	7%	428	7%	3,512	57%	3,413	55%	1,571	25%	1,139	1,700	28%	1,268	6,177	7%	
Omineca - Valley Total		666	11%	636	10%	438	7%	437	7%	3,529	57%	3,430	55%	1,571	25%	144	1,700	27%	273	6,204	23%	0
Omineca - Mountain	ESSFmv 2	744	6%	941	7%	1,273	10%	1,218	9%	6,383	48%	6,391	48%	4,786	36%	2,545	4,637	35%	2,396	13,186	17%	
Omineca - Mountain Total		744	6%	941	7%	1,273	10%	1,218	9%	6,383	48%	6,391	48%	4,786	36%	(2,862)	4,637	35%	(3,011)	13,186	58%	40
Wet Mountain	ESSFmv 2	374	2%	544	3%	3,147	19%	3,136	19%	3,241	20%	3,259	20%	9,494	58%	5,430	9,319	57%	5,254	16,257	25%	
	ESSFwc 3	417	1%	423	1%	4,443	14%	4,346	13%	6,468	20%	5,860	18%	21,018	65%	12,932	21,719	67%	13,632	32,347	25%	
	ESSFwk 2	2,876	11%	3,066	12%	3,571	14%	3,173	12%	2,584	10%	2,848	11%	17,210	66%	10,650	17,153	65%	10,593	26,240	25%	
	SBS wk 2	2,133	18%	2,343	20%	3,175	27%	2,779	24%	1,825	16%	2,215	19%	4,423	38%	1,534	4,219	37%	1,330	11,556	25%	
Wet Mountain Total		5,800	7%	6,375	7%	14,336	17%	13,434	16%	14,118	16%	14,181	16%	52,146	60%	(20,430)	52,409	61%	(20,167)	86,400	84%	80
Grand Total		48,617	10%	52,904	11%	118,063	25%	104,714	22%	142,469	30%	149,277	32%	162,822	34%		165,075	35%		471,970		

Source: VRI – 2004 and Planned and Laid out harvest areas

2.4 PATCH SIZE DISTRIBUTION

Indicator Statement	Target Statement
Percent area by Patch Size Class (0-50, 51-100 and >100 ha) by Natural Disturbance Unit (NDU) by early or mature and proportion of mature interior forest condition.	Targets by Patch Size Class by NDU by early or mature are shown in SFMP 4 Table 14
SFM Objective: We will conserve or restore ecosystem diversity within the natural range of variation within DFA over time.	

STATUS AND COMMENTS:

The information shown in Table 5 and Table 6 show the current and projected status of this indicator. The future or projected information is different from how this information was previously presented. Due to the nature of how proposed harvest areas are shown in a Forest Stewardship Plan (FSP) there is significant difference between what is initially proposed and what may ultimately be proposed for harvest. From this point forward the projected values are based upon the completed field layout. As such there is less information to project versus the current status than what was reported in previous reporting of this information. The early and mature forest patch size targets and proportion of mature interior forest are all being met after the proposed development.

Table 5: Early Patch Size Class Current and Projected

NDU	Patch Class (ha)										Total Current	Total Projected
	<50		50-100				100+					
	Current %	Proj %	Current %	Proj %	Target	Current %	Proj %	Target				
Boreal Plains	1,913 14%	1,817 12%	976 7%	1,047 7%	<15%	10,918 79%	11,924 81%	>50%			13,807	14,788
Boreal Foothills/Omineca	6,762 19%	6,067 16%	6,326 18%	5,661 15%	<20%	22,845 64%	27,089 70%	>40%			35,933	38,817
Wet Mountain	1,269 22%	1,253 20%	1,587 27%	1,198 19%	<25%	2,953 51%	3,832 61%	>60%			5,809	6,283
Grand Total	9,944 18%	9,137 15%	8,889 16%	7,906 13%		36,716 66%	42,845 72%				55,549	59,888

Table 6: Mature Patch Size Class Current and Projected

NDU	Current / Projected	Patch Size Class (ha)							Grand Total	Total Interior Forest %	Interior Forest Target
		<50		50-100		100+		Target			
		ha	%	ha	%	ha	%				
Boreal Plains	Current	10,812	19%	4,018	7%	43,600	75%	>70%	58,430	66%	>30%
	Projected	5,497	9%	2,555	4%	51,887	87%	>70%	59,939	68%	>30%
Boreal Foothills/Omineca	Current	29,497	13%	6,600	3%	188,285	84%	>80%	224,382	70%	>35%
	Projected	14,101	6%	4,860	2%	209,299	92%	>80%	228,260	71%	>35%
Wet Mountain	Current	8,925	12%	1584	2%	60,965	85%	>85%	71,474	70%	>60%
	Projected	2,663	4%	509	1%	67,572	96%	>85%	70,744	71%	>60%

REVISIONS:

As the scale of operations is very small and our likelihood of significantly impacting this indicator during the indefinite closure of the Chetwynd mill we recommend that the reporting of this indicator be suspended until full operations resume.

2.5 SNAGS/LIVE TREE RETENTION

Indicator Statement	Target Statement
Number of snags and/or live trees (>17.5cm dbh) per ha on prescribed areas	Retain annually an average of at least 2 snags and/or live trees (>17.5 cm dbh) per hectare on prescribed areas
<p>SFM Objective: We will sustain sufficient and appropriately distributed suitable habitat elements to maintain native species richness. We will sustain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.</p>	

STATUS AND COMMENTS:

There were 9 blocks on which harvesting was started in 2008 of these all of the area was laid out in the field after to this indicator being adopted. 91% of the total area harvested had retention prescribed consistent with this indicator. The remaining 9% of the area did not require retention to be prescribed. All of the area where harvesting started on new blocks in 2008 was with conventional ground based harvesting systems.

Table 7: Status of prescribed retention for blocks harvested in 2008

Block ID	Clear Cut		Retention		Total Area (ha)	Total %	Strategy Implemented Correctly
	Area (ha)	%	Area (ha)	%			
E20-001	19.1	37%	33.0	63%	52.1	100%	Ok
E21-001		0%	28.6	100%	28.6	100%	Ok
E22-001		0%	6.7	100%	6.7	100%	Ok
E23-001		0%	23.9	100%	23.9	100%	Ok
E24-001	3.4	85%	0.6	15%	4.0	100%	Ok
E25-001		0%	13.1	100%	13.1	100%	Ok
E26-001	7.1	59%	5.0	41%	12.1	100%	Ok
T4151		0%	146.0	100%	146.0	100%	Ok
T4155		0%	59.0	100%	59.0	100%	Ok
Grand Total	29.6	9%	315.9	91%	345.6	100%	

REVISIONS:

Recommend changing this indicator and target to snags and/or live trees (>23 cm dbh) per ha on prescribed areas.

2.6 COARSE WOODY DEBRIS

Indicator Statement	Target Statement
Average Coarse Woody debris size and m ³ /ha on blocks harvested on the TFL since Jan 1, 2004	Average retention level over the TFL since Jan 1, 2004 will be at least 92 m ³ /ha of which a minimum of 46 m ³ /ha will be greater than 17.5cm in diameter
<p>SFM Objective:</p> <p>We will sustain sufficient and appropriately distributed suitable habitat elements to maintain native species richness.</p> <p>We will sustain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbance and stress.</p>	

STATUS AND COMMENTS:

Currently 9 of 23 plots have been established on TFL 48. All samples must be completed for the 2010 reporting. Progress to date for the 9 samples shows an average of 112 m³/ha of which 58 m³/ha is greater than 17.5 cm.

Next reporting on the status of this indicator will be in 2010.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.7 AVERAGE MINIMUM WIDTH OF RRZ AND RMZ

Indicator Statement	Target Statement
Average minimum width of retention by Riparian Reserve Zone or Riparian Management Zone by appropriate stream, lake or wetland classification within cutblocks	We will meet or exceed the regulatory retention widths by Riparian Reserve Zone by appropriate stream, lake or wetland classification within cutblocks
<p>SFM Objective:</p> <p>To have representative areas of naturally occurring and important ecosystems, and rare physical environments protected at both the broad and site specific levels across or adjacent to the DFA</p> <p>We will maintain water quality and quantity.</p>	

STATUS AND COMMENTS:

The following table (Table 8) shows the summary of riparian reserve and management zones for 2008 as well as the cumulative average from 2000 to 2008. The targets have been met in 2008 and all previous years. It should be noted that where the minimum riparian management area (RMA) is not met this is due to more area being contained within the reserve zone (RRZ).

Table 8: Summary of Riparian Reserve and Management Zones in 2000-2008

Year	Stream, Wetland or Lake Class	Total Stream Length (m) ^b	RRZ – Required Width (m) ^c	RRZ–Actual Width (m) ^c	RMZ Required Width (m) ^c	RMZ – Actual Width (m) ^c	Total RMA Required (m)	Actual (m)
2008	S1 (n=1)	4269	50	289.8	20	-	70	289.8
	S2 (n=4)	7886	30	159.8	20	6.2	50	166.0
	S3 (n=4)	1440	20	22.6	20	21.9	40	44.4
	S4 (n=1)	33	0	-	30	33.6	30	33.6
	S5 (n=0)	-	0	-	30	-	30	-
	S6 (n=12)	15198	0	-	20	23.3	20	23.3
	W3 (n=0)	-	0	-	30	-	30	-
	W5 (n=0)	-	10	-	40	-	50	-
Average 2000 to 2008	S1	34,694	50	104.4	20	4.8	70	109.2
	S2	23,126	30	104.9	20	9.9	50	114.8
	S3	33,094	20	52.2	20	15.9	40	68.0
	S4	17,026	0	8.5	30	24.8	30	33.3
	S5	26,314	0	27.4	30	21.1	30	48.6
	S6	250,331	0	6.3	20	19.0	20	25.3
	W3	3,231	0	6.4	30	25.9	30	32.2
	W5	673	10	27.3	40	25.8	50	53.1

a Channel widths for S1 streams are >20m, <100m.

b Streams that flow through, rather than adjacent to a block have had their lengths doubled to account for the application of RMA's to both sides. Therefore true stream length is less than reported in this table.

c RRZ and RMZ widths are applied to a single side of a stream. If stream flows through the block the length has been doubled (see footnote b) but the widths are not doubled.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.8 SHRUBS/EARLY FOREST

Indicator Statement	Target Statement
The minimum proportion of shrub habitat (%) by Natural Disturbance Unit	Each Natural Disturbance Unit will meet or exceed the baseline target (%) proportion of shrub habitat as indicated in Table 9
SFM Objective: We will sustain sufficient and appropriately distributed habitat elements to maintain native species richness.	

STATUS AND COMMENTS:

The following table (Table 9) indicates the current and post FDP condition of shrub habitat within the DFA as reported in the 2005 SFMP Annual Report. This indicator was changed in the 2005 Annual Report and will next be reported on in SFMP 5.

Table 9: Shrub Habitat Targets, Current and Proposed Condition

NDU	NDU Subunit	Total NDU Area	2005 Shrub		2010 Shrub		Baseline Target %
			Ha	%	Ha	%	
Boreal Plains		120,891	15,762	13%	21,507	18%	14%
Boreal Foothills	Valley	178,225	25,245	14%	30,653	17%	12%
	Mountain	205,406	20,936	10%	24,540	12%	11%
Omineca	Valley	6,504	727	11%	722	11%	7%
	Mountain	15,031	1,277	8%	1,705	11%	10%
Wet Mountain		117,618	12,634	11%	14,919	13%	7%
Grand Total		643,676	76,581	12%	94,045	15%	

REVISIONS:

No revisions are suggested for this indicator or objective.

2.9 WILDLIFE TREE PATCHES

Indicator Statement	Target Statement
Cumulative wildlife tree patch percentage in blocks harvested since 1995 by BEC sub zone	Cumulative wildlife tree patch % will be at least 8% by BEC sub zone
<p>SFM Objective: We will sustain sufficient and appropriately distributed suitable habitat elements to maintain native species richness. We will sustain a natural range of variability in ecosystem function, composition and structure, which allows ecosystems to recover from disturbance and stress.</p>	

STATUS AND COMMENTS:

The table below summarizes the current status for WTP retention levels for blocks on which harvesting began since 1995 and to the end of 2008. The WTP retention levels exceed the target in all subzones except the ESSFwc3, however 75% or 539 ha of the 714 ha under prescription have been harvested with an irregular shelterwood retention system. Typically 55% of the area is retained between the trails so 55% of the 539 ha is 296 ha plus the 39 ha of WTP prescribed is a total of 335 ha of retention or 47% of the total area under prescription.

Table 10: Summary of WTP's in Areas Harvested Since 1995

BEC Sub Zone	Total Area Under Prescription	WTP Area	WTP %
BWBSmw	8,890	1,372	15%
BWBSwk	1,683	283	17%
ESSFmv	5,734	626	11%
ESSFwc	714	39	5%
ESSFwk	4,279	411	10%
SBSwk	8,992	1,450	16%
Grand Total	30,292	4,181	14%

REVISIONS:

No revisions are suggested for this indicator or objective.

2.10 HABITAT SUPPLY FOR SPECIES OF PUBLIC CONCERN

Indicator Statement	Target Statement
Habitat supply for species of public interest (grizzly bear, wolverine, marten, fisher, elk, moose, caribou)	When habitat supply decreases by 20% over time beyond the natural range of variation baseline for species of public interest, stand level management strategies will be developed within one year
We will sustain sufficient and appropriately distributed suitable habitat elements to maintain native species richness.	

STATUS AND COMMENTS:

This indicator was first reported on in 2005 in the Draft SFMP 4. When the final analysis was completed in support of the timber supply analysis this indicator was reassessed. The information presented in the following charts is also included in the proposed SFMP 4. Next reporting of this indicator will be done in conjunction with SFMP 5.

Moose was modeled for the summer feeding period. TFL 48 represents excellent moose habitat with over 340,000 ha classified in very high, high and moderate categories of habitat supply.

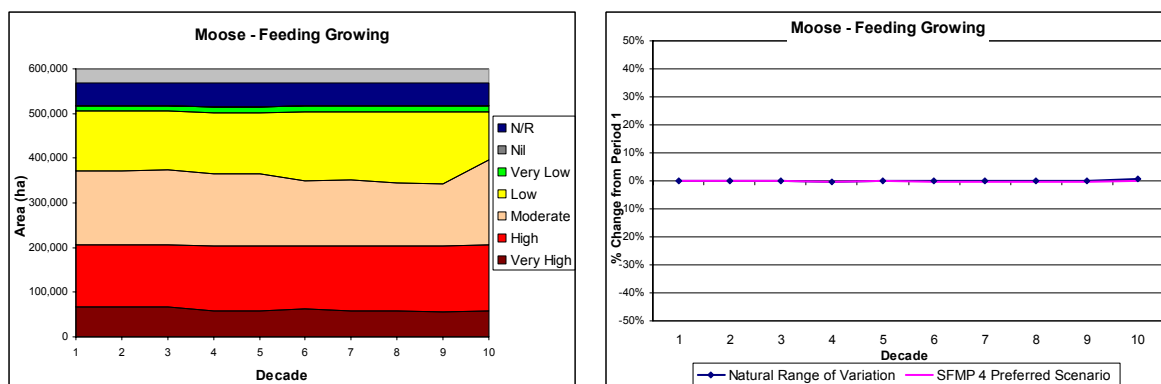


Figure 2: Moose Habitat Supply

Elk habitat was modeled as summer feeding habitat. TFL 48 represents excellent elk habitat with over 230,000 ha classified in very high, high and moderate categories of habitat supply.

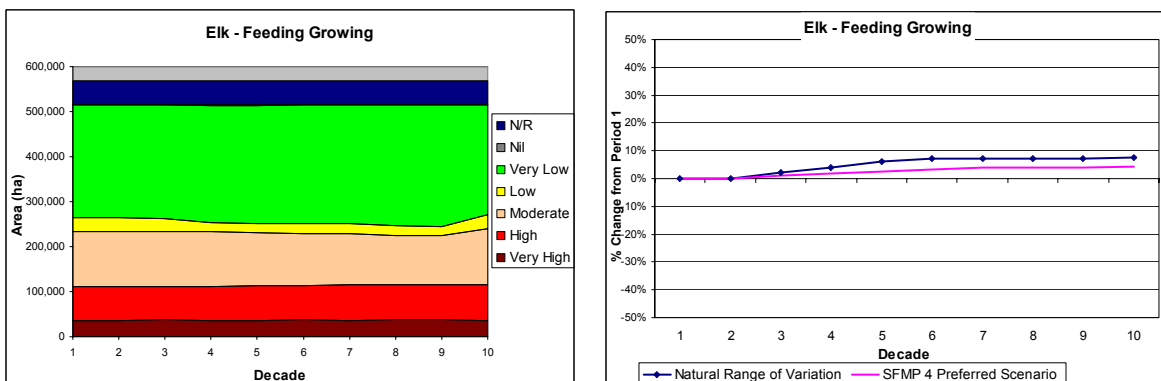


Figure 3: Elk Habitat Supply

Caribou was modeled for both late and early winter habitat types. In contrast to moose and elk there is comparatively little very high, high and moderate habitat for caribou, approximately 15,000 ha of early winter. (This is likely underrepresented with the current model.) Late winter habitat trends to a significantly less amount in the preferred scenario versus the natural range of variation baseline.

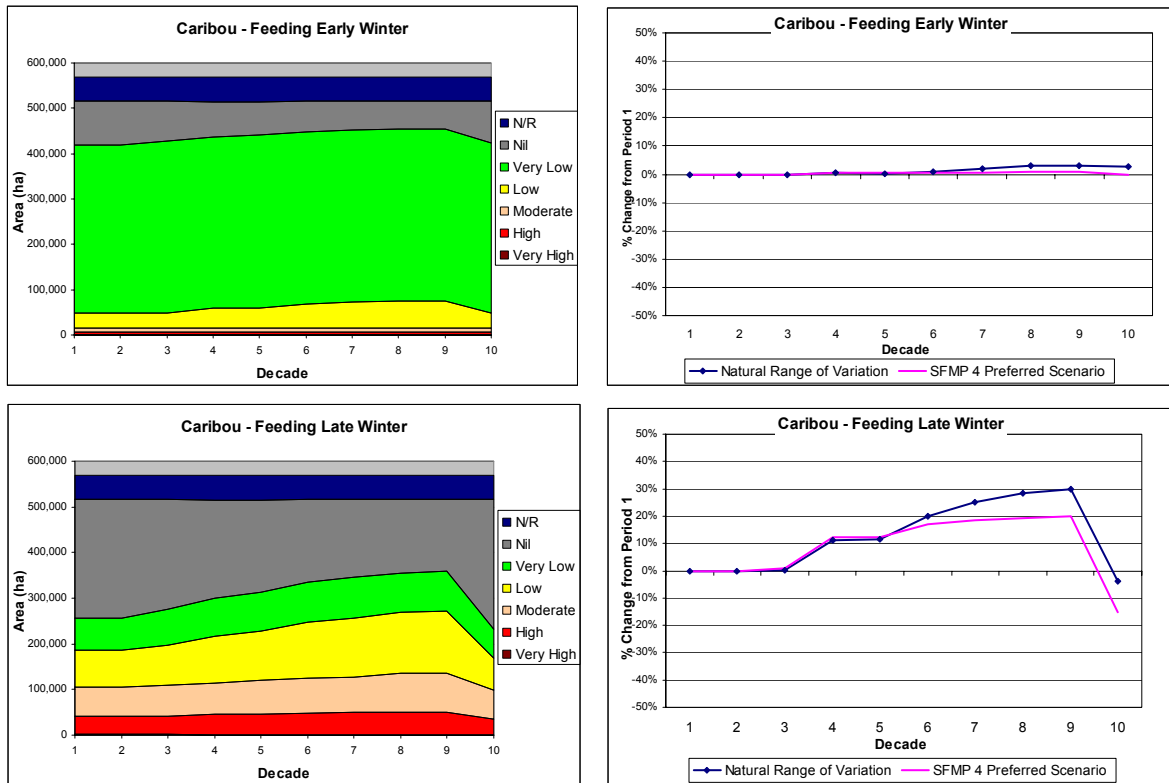


Figure 4: Caribou Habitat Supply

Marten habitat was modeled as general winter habitat. TFL 48 has a large amount of habitat (over 250,000 ha) modeled as very high, high and moderate. While habitat steadily declines over the 100 year simulation the preferred scenario has less of a decline than the natural range of variation simulation.

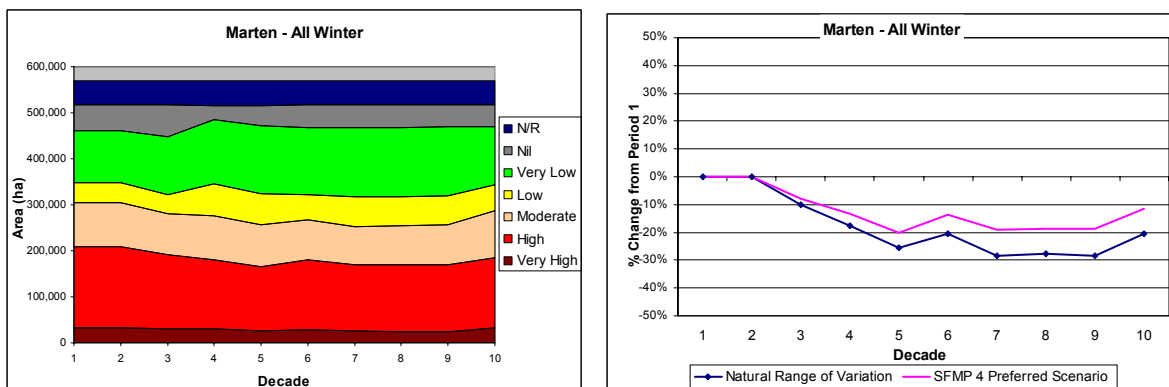


Figure 5: Marten Habitat Supply

Fisher habitat was modeled as general winter habitat. TFL 48 represents a large area of very high, high and moderate habitat with over 196,000 ha classified in these categories.

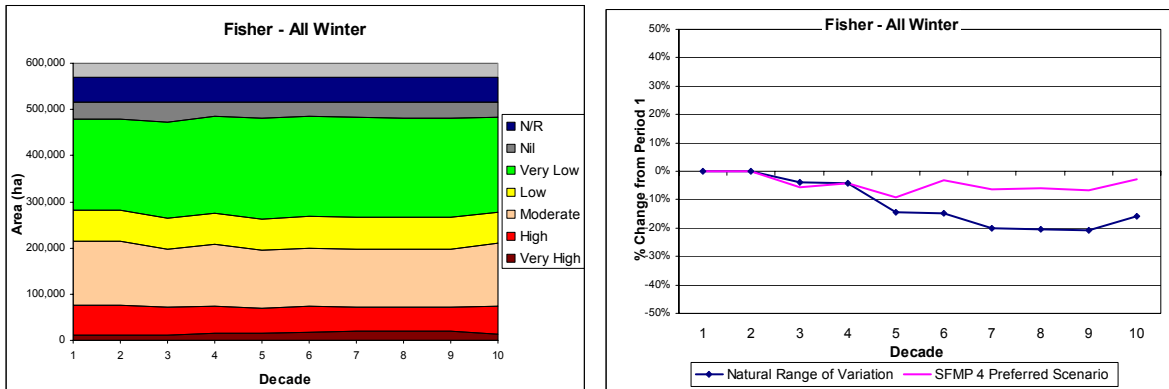


Figure 6: Fisher Habitat Supply

Grizzly bear habitat was modeled as spring feeding habitat. TFL 48 has a moderate amount of very high, high and moderate grizzly bear habitat with over 111,000 ha classified in these categories.

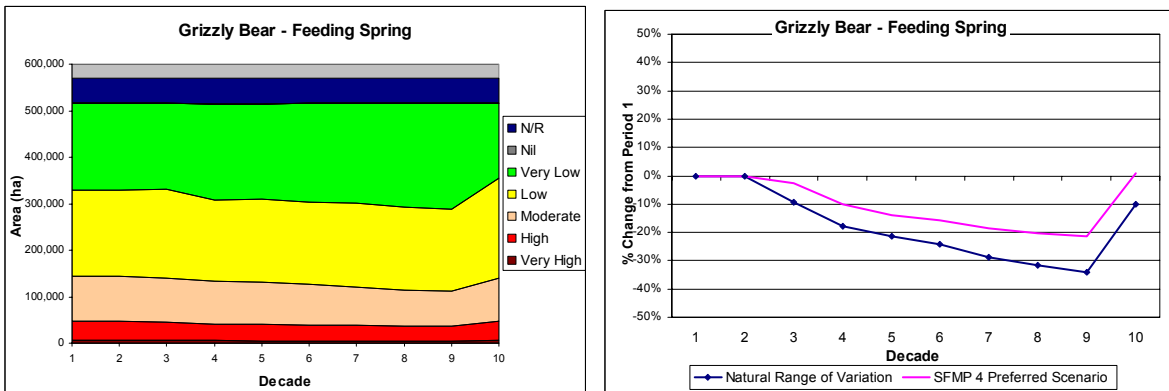


Figure 7: Grizzly Bear Habitat Supply

Wolverine habitat was modeled as winter feeding habitat. TFL 48 represents an excellent area for wolverine with over 440,000 ha modeled as high and moderate habitat quality. Again while the trend is for a decline in the overall amount of high quality habitat the preferred scenario shows less of a decline than the natural range of variation.

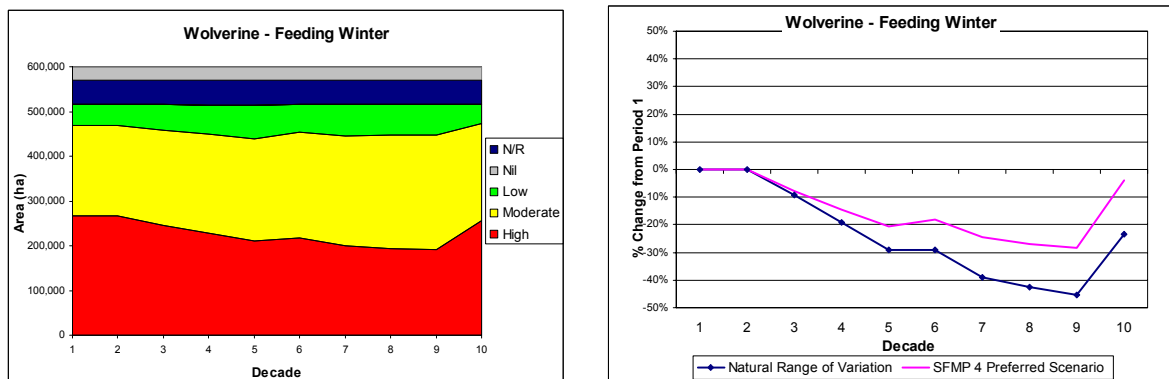


Figure 8: Wolverine Habitat Supply

REVISIONS:

No revisions are suggested for this indicator or objective.

2.11 SPECIES OF MANAGEMENT CONCERN

Indicator Statement	Target Statement
Percent consistency with management strategies for species of management concern	On an annual basis, 100% of the management strategies for species of management concern are consistently being implemented as scheduled
SFM Objective: We will maintain sufficient habitats for species at risk.	

STATUS AND COMMENTS:

The implementation strategy for this indicator was to implement stand level management guidelines on all areas where layout was initiated after October 31, 2005. In 2008 there was now new layout conducted however of the 9 blocks where harvesting started in 2008 all had been assessed to be consistent with the stand level management strategies for species of management concern.

Canfor Chetwynd Division, in partnership with academia and the provincial government, is developing a new approach for identifying species of potential conservation concern based on stewardship responsibility, trend, threat and vulnerability (Fred Bunnell, pers comm June 23, 2006). The progress on the process to identify the species of conservation concern for TFL48 is as follows:

1. List all terrestrial vertebrates, vascular plants and freshwater fish in TFL 48 (complete);
2. Extract species of conservation concern based on stewardship responsibility, trend, threat and vulnerability (Squires 2005) (draft completed, not yet reviewed or finalized);
3. Determine which species are forest-dwelling based on previous list (complete);
4. Determine which species are sensitive to forest practices based on the previous list; and (complete)
5. Determine if the habitat needs of the species that are sensitive to forest practices are adequately addressed by coarse (i.e., ecosystem representation) and/or medium (i.e., retention of habitat elements) filters. If not, fine scale management strategies will be developed.

Step 5 was completed during 2008 by the completion of the Guidelines for Species Using Localized Habitats for TFL48.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.12 CONIFEROUS SEEDS

Indicator Statement	Target Statement
The proportion of seeds for coniferous species collected and seedlings planted in accordance with the regulation	All coniferous seeds will be collected and seedlings will be planted in accordance with the regulations
SFM Objectives: Conserve genetic diversity of tree stock.	

STATUS AND COMMENTS:

All (100%) seedlots grown and planted within the DFA are registered in accordance with the Forest Planning and Practices Regulation and the Chief Forester's Standards for Seed Use effective April 1, 2005.

All seeds have been registered with and tracked by Tree Improvement Branch of the Ministry of Forests and Range.

In 2008 there were a total of 1,741,575 trees planted on TFL 48 of which BCTS and Canfor planted 2,508 and 1,739,067 respectively. In 2008 all coniferous seeds were collected and seedlings were planted in accordance with the Chief Forester's Standard for Seed Use effective April 1, 2005.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.13 DECIDUOUS SEEDS AND VEGETATIVE MATERIAL

Indicator Statement	Target Statement
The proportion of seed or vegetative material for deciduous species collected and planted in accordance with the regulation	All deciduous species will be collected and planted in accordance with the regulations
SFM Objectives: We will conserve genetic diversity of tree stock.	

STATUS AND COMMENTS:

Canfor has not planted any deciduous seedlings or vegetative propagates on TFL 48. Any (100%) seedlots grown or planted within TFL 48 will be registered in accordance with the Forest Planning and Practices Regulation and the Chief Forester's Standards for Seed Use effective April 1, 2005.

All seeds will be registered with and tracked by Tree Improvement Branch of the Ministry of Forests and Range.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.14 CLASS A PARKS, ECOLOGICAL RESERVES AND LRMP DESIGNATED PROTECTED AREAS

Indicator Statement	Target Statement
Hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves and LRMP designated protected areas	Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves or LRMP designated protected areas
SFM Objective: We will implement management strategies appropriate to the long-term maintenance of protected areas and sites of special biological significance.	

STATUS AND COMMENTS:

In 2008 there was no harvesting or road construction within Class A parks, protected areas, ecological reserves or LRMP designated protected areas.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.15 WILDLIFE HABITAT AREAS, UNGULATE WINTER RANGES AND DUNLEVY CREEK MANAGEMENT PLAN

Indicator Statement	Target Statement
Proportion of activities consistent with objectives of Wildlife Habitat Areas (WHA), Ungulate Winter Ranges (UWR), and Dunlevy Creek Management Plan	All forest management activities will be consistent with objectives of Wildlife Habitat Areas (WHA), Ungulate Winter Ranges (UWR), and Dunlevy Creek Management Plan
SFM Objective: We will implement management strategies appropriate to the long-term maintenance of protected areas and sites of special biological significance.	

STATUS AND COMMENTS:

In 2008 there were no activities within UWR's, WHA's, or the Dunlevy Creek Management Plan area. This was consistent with the objectives.

In conjunction with the Ministry of Environment (MoE) Canfor worked to develop Ungulate Winter Ranges for Caribou and Mountain Goat within TFL 48. These areas were declared under the Forest and Range Practices Act and Government Actions Regulation on October 22, 2006 (those UWR's labeled u-9-002 on Figure 9) and on March 20, 2008 (those UWR's labeled u-9-004 on Figure 9). Canfor is continuing to work with the MoE on WHA's throughout the TFL as well as formalizing the UWR's and WHA's located in the Dunlevy area of TFL 48.

The following Table 11 shows those blocks that are within the UWR's or WHA's. These blocks will be assessed to ensure they are consistent with the objectives for the applicable UWR or WHA prior to harvesting.

Table 11: Proposed Blocks within UWR/WHA's

LICENSE	BLOCK_ID	Harvest Status	u-9-002	Unit #	u-9-004	Unit #	Dunlevy	Elk	ha
TFL48	T4041	Planned						yes	7.7
TFL48	T4113	Planned	u-9-002	SPC-007					0.1
BCTS-TFL	A58765-007	Planned	u-9-002	SPC-034					11.8
BCTS-TFL	A58765-010	Planned	u-9-002	SPC-034					0.5
TFL48	T5003	Planned	u-9-002	SPC-046					1.4
TFL48	T1001	FRPA 196.2			u-9-004	GR-029			228.9
TFL48	T1002	FRPA 196.2			u-9-004	GR-029			101.2
TFL48	T1003	FRPA 196.2			u-9-004	GR-029			62.8
TFL48	T1004	FRPA 196.2			u-9-004	GR-029			30.4
TFL48	T1005	FRPA 196.2			u-9-004	GR-029			32.3

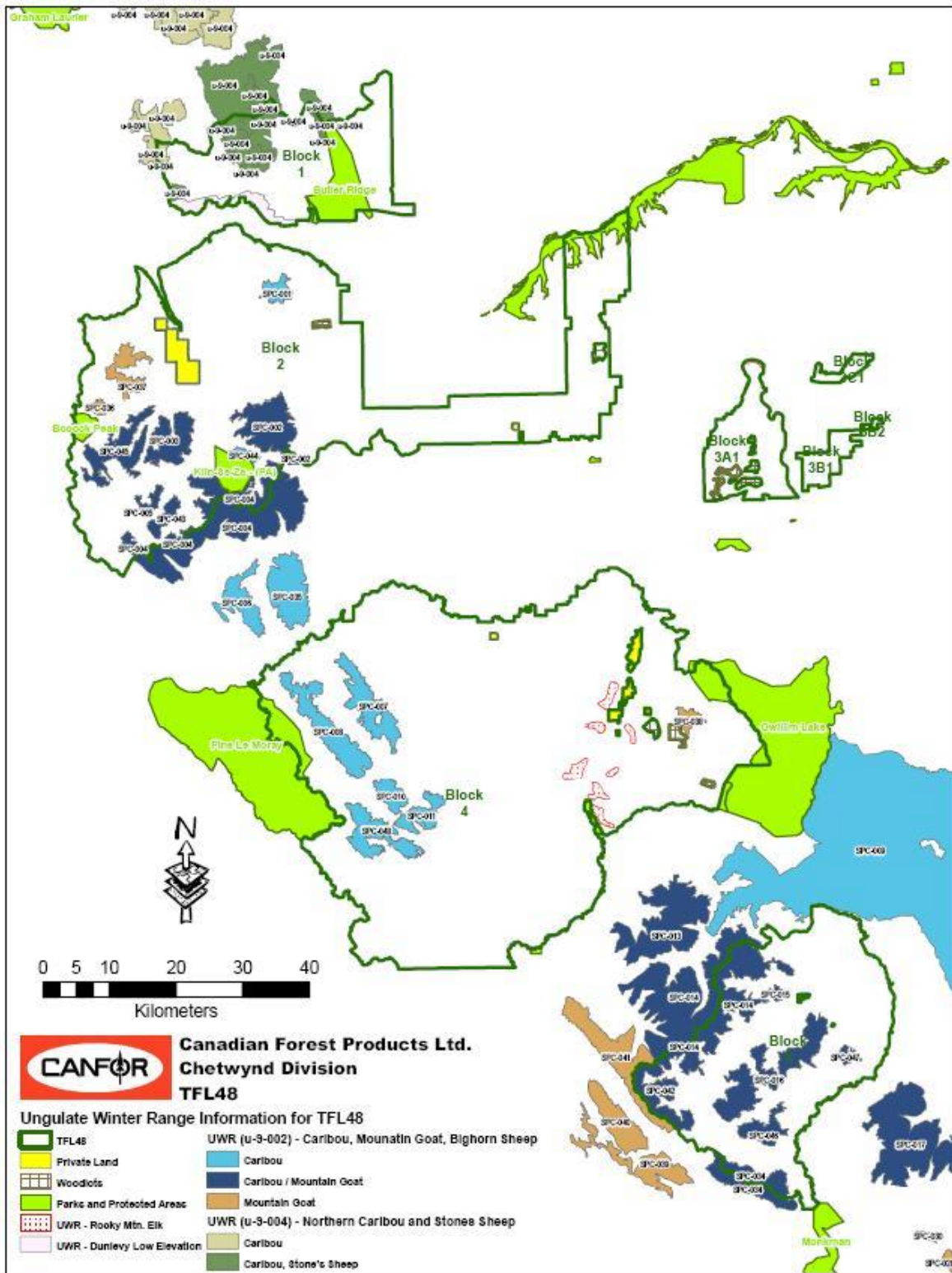


Figure 9: Ungulate Winter Ranges Declared as of 2008

REVISIONS:

No revisions are suggested for this indicator or objective.

2.16 FOREST HEALTH

Indicator Statement	Target Statement
% of significant detected forest health damaging events which have treatment plans prepared	100% of significant detected forest health damaging events will have treatment plans prepared within 1 year of initial detection
SFM Objective: We will sustain a natural range of variability in ecosystem function, composition and structure, which allows ecosystems to recover from disturbances and stress.	

STATUS AND COMMENTS:

In 2008 there was one significant forest health damaging event occurring on TFL and that is the ongoing Mountain Pine Beetle (MPB) infestation. The level of incidence of the MPB exploded to over an estimated 5 million m³ of attack in 2006.

Overview flights occurred in October 2008 over just Block 1 of TFL48. Following the flight it was there were an estimated 8,370-attacked trees in 1,983 sites. It is estimated that the ratio of aerially detected sites to on the ground actual attack is 1 to 10. This translates to approximately 6% of the pine volume in Block 1. This ratio was applied to Block 2 as well to determine the total attack ratios for 2008.

Table 12: Estimated MPB Incidence Changes

MPB Estimated Incidence	Low	Mid	High
SFMP4 Estimated Incidence	99.5%	0.5%	0%
2006 Estimated Incidence	40%	25%	35%

Table 13: Summary of Forest Health Issues 2000-2007

Factor	2008 Volume (m ³)	2008 Area (ha)	2000-2008 Volume (m ³)	2000-2008 Area (ha)	2008 Comments
Blow Down	0	0	10,665	38.8	Derived area from volume /275.
Mountain Pine Beetle	590,000	2,150	6,271,550	22,810	Derived volume based on .35 m ³ per tree. Derived area from volume /275.
Spruce Bark Beetle	0	0	1,800	6.5	Derived area from volume /275.
Fire	18,300	151	21,425	247.6	No salvage operations initiated. Volume estimated at 100% mortality and 300m ³ /ha
Balsam Bark Beetle	0	0	0	0	Very light incidence in mountain areas.
Spruce Budworm	0	0	0	0	Possible incidence in 2000 – may have been misclassified.
Forest Tent Caterpillar	0	0	0	0	Scattered levels in 2000.
Environmental	0	0	0	0	Incidental and scattered snow damage – not quantifiable.
Total	610,308	4,309	6,305,432	23,094.9	

REVISIONS:

No revisions are suggested for this indicator or objective.

2.17 PROPORTION OF COMPLETED FOREST HEALTH ACTION PLANS

Indicator Statement	Target Statement
Proportion of required actions completed as per forest health treatment plans	100% of required actions will be completed as per forest health treatment plans
SFM Objective: We will sustain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbances and stress.	

STATUS AND COMMENTS:

There were two forest health treatment plan created in 2008 and they were completed as required.

Because the timber burnt in Falling Creek was all red attacked Pine the quality of timber after the fire would not support salvage. No salvage was planned for this area.

The second plan was centered on MPB salvage. There was no funding available for any treatments on the TFL beyond salvage harvesting. This harvest plan was based upon the direction from the Deputy Chief Forester to target 70% of the harvest to pine stands. The Deputy Chief Foresters determination was effective May 25, 2007. Deliveries from TFL 48 through 2008 were 71% pine being delivered (see Sec 2.22).

REVISIONS:

No revisions are suggested for this indicator or objective.

2.18 REGENERATION DECLARATION

Indicator Statement	Target Statement
Area weighted average time delay from harvesting starting and initial restocking of harvest area by DFA	Average delay will be no more than 2 years
SFM Objectives: We will sustain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbances and stress	

STATUS AND COMMENTS:

At the end of 2008 the average age of NSR on TFL 48 was 1.00 years for all areas where harvesting started prior to January 1, 2009.

REVISIONS:

Recommend changing the Indicator Statement to Area weighted average age from harvest starting and initial restocking of harvest area by DFA. The intent of this is to align the statement to be consistent with the monitoring methodology.

2.19 FREE GROWING STANDS

Indicator Statement	Target Statement
Proportion of area harvested that has free growing stands re-established	100% of the area harvested will meet the free growing requirements identified in the silviculture prescriptions/site plans
SFM Objectives: We will sustain a natural range of variability in ecosystem function, composition and structure which allows ecosystems to recover from disturbances and stress	

STATUS AND COMMENTS:

All areas harvested have met free growing requirements as identified in the silviculture prescriptions/site plans. No areas are past the free growing timelines. See Figure 10 for status of areas harvested on TFL where there is a free growing requirement.

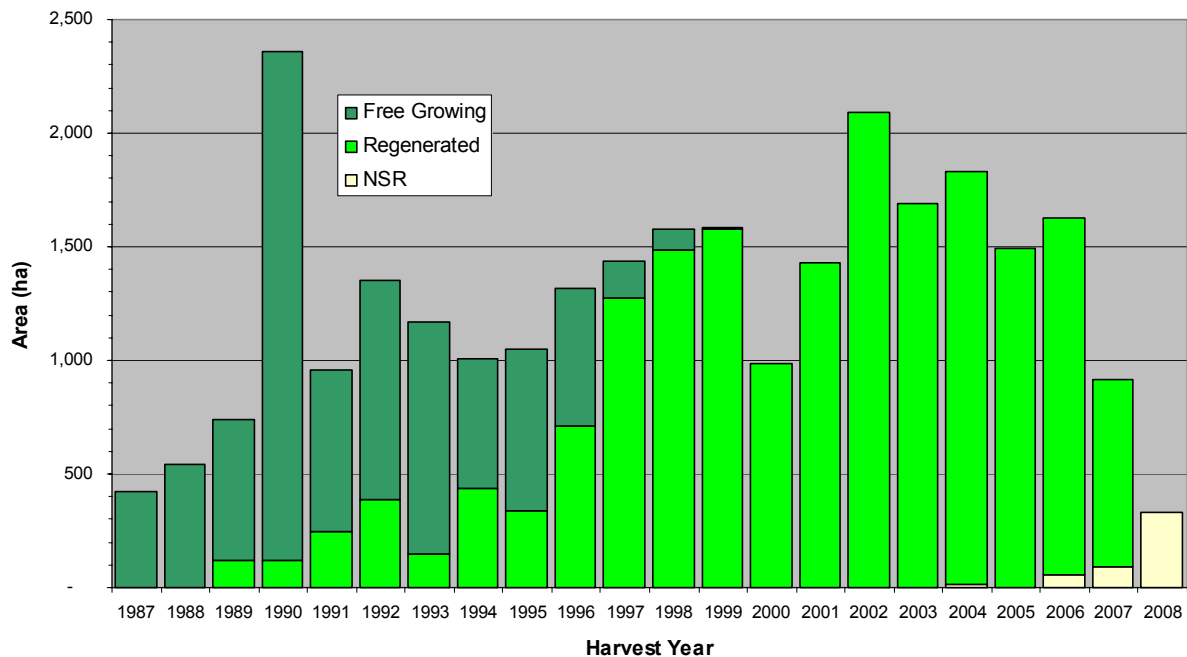


Figure 10: Regeneration/Free Growing Status by Year of Harvest Start

REVISIONS:

No revisions are suggested for this indicator or objective.

2.20 PERMANENT ACCESS CORRIDORS

Indicator Statement	Target Statement
Percent of area of the DFA occupied by permanent access corridors associated with forest management activities	We will limit impacts on the land base due to the presence of permanent access corridors to less than 2.4% of the gross land base of the DFA
SFM Objective: We will sustain the natural range of ecosystem productivity to support naturally occurring species. We will protect soil resources to sustain productive forests. We will sustain forests within the DFA.	

STATUS AND COMMENTS:

The following table reports the status as of SFMP 4. The next reporting of this indicator will be in done in conjunction with SFMP 5 in 2010.

Table 14: Permanent Access Corridors in TFL 48 (Existing)

Road Type (RoW width in metres)	Total Area (ha)	% of Gross TFL Area (653,576 ha)
Undistinguished Road type but delineated in VRI	4,709	0.72%
1 - ML (25m)	96	0.01%
2 - ML Sec (20m)	329	0.05%
3 - Operational (15m)	760	0.12%
4 - Block Perm (8m)	1,676	0.26%
Gravel Sec (30m)	52	0.01%
Grand Total	7,623	1.17%

Source VRI 2004

REVISIONS:

No revisions are suggested for this indicator or objective.

2.21 SITE INDEX

Indicator Statement	Target Statement
Area weighted average Site Index by ecological site series by leading species	The area weighted average Site Index by leading species by site series at free growing will not be less than the SIBEC predicted site index
SFM Objective: We will sustain the natural range of ecosystem productivity to support naturally occurring species. We will protect soil resources to sustain productive forests.	

STATUS AND COMMENTS:

The following Table 15 shows the current status for stands declared free growing on TFL 48 and site productivity assessed using the growth intercept methodology. The area declared free growing is 8,937 ha that have had surveys completed which have collected growth intercept data during free growing surveys.

The SBSwk2 01 and SBSwk2 06 Lodgepole Pine units are currently below the predicted site index by slightly more than the 10% variance. Overall the SBS however is within the variance. This unit will continue to be monitored to determine if a trend exists.

Table 15: Site Index by Leading Species for Free Growing Stands

BEC		Site Series		Species								
				SubalpineFir			WhiteSpruce			LodgepolePine		
				ha	SI	Predicted SI	ha	SI	Predicted SI	ha	SI	Predicted SI
BWBSmw1	01	-	-	N/A	657.0	25.5	17.7	334.0	19.3	18.0		
	02	-	-	N/A	103.3	20.0	9.0	16.2	20.7	12.0		
	03	-	-	N/A	264.8	22.1	17.0	104.3	20.1	18.0		
	04	-	-	N/A	55.8	22.2	12.0	32.0	17.7	15.0		
	05	-	-	N/A	60.3	26.6	18.0	5.0	19.9	18.0		
	06	-	-	N/A	25.0	20.6	18.1	0.0	22.0	18.0		
	07	-	-	N/A	-	-	18.0	0.1	21.8	18.0		
BWBSmw1Total		-	-	N/A	1,166.1	24.1	16.5	491.7	19.4	17.6		
BWBSwk1	01	-	-	N/A	124.7	21.3	12.0	382.9	17.4	15.0		
	02	-	-	N/A	10.0	16.4	9.0	21.1	20.0	12.0		
	03	-	-	N/A	17.7	23.4	9.0	31.6	17.0	12.0		
	04	-	-	N/A	3.6	21.7	12.0	0.3	16.0	15.0		
	05	-	-	N/A	0.1	21.0	15.0	0.5	17.0	15.0		
	06	-	-	N/A	-	-	15.0	-	-	15.0		
BWBSwk1Total		-	-	N/A	156.1	21.3	11.5	436.4	17.5	14.6		
BWBSwk2	01	-	-	N/A	76.8	18.9	12.0	4.3	19.0	15.0		
	02	-	-	N/A	1.9	18.0	9.0	-	-	12.0		
	03	-	-	N/A	1.3	18.0	12.0	-	-	15.0		
	04	-	-	N/A	2.5	18.0	9.0	-	-	12.0		
	05	-	-	N/A	2.6	18.0	15.0	-	-	15.0		
BWBSwk2Total		-	-	N/A	85.1	18.8	11.9	4.3	19.0	15.0		
ESSFmv2	01	188.9	19.6	12.0	774.3	20.3	15.0	557.2	18.3	15.0		
	02	-	-	9.0	44.5	21.2	9.0	37.9	19.9	12.0		
	03	15.3	16.3	6.0	17.8	22.6	6.0	20.9	20.5	9.0		
	04	114.1	23.8	15.0	121.0	22.8	15.0	99.0	18.2	18.0		
	05	0.3	24.9	15.0	0.9	19.9	15.0	0.5	21.5	15.0		
	06	-	-	15.0	0.8	20.5	15.0	-	-	15.0		
ESSFmv2Total		318.5	21.0	12.8	959.4	20.7	14.6	715.4	18.4	15.1		
ESSFmv4	01	-	-	12.0	45.8	18.0	15.0	-	-	15.0		
	02	-	-	9.0	0.2	18.0	9.0	-	-	12.0		
	03	-	-	6.0	0.0	18.0	6.0	-	-	9.0		
	04	-	-	15.0	0.5	18.0	15.0	-	-	18.0		
ESSFmv4Total		-	-	10.5	46.5	18.0	15.0	-	-	13.5		
ESSFwc3	01	0.6	23.1	15.0	-	-	15.0	-	-	-		
	02	-	-	9.0	-	-	9.0	-	-	-		
	03	1.6	25.0	15.0	-	-	15.0	-	-	-		
ESSFwc3Total		2.1	24.5	15.0	-	-	13.0	-	-	-		
ESSFwk2	01	159.5	22.3	15.0	119.7	21.5	15.0	84.3	18.7	N/A		
	02	309.4	19.6	9.0	2.7	20.7	9.0	38.1	18.0	N/A		
	03	76.0	24.1	12.0	70.9	21.7	12.0	46.5	18.7	15.0		
	04	141.2	24.4	15.0	37.8	20.2	15.0	32.5	17.7	N/A		
	05	75.3	24.8	15.0	40.7	28.8	15.0	1.9	19.8	N/A		
	06	2.4	24.9	12.0	0.3	23.0	12.0	0.8	18.0	N/A		
ESSFwk2Total		763.7	22.0	12.3	272.0	22.4	14.2	204.1	18.4	15.0		
SBSwk2	01	62.8	20.2	15.0	902.8	23.1	21.8	789.7	18.8	21.0		
	02	16.0	21.6	12.0	55.0	21.7	15.0	17.6	21.0	15.0		
	03	11.4	20.0	12.0	208.2	23.0	18.0	303.6	20.9	18.0		
	04	2.4	20.3	N/A	277.4	21.7	15.0	105.5	18.6	18.0		
	05	23.9	23.4	18.0	287.6	21.8	21.0	151.8	19.7	21.0		
	06	1.5	24.7	18.0	49.7	24.0	24.0	7.3	17.6	21.0		
	07	0.8	24.2	N/A	26.2	22.1	N/A	14.3	18.4	N/A		
SBSwk2Total		118.8	21.1	14.5	1,807.0	22.6	19.7	1,389.8	19.4	19.8		
GrandTotal		1,203.2	21.6	12.6	4,492.2	22.4	17.0	3,241.7	18.9	17.4		

REVISIONS:

No revisions are suggested for this indicator or objective.

2.22 AAC

Indicator Statement	Target Statement
Allowable Annual Cut	We will ensure that the Allowable Annual Cut will not adversely impact Long Term Harvest Level
SFM Objective: We will sustain the natural range of ecosystem productivity to support naturally occurring species. We will balance annual growth rate and harvest rate.	

STATUS AND COMMENTS:

The latest TSR Analysis Report was completed and submitted in August 2006, and the AAC Rationale was effective May 25th, 2007. See Table 16 for a history of the AAC's for TFL 48. The Deputy Chief Forester chose to increase the AAC slightly beyond what Canfor had requested to enable additional Mountain Pine Beetle salvage. This level does not jeopardize the Long Term Harvest Level.

Table 16: Annual Allowable Cut and Long-Term Harvest Level

Partition	MP 1	MP 2	SFMP 3	SFMP 4
	AAC	AAC	AAC	AAC
Coniferous	410,000	460,000	525,000	800,000
Deciduous	0	54,000	55,000	100,000
Total	410,000	514,000	580,000	900,000

As part of the implementation of the AAC in 2008 based on the cutting permit cruise data and volume delivered 71% of the volume was Lodgepole pine.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.23 SOIL DEGRADATION

Indicator Statement	Target Statement
Soil degradation	We will not exceed site degradation guidelines as defined in site plans
SFM Objective: We will protect soil resources to sustain productive forests.	

STATUS AND COMMENTS:

All blocks with harvest completed in 2008 (n=14) have been within the site degradation guidelines defined in site plans.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.24 SOIL DISTURBANCE SURVEYS

Indicator Statement	Target Statement
Soil disturbance surveys	We will not exceed soil disturbance limits within cutblocks as defined in site plans
SFM Objective: We will protect soil resources to sustain productive forests.	

STATUS AND COMMENTS:

All blocks with harvest completed in 2008 (n=14) have been within the soil disturbance guidelines defined in site plans.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.25 USE OF ENVIRONMENTALLY FRIENDLY LUBRICANTS

Indicator Statement	Target Statement
Use of environmentally friendly lubricants	We will research and identify environmentally friendly lubricants bi-annually
SFM Objective: We will protect soil resources to sustain productive forests.	

STATUS AND COMMENTS:

Synthetic and vegetable-based hydraulic fluids are available, however they are currently regarded as inferior to hydrocarbon based fluids on the basis of cost and performance. Therefore no operational use of these lubricants has occurred.

REVISIONS:

As the scale of operations is very small and our likelihood of significantly impacting this indicator during the indefinite closure of the Chetwynd mill we recommend that the reporting of this indicator be suspended until full operations resume.

2.26 SPILLS ENTERING WATERBODIES

Indicator Statement	Target Statement
Number of reportable spills or misapplications entering water bodies	Zero reportable spills or misapplications entering water bodies
SFM Objective: Maintenance of water quality	

STATUS AND COMMENTS:

There were no spills or misapplications of any chemical or petroleum products in 2008.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.27 STREAM CROSSING QUALITY INDEX

Indicator Statement	Target Statement
Maximum Stream Crossing Quality Index (SCQI) by watershed	The maximum SCQI score is 0.40 by watershed
SFM Objective: We will maintain water quality and quantity.	

STATUS AND COMMENTS:

In the 2008 field season 63 crossings were surveyed in the Lower Wolverine watershed, 133 crossings in the Upper Pine Residual watershed, and an additional 37 crossings in the Johnson watershed for a total of 233 crossings. Sampling of the Lower Wolverine and Upper Pine Residual watersheds is complete and based on the SCQI cumulative effects hazard rating there is a low potential that surface erosion originating from stream crossings will lead to cumulative watershed effects. Statistics for the Johnson watershed will be completed the remaining crossings will be surveyed in 2009.

The cumulative results to date are summarized by watershed in Table 17. All watersheds are below the maximum target level.

**Table 17: SCQI and Water Quality Concerns for Watersheds within TFL 48
– Sampling Completed 2001 to 2008**

Watershed Name	n	Erosion Indices			Water Quality Concern Ratings				
		Stream Crossing Density Index	Sum of Stream Crossing Quality Scores	Stream Crossing Quality Index	Stream Width Class ¹	None % (#streams/#streams sampled)	Low % (#streams/#streams sampled)	Medium % (#streams/#streams sampled)	High % (#streams/#streams sampled)
Gaylard	47	0.30	14.9	0.10	1	0.0	0.0	0.0	0.0
					2	33.3	66.7	0.0	0.0
					3	40.0	20.0	26.7	13.3
					4	46.7	13.3	26.7	13.3
					5	36.4	18.2	9.0	36.4
Lower Peace	61	0.44	18.7	0.14	1	0.0	0.0	0.0	0.0
					2	33.3	33.3	33.3	0.0
					3	12.5	75.0	12.5	0.0
					4	31.3	50.0	0.0	18.7
					5	23.5	41.2	11.8	23.5
Gething	70	0.38	28.3	0.15	1	60.0	40.0	0.0	0.0
					2	0.0	0.0	66.7	33.3
					3	36.4	27.2	36.4	0.0
					4	24.0	40.0	4.0	32.0
					5	19.2	23.1	19.2	38.5
Wolverine	51	0.28	16.2	0.09	1	0.0	0.0	0.0	0.0
					2	25.0	75.0	0.0	0.0
					3	60.0	0.0	0.0	40.0
					4	46.7	33.3	13.3	6.7
					5	18.5	44.5	33.3	3.7
Middle Wolverine	22	0.13	3.96	0.02	1	0.0	0.0	0.0	0.0
					2	66.7	0.0	0.0	33.3
					3	72.7	9.1	0.0	18.2
					4	50.0	50.0	0.0	0.0
					5	75.0	25.0	0.0	0.0

Watershed Name	n	Erosion Indices			Water Quality Concern Ratings				
		Stream Crossing Density Index	Sum of Stream Crossing Quality Scores	Stream Crossing Quality Index	Stream Width Class ¹	None % (#streams/#streams sampled)	Low % (#streams/#streams sampled)	Medium % (#streams/#streams sampled)	High % (#streams/#streams sampled)
Hasler	119	0.63	71.23	0.37	1	0	0	0	0
					2	0	66.7	33.3	0
					3	5.9	17.7	29.4	47.1
					4	3.3	26.7	26.7	43.3
					5	0	29.7	35.1	35.1
Brazion	105	0.32	34.48	0.11	1	0	0	0	0
					2	20.0	40.0	0	40.0
					3	5.6	44.4	22.2	27.8
					4	27.2	47.3	16.4	9.1
					5	22.2	55.6	14.8	7.4
Highhat	108	0.68	30.27	0.19	1	0	0	0	0
					2	0	0	100.0	0
					3	20.0	50.0	10.0	20.0
					4	21.3	42.6	23.0	13.1
					5	36.1	44.4	16.7	2.8
Lower Carbon	61	0.46	23.32	0.17	1	0	100.0	0	0
					2	100.0	0	0	0
					3	16.7	25.0	33.3	25.0
					4	13.8	44.8	37.9	3.5
					5	11.1	33.3	38.9	16.7
Seven Mile	28	0.36	15.1	0.19	1	0	0	0	0
					2	100.0	0	0	0
					3	0	100.0	0	0
					4	0	27.8	38.9	33.3
					5	0	80.0	20.0	0
Eleven Mile	37	0.17	5.31	0.02	1	0	0	0	0
					2	33.3	66.7	0	0
					3	42.9	57.1	0	0
					4	35.0	55.0	10.0	0
					5	14.3	57.1	28.6	0
East and West Carbon	39	N/A ²	N/A ²	N/A ²	1	0	0	0	0
					2	0	0	0	0
					3	0	50.0	37.5	12.5
					4	0	32.0	48.0	20.0
					5	0	66.7	33.3	0
Lower Sukunka	191	0.36	70.63	0.13	1	0.0	0.0	0.0	0.0
					2	0.0	66.7	0.0	33.3
					3	10.0	30.0	15.0	45.0
					4	20.2	41.5	10.6	27.7
					5	28.8	37.0	23.3	10.9
Upper Sukunka	90	N/A ²	N/A ²	N/A ²	1	100	0.0	0.0	0.0
					2	0.0	100.0	0.0	0.0
					3	30.0	20.0	20.0	30.0
					4	18.8	43.7	18.8	18.7
					5	31.0	34.5	31.0	3.4
Lower Pine	44	0.27	17.44	0.11	1	0.0	0.0	0.0	0.0
					2	0.0	0.0	0.0	0.0
					3	0.0	50.0	50.0	0.0
					4	16.7	46.7	13.3	23.4
					5	41.7	25.0	25.0	8.3
Burnt River	205	0.33	72.66	0.12	1	100	0.0	0.0	0.0
					2	25	37.5	25	12.5
					3	37.9	27.6	20.7	13.8
					4	37.3	22.9	19.3	20.4
					5	29.3	26.8	20.7	33.2

Watershed Name	n	Erosion Indices			Water Quality Concern Ratings				
		Stream Crossing Density Index	Sum of Stream Crossing Quality Scores	Stream Crossing Quality Index	Stream Width Class ¹	None % (#streams/#streams sampled)	Low % (#streams/#streams sampled)	Medium % (#streams/#streams sampled)	High % (#streams/#streams sampled)
Lower Murray	55	0.32	17.79	0.10	1	100.0	0.0	0.0	0.0
					2	50.0	50.0	0.0	0.0
					3	31.3	37.5	25.0	6.3
					4	10.7	71.4	3.6	14.3
					5	16.7	66.7	16.7	0.0
Upper Murray	154	0.86	32.18	0.18	1	100.0	0.0	0.0	0.0
					2	100.0	0.0	0.0	0.0
					3	54.5	27.3	13.6	4.5
					4	16.9	61.0	5.1	16.9
					5	52.4	11.1	25.4	11.1
Lower Wolverine	63	0.27	19.30	0.08	1	100.0	0.0	0.0	0.0
					2	75.0	25.0	0.0	0.0
					3	36.4	63.6	0.0	0.0
					4	31.0	40.5	4.8	23.8
					5	40.0	40.0	0.0	20.0
Upper Pine Residual	133	0.33	36.75	0.09	1	100.0	0.0	0.0	0.0
					2	55.6	33.3	11.1	0.0
					3	14.8	59.3	18.5	7.4
					4	29.5	51.1	10.2	9.1
					5	37.5	25.0	37.5	0.0

1. 1 = greater than 20m, 2 = 5 to 20m, 3 = 1.5 to 5m, 4 = 0.5 to 1.5m, 5 = less than 0.5m
 2. Erosion indices cannot be calculated because these areas are not true watersheds.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.28 ACTION PLANS FOR HIGH WATER QUALITY CONCERN RATING (WQCR)

Indicator Statement	Target Statement
Number of crossings with a High Water Quality Concern (WQCR) with actions plans prepared within one year of discovery	100% of High WQCR crossings will have action plans prepared within one year of discovery
SFM Objective: We will maintain water quality and quantity.	

STATUS AND COMMENTS:

All action plans for surveys completed in 2007 have been completed. This season action plans for areas surveyed in 2008 will be completed.

REVISIONS:

No revisions are suggested for this indicator or objective

2.29 PEAK FLOW INDEX

Indicator Statement	Target Statement
The percentage of watersheds within TFL 48 achieving baseline thresholds for Peak Flow Index	A minimum of 95% of the watersheds within TFL 48 will be below the baseline threshold
SFM Objective: We will maintain water quality and quantity.	

STATUS AND COMMENTS:

A new projection of Peak Flow Index (PFI) has been completed for 2008. Currently 34 of 34 watersheds (100%) are meeting the PFI target. The projections completed in 2008 do not forecast as much harvesting as previous projections due to the change in how Forest Stewardship Plan (FSP) proposed harvest area blocks are displayed. These areas are generally significantly larger to facilitate consultation over a broader area and as such would over represent the actual disturbance. Forecasting is now done for all areas which have been harvested or those areas which have had the actual fieldwork layout completed.

The information presented in this annual report forecasts disturbances and growth to 2011.

Table 18: Peak Flow Index Post Development Status

Watershed	H60 ELEV	Watershed ha	Below H60		Above H60		H60 Weighted ECA (ha)	Post Development PFI (%)	Max PFI
			ha	ECA	ha	ECA			
Adams Creek	1,107	5,458	2,102	11.5	3,355	35.7	65.1	1.2%	43
Aylard Creek	1,036	5,456	2,100	86.6	3,356	340.4	597.2	10.9%	37
Basin "862"	853	4,884	1,725	50.7	3,159	248.1	422.9	8.7%	43
Beany Creek	958	3,899	1,537	43.9	2,362	40.7	105.1	2.7%	37
Brazion Creek	1,220	32,375	11,850	1,920.6	20,526	2,389.4	5,504.7	17.0%	37
Burnt Creek	1,185	62,161	23,413	3,760.1	38,748	4,533.1	10,559.7	17.0%	37
Cameron Creek	783	3,613	1,273	11.8	2,340	46.6	81.6	2.3%	50
Dunlevy Creek	1,047	17,007	6,549	328.3	10,459	622.7	1,262.4	7.4%	31
Eleven Mile	1,326	21,603	8,318	668.5	13,285	1,509.3	2,932.3	13.6%	43
Gaylard	1,029	15,638	5,780	942.6	9,858	1,183.6	2,718.0	17.4%	31
Gething	996	18,505	6,550	924.9	11,956	1,503.8	3,180.7	17.2%	31
Gwillim	1,066	4,488	1,586	73.5	2,902	222.4	407.1	9.1%	43
Hasler Creek	1,077	19,010	6,858	727.8	12,152	1,532.5	3,026.5	15.9%	37
Hihat Creek	1,037	15,647	5,382	795.4	10,265	1,308.1	2,757.6	17.6%	43
Johnson	891	21,153	7,965	678.8	13,188	2,806.7	4,888.9	23.1%	37
Lebleu Creek	874	1,999	719	18.8	1,280	36.8	73.9	3.7%	50
LeMoray Creek	1,291	11,190	4,013	684.2	7,177	1,340.2	2,694.5	24.1%	37
Lower Carbon	1,057	13,167	4,992	703.9	8,176	592.4	1,592.5	12.1%	50
Lower Murray	1,066	17,398	6,308	447.8	11,091	495.0	1,190.2	6.8%	37
Lower Peace Reach	955	14,347	5,579	1,085.9	8,768	1,355.9	3,119.7	21.7%	50
Lower Pine Residual	923	16,228	5,713	487.4	10,515	1,501.6	2,739.8	16.9%	43
Lower Sukunka	904	54,089	18,791	1,522.1	35,298	2,729.9	5,617.0	10.4%	43
Lower Wolverine	1,161	23,241	8,678	1,068.5	14,563	1,741.3	3,680.5	15.8%	37
Medicine Woman Creek	975	1,876	718	0.0	1,158	1.5	2.2	0.1%	35
Middle Wolverine	1,205	17,585	6,549	620.4	11,036	2,548.9	4,443.8	25.3%	43
North Peace Residual	929	9,462	3,813	286.7	5,649	122.2	469.9	5.0%	50
Ruddy Creek	922	6,445	2,495	71.4	3,949	142.5	285.2	4.4%	31
Seven Mile	1,257	7,878	2,990	277.9	4,889	458.8	966.1	12.3%	43
Trapper Creek	1,179	7,571	2,616	3.8	4,955	156.5	238.6	3.2%	37

Watershed	H60 ELEV	Watershed ha	Below H60		Above H60		H60 Weighted ECA (ha)	Post Development PFI (%)	Max PFI
			ha	ECA	ha	ECA			
Upper Carbon	1,291	46,258	17,582	2,394.5	28,676	2,300.1	5,844.6	12.6%	37
Upper Murray	1,294	17,858	6,474	1,713.0	11,384	1,444.7	3,880.1	21.7%	37
Upper Pine Residual	1,082	40,084	14,265	1,079.7	25,819	4,685.0	8,107.3	20.2%	37
Upper Sukunka	1,075	23,444	8,602	778.6	14,842	1,992.5	3,767.3	16.1%	43
Upper Wolverine	1,378	18,032	6,325	941.2	11,707	1,442.3	3,104.6	17.2%	37

REVISIONS:

No revisions are suggested for this indicator or objective.

2.30 WATERSHED REVIEWS

Indicator Statement	Target Statement
The percentage of watersheds reviews completed where the baseline threshold is exceeded	100% of watersheds that exceed the baseline threshold will have a watershed review completed when new harvesting is planned
SFM Objective: We will maintain water quality and quantity.	

STATUS AND COMMENTS:

Currently there are no watershed reviews required.

There are no watersheds where the PFI is currently exceeded or proposed to be exceeded, (see Table 18). Each year this will be reassessed based upon growth and new areas proposed to be harvested. If it is forecasted that the PFI may be exceeded then a watershed review will be conducted.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.31 CARBON SEQUESTRATION

Indicator Statement	Target Statement
DFA Average Carbon (C) sequestration rate (Mg C/year)	Maintain DFA average carbon sequestration rates that are no more than 15% less than those achieved using the minimum natural range of variation
SFM Objective: We will maintain the processes for carbon uptake and storage within the natural range of variation.	

STATUS AND COMMENTS:

There has been no change in the status of this indicator since reported in SFMP 4. The next reporting of this indicator will be in 2010 or in conjunction with a change in the proposed harvest levels.

Following are two graphs, which provides an example of the average C sequestration rate for both an individual stand (Forecast AU 3 – Natural and Forecast AU 34 – Managed) and shows the average C sequestration rate over the whole DFA over time.

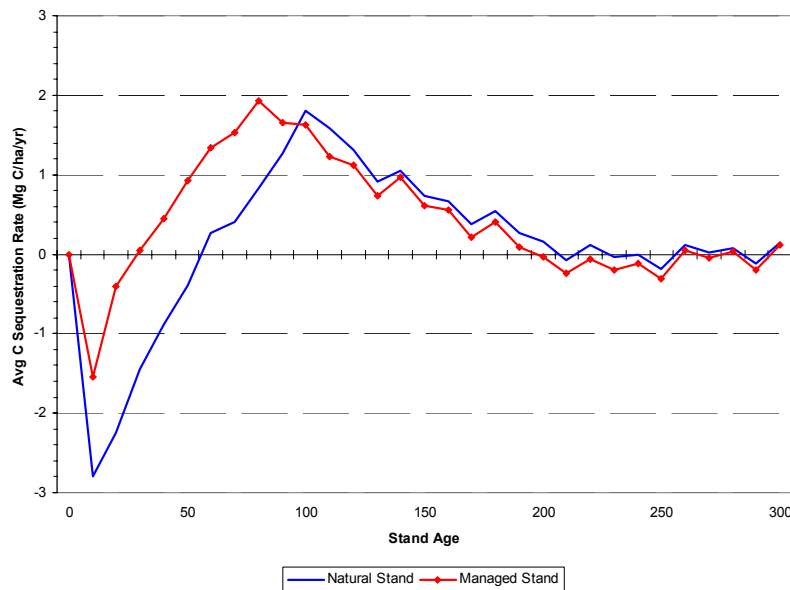


Figure 11: An Example of Average C Sequestration Rates for a Natural Spruce Leading BWBS Mesic Site Stand (Forecast AU 5) and an Associated Managed Stand (Forecast AU m³)

At the stand level there is a greater release of C to the atmosphere following the decomposition of the larger pool of dead organic matter (snags and CWD) in the natural stand which results in a lower sequestration rate during the first several decades of stand development (Figure 11). In the example provided, the average sequestration rate takes longer to return to positive values in the natural stand versus the managed stand. This is partly related to the fact that the harvested wood removed from the site during harvesting does not contribute to ecosystem C release to the atmosphere. Rather, it is assumed to be stored in wood products.

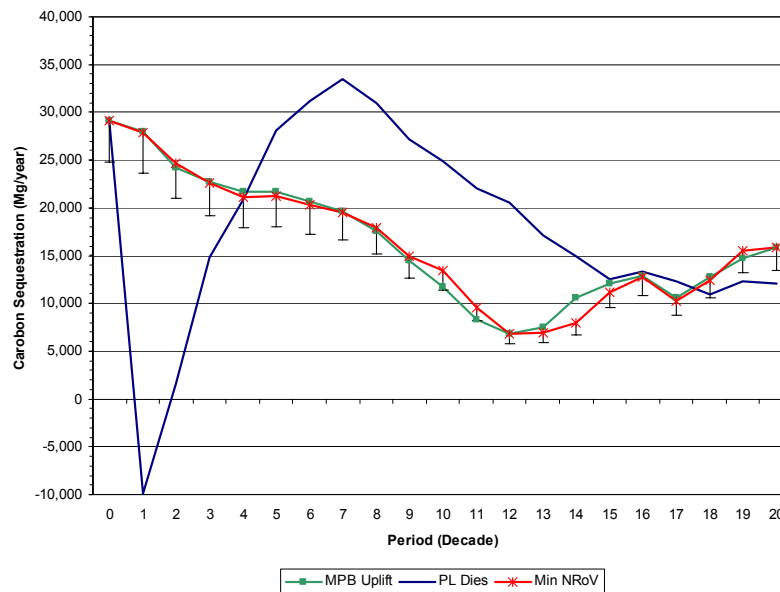


Figure 12: Carbon Sequestration (Mg C/year) within TFL 48 Over Time

At the DFA level the average sequestration rate declines from the present level of about 29,000 Mg C/yr over the next 120 years and stabilizes between 10,000 and 15,000 Mg C/yr in the long term. The decline from the current situation is due to the large amount of area (approximately 62%) that is between 40 and 140 years old and only 29% greater than 140 years old versus in 100 years the projection is that there will be only 31% of the land base between 40 and 140 years old and 58% greater than 140 years old. Over time the age class distribution is more evenly distributed with more area in younger stands and older stands with lower sequestration rates therefore the DFA level sequestration rate declines. For comparison purposes an estimate of the rate of C sequestration is provided for both the proposed AAC the sequestration rates using the minimum natural range of variation and the scenario where all pine is assumed to be killed in a mountain pine beetle outbreak.

There is no significant difference between the proposed harvest level and the minimum natural range of variation except for periods 10 and 11 in the simulation. After this point in time the sequestration rate is above or equivalent for the proposed harvest level.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.32 ECOSYSTEM CARBON STORAGE (MG) IN THE DFA

Indicator Statement	Target Statement
Ecosystem Carbon (C) Storage (Mg) in the DFA	Minimum of 95% of minimum natural range of variation disturbance levels of Ecosystem Carbon Storage
SFM Objective: We will maintain the processes for carbon uptake and storage within the natural range of variation.	

STATUS AND COMMENTS:

There has been no change in the status of this indicator since reported in SFMP 4. The next reporting of this indicator will be in 2010 or in conjunction with a change in the proposed harvest levels.

There is an estimated 122 million Mg of C currently stored in the TFL 48 ecosystem declining in the long term to approximately 76 million Mg of C (Figure 14). Both the C storage levels based on the proposed AAC and the minimum and maximum range of variation decline over the next 180 years and then stabilize for the remainder of the simulation. There is no significant difference between the different alternate strategies and the proposed strategy in ecosystem carbon storage over time.

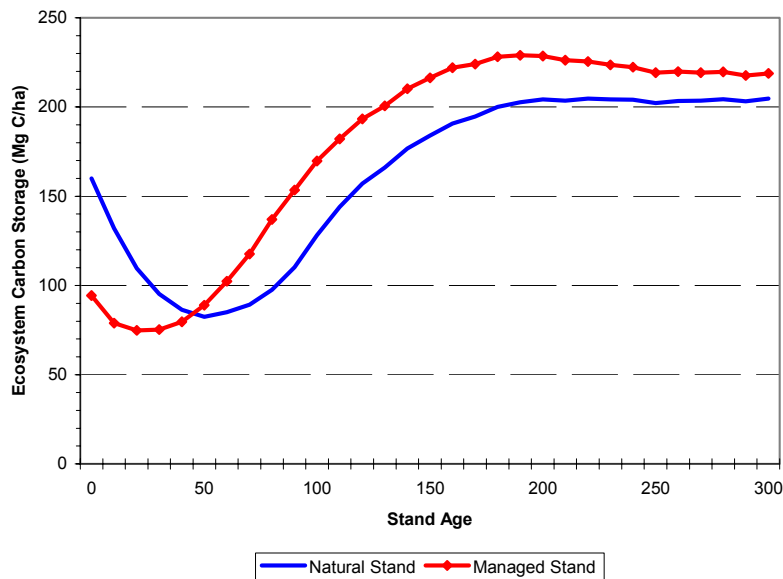


Figure 13: An Example of C Storage for a Natural Spruce Leading BWBS Mesic Site Stand (Forecast AU 5) and an Associated Managed Stand (Forecast AU m³)

For comparison a stand level graph (Figure 13) is provided which demonstrates a natural stand and its associated managed stand C storage levels over time. Note that while the natural stand started with more C remaining on the site after the disturbance the managed stand catches up in about 40 years.

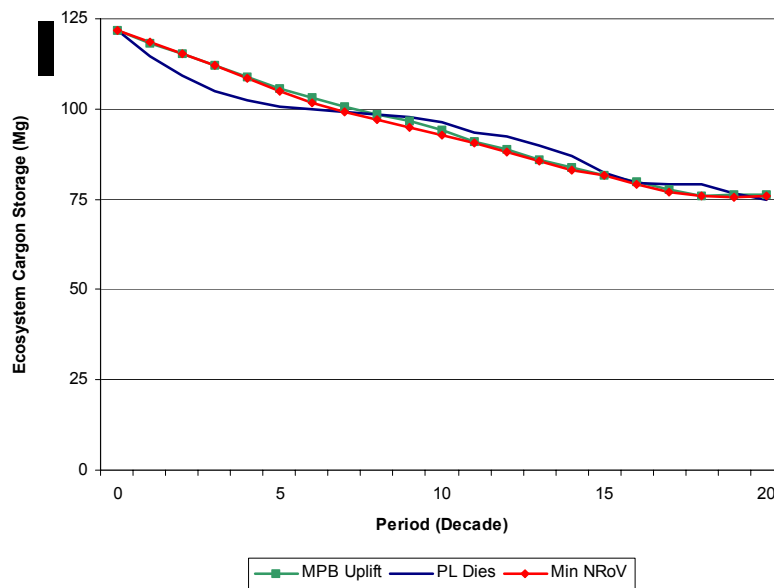


Figure 14: Total Ecosystem Carbon (Mg) Storage in the DFA Over Time

REVISIONS:

No revisions are suggested for this indicator or objective.

2.33 AREA OF FORESTED LAND

Indicator Statement	Target Statement
Area of forested land lost due to non-forest industry	We will track and monitor losses to other non-forest industry uses and incorporate these losses into AAC calculation every 5 years
SFM Objective: We will sustain forests within the DFA.	

STATUS AND COMMENTS:

There has been no change in the status of this indicator since reported in SFMP 4. The next reporting of this indicator will be in 2010 or in conjunction with a change in the proposed harvest levels.

During the term of MP 3 Canfor developed a spatial tracking system to identify what and where non-forest related activities were occurring within TFL 48. All activities proposed within TFL 48 are referred to Canfor and comments are provided which stress the objective of minimizing permanent removal of area from the forested land base. The following table (Table 19) shows reductions to the land base due to other uses.

Table 19: Reductions to Land Base Due to Other Uses (Excluding Roads²)

Feature	Total Area (ha)
Well sites ³	258
Mines ⁴⁵	1,723
Pipelines	388
Cutlines	1,793
Trails	485
Transmission Lines	201
Grand Total	4,848

REVISIONS:

No revisions are suggested for this indicator or objective.

2.34 RANGE OPPORTUNITIES

Indicator Statement	Target Statement
Annual minimum number of Animal Unit Months opportunity	We will maintain an annual minimum of 1,500 Animal Unit Months (excludes brush control by sheep grazing)
SFM Objective: We will provide opportunities for a feasible mix of timber, recreational activities, visual quality, and non-timber commercial activities.	

STATUS AND COMMENTS:

The following table indicates the amount of grazing AUM's provided on TFL 48 in 2008. Spatial data was obtained from the Land and Resource Data Warehouse AUM's under permit were obtained from the MoFR Peace Forest District staff.

Table 20: AUM's on TFL48 in 2008

Range Tenure	Total AUMs	TFL Proportion	TFL AUM's
RAN073263	104	1.2	1
RAN073616	366	26.5	97
RAN073876	1035	34.9	362
RAN074239	62	100	62
RAN074307	240	40.3	97
RAN075491	263	11.3	30
RAN075557	177	0.1	0
RAN075680	111	100	111
RAN075991	177	100	177
RAN076149	124	2.8	3
RAN076313	170	0	0
RAN076505	120	9.9	12
RAN076672	611	58.7	359

² Roads are captured in Indicator 2.20 Permanent Access Corridors and are not easily separated as to which are used only by other industries or which are used only by the forest industry.

³ Includes camps, decking areas, borrow pits and sumps

⁴ Includes mines where clearing had started prior to December 2004 (Quintette, Pine Valley Coal and Dillon Mine). Other proposed mines are included as a sensitivity analysis.

⁵ Includes roads within mine-cleared areas.

Range Tenure	Total AUMs	TFL Proportion	TFL AUM's
RAN077073	223	42.1	94
RAN077074	447	42.1	188
Total			1,593

REVISIONS:

As the scale of operations is very small and our likelihood of significantly impacting this indicator during the indefinite closure of the Chetwynd mill we recommend that the reporting of this indicator be suspended until full operations resume.

2.35 MAINTENANCE OF VISUAL LANDSCAPE INVENTORY

Indicator Statement	Target Statement
Maintenance of Visual Landscape Inventory	We will maintain and update an approved visual landscape inventory
SFM Objective: We will provide opportunities for a feasible mix of timber, recreational activities, visual quality, and non-timber commercial activities.	

STATUS AND COMMENTS:

Canfor completed an update to the VLI in 1999, and provided recommended Visual Quality Objectives in March 2002. In 2005 the Ministry of Forests and Range subsequently reviewed all VLI's completed in the previous Dawson Creek Forest District and consolidated all information including Canfor's 1999 inventory, into one seamless VLI. During this process it was discovered that there were some errors in Canfor's previous VLI in that it did not contain some known scenic areas. The consolidated VLI polygons were classified into two separate classes, those with existing visual quality objectives (EVQO) and those new polygons (added in the Canfor 1999 VLI) with recommended visual quality classes (RVQC). The EVQO polygons including those previously missing from Canfor's data have been used in the base case timber supply analysis being completed in support of the SFMP 4. The RVQC polygons will be added to the EVQO areas and the impacts modeled in a sensitivity analysis. Pending the sensitivity analysis the MoFR will make a decision on establishing these as VQO's through a Government Actions Regulation Order. The analysis was completed and submitted to the MoFR in the summer of 2006. It is expected that the MoFR will formally establish all areas in the VLI in the near future.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.36 PROPORTION OF HARVESTING CONSISTENT WITH VISUAL QUALITY OBJECTIVE

Indicator Statement	Target Statement
Proportion of harvesting within known visual areas that are consistent with the Visual Quality Objective (VQO)	100% of harvesting within visual areas will be consistent with the Visual Quality Objective (VQO)
SFM Objective: We will provide opportunities for a feasible mix of timber, recreational activities, visual quality, and non-timber commercial activities.	



STATUS AND COMMENTS:

In 2008 there were no blocks that were harvested within areas requiring visual quality objectives.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.37 BACK COUNTRY CONDITION

Indicator Statement	Target Statement
Proportion (%) of back country areas (ha) that are in a semi-primitive recreation opportunity spectrum (ROS) class	We will maintain or increase semi-primitive ROS in Klin se za, Bocoock, Butler Ridge, Pine/Lemoray, Peace River/Boudreau and Elephant Ridge/Gwillim Protected Areas and manage Special Management Zones (Klin se za, North Burnt, Dunlevy) as per LRMP (See Table 21 for baseline)
SFM Objective: We will provide opportunities for a feasible mix of timber, recreational activities, visual quality, and non-timber commercial activities.	

STATUS AND COMMENTS:

There has been no change to the status of this indicator since reported in the SFMP 4 in 2005. In 2008 there was no harvesting or road construction in or adjacent to any of the backcountry areas.

The baseline (2001) and current (2005) recreational opportunity spectrum for the stated Backcountry areas are shown on the following tables (Table 21 and

Table 22). Over the term of MP 3 there was harvesting and road building activity in both the Dunlevy and North Burnt back country areas. Primary road construction, harvesting, silviculture activities and deactivation have been completed. The change in condition has moved approximately 945 ha in the Dunlevy and 1,798 ha in the North Burnt areas from semi-primitive non-motorized to the semi primitive motorized classification. This change is acceptable within this indicator as the deactivation and removal of bridges in the Dunlevy and North Burnt, and de-construction of the road access to CP 722 in the northern portion of the North Burnt area have maintained motorized access barriers.

Table 21: Baseline Condition – ROS Inventory

Back Country Area	ROS Class Baseline Condition – (2001)							Grand Total
	Roaded			Roaded Total	Semi Primitive		Semi Primitive Total	
	Rural	Modified	Natural		Motorized	Non Motorized		
Bocock Peak						1,126	1,126	1,126
Butler Ridge			1,133	1,133	1,309	4,151	5,460	6,593
Dunlevy Creek			5,283	5,283	5,001	21,564	26,565	31,848
Elephant Ridge / Gwillim		12		12		2,801	2,801	2,813
North Burnt		53		53	6,076	10,683	16,759	16,813
Peace River / Boudreau	990			990		1,219	1,219	2,209
Pine - Lemoray					882	2,260	3,142	3,142
Klin Se Za			0	0		2,668	2,668	2,669
Klin Se Za Headwaters			7,140	7,140	137	10,581	10,718	17,857
Klin Se Za Mountain			1,711	1,711		4,639	4,639	6,350
Grand Total	990	65	15,266	16,321	13,404	61,694	75,098	91,419

Table 22: Current Condition – ROS Inventory Updated to June 2005

Back Country Area	ROS Class (2005)							
	Roaded			Roaded Total	Semi Primitive		Semi Primitive Total	Grand Total
	Rural	Modified	Natural		Motorized	Non Motorized		
Bocock Peak						1,126	1,126	1,126
Butler Ridge			1,133	1,133	1,309	4,151	5,460	6,593
Dunlevy Creek			5,283	5,283	5,946	20,619	26,565	31,848
Elephant Ridge / Gwillim		12		12		2,801	2,801	2,813
North Burnt		53		53	7,874	8,886	16,759	16,813
Peace River / Boudreau	990			990		1,219	1,219	2,209
Pine - Lemoray					882	2,260	3,142	3,142
Klin Se Za			0	0		2,668	2,668	2,669
Klin Se Za Headwaters			7,140	7,140	137	10,581	10,718	17,857
Klin Se Za Mountain			1,711	1,711		4,639	4,639	6,350
Grand Total	990	65	15,266	16,321	16,147	58,951	75,098	91,419

REVISIONS:

No revisions are suggested for this indicator or objective.

2.38 RECREATIONAL SITES

Indicator Statement	Target Statement
Number of recreational trails and campsites maintained by Canfor	Canfor will provide and/or maintain 1 backcountry trail and 3 campsites on TFL 48
SFM Objective: We will provide opportunities for a feasible mix of timber, recreational activities, visual quality and non-timber commercial values.	

STATUS AND COMMENTS:

Canfor currently maintains the Gething Creek, Carbon Lake and Wright Lake campsites and the 11 Mile Lake Trail. The Gething and Carbon are road access sites. Wright Lake campsite is a remote wilderness site with off highway vehicle or hiking access. The 11 Mile Lake trailhead is road accessible and with a gentle hike you can be in the alpine in just a few hours. All of these recreational values provide a number of outdoor activities (hunting, fishing, hiking and canoeing). All of the above recreational sites can be accessed from the Johnson Creek FSR.

In 2008 the sites were inspected and are in a safe and satisfactory condition.

REVISIONS:

No revisions are suggested for this indicator or objective

2.39 HARVEST LEVELS/VOLUMES

Indicator Statement	Target Statement
Harvest levels/volumes	Harvest volumes will not exceed 110% of the 5 year periodic cut control volume for the DFA
SFM Objective: We will ensure that harvest levels do not adversely impact the long term harvest level.	

STATUS AND COMMENTS:

In 2007 the deputy Chief Forester determined a new AAC for TFL 48. Canfor's allocation in 2008 was 680,420 m³ and BCTS allocation was 54,330 m³. Canfor harvested 17.4% and BCTS 37.2% of the available allocation in 2008.

Table 23: Actual Recorded and Allowable Annual Cut Summary

Year	Canfor Annual Cut Summary				BCTS Summary ²			Deciduous Harvest Summary
	Allowable Annual Cut (m ³)	Adjustment (m ³)	Actual Recorded Cut (m ³)	Cut Control (%)	Allowable Allocation (m ³)	Actual Recorded Cut (m ³)	Allocation (%)	
1987-1991	1,742,500.0		1,787,732.0	102.6				
1992-1996	1,742,500.0	-41,572.0	1,659,920.5	97.6				
1997-2001	2,025,193.0	82,580.0	1,953,224.2	92.7				
2002-2006	2,331,850.0	57,575.04	2,344,509.91	98.1	276,750.0	197,997.25	71.5	66,084.52
2007	595,973	0	488,418	82.0	56,026	0	0	60,931
2008	680,420	0	118,074	17.4	54,330	41,080	75.6	34,522
Running Total	1,276,393	0	606,492	47.5	110,356	41,080	37.2	95,453

Source: MoF Annual Cut Control Letters (1987-2006)

- Note that this value represents the Ministries official billed volume. However based on Canfor's records the volume delivered to Canfor's scale was 431,324 m³ or 89.7% of the AAC. The difference is due to some problems with the Ministry's billing of stumpage at the end of the cut control annual period. The MoF reported this volume in 2004.
- BCTS volumes were reported using the MoFR Harvest Billing System reports.
- This value represents the volume delivered from A77788 in 2005 as reported in the MoFR Harvest Billing System (HBS).
- This value represents the volume delivered from A77788 in 2006 as reported in the MoFR Harvest Billing System (HBS).
- This value represents the volume delivered as reported in the MoFR Harvest Billing System (HBS)

REVISIONS:

No revisions are suggested for this indicator or objective

2.40 WASTE

Indicator Statement	Target Statement
The percentage of blocks and roads assessed in which avoidable waste and residue levels are within the target range	Annually, 100% of cutblocks and roads will fall within the target avoidable waste and residue range
SFM Objective: We will ensure that harvest levels do not adversely impact the long term harvest level.	

STATUS AND COMMENTS:

All blocks where harvesting was completed in 2008 and were able to be assessed in snow free conditions and or during active operations were within the target avoidable waste and residue range. Blocks not yet surveyed will be in 2009 under snow free conditions.

REVISIONS:

No revisions are suggested for this indicator or objective

2.41 HARVEST METHOD

Indicator Statement	Target Statement
Proportion (%) of coniferous harvesting area completed with conventional ground based methods by 5 year cut control period	A maximum of 81% of the coniferous harvesting area (ha) will be completed with conventional ground based methods by 5 year cut control period
SFM Objective: We will ensure that harvest levels do not adversely impact the long-term harvest level.	

STATUS AND COMMENTS:

The following Figure 15 shows the status over the current cut control period 2007 – 2011. The status is that over this period 83% of the harvesting on has been completed using conventional ground based methods, with the remainder 17% being conducted with cable or aerial methods. 2007 is the beginning of the new cut control period and the target is to be met at the end of 2011. Figure 15 shows the progress towards meeting this target. While some harvesting was being done in cable areas in 2008 it was all on areas that had harvesting started in previous years and was reported in those respective years. This indicator records all the area based upon the year in which harvesting started.

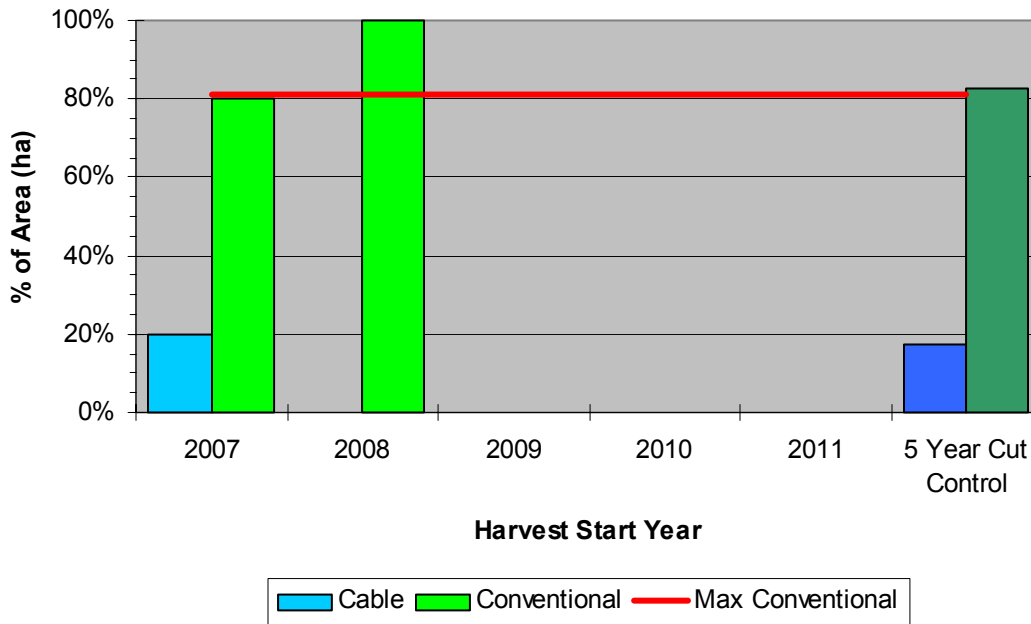


Figure 15: Proportion of Conventional Harvest Systems Used 2007-2011

REVISIONS:

No revisions are suggested for this indicator or objective.

2.42 SUMMER AND FALL DELIVERIES

Indicator Statement	Target Statement
Volume (m ³) of timber delivered annually to Canfor Chetwynd mill between May 1st and October 31st	Minimum of 150,000 m ³ coniferous delivered to Canfor Chetwynd mill
SFM Objective: We will maintain a local, up to date timber processing facility and infrastructure.	

STATUS AND COMMENTS:

In 2008 there was 0 m³ of timber delivered from TFL 48 to the Canfor Chetwynd sawmill due to the mill being indefinitely closed. As the mill was closed during this period this is within the acceptable variance for this indicator. There was 45,397 m³ delivered from TFL 48 during this period.

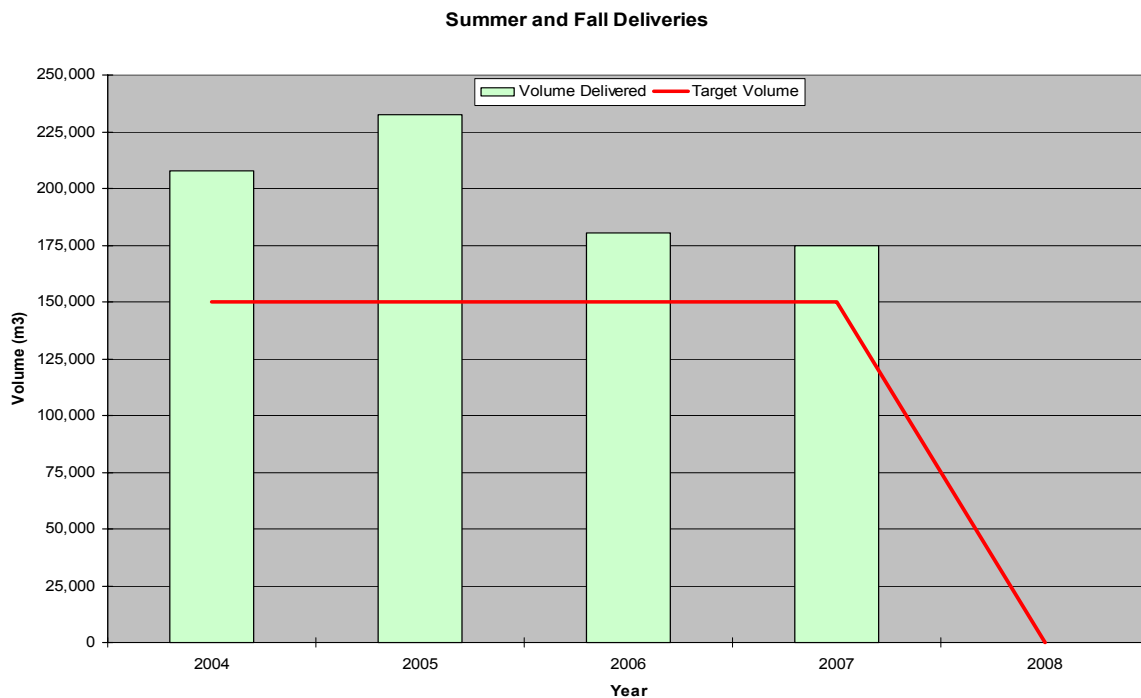


Figure 16: Summer and Fall Deliveries

REVISIONS:

As the Chetwynd mill is currently indefinitely closed we recommend that the reporting of this indicator be suspended until full operations resume.

2.43 LOCAL EMPLOYMENT

Indicator Statement	Target Statement
The proportion of dollars spent on local versus non-local contractors	A 5 year rolling average of 65% of local vs. non-local contractors and an annual minimum of 50% local versus non-local
SFM Objective: We will ensure local communities and contractors have the opportunity to share in benefits such as jobs, contracts and sales.	

STATUS AND COMMENTS:

See Figure 17 for current status of this indicator. In 2008, not including stumpage, Canfor paid \$7.0MM to all vendors. Local vendors or contractors were paid \$5.5MM or 78% of total expenditures. The five-year rolling average from 2004 through 2008 saw 81% of expenditures made to local vendors or contractors.

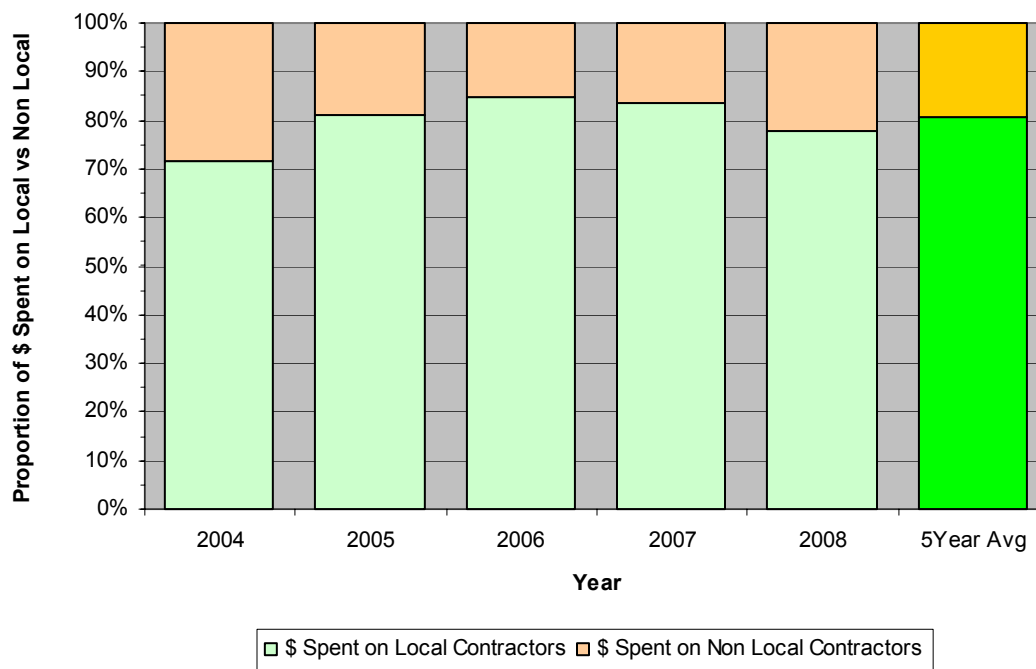


Figure 17: Proportion of Dollars Spent on Local vs Non-Local Contractors

REVISIONS:

No revisions are suggested for this indicator or objective

2.44 COMMUNITY DONATIONS

Indicator Statement	Target Statement
Canfor community donations per year	A minimum of \$7,000/year will be made available for community donations
SFM Objective: We will ensure contributions and benefits to the community (ie. donations, training).	

STATUS AND COMMENTS:

In 2008 Canfor did not make any funds available for community donations due to the extreme financial stress that the operation is under and the indefinite closure of the Chetwynd facility.

REVISIONS:

Recommend that this indicator be suspended until the resumption of operations at the Chetwynd facility.

2.45 CONSISTENCY WITH THIRD PARTY ACTION PLANS

Indicator Statement	Target Statement
Consistency with mutually agreed upon action plans for guides, trappers, range tenure holders, and other non-timber commercial interests	Operations 100% consistent with the resultant action plans
SFM Objective: To help ensure distribution of benefits, cooperative relationships, across local stakeholders and First Nations.	

STATUS AND COMMENTS:

In 2008 there were no specific third party action plans developed.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.46 KNOWN VALUES AND USES ADDRESSED IN OPERATIONAL PLANNING

Indicator Statement	Target Statement
Percentage of known traditional site-specific aboriginal values and uses identified during SFMP, FDP, FSP, or PMP referrals addressed in operational plans	100% of known traditional site-specific aboriginal values and uses identified during SFMP, FDP, FSP, or PMP referrals will be addressed in operational plans
SFM Objective: We will recognize and respect Treaty 8 rights.	

STATUS AND COMMENTS:

In 2008 there were no known traditional site-specific aboriginal values and uses identified that were required to be addressed in operational plans.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.47 CONFORMANCE TO ELEMENTS PERTINENT TO TREATY RIGHTS

Indicator Statement	Target Statement
% conformance to SFM elements pertinent to treaty rights (i.e., hunting, fishing and trapping) defined in Treaty 8	100% conformance to the SFM indicators and targets of the SFM Elements pertinent to sustaining hunting, fishing and trapping, as follows: <ul style="list-style-type: none"> • Element 1.1 Ecosystem Diversity (Indicators 3.1, 3.2, 3.3, and 3.4), and Element 1.2 Species Diversity (Habitat Elements) Indicators (3.5, 3.4, 3.6, 3.7, 3.8, 3.9 and 3.10), and • Element 3.2 Water Quality and Quantity Indicators (3.26, 3.27, 3.28, 3.29, and 3.30)
SFM Objective: We will recognize and respect Treaty 8 rights, and respect known traditional aboriginal forest values and uses.	

STATUS AND COMMENTS:

In 2008 all indicators in Elements 1.1, 1.2 and 3.2 were met.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.48 LRMP IMPLEMENTATION MEETINGS ATTENDED BY CANFOR

Indicator Statement	Target Statement
Proportion of LRMP implementation or update meetings attended by Canfor and BCTS	100% of meetings will be attended by Canfor and BCTS and information provided as required
SFM Objective: We will support land use processes including the LRMP implementation.	

STATUS AND COMMENTS:

There were no LRMP meeting held in 2008.

Table 24: LRMP Meetings

Year	Number of LRMP Meetings	Number Attended by Canfor/BCTS
1999	2	2
2000	4	4
2001	4	4
2002	1	1
2003	0	0
2004	1	1
2005	1	1
2006	0	0
2007	1	1
2008	0	0

REVISIONS:

No revisions are suggested for this indicator or objective.

2.49 PUBLIC ADVISORY COMMITTEE

Indicator Statement	Target Statement
Public Advisory Committee	We will establish and maintain Public Advisory Committee and hold at least one meeting annually
SFM Objective: We will have an effective and satisfactory process that enables public participation of stakeholders and First Nations.	

STATUS AND COMMENTS:

- There was one PAC meeting held in 2008. The purpose of this meeting was to review the annual report monitoring the implementation of SFMP 4.

Table 25: Public Advisory Committee Meetings

Year	Number of PAC Meetings
2000	8
2001	3
2002	3 (+1 field trip)
2003	1
2004	4
2005	5
2006	1
2007	1 (+ 1 field trip)
2008	1

REVISIONS:

No revisions are suggested for this indicator or objective.

2.50 PUBLIC ADVISORY COMMITTEE TERMS OF REFERENCE

Indicator Statement	Target Statement
Terms of reference (TOR) for the Chetwynd TFL 48 DFA public participation process	Obtain PAC acceptance of TOR for public participation process bi-annually (every 2 years)
SFM Objective: We will have an effective and satisfactory process that enables public participation of stakeholders and First Nations.	

STATUS AND COMMENTS:

The first Terms of Reference (TOR) was agreed to with the PAC on March 7, 2000. The last review was on August 31, 2006. Minor changes have been made to the ToR between 2000 and 2006. The most significant changes were in 2006 with the addition of BCTS as a joint registrant on the DFA. The TOR was reviewed with the PAC in 2008; the next scheduled review will be in 2010.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.51 OPEN HOUSES

Indicator Statement	Target Statement
Number of open houses held to solicit broad public input	We will hold a minimum of one annual open house to review SFM plan performance.
SFM Objective: We will have an effective and satisfactory process that enables public participation of stakeholders and First Nations.	

REVISIONS:

Due to continued poor attendance at open houses held between 2000 and 2005 and after being reviewed with the Public Advisory Committee it was agreed that this indicator would be discontinued. There will be no further requirement or reporting of this indicator going forward.

2.52 RESPONSE TO PUBLIC INQUIRIES

Indicator Statement	Target Statement
Percentage of timely responses to public inquiries	We will respond to 100% of public inquiries concerning our forestry practices within one month of receipt and provide summary to PAC annually
SFM Objective: We will have an effective and satisfactory process that enables public participation of stakeholders and First Nations.	

STATUS AND COMMENTS:

In 2008 there were no public inquiries

REVISIONS:

No revisions are suggested for this indicator or objective.

2.53 DISTRIBUTION/ACCESS TO SFM PLAN, ANNUAL REPORTS AND AUDIT RESULTS

Indicator Statement	Target Statement
Distribution/access to SFM Plan, Annual Reports and Audit Results	All SFM plans, annual reports, and audit reports will be made available during open houses, on Canfor's website (http://www.canfor.com/sustainability/certification/csa.asp), others upon request and distributed to PAC members and advisors
SFM Objective: We will provide information to public and First Nations about forest ecosystem values and management.	

STATUS AND COMMENTS:

The SFM plan for TFL 48 is available on Canfor's website at the following location (<http://www.canfor.com/sustainability/certification/csa.asp>). Also included are copies of annual reports and summaries of the 3rd party external audits completed on TFL 48. Copies of the above have been circulated to members of the PAC and advisors as well.

The 2008 annual report is posted at essentially the same time as distribution to the Public Advisory Committee.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.54 SPATIAL FORECASTING AND ANALYSIS

Indicator Statement	Target Statement
Spatial forecasting and analysis models	We will use spatial forecasting and analysis models to develop strategic SFM analysis and rotation length plans for SFMP 4
SFM Objective: We will improve and apply knowledge of forest ecosystems, values and management.	

STATUS AND COMMENTS:

Canfor has chosen to use the Remsoft Spatial Planning System (Woodstock v3.2, Spatial Woodstock and Stanley v5) for the timber supply analysis completed in support of this SFM plan and the AAC determination. Next reporting will be done in conjunction with the next timber supply analysis scheduled for 2010.

REVISIONS:

No revisions are suggested for this indicator or objective.

2.55 CURRENCY OF VEGETATION RESOURCE INVENTORY

Indicator Statement	Target Statement
Currency of vegetation inventory	We will use up-to-date vegetation inventory
SFM Objective: We will improve and apply knowledge of forest ecosystems, values and management.	

STATUS AND COMMENTS:

Phase I for TFL 48 was completed in 2000 and Phase II including Net Volume Adjustment Factoring (NVAF) was completed in 2004. The VRI was updated to account for activities and depletion to the end of 2004 due to harvesting, road construction and uses by other industrial users. Ages, heights and volumes were projected to 2005. This is the information that formed the basis for the analysis of this SFM plan and the associated timber supply analysis.

Height, age, and net merchantable volume were adjusted as a result of the Phase II and NVAF sampling completed on TFL 48. TSR volume is defined as the net merchantable volume at the 12.5cm+ utilization level in lodgepole pine leading stands and the 17.5cm+ level in all other stands. After adjustment, the average height increased by 5%, age decreased by 7% and TSR volume increase by 34%. The TSR volume increased by 18% in the high priority sample areas (those mature areas most likely to contribute to the timber harvesting land base) (JS Thrower & Associates 2005).

REVISIONS:

No revisions are suggested for this indicator or objective.