SUSTAINABLE FOREST MANAGEMENT 2006 ANNUAL REPORT

INVERMERE, BRITISH COLUMBIA TIMBER SUPPLY AREA

RADIUM DEFINED FOREST AREA





Executive Summary

This report is the first annual report of the Sustainable Forest Management Plan for the Radium defined management area. It is expected the annual report will both confirm the efforts made by the licensees under the plan, towards sustainable forest management and provide information that will lead to improvements in the plan and management practices.

Each licensee; Canfor and BC Timber Sales, have been contributors to the development of the plan however each is measured separately within the report.

The measures of sustainability evaluate the licensee's achievements in the major category areas of Ecological, Economic and Social values.

Each value area has a suite of associated measures and targets that the licensees have worked towards. The following table summarizes the licensees overall achievements of meeting the assigned targets:

Canfor

Value Category	Met	Pending	Not Met
Ecological	32	4	0
Economic	19	0	1
Social	30	3	2

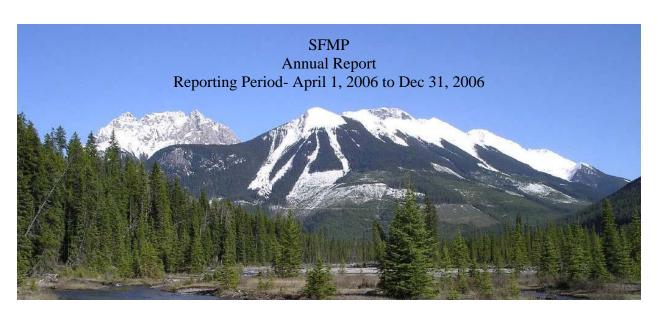
Those areas in which the target was not met included an economic target (ROCE) and two targets related to having an effective communication plan in place.

BCTS

Value Category	Value Category Met		Not Met
Ecological	31	4	1
Economic	13	6 (including N/A)	1
Social	30	3	2

Those areas in which the target was not met included an ecological target in which course woody debris surveys had not been completed, an economic measure in which BCTS only sold 85% of their AAC (however, target is tied to a 5 year average not available as of yet), and two social measures related to having an effective communication plan in place.

The annual report also has provided 27 recommendations for editing the SFMP to be considered by the licensees and the public advisory group, in an effort to improve the plan.



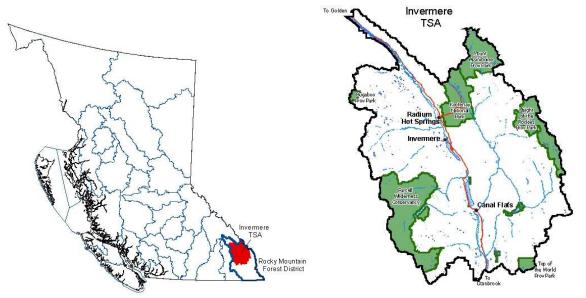






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1. Introduction

This Document is the first annual report of the Sustainable Forest Management Plan (SFMP) of the Radium, British Columbia Defined Forest Area (DFA). The Defined Forest Area is comprised of Canfor and BC Timber Sales operating areas within the Invermere Timber Supply Area. The annual report is an integral part of continual improvement of the 2006 SFMP. Secondly, this report is a part of the assessment to confirm Canfor and BC Timber Sales continued implementation of the CSA SFM standard. The reporting period is April 1, 2006 to December 31, 2006 which provides



the status of all measures locally developed through the Sustainable Forest Management Planning process.

SFM Policy - Canfor

Canfor believes in conducting its business in a manner that protects the environment and ensures sustainable forest management. In July of 1999, Canfor formally announced its commitment to seek sustainable forest management certification of the company's forestry operations under the Canadian Standards Association Sustainable Forest Management (SFM) standard.

The management of Canfor has set out a number of commitments which define the mission, vision, policies and guiding principles for the company. These include the Canfor Mission, Environment Policy and Forestry Principles. These commitments have been used to enable and guide the development of the Sustainable Forest Management Plan. In addition, they also commit to continual improvement of performance through implementing the plan under the principles of adaptive management. Canfor's *Environmental Policy* and *Forestry Principles* detail the commitments to Environmental and Sustainable Forest Management for the Canfor Radium Defined Forest Area. More details of the Policy, Principles and the adaptive management process can be found in the SFMP document..

SFM Policy - BCTS

BC Timber Sales Corporate Overview

BC Timber Sales (BCTS) is a stand-alone organization within the Ministry of Forests and Range. They share the ministry's vision of "diverse and sustainable forest and range values for B.C." and its mission to "protect, manage and conserve forest and range values through a high-performing organization." BC Timber Sales was created to develop Crown timber for public auction to establish market price and cost benchmarks, and capture the value of the timber asset for the public. By 2007, BC Timber Sales will be responsible for managing some 20 percent of the provincial Crown allowable annual cut or approximately 16.5 million cubic metres of timber. The vision of BC Timber Sales is to be "an effective timber marketer generating wealth through sustainable resource management."

BC Timber Sales, Kootenay Business Area – Sustainable Forest Management

In the fall of 2004, BC Timber Sales; Kootenay Business Area, accepted an invitation to join with Canfor Radium Division to develop a Sustainable Forest Management Plan for their operations within the Invermere TSA.





Jointly BCTS, Canfor and a public advisory group drafted a Sustainable Forest Management plan developing measures and targets to address a number of established indicators of sustainable forest management. The following documents the current status of meeting those targets.

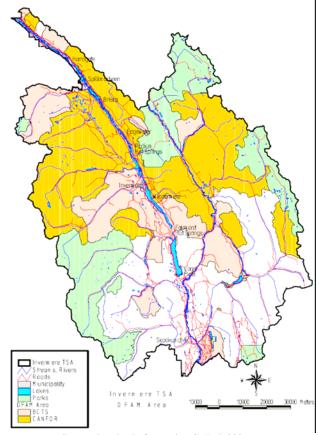


Figure 1. Invermere TSA Map - Canfor & BCTS Operating Areas

Source: Interior Reforestation Co Ltd. 2006.

Criteria and indicators form the basis of a framework that assesses progress toward achieving the goal of sustainable forest management, where SFM is defined as:

"the balanced and concurrent sustainability of forestry-related ecological, economic and social values for a defined area over a defined time frame." Source: Radium SFMP

Criteria are meant to be broad management statements describing a desired state or condition. Criteria are validated through the repeated, long-term measurement of associated indicators. They include vital ecological functions and attributes, as well as socio-economic benefits. Considered the foundation of our SFMP the framework of indicators are described and validated by a series of measures as outlined in this report.

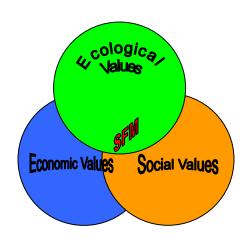






Table 1: Radium DFA Criteria & Indicators

Table 1:	Radium DFA Criteria & Indicators
Criterion	Indicator
	Ecological Values
C1. Biologi	cal richness and its associated values are sustained in the defined forest area (DFA)
	1-1. Ecologically distinct habitat types are represented in an unmanaged state in the DFA to sustain lesser known
	species and ecological function 1-2. The amount, distribution, and heterogeneity of terrestrial and aquatic habitat type elements and structure important
	to sustain biological richness are sustained
	1-3. Productive populations of selected species or species guilds are well distributed throughout the range of their
	habitat
	1-4. Government designated protected areas and sites of special biological significance are sustained at the site and
	sub regional level
	1-5. Forest Management activities will conserve the genetic diversity of tree stock
C 2. The p	roductive capability of forest ecosystems within the Timber Harvesting Land Base (THLB) are sustained
	2-1. Biological components of forest soils are sustained
	2-2. Productive land-base loss as a result of forestry activities is minimized
	2-3. Total growing stock of merchantable and non-merchantable tree species on forest land available for timber production
	2-4. No net detrimental loss in productivity as a result of forest related slope instability
C 3. Forest	t ecosystem contributions to global ecological cycles are sustained within the DFA
	3-1. The total forest ecosystem biomass and carbon pool is sustained
	3-2. The forest products carbon pool is maintained or increased
	3-3. The processes that take carbon from the atmosphere and store it in forest ecosystems will be sustained Economic Values
C.4. The flo	ow of economic benefits derived from management unit forests through the forest industry is sustained
0 4. 1110 110	4-1. Timber harvesting continues to contribute to economic well-being
	4-2. Citizens continue to receive a portion of the benefits
	4-3. Governments continue to receive a portion of the benefits
	4-4. Opportunities to share a portion of the benefits exist for local First Nations
	4-5. Forest management contributes to a diversified local economy
	4-6. Levels of forest damaging events or agents are managed such that their economic impact is minimized
C 5. The flo	ow of marketed non-timber economic benefits from forests is sustained
	5-1. Amount and quality of marketed non-timber forest resources is sustained of enhanced over the long-term as a
	result of forest management activities
C 6. Forest	management contributes to a diversified local economy
	6-1. Employment and income sources and their contribution to the local economy continue to be diversified
	Social Values
C 7. Decisi	ons guiding forest management on the MU are informed by and respond to a wide range of social and cultural values
	7-1. Forest management planning adequately reflects the interests and issues raised by the public (tenure holders, residents and interested parties) in the DFA through an effective and meaningful (to all participants) public participation process
	7-2. Community understanding and capacity to participate in forest management planning is improved through information exchange between DFA forest resource managers and the public through a varied and collaborative
	planning approach in order to facilitate capacity building in the community 7-3. An adaptive management program is implemented for all levels of the Framework (Strategic, Tactical, Operational)
C.8 Forest	t management sustains or enhances the cultural (material and economic), health (physical and spiritual) and capacity
	at First Nations derive from forest resources
	8-1. Aboriginal and treaty rights are respected
	8-2. Local management is effective in controlling maintenance of, and access to, resources for First Nations
	8-3. The relationship between forest management and First Nations culture is acknowledged as important
	8-4. First Nations are provided with detailed, reciprocal knowledge pertaining to forest use as well as forest
	management plans prior to government approval and implementation
C 9. Forest	t management sustains ongoing opportunities for a range of quality-of-life benefits
	9-1. Resources and opportunities for recreation (including quality of experience) are maintained or enhanced
	9-2. Visual quality of harvested/managed landscape is acceptable to a broad range of residents, stakeholders and visitors
	9-3. Forest management conserves unique or significant places and features of social, cultural, spiritual importance
	(including protected areas) at the landscape and site level
	9-4. Worker and community safety is maintained within acceptable levels
	9-5. Water resources will be sustained by maintaining water quality and quantity for domestic and community
	watersheds that are licensed for human consumption





2. Overview of Achievements

For the 2006 reporting year a total of 91 measures were examined. Canfor has met 81 of the targets (89%), another 7 results are pending (8%) and 3 targets was not met (3%). BCTS has met 74 of the targets (80%), another 13 are pending or N/A to the BCTS business model as written (14%), and 4 were not met (5 %).

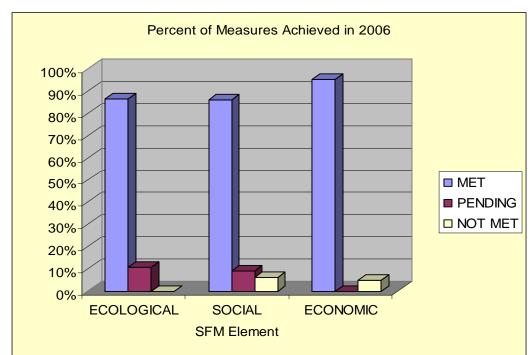
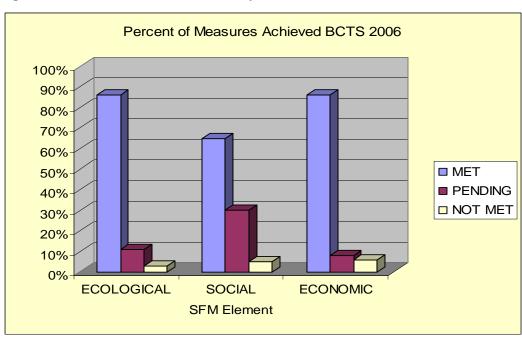


Figure 2. Canfor's measures achieved by Element area

Figure 3. BCTS's measures achieved by element area.







The following Table 2, Table 3 and Table 4 summarize the status of the 2006 measures. (measures have been paraphrased):

Table 2. Summary of Ecological Measures Status

Measure	Canfor	BCTS	Donding	Not Met
	Met	Met	Pending	
1-1.1 Ecosystem Representation Common	n Y	Y		
Rare Sit	es Y	Y		
Uncomm	ion Y	Y		
1-2.1 Habitat features as defined below:				
a) Dead standing trees on harvested areas in the THLB	Y	Y		
b) Stand level retention by Landscape Unit and BEC Varie	nt Y	Y		
c) Coarse woody debris on harvested areas in the THLB	Y			BCTS
d) Riparian areas RMA	Y	Y		
Rare	Y	Y		
e) Shrub areas across the CFLB	Y	Y		
f) Hardwood areas across the CFLB Block	Y	Y		
Landscap	be Y	Y		
1-3.1 Vertebrate species.	Y	Y		
1-3.2 Vertebrate species populations.			Y	
1-4.1 Objectives for parks, reserves, protected areas,	Y	Y		
biologically significant areas	1	1		
1-5.1 Tree Seed and Cone Regulation.	Y	Y		
1-5.2 The percentage of natural regeneration.	Y	Y		
2-1.1 Site index by inventory type group for harvested area	s. Y	Y		
2-1.2 Coarse Woody Debris.	Y	Y		
2-2.1 THLB converted to non-forest.	Y	Y		
2-2.2 Cutblock area having roads/landings.	Y	Y		
2-2.3 Long term detrimental soil disturbance. Landsca	ipe		Y	
Stand	Y	Y		
2-3.1 Regeneration delay period	Y	Y		
2-3.2 Regeneration standards.	Y	Y		
2-3.3 Free Growing.	Y	Y		
2-4.1 Landslides.	Y	Y		
2-5.1 Natural disturbance damaging.	Y	Y		
3-1.1 Carbon stored in trees.	Y	Y		
3-1.2 Carbon in non-tree vegetation.			Y	
3-2.1 Carbon Pool Forest Products.			Y	
3-3.1 Carbon Sequestration. Interim measures; Hardwoods	s Y	Y	<u> </u>	
Non Fores		Y		
Roads and landi		Y		
Regen Del		Y		
Standards	Y	Y		
Free Grow		Y		





Table 3. Summary of Economic Measures Status

Measure	Canfor Met	BCTS Met	Pending	Not Met
4-1.1 Timber supply is stable.	Y	Y		
4-1.2 Cut control limits.	Y			BCTS
4-1.3 Regeneration standards.	Y	Y		
4-2.1 Employment in each forestry sub-sector.	Y	Y		
4-2.2 Income in each forestry sub-sector.	Y	Y		
4-2.3 Indirect/Induced employment and income.	Y	Y		
4-2.4 Dollars spent locally from the forest sector.	Y	N/A		
4-2.5 Opportunities to sell timber to Canfor.	Y	N/A		
4-2.6 Corporate donations/sponsors.	Y	N/A		
4-3.1 Fees paid by industry.	Y	N/A		
4-3.2 Personal income taxes.	Y	N/A		
4-4.1 Opportunities for local First Nations.	Y	Y		
4-5.1 Timber supply certainty.	Y	Y		
4-5.2 The percentage return on capital employed (ROCE) at a primary processing facility or business unit		N/A		Canfor
4-6.1 Damaging events or agents.	Y	Y		
4-6.2 Treatment plans prepared for Damaging events or agents.	Y	Y		
5-1.1 Marketed/commercial non-timber forest resources.	Y	Y		
5-1.2 Amount and quality of marketed/commercial non-timber values.	Y	Y		
6-1.1 Employment by each sector of the local economy.	Y	Y		
6-1.2 Income sources from each sector of the local economy.	Y	Y		

Table 4. Summary of Social Measures Status

Measure	Canfor	BCTS	Pending	Not
	Met	Met		Met
7-1.1 Stakeholder analysis.	Υ	Υ		
7-1.2 Communication plan.				Υ
7-1.3 Effective Public Advisory Group.	Υ	Υ		
7-1.4 Open public process of operational plans, or any major amendments.	Y	Y		
7-1.5 Transparent reciprocal exchange of social values/opinions.			Y	Υ
7-2.1 The number and type of communication, with the public.	Y	Y		
7-2.2 Demonstration of reciprocal knowledge exchange.	Y	Υ		
7-3.1 Adaptive Management strategy is developed.	Υ	Υ		
8-1.1 First Nations are provided the opportunity to comment.	Y	Y		
8-1.2 Absence of unresolved disputes on legally established treaty or customary use rights.	Y	Y		
8-1.3 Mechanism in place for dispute resolution over treaty and customary rights.			Y	





Measure	Canfor	BCTS	Pending	Not Met
DOLO (IDOTO CI	Met	Met		IVIEL
8-2.1 Canfor and BCTS participate in implementation of treaty and use rights strategies	Y	Y	Y	
8-2.2 Acces to resources for First Nations.	Υ	Υ		
8-2.3 Level of satisfaction with access to forest resources.			Y	
8-3.1 Demonstration of knowledge exchange.	Υ	Υ		
8-3.2 Consideration and accommodation of Known First Nations Cultural Issues.	Y	Y		
8-3.3 First Nations' rights and interests in known Non-Timber Forest Products (NTFPs)	Y	Y		
8-4.1 Plans, maps of cultural uses of local forest resources			Y	
8-4.2 Accessibility plans, maps, prior to government approval.	Y	Y		
8-4.3 Meaningful First Nations Participation Enabled.	Υ	Υ		
8-4.4 First Nations Comprehension	Υ	Υ		
9-1.1 An inventory of Recreation site/features.	Υ	Υ		
9-1.2 Management of Forest Activities Appropriate for Recreation Feature.	Y	Υ		
9-1.3 Participate in the development of a Recreation Strategy.	Y	Y		
9-2.1 Visual Quality Objectives (VQO's)	Υ	Υ		
9-2.2 Outside VQOs.	Υ	Υ		
9-3.1 New unique or significant places and features and protected areas.	Y	Y		
9-3.2 Management practices to protect features and values	Y	Υ		
9-3.3 Appropriate management for all existing and newly discovered unique or significant places.	Y	Y		
9-4.1 Written safety policies in place and full implementation is documented	Y	Y		
9-4.2 Safety incident occurrence and reasons documented and summarized	Y	Y		
9-4.3 Number of safety incidences occurring in the bush related to forest management practices.	Y	Y		
9-5.1 Hydrological Assessments.	Υ	Y		
9-5.2 Riparian Management Strategies.	Υ	Υ		
9-5.3 Stream crossings.	Υ	Υ		

3. Ecological Values

The Radium Sustainable Forest Management Plan included 36 measures to evaluate ecological criteria. The following provides specifics of each measure, target and results for both Canfor and BCTS. Were appropriate additional data and recommendations for improvement have been provided.

Measure 1-1.1 Ecosystem Representation

The measure reads; "Number Size and type of distinct habitat types in both the THLB and NHLB and recommends proportion of area that should be represented in an unmanaged state.





Target	Canfor Results	BCTS Results	
25% of common ecosystem clusters	Canfor has achieved the targets	BCTS has achieved the targets	
(>10 000ha) will be reserved or			
managed to maintain or restore			
ecosystem function			
100% of rare ecosystems clusters	100% compliance- No harvesting	100% compliance- No harvesting	
(<2000ha) will be reserved from	occurred within rare ecosystems	occurred within rare ecosystems	
harvest	clusters.	clusters.	
For uncommon ecosystem clusters	Canfor has achieved the targets	BCTS has achieved the targets	
(>2000 ha and < 10,000 ha), the			
amount reserved (or managed to			
maintain or restore ecosystem			
function) depends on the area of			
ecosystem group (Table 5)			

An ecosystem representation project conducted by Ralph Wells RPF. (UBC) has provided direction for management of ecosystems. , describes the ecosystem groups and proportion of the group within the DFA

Table 5. Ecosystem Representation Targets

DFA Inverme	re TSA Eco	osystem	Representat	ion Targets	s - March 31,	2007				
Rare Ecosystem Groups (<2000ha EKCP)										
Ecosystem	EKCP	EKCP	EKCP	EKCP	EKCP Net	DFA	DFA	DFA Net		
Group	Area (ha)	Target	Target (ha)	NHLB	Target (ha)	Area (ha)	Responsibility (%)	Target (ha)		
2	949	100%	949	232	717	266	28.1%	201		
14	1,645	100%	1,645	480	1,165	47	2.9%	33		
16	368	100%	368	130	237	151	41.1%	98		
24	1,750	100%	1,750	1,324	426	687	39.3%	167		
Uncommon E	cosystem	Groups	(>2000ha - <	10,000ha E	KCP)					
Ecosystem	EKCP	EKCP	EKCP	EKCP	EKCP Net	DFA	DFA	DFA Net		
Group	Area (ha)	Target	Target (ha)	NHLB	Target (ha)	Area (ha)	Responsibility (%)	Target (ha)		
8	4,402	89.9%	3,957	732	3,225	340	7.7%	249		
10	6,702	50.5%	3,385	2,664	721	3,737	55.8%	402		
12	10,851	27.1%	2,940	3,330	0	3,244	29.9%	0		
17	6,526	53.3%	3,476	3,740	0	277	4.2%	0		
18	8,891	31.5%	2,801	4,777	0	1,115	12.5%	0		
19	4,462	89.1%	3,978	4,065	0	127	2.9%	0		
29	2,444	99.7%	2,436	1,508	928	417	17.1%	158		
Low Represe	ntation Ec	osysten	Groups (>10	0,000ha EK	CP)					
Ecosystem	EKCP	EKCP	EKCP	EKCP	EKCP Net	DFA	DFA	DFA Net		
Group	Area (ha)	Target	Target (ha)	NHLB	Target (ha)	Area (ha)	Responsibility (%)	Target (ha)		
1	73,765	25%	18,441	10,885	7,557	10,045	13.6%	1,029		
3	237,685	25%	59,421	55,357	4,065	23,169	9.7%	396		
6	92,710	25%	23,178	29,989	0	29,474	31.8%	0		
7	315,806	25%	78,952	103,435	0	75,879	24.0%	0		
	310,000	2070	10,002	100, 100	0	10,010	24.070	U		

Recommendations

Change the targets from a percentage target to a compliance target where possible i.e. 100% can be changed to 0 ha harvested in rare ecosystem clusters. This will allow for simplified reporting in the future while maintaining the intent of the target.

Adjust wording within the target to be consistent with the ecosystem tables; 25% of common ecosystem clusters ...should be "low representation ecosystem groups".





Measure 1-2.1 Significant Habitat Features

The measure reads; "Number, spatial distribution, characteristics and type of significant habitat features in each habitat type as defined below:"

Measure 1-2.1a Dead standing trees on harvested areas in the THLB

Target	Canfor Results	BCTS Results
100% of cutblocks will contain	100% compliance- Cutblocks that have	BCTS has 100% compliance
retention areas (consisting of high	a clear cut area that is greater than	
value existing snags or snag	500m from a forest edge have WTR	
recruitment areas) greater that 0.25	establish.	
ha such that any clear cut area is no		
more than 500m from a forest edge.	No cutblocks are within an area that	
	require WTR.	

Measure 1-2.1b Stand level retention by Landscape Unit and BEC Varient

Target	Canfor Results	BCTS Results
WTPs will be established consistent	100% compliance – The targets for	BCTS has 100% compliance
with Provincial WTP strategies and	each LU/BEC combination have been	
Biodiversity guidebook targets.	achieved for each Landscape Unit.	
Targets for each LU/BEC		
combination have been developed.		
(See SFMP)		

For more information on the results see Invermere Wildlife Tree Retention Analysis Summary Report-Version 1.1-May 23, 2006- Forsite Consultants.

Measure 1-2.1c Coarse woody debris on harvested areas in the THLB

Target	Canfor Results	BCTS Results
CWD Targets by BEC consistent with Tembec and Canfor research (See SFMP)	Harvesting in 2006 occurred in the ESSF dk- Non-Pine and Pine stand types and MS dk- Pine stand types. The average volume per hectare for each zone and stand type compared to the target is: ESSF dk-Non-Pine Stand- Target: 100-250 m³/ha Actual: 116 m³/ha ESSF dk- Pine Stand- Target: 75-250 m³/ha Actual 210 m³/ha MS dk- Pine Stand- Target: 20-50 m³/ha Actual: 112 m³/ha On average the targets were achieved. In addition, each individual harvest block exceeded the targets. The diameter distribution and average volume by BEC zone is shown in the graphs below.	BCTS did not complete assessments of CWD only waste surveys were completed.





Figure 4. Summary of Canfor CWD Survey Results-Piece Size

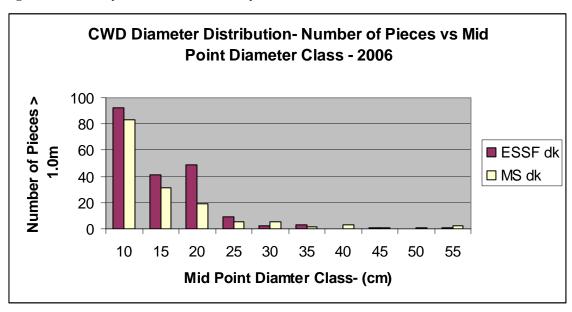
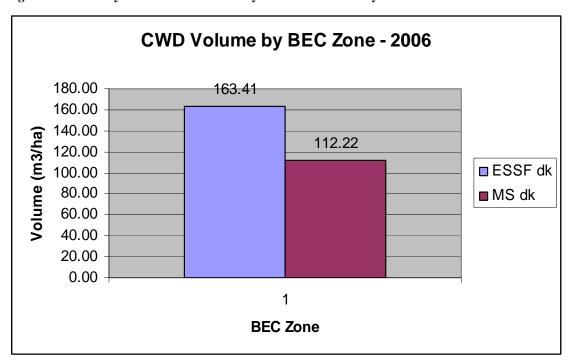


Figure 5. Summary of Canfor CWD Survey Results - Volume by BEC



Measure 1-2.1d Riparian areas in THLB

Target	Canfor Results	BCTS Results
a)100% compliance with riparian	a) 100% compliance- No incidents	a) 100% compliance- No
strategy/standards as defined in	have occurred that are contrary to the	incidents have occurred that are
approved FSP/FDPs	site plans and FSP riparian strategies	contrary to the site plans and FSP
b) Riparian ecosystem types with	or standards.	riparian strategies or standards.
<2000 ha represented in the East	b) 100% compliance- No harvesting	b) 100% compliance- No
Kootenays will be reserved from	occurred within rare riparian	harvesting occurred within rare
harvest.	ecosystems types.	riparian ecosystems types.





Measure 1-2.1e Shrub areas across the CFLB

Target	DFA Results
Shrub areas greater or equal to baseline levels	Current inventory indicates 34 000 ha (9%) of the DFA's
	CFLB currently exists in a shrub dominated ecosystem.
	This is equal to baseline levels.

Measure 1-2.1f Hardwood areas across the CFLB

Target	Canfor Results	BCTS Results
a) 90% of cutblocks with a	a) 100% compliance.	a) 100% compliance
deciduous component pre-harvest		
in the THLB will have a deciduous	Post harvest deciduous component is	b) Current inventory indicates 10 800
component post-harvest, including	257%.	ha (4%) of the DFA's CFLB
mature and regenerating trees		currently exists as
	b) Current inventory indicates 10 800	deciduous/hardwood species. This is
b) Track the trend in the NHLB	ha (4%) of the DFA's CFLB	equal to baseline levels.
(using updated inventory	currently exists as	
information)	deciduous/hardwood species. This is	
	equal to baseline levels.	

Background:

Canfor:

Total ha surveyed RG/FG = 2968 ha

Total ha surveyed RG/FG with deciduous component = 1311 ha

Total ha of 2006 blocks with deciduous component from cruise information = 510 ha

BCTS:

Total ha surveyed FG = 417 ha

Total ha surveyed FG with deciduous component = 284

Post harvest % = 68%

Total ha of 2006 logged 367 ha with a deciduous component 86.6 ha from cruise information = 24%.

Measure 1-3.1 Vertebrate Species

The measure reads; "Report recommending vertebrate species for monitoring is developed."

Target	DFA Results
1 (0) – March 2007	Species Accounting System and Monitoring Report
	completed- Fred Bunnell UBC

Measure 1-3.2 Vertebrate Species populations

The measure reads; Recommended vertebrate species populations remain productive relative to baseline.

Target	DFA Results
TBD: Report out a population baseline by March	In progress
2008	

Measure 1-4.1 Parks, reserves, protected areas

The measure reads; "The percentage of forest management activities consistent with the established objectives for parks, reserves, protected areas, biologically significant areas and including areas with specific wildlife management plans.





Target	Canfor Results	BCTS Results
100% compliant	100% compliance- No incidents have	100% compliance- No incidents
	occurred that are contrary to the site	have occurred that are contrary to
	plans. Site plans and checklists are	the site plans. Site plans and
	completed for each block that	checklists are completed for each
	identifies integrated management	block that identifies integrated
	considerations.	management considerations.

Recommendation

Change the wording of the measure and targets from a percentage target to a compliance target where possible. Ie 100% can be changed to 0 ha of forest management activities in non-compliance with established objectives for parks, reserves, protected areas, biologically significant areas and including areas with specific wildlife management plans. This will allow for simplified reporting in the future while maintaining the intent of the target.

Measure 1-5.1 Tree Seed and Cone Regulations

The measure reads; "The percentage of seeds for coniferous species collected and seedlings planted in accordance with the Tree Seed and Cone Regulation of Chief Forester's Standards for Seed Use."

Target	Canfor Results	BCTS Results
100% (0)	100% of trees planted in 2006 are in	100% of trees planted in 2006 are in
	conformance.	conformance.

Measure 1-5.2 Natural regeneration

The measure reads; "The percentage of natural regeneration."

Target	Canfor Results	BCTS Results
Greater than or equal to 8%	In 2006- 48% naturals- (first year of data	BCTS declared 417 ha FG of which
of area harvested will be	collection)	381 ha were not planted. 93%
restocked by natural		naturals.
regeneration over a 5 year		
period		

Recommendation

Change the reporting formula to the following to simplify data collection:

Formula: %PNR =5 year avg.(TSPH-Planted SPH)/TSPH*100

Variables: %PNR- Percentage of natural regen in prescribed areas

TSPH – Total Stems per Hectare in prescribed area (inventory lable)

Planted SPH- Total Planted Stems per Hectare in prescribed area (-5% for mortality)

The average TSPH and Planted SPH from Free Growing surveys is used for any given year

Measure 2-1.1 Interim measure, Site index

The current measure reads; "Site index by inventory type group for harvested areas."

Target	Canfor Results	BCTS Results
Average post harvest site	- 96% (70 of 73) of blocks surveyed in	- BCTS blocks declared FG had an
index (at free growing)	2006 had an average site post harvest	average pre harvest SI of 16.5 and
will not be less than the	greater than pre-harvest (first year of	post of 19.1
average pre-harvest site	data collection)	_





index on harvested blocks	- The average SI post harvest (18m	
	@50years) is greater than the average	
	SI pre-harvest (14m @50years) for	
	blocks surveyed in 2006	

Recommendation

Discuss alternative measures to evaluate changes to site productivity. Changes in SI on FG blocks is more likely due to changes in SI measurement and inventory typing than anything else.

Measure 2-1.2 Coarse woody Debris

The measure reads; "Amount of Coarse woody debris remaining on harvested areas."

Target	DFA Results
CWD Targets by BEC consistent with	See measure 1-2.1c above.
Tembec and Canfor research (See	
SFMP)	

Measure 2-2.1 Areas converted to non-forest

The measure reads; "Area of THLB converted to non-forest land use through forest management activities."

Target	DFA Results
Target of 5% (+/-2%) of THLB	Based on TSR 3, the percent area of THLB converted to non-forest land
	use through forest management activities is 4.6%. See table below

Table 6. THLB Converted to non-forest land use

Feature Type	Reduction percent (%) applied to existing harvested areas	Total area (ha)	Area Excluded	THLB	% of THLB
Access Features		10,575	6,477	-	-
In block Trails	4.5% (SBFEP soil disturbance surveys in 1994/95 + professional judgment)	4,841	2,965	-	-
In block Landings	2.0% (1/4 ha landing per 8 ha harvested – reduced by 1% for overlap with roads)	2,151	1,317	-	-
Totals	Existing access features plus existing trails and landings	17,567	10,759		-
				233,873	4.6%

Recommendations

Currently, information on permanent access structures is being quantified for the Invermere TSA through a multi year project which is to be completed by March 2008. The final results of this project will provide an accurate estimate of the area of THLB converted to non-forest land use through forest management activities in the Invermere TSA. The results will be used in the next TSR analysis.

Measure 2-2.2 Roads and Landings

The measure reads; "The percent of cutblock area having roads/landings constructed due to forest management activities as a measure."





Target	Canfor Results	BCTS Results
Legal limit of <7% of cutblock as per FPPR sec 36	Based on TSR 3, the percent cutblock area having roads/landings is 4.0%. See table below.	BCTS; Average % was below 7 due to larger block sizes. And efficient layout planning.
	In 2006- the area converted to non-forest land use is an average of 7.0% for Canfor. This higher than normal percent is relative to the small average cutblock size in 2006 (21.4 ha) due to mountain pine beetle salvage harvesting.	

Table 7. The percent of Blocks with Roads and Landings

Feature Type	Reduction percent (%) applied to existing harvested areas	Area Excluded	Harvested Area	% of Harvested Area
In block Trails and Roads	4.5% (SBFEP soil disturbance surveys in 1994/95 + professional judgment)	2,965	-	-
In block Landings	2.0% (1/4 ha landing per 8 ha harvested – reduced by 1% for overlap with roads)	1,317	-	-
Totals	Existing access features plus existing trails and landings	4,282	-	-
			107,578	4.0%

Recommendations

Currently, information on permanent access structures is being quantified for the Invermere TSA through a multi year project which is to be completed by March 2008. The final results of this project will provide an accurate estimate of the area of THLB converted to non-forest land use through forest management activities in the Invermere TSA. The results will be used in the next TSR analysis.

Measure 2-2.3 Long-term Detrimental Soil Disturbance.

The measure reads; "The percent of long term detrimental soil disturbance."

Target	Canfor Results	BCTS Results
1) Landscape: Average 4.5%	,	1) This information is currently
(+/2%) over all cutblocks over a 5	available as this is the first annual	not available as this is the
year period.	report. This portion of the measure	first annual report. This
2) Stand: For a cutblock, 10%	will be reported upon collection of 5	portion of the measure will be
disturbance on high hazard areas	years worth of data.	reported upon collection of 5
and 5% on very high hazard areas as	2) High Hazard Areas = 3.5%	years worth of data.
defined in soil conservation	Very High Hazard Areas = 4.3%	2) All BCTS harvested blocks
guidebook.	Average of All blocks harvested in	were below the thresholds.
guidebook.	2006= 3.6%	

Measure 2-3.1 Regeneration delay period

The measure reads; "Regeneration delay period."

Target	Canfor Results	BCTS Results
100 % compliant within period	The Regen Delay Period is 100%	The Regen Delay Period is 100%
specified in FSP by BEC	compliant and within the time frame	compliant and within the time frame
	specified in the operational plans-	specified in the operational plans-
	FSP and Site Plans.	FSP and Site Plans.





Measure 2-3.2 Regeneration Standards

The measure reads; "Percentage compliance with regeneration standards set in FSP."

Target	Canfor Results	BCTS Results
100% compliant	Cutblocks harvested over the last 5	Cutblocks harvested over the last 5
	years are 100% compliant with the	years are 100% compliant with the
	regeneration standards specified in	regeneration standards specified in
	the operational plans-FSP and Site	the operational plans-FSP and Site
	Plans	Plans

Measure 2-3.3 Free growing

The measure reads; "Percentage of area in compliance with free growing requirements."

Target	Canfor Results	BCTS Results
100% compliant	100% percent of harvested blocks	100% percent of harvested blocks
	have met the free growing date prior	have met the free growing date prior
	to the late free	to the late free

Measure 2-4.1 Landslides

The measure reads; "Number of hectares of landslides resulting from forestry practices."

Target	Canfor Results	BCTS Results
0 ha in THLB (for slides >0.5 ha in	100% compliance- In 2006 no	100% compliance- In 2006 no
size)	landslide incidents have occurred as a	landslide incidents have occurred as
	result of harvesting practices.	a result of harvesting practices.



Measure 2-5.1 Natural Disturbance Damaging Events

The measure reads; "The percentage of significant detected natural disturbance damaging events in the THLB which have treatment plans prepared and implemented."

Target	DFA Results
100% of significant events will have	The Rocky Mountain Forest District has prepared an Invermere TSA
treatment plans proposed within first year	Forest Health Strategy, Feb 14,2007. This plan documents the
of detection	significant natural disturbance damaging events and strategies for each
	event.





Current identified natural disturbance events in the Invermere TSA as detailed by the Rocky Mountain Forest District:

Agent/Ha affected and FH Impacts:

- Mountain Pine Beetle 27,019 ha /tree mortality
- Balsam Bark Beetle 3,030 ha /tree mortality
- Lw Needle Cast 1.884 ha /growth loss and potential for mortality in young stems
- Fir Bark Beetle 944 ha /tree mortality (IBD)

Current Status of Implementation Strategies (if any):

- Mountain Pine Beetle Single Tree Treatment Program in suppression Beetle Management Units
- Active Fir Bark Beetle Lethal Funnel Trap Program in suppression BMUs

Table 8. 1999-2006 Invermere TSA Aerial Overview Survey Results

TABLE 1 - 1999-2006 INVERMERE TSA AERIAL OVERVIEW SURVEY RESULTS
Type of impact: 1=quality, 2=growth reduction, 3=young tree mortality, 4=mature tree mortality

Forest Health Factor	Hectares Affected 2006	Cumulative Hectares Affected ₉₉₋₀₆	Type of Impact	% of THLB stands led by host species
Mountain pine beetle	27,019	63,489	4	41
Douglas-fir beetle	944	8,713	4	29
Western balsam bark beetle	3,030	17,651	4	4
Spruce Bark Beetle	180	1,344	4	13
Pine needle cast	0	5,094	2,3	41
Western false hemlock looper	0	2,500	2,3	29
Larch needle cast	1,884	4,084	2,3	7
Serpentine Leaf Miner	326	326	2,3	<1%
Burned*	224	970*	1,3,4	100

^{*}Kootenay Fire Centre recorded 19,000 ha burned in the THLB in 2003





Figure 6. 1999-2006 Invermere TSA Aerial Overview Results of IBM Attack

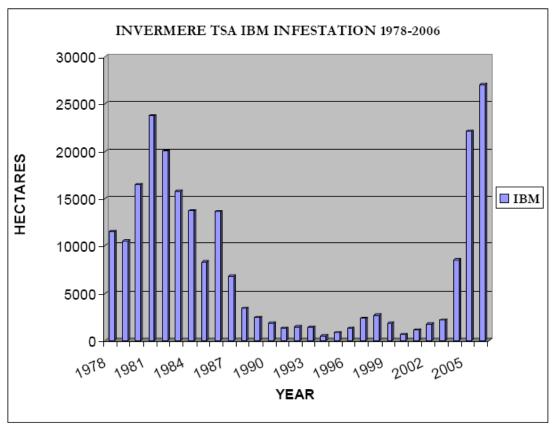
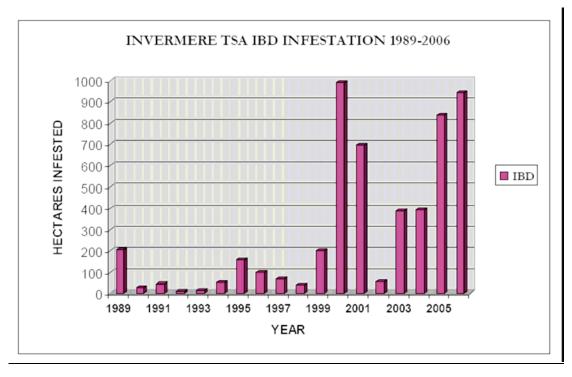


Figure 7. 1999-2006 Invermere TSA Aerial Overview Results of IBD Attack







Measure 3-1.1Carbon Stored in Trees

The measure reads; "Estimated amount of carbon stored in trees in the DFA's CFLB (converted from TSR m3/ha."

Target	DFA Results
Baseline sustained or increasing trend	The frequency of monitoring and analysis of this measure will be at the
	same time as timber supply review periods. The most recent TSR
	analysis indicates that the current mass of carbon stored in trees on the
	TSA is estimated to be 20.6 billion kg's.

Measure 3-1.2 Estimated Carbon in non-tree Vegetation

The measure reads; "Estimated carbon in non-tree vegetation (above ground biomass and roots)."

Target	DFA Results
TBD – March 2007	A target for this measure has not been developed at this time.

Recommendation

Corporately, Canfor is reviewing the Carbon budget model (CBM) from Canadian Forest Service to determine its applicability for many of Canfor's operations, including the Radium DFA. Currently, the model is not capable of dealing with carbon stored in non tree vegetation. This component of forecasting is undergoing further study by Canfor. The target for this measure needs to be changed to 2008.

Measure 3-2.1 The forest products carbon pool is maintained or increased

The measure reads; "Plan to plan based on report and process being developed by Canadian Forest Service."

Target	DFA Results
TBD – March 2007	A target for this measure has not been developed at this time.

Recommendation

Corporately, Canfor is reviewing the Carbon budget model (CBM) from Canadian Forest Service to determine its applicability for many of Canfor's operations, including the Radium DFA. Currently, the model is not capable of dealing with carbon stored in Forest Products. This component of forecasting is undergoing further study by Canfor. The appropriate measure and target will be determined by April 2008.

Measure 3-3.1a-g Carbon interim measures

The measures are interim measures – Many of the measures that Canfor and BCTS are monitoring will contribute to the knowledge of carbon status and processes.

Target	DFA Results
See related measures:	See related measures
 Hardwoods, shrubs 1-2.1 	
 Area of THLB converted to non- 	
forest land use through forest	
management activities 2-2.1	
 The percent of cutblock area 	
having road/landing construction	
2-2.2	
 Regeneration delay 2-3.1 	
 The percent compliance with 	
regeneration standards 2-3.2	
The percent of Area in	
compliance with free growing	
measures 2-3.3	





4. Economic Values

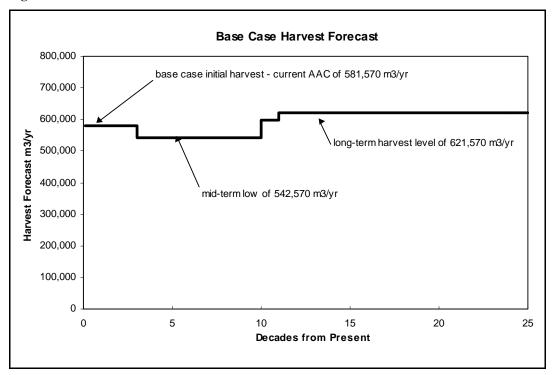
The Radium Sustainable Forest Management Plan included 20 measures to evaluate economical criteria. The following provides specifics of each measure, target and results for both Canfor and BCTS.

Measure 4-1.1 Projected timber supply over time is stable

The Measure reads; "Projected timber supply over time is stable."

Target	Results
321,094 m3 (+/- 10%)	The current AAC for the DFA allows 321,094 m3/yr (effective November 1, 2005) of
	harvest volume and is projected to remain stable or increase during the planning horizon
	(base case scenario). Currently, the AAC for the Invermere TSA, and subsequently
	reflected for the DFA, has been slightly uplifted to reflect the recent fire and beetle
	infestation.

Figure 8. TSR 3 Invermere TSA Base Case Harvest Forecast



Measure 4-1.2 Cut Control

The measure reads; "Actual harvest volume is meeting the timber supply allocation within cut control limits."

Target	Canfor Results	BCTS Results
+/- 10% of AAC over 5	See table below.	Cut Control for BCTS is measured on
years	Canfor is within its AAC cut control	the basis of sold volumes. For calendar
	volume for its cut control period ending	year 2006 CTS sold 62,740 m3 (85% of
	Dec 2006. The actual harvest is 9.1% over	AAC)
	cut over the 5 year period	In time a 5 year average on reported
		out volume will be established.





Table 9. Five Year Cut Control Volume Control - Canfor FL A18979

Calendar Year	2002	2003	2004	2005^{1}	2006	Total
AAC (m3)	231,005	231,005	231,005	228,743	223,317	1,145,075
Timber Cut Under Licence and RP	272,247	284,378	238,792	215,011	226,846	1,237,274
Timber Wasted or Damaged			5,742	3,223	2,902	11,867
Timber Cut w/o Authorization						
Total	272,247	284,378	244,534	218,234	229,748	1,249,141

Measure 4-1.3 Regeneration Standards

The measure reads; "Percentage of harvested area in compliance with regeneration standards set in FSP."

Target	Canfor Results	BCTS Results
100% compliant	Cutblocks harvested over the last 5 years	Cutblocks harvested over the last 5 years
	are 100% compliant with the regeneration	are 100% compliant with the regeneration
	standards specified in the operational	standards specified in the operational
	plans-FSP and Site Plans	plans-FSP and Site Plans

Measure 4-2.1 Direct Employment in the Forest Sector

The measure reads; "Employment in each forestry sub-sector locally, regionally and provincially."

Target	Results
Local – 92 py	For 2006 the employment numbers projected for the DFA based on actual harvest levels
Regional – 169 py	in 2006 are:
Provincial – 239 py	Local- 159
(+/- 10%)	Regional- 159
	Provincial- 225
	The actual employment for Canfor and BCTS of its staff and contractors in 2006 is shown
	in the tables below

Background Info

Local employment statistics used the regional multiplier with the DFA harvest levels. Regional and provincial employment statistics used the TSA harvest levels and the appropriate multiplier from TSR3 reporting (person years per 1000 m3 harvested). Local/regional = 0.545 PY's/'000m³

Provincial = 0.77 PY's/'000m³ (includes local/regional)

Table 10. Annual average harvests and employment, Invermere TSA 2006

	Canfor Result	BCTS Results
Harvest	Timber volume (m ³)	Timber volume (m ³)
Allowable Annual Cut (AAC)	223,317	74 049
Annual harvest, 2006	229,748	62,640
Employment	Person-Years (PYs)	Person-Years (PYs)
Harvesting	67	20
Log transport	10	
Road construction & maintenance	5	
Silviculture	7	2
Timber processing	170	28
Total	259	50





Recommendation:

The target for local employment needs to be adjusted to 169 py as the local statistics used the regional multiplier with the DFA harvest levels. The 92 py target was double adjusted for the DFA which is incorrect.

Measure 4-2.2 Direct Income in the Forest Sector

The measure reads; "Income generated from each forestry sub-sector, locally, regionally and provincially."

Target	Results
Local – \$4,036,000	For 2006 the income numbers projected for the DFA based on actual harvest levels in
Regional – \$7,424,905	2006 are:
Provincial – \$10,997,557	
(+/-10%)	Local- \$6,988,073
	Regional- \$6,988,073
	Provincial-\$10,350,535

Background Info

Local income statistics used the regional multiplier with the DFA harvest levels. Regional and provincial income statistics used the TSA harvest levels and the appropriate multiplier from TSR3 reporting (income generated per 1000 m3 harvested).

Invermere TSA – \$ 23,900/'000 m³ Provincially - \$35,400/'000 m³

Recommendation:

The target for local income needs to be adjusted to \$7,424,905 as the local statistics used the regional multiplier with the DFA harvest levels. The \$4,036,000 target was double adjusted for the DFA which is incorrect.

Measure 4-2.3 Indirect/Induced employment and income

The measure reads; "Indirect/Induced employment and income estimates locally, regionally and provincially."

Target	DFA Results
Indirect/Induced	For 2006 the employment and income numbers projected for the DFA based on actual
Employment:	harvest levels in 2006 are:
Local – 34 py	
Regional – 62 py	Local- 58
Provincial – 264 py	Regional- 58
	Provincial-248
Indirect/Induced Income:	
Local – \$1,063,883	Local- \$1,842,044
Regional – \$1,957,192	Regional- \$1,842,044
Provincial – \$8,481,167	Provincial-\$7,982,192
(+/- 10%)	

Background Info

Local statistics used the regional multiplier with the DFA harvest levels. Regional and provincial statistics used the TSA harvest levels and the appropriate multiplier from TSR3 reporting (person years of employment, or income generated per 1000 m3 harvested).

Local/regional = 0.20 PY's/'000m³ Provincial = 0.85 PY's/'000m³ (includes local/regional) Invermere TSA - \$ 6,300/'000 m³ Provincially - \$27,300/'000 m³ (includes local/regional)





Recommendation:

The targets for local indirect/induced employment need to be adjusted to 62 py as the local statistics used the regional multiplier with the DFA harvest levels. The 34 py target was double adjusted for the DFA which is incorrect.

Similarly, the targets for indirect/induced income needs to be adjusted to \$1,957,192 as the local statistics used the regional multiplier with the DFA harvest levels. The \$1,063,883 target was double adjusted for the DFA which is incorrect.

Measure 4-2.4 Local contributions of spending

The measure reads; "The percentage of dollars spent locally from the forest sector in proportion to total expenditures."

Target	Canfor Results	BCTS Results
Greater than x% (+/- 10%)	Canfor and BCTS are to collect 5-year average dollars spent to establish the baseline dollars. This	BCTS spent \$77,043 in the TSA. It is difficult due to the business structure to
,	is the first year in collecting this data. A variance	equate this to a percentage of
	of +/- 10% is based on cut control AAC harvest	expenditures.
	variations. In 2006 the percentage of dollars spent	
	locally from the forest sector in proportion to total	
	expenditures is:	
	Total Expenditures = \$ 60,384,834.37	
	Local Expenditures = \$ 32,673,242.19	
	Percent Local Expenditures = 54%	

Recommendation:

BCTS expenditures cannot be directed to a particular geographic area since they openly bid out our work, The recent inter provincial trade agreement further expands the are BCTS must advertise their work. Design a measure in a form that BCTS can evaluate a trend of local expenditures.

Measure 4-2.5 Local Opportunity to Sell Timber

The measure reads; "Opportunities continue to be available for citizens to sell timber to Canfor."

Target	Results
50% of milling capacity	See Table Below. Canfor provided greater than 50% for citizens to sell timber to its
	Radium facility.

Table 11. Total Net Production Volume in 2006 for Canfor Radium Sawmill

Source	Volume (m3)	Percent of Total	
		Volume	
Canfor's FL A18979 (including off-grade)	291,685	43.8 %	
Purchase Volume (Non-quota wood)	375,221	56.2 %	
Total Net Production Volume	666,906	100 %	
Total External Sales	84,789	12.8 %	





Measure 4-2.6 Corporate Donations

The measure reads; "Amount of corporate donations/sponsors made to the community per year."

Target	Canfor Results	BCTS
1 List of	Canfor is to collect 3-year average	N/A
Donations	donations/sponsors made to the community per year to establish the baseline dollars. This is the first year in collecting this data. In 2006 the donations/sponsors made to the community is \$32,461.13. See table below	

Table 12. Canfor's Donations for 2006

Table	Table 12. Cantor's Donations for 2006						
	200	06 Radium Donations Tracker					
	outh & Education (YE), Community Enhancementursary (SB), Endowments (E)	t (CE), Forestry & Environment (FE), Amateur Sports (AS), Health & We	Ilness (HW), Othe	r (O),			
Date Requested	Organization	Purpose/Event	Amount	Total For 2006			
01-Jan-06	Windermere Valley Minor Hockey		\$150.00	\$150.00			
02-Jan-06	Windermere Valley Minor Hockey	Two loads of Firewood for sports fund raising	\$2,460.00	\$2,610.00			
01-Jan-06	Blue Lake Forest Education Society		\$500.00	\$3,110.00			
01-Jan-06	BC Senior Games		\$250.00	\$3,360.00			
01-May-06	Lakers Baseball	Local Team Start up costs	\$250.00	\$3,610.00			
01-Jun-06	Literacy Charity Golf Tournament	Local Golf Tournament supporting library	\$200.00	\$3,810.00			
07-Jul-06	Volleyball BC	Sponsored local youth athlete	\$200.00	\$4,010.00			
07-Jul-06	Alberta Children's Hospital Foundation	Golf Tournament supporting hospital	\$200.00	\$4,210.00			
31-Aug-06	Cedar Publishing Corporation	Child Find Magazine Support	\$187.09	\$4,397.09			
02-Nov-06	WV Minor Hockey Assoc	Minor Hockey Tournament Program 2006/2007 season	\$50.00	\$4,447.09			
15-Dec-06	CV Gymnastics Assoc	Equipment	\$1,139.04	\$5,586.13			
28-Dec-06	WV Minor Hockey Assoc	Equipment	\$675.00	\$6,261.13			
28-Dec-06	Committee for Safe Home Program	Supplies	\$1,200.00	\$7,461.13			
	· ·		SUB-				
			TOTAL	\$7,461.13			
2006	Community of Invermere	Corporate Donation to Invermere Mt Nelson Athletic Park	\$25,000.00				
			GRAND				

Measure 4-3.1 Fees Paid

The measure reads; "Fees paid by industry to municipal, regional and provincial governments."

Target	Canfor Results	BCTS Results
100% compliant	Canfor is 100% compliant with paying fees to	N/A
of paying fees on	municipal and provincial governments for 2006	
an annual basis		





TOTAL \$32,461.13

Table 13. Fees paid by Canfor Municipal & Provincial Governments Jan 1 - Dec 31, 2006

<u>Type</u>	<u>Vendor</u>	Total Amount			
Provincial					
Total		\$	5,513,905.90		
Municipal					
Total		\$	151,293.37		
Grand Total		\$	5,665,199.27		

Measure 4-3.2 Personal income taxes – forest industry relative to total

Target	Results
N/A	This measure, Personal Income taxes-forest industry relative to total, and target were
	dropped by the PAG group at meeting number 16. No further reporting is required.

Measure 4-4.1 First Nations Economic Opportunities

The measure reads; "Number of formal opportunities for local First Nations to enter into contracts with Licensees."

Target	Canfor Results	BCTS Results
>=1 opportunity	Target met- See Table below	Target met.
on an annual basis		

Table 14. Summary of Contracts with Canfor Radium and First Nations 2006

Year	Type of Contract					Total				
	Employment	Building/Lowbed Volume Support & Donation Forestry Building Contracts* Education						Management Services		
			Purchased							
2006	1	1	1	0	0	0	0	2	0	5

^{*}Other contracts includes research/inventory and Archaeological Services

Employment opportunity included an in-house Ktunaxa Development Corporation position for woodlands Lowbed contract services are provided to woodlands operations on a regular basis Lamb Creek purchase contract for volume from First Nations Non-Replaceable Forest Licence Two Eagle Vision Archaeological Services contract for 2006 field season

Measure 4-5.1 Timber Supply Certainty

Target	Results		
321,094 m ³ (+/- 10%)	Same as 4-1.1. The current AAC for the DFA allows 321,094 m3/yr (effective		
	November 1, 2005) of harvest volume and is projected to remain stable or increase		
	during the planning horizon (base case scenario). Currently, the AAC for the		
	Invermere TSA, and subsequently reflected for the DFA, has been slightly uplifted to		
	reflect the recent fire and beetle infestation.		

Recommendation:

The measure and target are the same as measure 4-1.1. The wording of the measure and target should be revised to match measure 4-1.1 or visa versa.

Measure 4-5.2 Economic Sustainability

The measure reads; "The percentage return on capital employed (ROCE) at a primary processing facility or business unit."





Target	Canfor Results	BCTS Results
ROCE >the	Radium's divisional ROCE percentage was well	N/A
percentage set for	below the anticipated divisional ROCE for 2006	
ROCE for the	and was below the corporate average ROCE	
division.	percentage. Very poor lumber markets in 2006	
Measured over a	attributed to poor divisional ROCE. Corporate	
two year period	ROCE was increased with the return of US trade	
	duties in the fall of 2006.	

Recommendation:

Include a measure that is applicable to BCTS.

Measure 4-6.1 Damaging Events or Agents

The measure reads; "Current assessments of damaging events or agents (current status: risk potential) are maintained."

Canfor Results BCTS Results	Target
Damaging Agents detected and BCTS all assessments for SP or silv	1 assessment per damaging
addressed in 2006 are outlined in tables surveys had a pest assessment.	event or agent
below.	
below.	event or agent

Table 15. Canfor Assessments Completed in 2006–Forest Health Agent – Mature Forest

Mature Forest Pests								
Pest	Code	Site Plan pre- assessment	Specific Forest Health Assessment	Cruising	Regen or Free Growing Survey			
Armillaria root rot	DRA	X						
Douglas- Fir bark beetle	IBD	Х	Aerial Survey, Beetle Probe, Recci Survey					
Mountain pine beetle	IBM	Х	Aerial Survey, Beetle Probe, Recci Survey					

Table 16. Assessments Completed – Forest Health Agent – Plantations

Plantation Pests								
Pest	Code	Site Plan pre- assessment	Specific Forest Health Assessment	Cruising	Regen or Free Growing Survey			
Armillaria root rot	DRA		Pixel Survey		X			
Mountain pine beetle	IBM				X			
Spruce Beetle	IBS				X			
Lodgepole Pine Dwarf Mistletoe	DMP				X			
Western Gall Rust	DSG				X			
Cooley spruce gall adelgid	IAG				X			
Warren's Root collar weevil	IWW				X			
Pitch nodule moths	ISP				X			
Animal Damage	AD				X			
Cattle Damage	AC				X			
Squirrel Damage	AS				X			
Commander Blister Rust	DSC				X			
Snow Ice Damage	NY				X			
Tree Damage- Logging	TL				Х			





Measure 4-6.2 Natural Disturbance Events

The measure reads; "The percentage of significant detected natural disturbances damaging events threatening the THLB which have treatment plans prepared and implemented."

Target	DFA Results
1 strategy exists per	See Measure 2-5.1
damaging event or agent	

Recommendation

The measure and target are the same as measure 2-5.1. The wording of the measure and target should be revised to match measure 2-5.1 or visa versa.

Measure 5-1.1 Identification of marketed/commercial non-timber forest resources

The Measure reads; "Identification of marketed/commercial non-timber forest resources in the management unit."

Target	DFA Results
Develop a list for the	The Non-Timber Forest Products project has been completed in March 2007. This
management unit – Date:	project outlines the known marketed non-timber economic activities in the DFA.
2007	

Meaure 5-1.2 Commercial Non-Timber Forest Values

The measure reads; "Description of potential implications of SFM practices on the amount and quality of marketed/commercial non-timber values."

Target	DFA Results
1 strategy / identified	The Non-Timber Forest Products
NTFV – 2007	project has been completed in March
	2007. This project outlines the known
	marketed non-timber economic
	activities in the DFA and potential
	impacts to marketed non-timber forest
	resources and the mitigative measures
	to maintain those resources.

Recommendation

Measure 5-1.1 and Measure 5-1.2 are process measures that have been achieved in 2007. These measures can now be combined into one measure and target for the DFA that attempts to manage and sustain commercial non-timber forest products.



Measure 6-1.1 Local Employment by Economic Sector

The measure reads; "Employment supported by each sector of the local economy (actual and percentage of total employment)."

Target	DFA Results
Local Forestry Average Annual Employment– 263 person years and 19% of total employment sectors (+/- 10%)	Canfor and BCTS combined employment for 2006 is 309 person years which is above the target average annual employment. The total employment compared to other sectors was generated during the last TSR 3 completed in 2004. The next census data release on employment by Stats Canada is March 4, 2008
Report out on other sectors	





Table 17. Canfor Annual Average harvests and employment, Invermere TSA 2006

	Result
Harvest	Timber volume (m³)
Allowable Annual Cut (AAC)	223,317
Annual harvest, 2006	229,748
Employment	Person-Years (PYs)
Harvesting	67
Log transport	10
Road construction & maintenance	5
Silviculture	7
Timber processing	170
Total	259

Table 18. BCTS Annual Average Harvests and Employment, 2006

	Result
Harvest	Timber volume (m³)
Allowable Annual Cut (AAC)	74 049
Annual harvest, 2006	62740
Employment	Person-Years (PYs)
Harvesting, planning & administration, log transport, and road construction & maintenance	20
Silviculture	2
Timber processing	28
Total	50

Figure 9. Employment Sector Invermere TSA based on 2000 census.

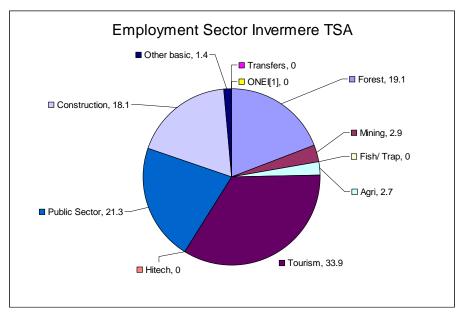






Table 19. Employment and Employment Income Distribution (% share) for Invermere TSA

	Forest	Mining	Fish/	Agri	Tour-	Hi	Public	Const-	Other	Trans-	ONEI ²	Total
			trap		ism	tech	sector	ruction	basic	fers		3
2000 Employment income	18.9	1.9	0	0.8	15.7	0	18.7	13.8	0.7	13.5	15.9	100
2000 Employment	19.1	2.9	0	2.7	33.9	0	21.3	18.1	1.4	-	-	100
1995 Employment	19.7	2.9	0	3.7	35.3	0	21.7	14.1	2.6	-	-	100

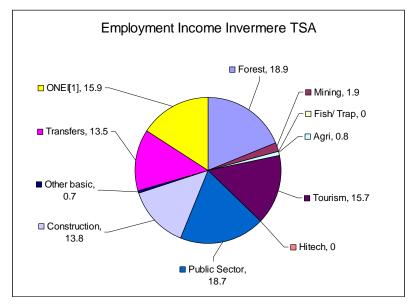
Source: BC Stats

Measure 6-1.2 Income Sources of the Local Economy

The measure reads; "contribution of income sources from each sector of the local economy (actual and percentage of total income)."

Target	DFA Results
Average Local Forestry Annual Income– greater than \$48 700 and 19% of total income sources (+/- 10%)	TSR3 was completed in 2005 and it has outlined the contribution of income supported by each sector of the local economy. The next census data release on income and earnings by Stats Canada is Thursday, May 1, 2008
Report out on other sectors	

Figure 10. Employment Income Invermere TSA



³ Totals do not add up to 100% due to rounding.





² Other non-employment income (ONEI), mainly investment and pension income

Table 20. Invermere TSA Avg. Income Stats 2001 Census

Industry	Income	Indirect Multiplier	Indirect & Induced Multiplier
Logging	\$44 642	1.18	1.27
Saw milling	\$42 555	1.29	1.43
Pulp manufacturing	\$58 995	1.59	1.62
Coal mining	\$55 176	1.31	1.39
Government services	\$42 258	1.12	1.21
Accommodation services	\$20 461	1.08	1.13
All industries average	\$31 899	-	-





5. Social Values

The Radium Sustainable Forest Management Plan included 35 measures to evaluate economical criteria. The following provides specifics of each measure, target and results for both Canfor and BCTS.

Measure 7-1.1 Stakeholder analysis

The measure reads; "Implementation and annual update of a comprehensive stakeholder analysis of tenure holders, residents and interested parties."

Target	Canfor Results	BCTS Results
Annual Updates	Canfor maintains a stakeholder database that is	BCTS maintains a stakeholder database.
	current to March 8, 2007.	

Measure 7-1.2 Communication / participation plan

The measure reads, "Development and implementation of a communication / participation plan, with early input from a range of stakeholder representatives."

Target	DFA Results
1 Plan – Date: 2006	A project was awarded, however the contractor did not meet specifications and
	therefore the contract was subsequently cancelled in 2007. The project will be re-
	tendered later in 2007.

Measure 7-1.3 Satisfaction of the Public Advisory Group

The measure reads; "The existence of an effective public advisory group indicated by the satisfaction of advisory group members."

Target	DFA Results
Satisfaction Survey –	PAG Satisfaction Surveys were conducted by the Facilitator on Oct 2005 and March
average score > 3.5	2006 with a combined average score of 4.1 and 4.3 respectively. Participants ranked
	several questions from 1=very poor, 2=poor, 3=average, 4= good and 5 = very good.
	These results show a slight increase in the PAG satisfaction over the duration of the
	PAG meetings.







Measure 7-1.4 Public Process

The measure reads; "Conduct of an open public process prior to Government approval of operational plans, or any major amendments."

Target	Canfor Results	BCTS Results
100% compliant	100% Compliant. In 2006, Canfor completed 1	100% compliant. BCTS completed a FSP
with legal	Forest Stewardship Plan and 3 amendments. All	and 1 FDP amendment.
advertising &	of these were 100% compliant with legal	
internal SOP	advertising requirements and internal operating	
	procedures.	

Measure 7-1.5 Satisfaction of Reciprocal Knowledge Exchange.

The measure reads; "Documentation of open and transparent reciprocal exchange of social values/opinions, their influence on decisions, and participant satisfaction."

Target	DFA Results
1 Process	Canfor and BCTS have a process in place to refer operational plans to stakeholders and
	First Nations through letter mailings, face to face meetings and written replies to
	comments received.

Measure 7-2.1 Public Communications

The measure reads; "The number and type of communication, extension and planning activities with the public annually about forest management plans (SFMP and operational plans) and operations."

Target	DFA Results
Minimum 5	Achieved. See table below:

Table 21. Number and type of communication activities with the public in 2006

Type of Communication, Extension or	Details	Number
Planning Activity-2006		
Public Advisory Group Meetings	Jan 24, Feb 13, March 28, June 12, Aug 28, Nov 13	6
	2006	
Ranchers Meeting	Review 2007 Planned Harvest and Range Barriers-	1
_	Ranching community and MoF- Nov 17/06	
Ranchers Field Tour	Field review to verify natural Range barriers and	1
	establish new barriers- Feldman's, Zhenders, Ministry	
	of Forests (Judy Kohorst, Phil Burke)etc.	
Ministry of Forests Tour	Timber Working Group special sawmill tour- review	1
	Canfor needs and profiles- Nov/06	
SFMP Criteria, Indicator and Monitor	Review with Parks, ENGO's, Nature Trust, Columbia	1
Initiatives Presentation	Basin Trust, etc meeting at Radium Resort.	
Forestry Tours-	Sawmill and Woodlands Operations (harvesting,	5
	silviculture, planning)	
Newspaper Articles	Sustainable Forest Management Progress Article-	1
	March 10,2006 Pioneer.	
Grand Total		16

Measure 7-2.2 Demonstration of Reciprocal Knowledge Exchange

The measure reads; "Demonstration of reciprocal knowledge exchange (i.e. Local community expresses increased knowledge of SFM and technical expert incorporates local knowledge into forest management decisions/plans)."





Target	Results
Minimum of 1 example of	The Public Advisory Group process and input is an example in 2006 that shows
reciprocal knowledge	exchange of information and knowledge on forest management issues and practices.
exchange on an annual	The details are captured in the PAG meeting minutes and PAG satisfaction surveys.
basis (increasing trend)	PAG members have shown an increased knowledge of forestry terminology, practices
_	and results.

Recommendation

- 1) Implement the components of the communication participation plan in 2007.
- 2) Combine this measure to include First Nations as outlined in Measure 8-3.1

Measure 7-3.1 Adaptive Management Strategy

The measure reads; "Adaptive Management strategy is developed, documented and acted upon that includes: and information management system; a forecasting plan; a monitoring plan; and a reporting/analysis plan."

Target	Results
1 interim target will be monitoring analysis, and	Canfor and BCTS have an adaptive management process within their respective environmental management systems (FMS/EMS).
reporting as part of SFM plan	Forecasting has been completed and a monitoring plan has been developed for the SFMP. An information management system exists and is updated
1 full strategy to be developed by 2007	regularly. Canfor and BCTS currently uses GENUS database. Analysis and reporting occur in accordance with the monitoring plans.

Recommendation:

The measure and target can be dropped from the SFMP. Adaptive management process have been developed and implemented within the Environmental Management Systems and Sustainable Forest Management Plan.

Measure 8-1.1 Affected First Nations

The measure reads; "Affected First Nations are provided the opportunity to comment on forest stewardship plans and the SFM Plan,"

Target	DFA Results
Minimum 1 opportunity	The Radium DFA has met the minimum target specified.
per plan	SFMP- Opportunity to participate and comment on SFMP provided in 2006
	FSP- Opportunity provided to all First Nations to comment on FSP and amendments in
	2006.

Recommendation:

Canfor has developed a CORE set of Indicators and measures for Criterion 8-First Nations. The PAG should review the CORE Indicators and review opportunities to streamline the measures in the current SFM plan.

Measure 8-1.2 Unresolved First Nations Treaty or Rights Disputes

The measure reads; "Absence of unresolved disputes on legally established treaty or customary use rights established through written documents related to potential conflicts."

Target	DFA Results
100% absence of	Currently there are no unresolved disputes on legally established treaty or customary
unresolved issues	use rights established through written documents related to potential conflicts for
	either Canfor or BCTS.





Measure 8-1.3 Dispute resolution regarding First Nation's rights

The measure reads; "Appropriate mechanisms established through written documents / memoranda on the methods and procedures to resolve disputes over treaty and customary rights."

	Canfor Results	BCTS Results
Target		
1 process by end	A draft 'Working Protocol Agreement' has been	BCTS/MOF have completed a draft
of 2006	completed between Canfor and the Ktunaxa	protocol agreement with Shuswap and
	Tribal Council. Current negotiations on the	working on one with KKTC
	agreement are ongoing. The agreement includes a	_
	dispute resolution mechanism. The agreement is	
	expected to be finalized in 2007.	

Measure 8-2.1 Treaty Rights and Strategies

The measure reads; "The participation by Canfor and BCTS in implementation of treaty and use rights strategies."

Target	DFA Results
100% (0) Compliance	100% compliant.

A draft 'Working Protocol Agreement' has been completed between Canfor and the Ktunaxa Tribal Council. Current negotiations on the agreement are ongoing. The agreement is expected to be finalized in 2007.

In 2006, Canfor or BCTS implemented Archeological Impact Assessments during operational planning to manage and protect archeological resources. No further opportunities were apparent in 2006 to participate in implementation of treaty and use rights strategies. However, once the Working Protocol Agreement is finalized, traditional use strategies may be implemented where applicable. Treaty negotiations are currently ongoing between the Ktunaxa and Provincial Government.

Measure 8-2.2 First Nation's Access to Forest Resources

The measure reads; "The percentage success in implementing and monitoring management practices related to not impeding access to identified resources for First Nations through strategies articulated in Forest Stewardship Plans (FSP) and/or First Nations/Licensee Agreements."

Target	DFA Results
100% (-15%)	Management practices in Canfor and BCTS have been 100% compliant with existing
	Forest Stewardship Plans and operational plans with regard to strategies to not
	impede access to identified resources for First Nations. No non-compliance or non
	conformance issues have been identified.

Recommendation

Consider clarifying the formula used to calculate the current condition for measure 8-2.2 as established practices and implemented practices are not clearly defined. The intent of the established practices is to mean the results or strategies specified in the FSP, First Nations Agreements or Contractual Agreements. This should simply be stated as such in the measure.

An alternative is to change the measure and targets from a percentage measure/target to a compliance measure/target where possible. i.e 100% can be changed to 0 compliance or conformance issues with regard to results or strategies outlined in Forest Stewardship Plans, First Nations







Agreements or Contractual Agreements. This will allow for simplified reporting and clarity of the measure in the future while maintaining the intent of the measure and target.

Measure 8-2.3 First Nations Satisfaction with Access to Forest Resources

The measure reads; "Level of satisfaction with access to forest resources is maintained and/or enhanced relative to baseline status."

Target	Results
Satisfaction is maintained	Canfor nor BCTS has not received any negative responses or complaints from First
at baseline levels with	Nation with regards to access to forest resources.
trend increasing over time	100% compliance with results and strategies outlined in FSP.

Recommendation:

The measure and target are similar to measure 7-1.5. The wording of the measure and target could be revised to match measure 7-1.5 and include First Nations interest and satisfaction.

Measure 8-3.1 Demonstration of knowledge exchange

The measure reads; "Demonstration of knowledge exchange (i.e. Local community expresses increased knowledge of SFM and forest managers express increased knowledge of culturally relevant forest uses)."

Target	Results
Minimum of 1 example of	Two examples in 2006 show exchange of information and knowledge on forest
knowledge exchange on	management issues and practices. The details are captured in the FSP review and
an annual basis	comment package for First Nations and in the draft documents produced for the
(increasing trend)	"Working Protocol Agreement".

Table 22. Number and type of communication activities with First Nations in 2006

Type of Communication, Extension or Planning Activity-2006	Details	Number
Canfor		
FSP Cultural Heritage Result or Strategy	5 meetings between Nov 2004 to Feb 2006 with various	5
Development	First Nations Bands and Councils	
Working Protocol Agreement	5 meetings in 2006 to develop a Working Protocol	5
	Agreement- required understanding and knowledge	
	exchange of First Nations values and interests.	
BCTS		
FSP Cultural Heritage Result or Strategy	2 meetings between Nov 2004 to Feb 2006 with various	2
Development	First Nations Bands and Councils	
Working Protocol Agreement	2 meetings in 2006 to develop a Working Protocol	2
	Agreement- required understanding and knowledge	
	exchange of First Nations values and interests.	
Grand Total		14

Recommendation:

The measure and target are similar to measure 7-2.2. The wording of the measure and target could be revised to match measure 7-2.2 and include First Nations knowledge exchange.

Measure 8-3.2 First Nations Cultural Values

The measure reads; "Forest management plans demonstrate consideration and accommodation of identified First Nations cultural issues by protecting or enhancing sensitive areas/features.'





Target	Canfor Results	BCTS Results
100% of forest	Operations have been 100% compliant	Operations have been 100% compliant
management	with FSP strategies and operational plans. No	with FSP strategies and operational plans. No
plans include	non-compliance or non-conformance issues	non-compliance or non-conformance issues
strategies to	have been record in 2006.	have been record in 2006.
accommodate	Number of blocks with AIA's Completed = 15	Number of blocks with AIA's Completed = 6
culturally	Number of blocks compliant with Site Plan	Number of blocks compliant with Site Plan
sensitive areas	Strategies for AIA concerns = 15	Strategies for AIA concerns = 6

Canfor has developed a result and strategy in its approved Forest Stewardship Plan to address First Nations culturally sensitive areas or features.

The Invermere TSA, and the DFA, has been subject to archaeological overview assessments involving aerial photo analysis, as well as the application of predictive models derived from the archaeological record to delineate GIS-based polygons where significant archaeological deposits or features might be present (archaeological potential mapping) (c.f. Choquette 2000). Where forestry developments are proposed within these polygons, archaeological assessments are completed to ascertain the presence, condition and character of any archaeological resources that may be present. These assessments take the form of Archaeological Impact Assessment (AIA) which involved intensive examination including test excavations by a team of archaeologists.

The results of AIA's are incorporated into operational plans and harvest strategies. Reserves or winter harvesting practices, for example, are often prescribed to protect archaeological resources that occur on a particular site.

Recommendation

An alternative is to change the measure and targets from a percentage measure/target to a compliance measure/target where possible. Ie 100% can be changed to 0 compliance or conformance issues with regard to results or strategies outlined in Forest Stewardship Plans, First Nations Agreements or Contractual Agreements. This will allow for simplified reporting and clarity of the measure in the future while maintaining the intent of the measure and target.

Measure 8-3.3 First Nations interests in Non-Timber Forest Products

The measure reads "Forest management plans demonstrate consideration and accommodation of First Nations' rights and interests in known Non-Timber Forest Products (NTFPs)."

Target	DFA Results
100% of forest management plans include strategies to accommodate rights and interests in known NTFP	Operations have been 100% compliant with FSP strategies and operational plans. No noncompliance or non-conformance issues have been record in 2006 with known Non Timber Forest Products.
	A Non Timber Forest Products plan has been completed as a FIA project in 2006/2007. The final plan was provided to Canfor on March 31, 2007.



Measure 8-4.1 First Nation Communication

The measure reads; "Accessibility of plans, maps, and/or visual simulations showing baseline cultural uses of local forest resources."





Target	Results
100% of areas	Canfor and BCTS had limited access in 2006 to plans and maps that show baseline cultural uses of local forest resources. Archeological Overview Mapping has been provided for use by the licensees.
	Canfor's Draft Working Protocol Agreement outlines the commitments to share baseline cultural information. The agreement will be finalized in 2007.

Measure 8-4.2 Communication to First Nations

The measure reads; "Accessibility of current plans, maps, and/or visual simulations prior to government approval that outline logging details such as cutting areas, road construction and include temporal aspects."

Target	Canfor Results	BCTS Results
Target 100% of plans and maps are available	All plans have been made accessible to First Nations prior to government approval. 100% compliant. In 2006, Canfor completed 1 Forest Stewardship Plan and 3 amendments. All of these were 100% compliant with legal advertising requirements and internal operating procedures. In addition, in 2007 Canfor has reviewed	BCTS Results 100 % Compliant. BCTS completed one meeting with Shuswap and KKTC as well as two referrals. Additionally, BCTS has completed referral of 2007 harvesting.
	detailed maps outlining 2007 planned cutblocks, roads and single load harvesting areas at meetings with the local First Nations (Shuswap, Akisqnuk, and Ktunaxa Tribal Council).	

Measure 8-4.3 First Nations Culturally Appropriate Communications

The measure reads; "Degree of meaningful First Nations participation enabled through culturally appropriate opportunities for inclusive participation."

Target	Canfor Results	BCTS Results
100% compliant	All plans have been made accessible to First	100% compliant. BCTS completed
with legal	Nations prior to government approval.	referrals of an FDP amendment and FSP.
# and type of	100% compliant. In 2006, Canfor completed 1	
# and type of	Forest Stewardship Plan and 3 amendments. All	
events	of these were 100% compliant with legal	
	advertising requirements and internal operating	
	procedures.	
	In addition, in 2007 Canfor has reviewed detailed	
	maps outlining 2007 planned cutblocks, roads	
	and single load harvesting areas at meetings with	
	the local First Nations (Shuswap, Akisqnuk, and	
	Ktunaxa Tribal Council).	

Table 23. Referrals to First Nations by Canfor and BCTS

Type of Event-2006	Details	Legally Required	Number
Canfor			
FSP Cultural Heritage Result or	5 meetings between Nov 2004 to Feb 2006 with	No	5
Strategy Development	various First Nations Bands and Councils		
FSP and FSP Amendment- 60 day	1 FSP and 3 amendments in 2006 each	Yes	4
review and comment period	consisting of face to face meetings with local		





Type of Event-2006	Details	Legally Required	Number
	First Nations (Shuswap, Akisqnuk, and Ktunaxa Tribal Council).		
Working Protocol Agreement	5 meetings in 2006 to develop a Working Protocol Agreement- required understanding and knowledge exchange of First Nations values and interests.	No	5
BCTS			
FSP Cultural Heritage Result or Strategy Development	2 meetings between Nov 2004 to Feb 2006 with various First Nations Bands and Councils	No	2
FSP and FSP Amendment- 60 day review and comment period	Amendments in 2006 consisted of two face to face meetings with local First Nations (Shuswap, Akisqnuk, and Ktunaxa Tribal Council).	Yes	2
Working Protocol Agreement	A meeting in 2006 to develop a Working Protocol Agreement- required understanding and knowledge exchange of First Nations values and interests.	No	1
Grand Total			19

Measure 8-4.4 First Nation's Understand the Resource Plan

The measure reads; "Degree of First Nations comprehension of management plan and monitoring information."

Target	Results
Minimum of 1 example of	For each example noted in measure 8-4.3, First Nations indicated a good
comprehension of a	understanding and comprehension of the events. This is particularly evident in the
management plan on an	FSP Amendments completed- Detailed information can be found on the operational
annual basis (increasing	files.
trend)	

Measure 9-1.1 Recreation Inventory

The measure reads; "An inventory of interpretive forest sites, recreation sites, recreation trails and features will be made."

Target	DFA Results
Maintain database as	A Database is maintained that identifies interpretive forest sites, recreation sites,
required	recreation trails and features as well as their associated management objectives. These
	features are also spatially identified.

Measure 9-1.2 Forest activities and Recreation sites and trails

The measure reads; "Existing interpretive forest sites, recreation sites and recreation trails and their associated objectives, as identified in Measure 9.1.1, will be maintained to their current condition following forestry activities in the area."

Target	DFA Results
100% compliant	100% compliance- No non-compliance or non-conformance issues have been recorded
	in 2006 to the site plans and recreation strategies or standards.





Recommendation:

Change the wording of the measure and targets from a percentage target to a compliance target where possible. Ie 100% can be changed to 0 non-compliance or non-conformance with established interpretive forest sites, recreation sites and recreation trails and their associated objectives, as identified in Measure 9.1.1, will be maintained to their current condition following forestry activities in the area. This will allow for simplified reporting in the future while maintaining the intent of the target.



Measure 9-1.3 Recreation Management Strategy

The measure reads; "Encourage and participate in the development of a strategy to balance primitive, semi-primitive and developed recreation opportunities (and associated quality of experience)."

Target	DFA Results
Encourage & participate in Recreation / Access planning	Currently, there is no process in place for either Canfor or BCTS to participate in the development of a strategy to balance primitive, semi-primitive and developed recreation opportunities. Canfor and BCTS will discuss this opportunity with the appropriate provincial government in 2007. Canfor maintains access to 1872 km of roads in its operating area. Access barriers are established on 5 roads as shown in its FSP.

Measure 9-2.1 Visual Quality Objectives

The measure reads; "The percentage that forest management complies with existing Visual Quality Objectives (VQO's) or other visual management approaches established by the BC Ministry of Forests for the area."

Target	Canfor Results	BCTS Results
100% compliance	100% compliance- No non-compliance or non-	BCTS did not have any blocks in scenic
	conformance issues have been recorded in 2006	areas.
	to the site plans and VQO strategies or standards.	

Table 24. Hectares Harvested in 2006 Compliant with RMFD VQO Objectives

Visual Quality Objective	Number of Hectares Harvested within VQO	Compliance with VQO
Preservation	0	N/A
Retention	0	N/A
Partial Retention	37.9	37.9
Modification	14.9	14.9
TOTAL	52.8	52.8

Measure 9-2.2 Visual Stewardship

The measure reads; "In areas outside established VQOs but in community viewsheds or major travel corridors to recreation use areas, demonstration of visible stewardship (i.e. explanatory signage, high standards of clean-up along roadsides, landscape design procedures, and modified harvesting procedures)"





Target	Canfor Results	BCTS Results
Demonstration of appropriate	No non-compliance or non-	BCTS did not have any blocks in
practices to manage localized	conformance issues have been	scenic areas.
visuals. Documentation of	recorded in 2006 to the site plans	
mechanism.	and VQO strategies or standards.	
	Site plans in the Dunbar-Templeton	
	landscape unit have demonstrated	
	appropriate visual management	
	strategies.	

Table 25. Hectares Harvested in 2006 Compliant with Canfor VQO Objectives (non-legal)

Visual Quality Objective	Number of Hectares Harvested within VQO	Compliance with VQO
Preservation	4.5	4.5
Retention	0	N/A
Partial Retention	22.9	22.9
Modification	0	N/A
TOTAL	27.4	27.4

Measure 9-3.1 New unique or significant places.

The measure reads; "Identify and track existing or new unique or significant places and features and protected areas."

Target	Canfor Results	BCTS Results
1	A list and database is established and maintained	East Kootenay data centre
list/database	that quantifies and tracks existing or new unique	
	sites, features and protected areas. The number of	
	sites by type is identified in the table below.	

Table 26. Canfor summary of Unique site, features and protected areas

Description	Number or Location in DFA	Management Practices
Large Scale Spatial Coverages		
AOA polygons	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.2.10
RMA attributes	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.2.4
Fisheries sensitive watershed	Palliser Landscape Unit- Palliser River	Management practices are contained within the FSP section 6.1.2.6
Community and Domestic watersheds	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.2.5 and 6.1.1.6
High Conservation Value Forest	Scattered throughout DFA	Management practices are contained within SFMP appendix 1.8
Mature management areas	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.1.2
Old growth management areas	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.1.2
Water- Consumptive use points of diversion	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.1.6
Visual landscape Inventory	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.3.5
Caribou Habitat areas	South end of DFA	Management practices are contained within the FSP section 6.1.1.3
Grizzly bear Habitat	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.1.4
Ungulate Winter Range	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.3.3
Wildlife Habitat areas	Scattered throughout DFA	Management practices are contained within the FSP section 6.1.3.2
Wildlife Tree Patches	Scattered throughout DFA - Total # 436	Reserved from Harvest





Point Features		
Historic Cabins	6	Reserved from Harvest
Known Den Sites	9	Reserved from Harvest
Historic Features	4	Reserved from Harvest
Animal Licks or Rubs	8	Reserved from Harvest
Important Nest Sites eg Goshawk	10	Reserved from Harvest
Rare Plant Species	1	Reserved from Harvest
Animal Wallows	2	Reserved from Harvest

Measure 9-3.2 Special Sites and Protected Areas

The measure reads; "Quantify area/number of special sites and protected areas under management practices to protect features and values"

Target	Results
1 description per	A list and database is established
unique site or	and maintained that describes the
feature	strategies to maintain the values
	for existing or new unique sites,
	features and protected areas. See
	Table Above

Recommendation:

Now that the targets for measure 9-3.2 and 9-3.1 have been achieved, the two measures could be streamlined into one measure that is similar to measure 9-1.2. A suggested measure could be 'Existing unique sites, features and protected areas and their associated objectives, will be managed according to their associated management strategies during primary forest activities in the area'. The target could be 'Zero non-conformance or non-compliance with management strategies'



Measure 9-4.1 Safety Policies

The measure reads; "Written safety policies in place and full implementation is documented"

Target	Canfor Results	BCTS Results
1 policy – in	A divisional and corporate safety policy is in	A divisional and corporate safety policy is in
place by July	place and it has been administered to all	place and it has been administered to all
2006	workers.	workers.

Measure 9-4.2 Safety incident occurrence

The measure reads; Safety incident occurrence and reasons documented and summarized.

Target	Canfor Results	BCTS Results
One Annual	See Below	BCTS staff did not incur an incident last year.
summary of		
incidents/year		





Figure 11. Canfor Staff Health and Safety Statistics

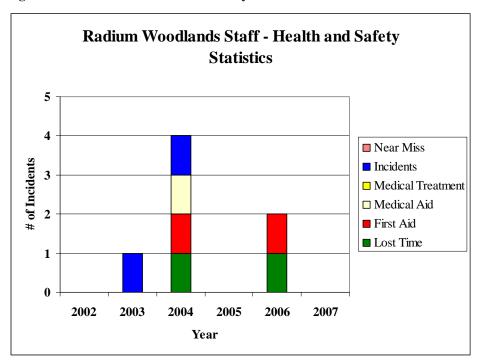


Figure 12. Canfor Contractors Health and Safety Statistics

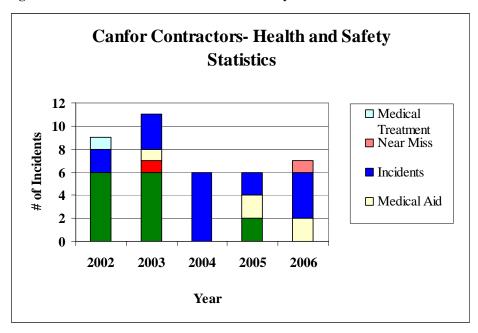






Figure 13. Canfor 2006 Road Safety Audits

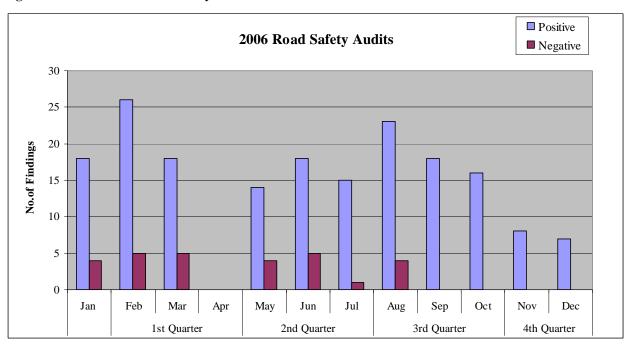
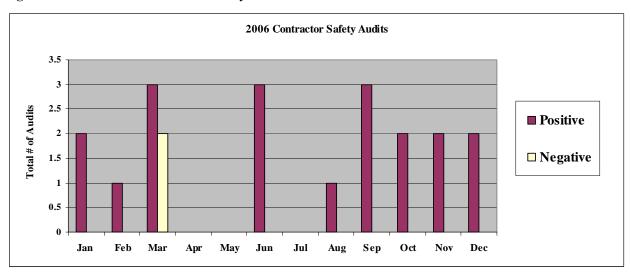


Figure 14. Canfor 2006 Contractor Safety Audits



Measure 9-4.3 Safety Incidences

The measure reads; "Number a safety incidences occurring in the bush related to forest management practices (i.e. not related to machinery or human error) decline relative to baseline."

Target	Canfor Results	BCTS Results
Maintain or improve safety record relative to	Safety incidents for woodlands staff has decreased from a baseline average of 0.4 incidents since 2002 to 0 in 2006.	BCTS had no incidents in 2005 or 2006
baseline		
	Safety incidents for contractors have increased	
	slightly in 2006 to 4 incidents relative to an	
	average baseline of 3.4 incidents in since 2002.	





Measure 9-5.1 Hydrological Assessments

The measure reads; "Hydrological Assessments are completed and regularly updated by a Qualified Registered Professional (QRP) in consumptive use watersheds."

Target	Canfor Results	BCTS Results
Operational plans	The number of cutblocks within Domestic or	BCTS had no blocks in domestic or
follow the	Community Watersheds in 2006 = 5	community watersheds
recommendations in		
the Hydrological	All cutblocks within Domestic or Community	
Assessment and if	Watersheds are 100% compliant with the	
indicated, Channel	requirements of site plans which have	
Assessments and/or	incorporated recommendations from	
Drainage Plans are	hydrological assessments. No non-compliance	
completed by a QRP	or non-conformances were recorded in 2006	
	with regard to site plan commitments and water.	

Measure 9-5.2 Riparian Management

The Measure reads; "Percent of primary forest activities consistent with riparian management strategies for reserve and management zones specified in a FSP."

Target	DFA Results
100% compliant with FSP	All cutblocks are 100% compliant with the requirements of site plans which have
riparian strategies	incorporated riparian management strategies as required by the Forest Stewardship
	Plan. No non-compliance or non-conformances were recorded in 2006 with regard to
	site plan commitments and riparian strategies.

Recommendation

Change the targets from a percentage target to a compliance target where possible. i.e. 100% can be changed to 0 non-compliance or non-conformances with site plan and Forest Stewardship Plan riparian management strategies. This will allow for simplified reporting in the future while maintaining the intent of the measure and target.







Measure 9-5.3 Stream crossings

The measure reads; "Stream crossings are established and maintained according to the requirements for each stream class."

Target	DFA Results
100% compliance with	All stream crossings are 100% compliant with the requirements of road permits and
stream crossing	site plans which have incorporated riparian management strategies as required by the
requirements	Forest Stewardship Plan. No non-compliance or non-conformances were recorded in
	2006 with regard to plan commitments and riparian strategies.

Recommendation

Change the targets from a percentage target to a compliance target where possible. i.e. 100% can be changed to 0 non-compliance or non-conformances with road permits, site plans and Forest Stewardship Plan riparian management strategies. This will allow for simplified reporting in the future while maintaining the intent of the measure and target.





6. Summary of Recommendations

The following table of recommendations are an integral part of the continual improvement process and will be considered by the Radium Public Advisory group.

#	Measure	Recommendation
1	Measure 1-1.1 Ecosystem Representation	Change the targets from a percentage target to a compliance target where possible i.e. 100% can be changed to 0 ha harvested in rare ecosystem clusters. This will allow for simplified reporting in the future while maintaining the intent of the target. Adjust wording within the target to be consistent with the ecosystem tables; 25% of common ecosystem clustersshould be "low representation ecosystem groups".
2	Measure 1-4.1 Parks, reserves, protected areas	Change the wording of the measure and targets from a percentage target to a compliance target where possible. Ie 100% can be changed to 0 ha of forest management activities in non-compliance with established objectives for parks, reserves, protected areas, biologically significant areas and including areas with specific wildlife management plans. This will allow for simplified reporting in the future while maintaining the intent of the target.
3	Measure 1-5.2 Natural regeneration	Change the reporting formula to the following to simplify data collection: Formula: %PNR =5 year avg.(TSPH-Planted SPH)/TSPH*100 Variables: %PNR- Percentage of natural regen in prescribed areas
4	Measure 2-1.1 Interim measure, Site index	Discuss alternative measures to evaluate changes to site productivity. Changes in SI on FG blocks is more likely due to changes in SI measurement and inventory typing than anything else.
<u>5</u>	Measure 2-2.1 Areas converted to non-forest	Currently, information on permanent access structures is being quantified for the Invermere TSA through a multi year project which is to be completed by March 2008. The final results of this project will provide an accurate estimate of the area of THLB converted to non-forest land use through forest management activities in the Invermere TSA. The results will be used in the next TSR analysis.
<u>6</u>	Measure 2-2.2 Roads and Landings	Currently, information on permanent access structures is being quantified for the Invermere TSA through a multi year project which is to be completed by March 2008. The final results of this project will provide an accurate estimate of the area of THLB converted to non-forest land use through forest management activities in the Invermere TSA. The results will be used in the next TSR analysis.
7	Measure 3-1.2 Estimated Carbon in non-tree Vegetation	Corporately, Canfor is reviewing the Carbon budget model (CBM) from Canadian Forest Service to determine its applicability for many of Canfor's operations, including the Radium DFA. Currently, the model is not capable of





	1	
		dealing with carbon stored in non-tree vegetations. This component of
		forecasting is undergoing further study by Canfor.
		The target for this measure needs to be changed to 2008.
8	Measure 3-2.1 The forest products carbon pool is maintained or	Corporately, Canfor is reviewing the Carbon budget model (CBM) from Canadian Forest Service to determine its applicability for many of Canfor's operations, including the Radium DFA. Currently, the model is not capable of dealing with carbon stored in Forest Products. This component of forecasting is undergoing further study by Canfor. The appropriate measure and target will be determined by April 2008.
9	Measure 4-2.1 Direct Employment in the Forest Sector	The target for local employment needs to be adjusted to 169 py as the local statistics used the regional multiplier with the DFA harvest levels. The 92 py target was double adjusted for the DFA which is incorrect
<u>10</u>	Measure 4-2.2 Direct Income in the Forest Sector	The target for local income needs to be adjusted to \$7,424,905 as the local statistics used the regional multiplier with the DFA harvest levels. The \$4,036,000 target was double adjusted for the DFA which is incorrect.
11	Measure 4-2.3 Indirect/Induced employment and income	The targets for local indirect/induced employment need to be adjusted to 62 py as the local statistics used the regional multiplier with the DFA harvest levels. The 34 py target was double adjusted for the DFA which is incorrect. Similarly, the targets for indirect/induced income needs to be adjusted to \$1,957,192 as the local statistics used the regional multiplier with the DFA harvest levels. The \$1,063,883 target was double adjusted for the DFA which is incorrect.
12	Measure 4-2.4 Local contributions of spending	BCTS expenditures cannot be directed to a particular geographic area since they openly bid out our work, The recent inter provincial trade agreement further expands the are BCTS must advertise their work. Design a measure in a form that BCTS can evaluate a trend of local expenditures.
<u>13</u>	Measure 4-5.1 Timber Supply Certainty	The measure and target are the same as measure 4-1.1. The wording of the measure and target should be revised to match measure 4-1.1 or visa versa.
<u>14</u>	Measure 4-5.2 Economic Sustainability	Include a measure that is applicable to BCTS.
<u>15</u>	Measure 4-6.2 Natural Disturbance Events	The measure and target are the same as measure 2-5.1. The wording of the measure and target should be revised to match measure 2-5.1 or visa versa.
<u>16</u>	Meaure 5-1.2 Commercial Non- Timber Forest Values	Measure 5-1.1 and Measure 5-1.2 are process measures that have been achieved in 2007. These measures can now be combined into one measure and target for the DFA that attempts to manage and sustain commercial non-timber forest products.
<u>17</u>	Measure 7-2.2 Demonstration of Reciprocal Knowledge Exchange	Recommendation 1) Implement the components of the communication participation plan in 2007. 2) Combine this measure to include First Nations as outlined in Measure 8-3.1
18	Measure 7-3.1 Adaptive Management Strategy	The measure and target can be dropped from the SFMP. Adaptive management process have been developed and implemented within the Environmental Management Systems and Sustainable Forest Management Plan.





4.0	3.5	
<u>19</u>	Measure 8-1.1 Affected	Canfor has developed a CORE set of Indicators and measures for Criterion 8-
	First Nations	First Nations. The PAG should review the CORE Indicators and review
		opportunities to streamline the measures in the current SFM plan.
<u>20</u>	Measure 8-2.2 First	Consider clarifying the formula used to calculate the current condition for
	Nation's Access to	measure 8-2.2 as established practices and implemented practices are not clearly
	Forest Resources	defined. The intent of the established practices is to mean the results or strategies
		specified in the FSP, First Nations Agreements or Contractual Agreements. This
		should simply be stated as such in the measure.
		An alternative is to change the measure and targets from a percentage
		measure/target to a compliance measure/target where possible. i.e 100% can be
		changed to 0 compliance or conformance issues with regard to results or
		strategies outlined in Forest Stewardship Plans, First Nations Agreements or
		Contractual Agreements. This will allow for simplified reporting and clarity of
		the measure in the future while maintaining the intent of the measure and target.
21	Measure 8-2.3 First	The measure and target are similar to measure 7-1.5. The wording of the
	Nations Satisfaction	measure and target could be revised to match measure 7-1.5 and include First
	with Access to Forest	Nations interest and satisfaction.
	Resources	
<u>22</u>	Measure 8-3.1	The measure and target are similar to measure 7-2.2. The wording of the
	Demonstration of	measure and target could be revised to match measure 7-2.2 and include First
	knowledge exchange	Nations knowledge exchange.
<u>23</u>	Measure 8-3.2 First	An alternative is to change the measure and targets from a percentage
	Nations Cultural	measure/target to a compliance measure/target where possible. Ie 100% can be
	<u>Values</u>	changed to 0 compliance or conformance issues with regard to results or
		strategies outlined in Forest Stewardship Plans, First Nations Agreements or
		Contractual Agreements. This will allow for simplified reporting and clarity of
	1.5	the measure in the future while maintaining the intent of the measure and target.
<u>24</u>	Measure 9-1.2 Forest	Change the wording of the measure and targets from a percentage target to a
	activities and	compliance target where possible. Ie 100% can be changed to 0 non-compliance
	Recreation sites and	or non-conformance with established interpretive forest sites, recreation sites and
	<u>trails</u>	recreation trails and their associated objectives, as identified in Measure 9.1.1,
		will be maintained to their current condition following forestry activities in the
		area. This will allow for simplified reporting in the future while maintaining the
25	Magazana 0 2 2 C 1	intent of the target.
<u>25</u>	Measure 9-3.2 Special	Now that the targets for measure 9-3.2 and 9-3.1 have been achieved, the two
	Sites and Protected	measures could be streamlined into one measure that is similar to measure 9-1.2.
	Areas	A suggested measure could be 'Existing unique sites, features and protected
		areas and their associated objectives, will be managed according to their
		associated management strategies during primary forest activities in the area'.
		The target could be 'Zero non-conformance or non-compliance with management
<u>26</u>	Measure 9-5.2	strategies' Change the targets from a percentage target to a compliance target where
20	Riparian Management	possible. i.e. 100% can be changed to 0 non-compliance or non-conformances
	inparian management	with site plan and Forest Stewardship Plan riparian management strategies. This
		will allow for simplified reporting in the future while maintaining the intent of
		the measure and target.
<u>27</u>	Measure 9-5.3 Stream	Change the targets from a percentage target to a compliance target where
_	crossings	possible. i.e. 100% can be changed to 0 non-compliance or non-conformances
		with road permits, site plans and Forest Stewardship Plan riparian management
		strategies. This will allow for simplified reporting in the future while
		maintaining the intent of the measure and target.



