

PRINCE GEORGE SUSTAINABLE FOREST MANAGEMENT PLAN
CRITERIA, ELEMENTS and VOIT PERFORMANCE TABLE
Version 2010.1

REVISION TABLE

Date	Indicator	Previous Description	Revised Description	Rational	PAG Consensus / Agreement Date
January 15, 2006	Indicator 31 (6.3.A.a.i)	Variance is -30%	Variance is -20%	To be consistent with PAG satisfaction chart	February 9, 2006
February 7, 2006	Indicator 32 (4.2.A.a.ii)	New	The total percent of forested land within the Timber Harvesting Landbase that is converted to non-forested land.	As per auditor recommendation.	February 9, 2006
June 8, 2006	Indicator 27 (3.2.A.a.iv)	Natural Drainage Variance is -5.0%	Variance is 0.0%	This is a legal requirement. No variance is allowed.	June 8, 2006
June 8, 2006	Indicator 53 (6.3.A.a.iii) # PAG meetings	Target is ≥ 1 Variance is 0	Target is ≥ 3 Variance is -1	More than one PAG meet is being scheduled throughout the year	June 8, 2006
June 8, 2006	Indicator 35 (5.1.A.b.i) (5.1.A.b.ii) (5.1.A.b.iii) (5.1.A.b.iv) (5.1.A.b.v) (5.1.A.b.vi)	These are separate indicators for the following requirements: visual, cultural, range, riparian, recreation and lakeshore requirements. For example: The percentage of forest operations consistent with visual quality requirements as identified in operational plans.	5.1.A.b.i. – Non-Timber Benefits The percentage of forest operations consistent with visual, cultural heritage, range, riparian, recreation and lakeshore requirements as identified in operational plans.	Combining these 6 indicators into one indicator would streamline the reporting of these indicators and reduce the space they take in the annual report.	June 8, 2006
June 8, 2006	Indicator 8 (1.2.A.a.i) (1.2.A.a.ii) (1.2.A.a.iii) (1.2.A.a.iv)	These are separate indicators for the following requirements: Caribou UWR, Mule Deer UWR, Species at Risk Notice/Orders, Riparian Reserve Requirements. For example: The percentage of forest operations consistent with approved provincial Caribou Ungulate Winter Range requirements as identified in operational plans.	1.2.A.a.i – Species Diversity and Ecosystem Productivity The percentage of forest operations consistent with approved Caribou UWR, Mule Deer UWR, Species at Risk Notice/Orders and Riparian Reserve requirements as identified in operational plans.	Combining these 4 indicators into one indicator would streamline the reporting of these indicators and reduce the space they take in the annual report.	June 8, 2006
June 8, 2006	Indicator 8 (2.2.A.a.i) (2.2.A.a.ii), (2.2.A.a.iii) (2.2.A.a.iv)	These are separate indicators for the following requirements: Caribou UWR, Mule Deer UWR, Species at Risk Notice/Orders, Riparian Reserve Requirements. For example: The percentage of forest operations consistent with approved provincial Caribou Ungulate Winter Range requirements as identified in operational plans.	2.2.A.a.i – Species Diversity and Ecosystem Productivity The percentage of forest operations consistent with approved Caribou UWR, Mule Deer UWR, Species at Risk Notice/Orders and Riparian Reserve requirements as identified in operational plans.	Combining these 4 indicators into one indicator would streamline the reporting of these indicators and reduce the space they take in the annual report.	June 8, 2006
June 8, 2006	All	Alpha numeric numbering system. Eg. 1.2.A.a.i, 5.1.A.b.ii, etc.	Maintain numbering system e.g. 1,2,3,4,5,6,7,etc. and Alpha numeric numbering system. Eg. 1.2.A.a.i, 5.1.A.b.ii, etc.	To make referencing indicators much easier.	June 8, 2006
June 8, 2006	Indicator 32 (4.2.A.a.ii)	THLB Conversion	Add wording to comments – show amount of permanent access structures constructed during reporting year to the annual report.	This is intended to address mid-term THLB conversion.	June 8, 2006
Nov 2, 2006	Indicator 32 (4.2.A.a.ii)	None	Example calculation Road widths	Requested by PAG	November 2, 2006

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Date	Indicator	Previous Description	Revised Description	Rational	PAG Consensus / Agreement Date
			FSR=25Meters, Road permit= 15M, On block= 10 M, Non-status= 13 meters If Road lengths are FSR= 200 km, RP=300 km, On block = 400km, non status= 500 km and if THLB = 50,000 ha. Then % roads is (200,000 X 25 + 300,000 X 15 + 400,000 X 10 + 500,000 X 13) / 10,000= 2000 ha. Road % is 2,000 / 50,000 = 4.0%		
Nov 2, 2006	Indicator 32 (4.2.A.a.ii)	Target = ≤ 5.0% (variance of +0.0%)	Target = ≤ 4.0% (variance of + 0.5%)		November 2, 2006
January 18, 2007	Indicator 28 (3.2.A.a.v)	Measure the regenerated area (ha) and compare it to the previous areas (ha) harvested.	Percent of net area regenerated within 3-years after the commencement of harvesting Target 100% Variance -10%	As suggest by auditors	January 18, 2007
January 18, 2007	Indicator 28 (4.1.A.a.i)	Percent of net area regenerated within 3-years after the completion of harvesting	Percent of net area regenerated within 3-years after the commencement of harvesting Target 100% Variance -10%	As suggest by auditors	January 18, 2007
January 18, 2007	Indicator 28 (5.1.A.a.ii)	Measure the regenerated area (ha) and compare it to the previous areas (ha) harvested.	Percent of net area regenerated within 3-years after the commencement of harvesting Target 100% Variance -10%	As suggest by auditors	January 18, 2007
January 18, 2007	Indicator 5 (1.1.A.a.v) (1.3.A.b.i)		Add to comments section: <i>>7.0 % is averaged over all blocks harvested in each reporting period. Minimum 3.5% applies to blocks ≥15.0 ha harvested in each reporting period. Licensees and BCTS to report out on retention in all blocks less than 15ha.</i>	Rationale provided at PAG Meeting	January 18, 2007
June 21, 2007	Indicator 56 (3.2.A.a.vii)	None. New Indicator.	vii. The percent of active watersheds with PFI greater than the minimum threshold that have had a watershed risk evaluation complete. Target 100% Variance -10%	To add an indicator to the plan that addresses water quantity in the DFA.	June 21, 2007
June 21, 2007	Indicator 57 (3.2.A.a.viii)	None. New Indicator.	viii. The percent of active high risk watersheds that are assessed by a qualified professional. Target 100% Variance 0%	To add an indicator to the plan that addresses water quantity in the DFA.	June 21, 2007
June 21, 2007	Indicator 58 (3.2.A.a.ix)	None. New Indicator.	ix. Percent of active operations within high risk watersheds that are consistent with recommendations of Hydrologic assessments. Target 100% Variance 0%	To add an indicator to the plan that addresses water quantity in the DFA.	June 21, 2007

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Date	Indicator	Previous Description	Revised Description	Rational	PAG Consensus / Agreement Date
	Indicators 39, 40, 41 (5.1)		New Objective: c. Maintain opportunities to access non-timber benefits by ensuring that individuals and stakeholders who have expressed an identified interest in the planning area (e.g. guides, trappers, recreationists, water licensees, mining tenure holders etc.) are specifically communicated with, during forest planning		Oct 18, 2007
Oct 18, 2007	Indicator 39 (5.1.A.b.v)	Annually provide a viewing of BCTS and Licensee current access plans of the DFA.	Annually provide a viewing of BCTS and Licensee current access plans, general forest planning and operational plans, and Sustainable Forest Management Plans in of the DFA. Add to comments: Expanding this indicator to include not only access plans, but also operational activities and SFM plans may help to increase the general public and PAG members' awareness and understanding of the forest planning and management process that is integral to access management. This will also provide members of the public an opportunity to establish communication strategies with the companies.		Oct 18, 2007
Oct 18, 2007	Indicator 40 (5.1.A.b.vi)	none	Add to comments: Licensees will track and report out on the number of access management inquiries vs. forest planning and operational activity inquiries in order to monitor and address the level of access management concerns over time.	To monitor and report access management concerns over time. The next version of the SFMP will be revised to incorporate these changes.	Oct 18, 2007
Oct 18, 2007	Indicator 41 (5.1.A.b.vii)	none	Add to comments: Licensees will solicit and invite non timbered tenure holders (without a current and established communication strategy) to establish communication strategies with the companies. This invitation will occur every 2 years and will provide for an increased effort to communicate and address access and other issues with resource users.	To provide for an increased effort to communicate and address access and other issues with resource users.	Oct 18, 2007
January 24, 2008	Indicator 1 (1.1.A.a.i)	None	Implement Management Strategy for Old Forest Quality A. Licensees and BCTS will implement the old forest quality model as a tool in operational planning. B. Annually monitor and report out on the area of Good to Best Old Forest Quality Rankings by NDU merged BEC in the Prince George Forest District. C. To revisit the model periodically when improved inventory data sets are available specifically to update intrinsic indicators and rankings.	Develop a strategy rather than an indicator at this time in order to implement and monitor a relatively new model and concept into the Licensee and BCTS Planning regime. Continue to monitor the Old Forest through the LOWG process and in addition report out the amount of Good to Best Old Forest quality rankings in the Prince George Forest District. In monitoring the amount of area over time, Licensees and BCTS will be able to utilize these areas in day to day planning activities, and report back to the PAG how the model is working and where it might need refinements based on some stand level information.	January 24, 2008

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Date	Indicator	Previous Description	Revised Description	Rational	PAG Consensus / Agreement Date
January 24, 2008	Indicator 29 (3.2.A.a.vi)	None	Removed and replaced by Indicators 56, 57 & 58	Peak flow calculations completed.	January 24, 2008
March 6, 2008	Indicator 9, (1.2.A.a)	Percent of appropriate personnel trained to identify Species at Risk.	none	Replaced with consolidated indicator #59	March 6, 2008
March 6, 2008	Indicator 10 (1.2.A.a)	Percent of Species at Risk that have management strategies developed by April 2006.	none	Replaced with consolidated indicator #59	March 6., 2008
March 6, 2008	Indicator 11 (1.2.A.a)	Percentage of forest operations consistent with Species at Risk management strategies as identified in operational plans.	none	Replaced with consolidated indicator #59	March 6, 2008
March 6, 2008	Indicator 12 (1.2.A.a)	Percent of site plans reviewed by a person trained in Species at Risk.	none	Replaced with consolidated indicator #59	March 6,2008
March 6, 2008	Indicator 13 (1.2.A.a)	Percent of site plans with identified Species at Risk that have appropriate management strategies	none	Replaced with consolidated indicator #59	March 6, 2008
March 6, 2008	Indicator 15 (1.4.A.a)	Percent of appropriate personnel trained to identify sites of special biological significance	none	Replaced with consolidated indicator #59	March 6, 2008
March 6, 2008	Indicator 16 (1.4.A.a)	Percent of sites of biological significance that have management strategies developed by April 2006.	none	Replaced with consolidated indicator #59	March 6, 2008
March 6, 2008	Indicator 17 (1.4.A.a)	Percentage of forest operations consistent with sites of biological significance management strategies as identified in operational plans.	none	Replaced with consolidated indicator #59	March 6, 2008
March 6, 2008	Indicator 59 (1.2.A.a, 1.4.A.a)	<ul style="list-style-type: none"> None. New Indicator. 	Percentage of forest operations that adhere to licensee specific management strategies for: <ul style="list-style-type: none"> Species at Risk (plants, plant communities, and important wildlife, fish, and bird species); and Sites of Biological Significance 	Consolidation of, and replacement for, Indicators 9,10,11,12,13,15,16, and 17.	March 6, 2008
January 12, 2010	Indicator 23	Variance: ≤ 5 Annually	Variance: ≤ 3 Annually	Target is still "0" but tolerance is cumulative	January 12, 2010
January 12, 2010	Indicator 34	Target: <100 ha Annually	Target: <60 ha Annually	Target is cumulative for all licensees. Variance is unchanged.	January 12, 2010

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PERFORMANCE TABLE

Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
1.	1.0 Conservation of Biological Diversity	1.1 Ecosystem Diversity	A. Well balanced and functioning ecosystems that support natural processes	a. Maintain landscapes that support the natural diversity, variety and pattern of ecosystems	Indicator 1 The amount of old forest by NDU/ merged BEC within the DFA.	Targets set as per the "Landscape Biodiversity Objectives for the PG TSA"	0%	<p>Landscape Biodiversity Order (LBO) for the PG TSA can be found at the following website: http://ftp.prg.env.gov.bc.ca/pub/outgoing/requests/Oct2004_PG%20TSA_Biodiversity_Order</p> <p>Report back annually on the current status of the objective (tables and maps showing locations of old forest and old interior forest areas).</p> <p>Members of the public who want to provide input on high quality old forest should inform the respective licensee for documentation.</p> <p>PAG Consensus</p> <p>Implement Management Strategy for Old Forest Quality</p> <p>A. Licensees and BCTS will implement the old forest quality model as a tool in operational planning.</p> <p>B. Annually monitor and report out on the areas of Good to Best Old Forest Quality Rankings by NDU merged BEC in the Prince George Forest District.</p> <p>C. To revisit the model periodically when improved inventory data sets are available specifically to update intrinsic indicators and rankings.</p> <p>PAG Agreement with two objections</p>
2.					Indicator 2 The amount of interior old forest by NDU/merged BEC within the DFA.	Targets set as per the "Landscape Biodiversity Objectives for the PG TSA"	0%	<p>Ensure that large patches are designed to ensure that patch/landscape retains values that are required by species that are dependent on that patch.</p> <p>PAG Consensus</p> <p><u>Comment Suggestion from Dave King</u> - Ensure large patches are designed to retain values required by species dependent on large patches</p>
3.					Indicator 3 The young patch size distribution by NDU within the DFA.	Targets set as per the "Landscape Biodiversity Objectives for the PG TSA"	±15%	<p>PAG Recommendation: In the Wet Trench and Wet Valley NDU's limit 60% of patch sizes to range of 101 to 500 ha size category. Licensees to refer to regional ecologist for further input.</p> <p>PAG Consensus</p> <p><u>Comment Suggestion from Dave King</u> ... of patch sizes 101- 500 ha.</p>

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
4.					Indicator 4 The amount of landscape-level biodiversity reserves within the DFA.	Area set aside to maintain natural forest conditions across the DFA as per the latest PG TSR	-1%	Refers to OGMA's, and areas not managed by MOF (parks, recreation areas, new protected areas, Herrick Old Growth Reserve). Is intended to remain constant over time. – PAG consensus to change 224,879.57 ha – Recreation, Parks, 4,480.59 ha – Herrick Old Growth Reserve 123,577.00 ha – OGMA's (Dome, Slim & Humbug) <u>44,908.56 ha – New Protected Areas</u> 397845.72 ha – Total Show total area of DFA, PG Forest District, and Forest Harvesting Land base. PAG Consensus
5.					Indicator 5 The average percentage of stand level retention in harvested areas within the DFA.	Target: > 7% Annually within the DFA (minimum of 3.5% by block, no maximum %)	0%	Process for monitoring and tracking will be identified in the SFMP. In the SFMP, provide comments on the process for maintaining the representativeness of what was in the stand and priorities for other values. PAG Agreement with one objection <i>>7.0 % is averaged over all blocks harvested in each reporting period. Minimum 3.5% applies to blocks ≥15.0 ha harvested in each reporting period. Licensees and BCTS to report out on retention in all blocks less than 15ha. PAG Agreement with one objection.</i>
6.					Indicator 6 Trend towards the percentage of area of patches in 101-500ha range within the Wet Trench and Wet Mountain of the young patch size distribution class 101-1000ha.	75%	-5%	Wet Trench includes Valley and Mountain. PAG Consensus <u>Comment Suggestion from Dave King</u> Refer to 1.1.A.a.iii (Young Patch size distribution)
7.					Indicator 7 Percentage of cut blocks consistent with coarse woody debris requirements in operational plans.	100% of blocks will be consistent with coarse woody debris requirements contained in operational plans	0%	Efforts should be made to ensure that operational plans are based on research by ecosystem within the DFA to accommodate fauna, flora and soil dynamics. PAG Consensus

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
8.		1.2 Species Diversity	A. Sustainable populations of flora and fauna native to the DFA	a. Maintain habitat to support flora and fauna native to the DFA	Indicator 8 The percentage of forest operations consistent with approved Caribou UWR, Mule Deer UWR, Species at Risk Notice/Orders and Riparian Reserve requirements as identified in operational plans.	100% Annually	0%	To be reviewed upon pending government direction regarding species at risk. PAG Consensus
9.					Indicator 59 Percentage of forest operations that adhere to licensee specific management strategies for: Species at Risk (plants, plant communities, and important wildlife, fish, and bird species); and Sites of Biological Significance	100 %	-5%	Concerns with the training for SAR and SBS still being carried out - Explained that this is captured in the LSC Training Needs Matrix. To have the process explained out in detail in the SFMP Indicator write-up. To have the training component referred to in the SFMP. Want a movement towards a formal evaluation and effectiveness of the training. Would like to see a certificate of training reviewed by a supervisor. Invitation made to the PAG to attend a SAR workshop in the Spring 2008. This new indicator will be effective for the June 2008 annual report PAG Agreement with 1 objection
10.		1.3 Genetic Diversity	A. Genetic Diversity	a. Maintain natural genetic diversity	Indicator 4 The amount of landscape-level biodiversity reserves within the DFA.	Area set aside to maintain natural forest conditions across the DFA as per the latest PG TSR	-1%	Refers to OGMA's, and areas not managed by MOF (parks, recreation areas, new protected areas, Herrick Old Growth Reserve). Is intended to remain constant over time. – PAG consensus to change 224,879.57 ha – Recreation, Parks, 4,480.59 ha – Herrick Old Growth Reserve 123,577.00 ha – OGMA's (Dome, Slim & Humbug) <u>44,908.56 ha – New Protected Areas</u> 397845.72 ha – Total Show total area of DFA, PG Forest District, and Forest Harvesting Land base. PAG Consensus (repeat indicator)

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
11.				b. Sustain natural genetic diversity on harvested Areas	Indicator 5 The average percentage of stand-level retention in harvested areas within the DFA.	≥ 7% Annually within the DFA (minimum of 3.5% by block, no maximum %)	0%	<p>Process for monitoring and tracking will be identified in the SFMP.</p> <p>In the SFMP, provide comments on the process for maintaining the representativeness of what was in the stand and priorities for other values.</p> <p>PAG Agreement with one objection</p> <p>>7.0 % is averaged over all blocks harvested in each reporting period. Minimum 3.5% applies to blocks ≥15.0 ha. harvested in each reporting period. Licensees and BCTS to report out on retention in all blocks less than 15ha. PAG Agreement with one objection.</p>
12.					Indicator 14 Percent compliance with Chief Forester's Standards for Seed Use.	100%	0%	<p>In the SFMP identify the process for assuring seed for seedlings</p> <p>Add to the CI matrix the issue of climate change and planting of the same mix of species or monocultures.</p> <p>PAG Consensus</p>
13.		1.4 Protected Areas and Sites of Special Biological Significance	A. Appropriate Management to Conserve Identified Sites of Special Biological Significance	a. Sites of special biological significance are identified and appropriately managed	Indicator 59 Percentage of forest operations that adhere to licensee specific management strategies for: <ul style="list-style-type: none"> Species at Risk (plants, plant communities, and important wildlife, fish, and bird species); and Sites of Biological Significance 	100%	-5%	<p>Concerns with the training for SAR and SBS still being carried out - Explained that this is captured in the LSC Training Needs Matrix.</p> <p>To have the process explained out in detail in the SFMP Indicator write-up. To have the training component referred to in the SFMP.</p> <p>Want a movement towards a formal evaluation and effectiveness of the training. Would like to see a certificate of training reviewed by a supervisor.</p> <p>Invitation made to the PAG to attend a SAR workshop in the Spring 2008.</p> <p>This new indicator will be effective for the June 2008 annual report</p> <p>PAG Agreement with 1 objection</p>

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
14.			B. Protected Areas	a. Protected Areas are identified and appropriately managed	Indicator 18 Hectares of unauthorized forestry related harvesting or road construction within landscape-level biodiversity reserves.	0 ha	0 ha	Refers to OGMA's, and areas not managed by MOF (parks, recreation areas, new protected areas, Herrick Old Growth Reserve). Is intended to remain constant over time. – PAG consensus to change 224,879.57 ha – Recreation, Parks, 4,480.59 ha – Herrick Old Growth Reserve 123,577.00 ha – OGMA's (Dome, Slim & Humbug) <u>44,908.56 ha – New Protected Areas</u> 397845.72 ha – Total Show total area of DFA, PG Forest District, and Forest Harvesting Land base. PAG Consensus
15.	2.0 Maintenance and Enhancement of Forest Ecosystem Conditions and Productivity	2.1 Forest Ecosystem Resilience	A. Resilient Forest Ecosystems	a. Well-balanced ecosystems that support natural processes	Indicator 1 The amount of old forest by NDU/ merged BEC within the DFA.	Targets set as per the "Landscape Biodiversity Objectives for the PG TSA"	0%	Landscape Biodiversity Order (LBO) for the PG TSA can be found at the following website: ftp://ftp.prg.env.gov.bc.ca/pub/outgoing/requests/Oct2004_PG%20TSA_Biodiversity_Order Report back annually on the current status of the objective (tables and maps showing locations of old forest and old interior forest areas). Members of the public who want to provide input on high quality old forest should inform the respective licensee for documentation. PAG Consensus
16.					Indicator 2 The amount of interior old forest by NDU/merged BEC within the DFA.	Targets set as per the "Landscape Biodiversity Objectives for the PG TSA"	0%	Ensure that large patches are designed to ensure that patch/landscape retains values that are required by species that are dependent on that patch. PAG Consensus <u>Comment Suggestion from Dave King</u> - Ensure large patches are designed to retain values required by species dependent on large patches
17.					Indicator 3 The young patch size distribution by NDU within the DFA.	Targets set as per the "Landscape Biodiversity Objectives for the PG TSA"	±15%	PAG Recommendation: In the Wet Trench and Wet Valley NDU's limit 60% of patch sizes to range of 101 to 500 ha size category. Licensees to refer to regional ecologist for further input. PAG Consensus <u>Comment Suggestion from Dave King</u> <i>... of patch sizes 101- 500 ha.</i>

Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
18.					Indicator 19 Percent of areas planted consistent with operational plans.	100%	-5%	Operational plans identify ecologically suitable species. PAG Consensus
19.					Indicator 6 Trend towards the percentage of area of patches in 101-500ha range within the Wet Trench and Wet Mountain of the young patch size distribution class 101-1000ha.	75%	-5%	Wet Trench includes Valley and Mountain. PAG Consensus <u>Comment Suggestion from Dave King</u> Refer to 1.1.A.a.iii (Young Patch size distribution)
20.		2.2 Forest Ecosystem Productivity	A. Productive Ecosystems	a. Maintain ecosystem conditions that are capable of supporting naturally occurring species.	Indicator 8 The percentage of forest operations consistent with approved Caribou UWR, Mule Deer UWR, Species at Risk Notice/Orders and Riparian Reserve requirements as identified in operational plans.	100% Annually	0%	To be reviewed upon government direction regarding species at risk PAG Consensus
21.					Indicator 4 The amount of landscape-level biodiversity reserves within the DFA.	Area set aside to maintain natural forest conditions across the DFA as per the latest PG TSR	-1%	Refers to OGMA's, and areas not managed by MOF (parks, recreation areas, new protected areas, Herrick Old Growth Reserve). Is intended to remain constant over time. – PAG consensus to change 224,879.57 ha – Recreation, Parks, 4,480.59 ha – Herrick Old Growth Reserve 123,577.00 ha – OGMA's (Dome, Slim & Humbug) <u>44,908.56 ha – New Protected Areas</u> 397845.72 ha – Total Show total area of DFA, PG Forest District, and Forest Harvesting Land base. PAG Consensus
22.	3.0 Conservation of Soil and Water Resources	3.1 Soil Quality and Quantity	A. Soil Conservation	a. The productive capacity of forest soils within the Timber Harvesting Land Base (THLB) is sustained	Indicator 20 The percentage of forest operations consistent with soil conservation standards as identified in operational plans.	100% Annually	0%	Consistent with Forest Stewardship Plan (FSP). PAG Consensus

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23.					Indicator 21 The percentage of cutblock area occupied by total permanent access structures.	≤5% Averaged Annually	+1%	Show percent of area in permanent access structures in cutblocks. Includes Road Permit access adjacent to the cutblock. Report out the cumulative percent of permanent access structures in the THLB annually. PAG Consensus
24.					Indicator 22 The percentage of forest operations consistent with terrain management requirements as identified in operational plans.	100% Annually	0%	PAG Consensus
25.					Indicator 23 The number of “legally” reportable spills.	0 Annually	≤ 3 Annually	PAG Consensus
26.		3.2 Water Quality and Quantity	A. Water Conservation	a. Maintain water quality and water quantity in the Defined Forest Area (DFA)	Indicator 24 The percentage of forest operations consistent with riparian management requirements as identified in operational plans.	100% Annually	0%	Consistent with Forest Stewardship Plan (FSP). PAG Consensus
27.					Indicator 25 The percentage of stream crossings that are installed or removed consistent with erosion control plans or procedures.	100% Annually	- 5%	Applies to all stream crossings. Qualified professional will assess when an erosion and sediment control plan is required. PAG Consensus
28.					Indicator 26 The percentage of unnatural known sediment occurrences where mitigating actions were taken.	100% Annually	- 5%	PAG Consensus
29.					Indicator 27 The percentage of new stream crossings that maintain natural stream flow.	100% Annually	0%	This indicator is to ensure the proper size structure does not constrict water flow. PAG Consensus

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
30.					Indicator 28 Percent of net area regenerated within 3-years after the commencement of harvesting	100% Annually	-10%	To address reforestation / forest continuity. This is intended to measure regeneration performance 3 years from the commencement of harvesting. Will not include any Bark Beetle Regulation (BBR) blocks. PAG is concerned about the Small Scale Salvage harvest impact on this indicator. PAG Consensus - January 18, 2007
31.					Indicator 56 The percent of active watersheds with PFI greater than the minimum threshold that have had a watershed risk evaluation complete.	100%	-10%	In general watersheds with PFI <= 30 are considered low risk. Once above 30 then an evaluation of the watershed condition must take place to see if a hydrologist or other professional must be consulted. Evaluation can be complete by planning foresters. Some licensees have minimum thresholds established by professional hydrologists already. PAG would like to review process in future. PAG Consensus
32.					Indicator 57 The percent of active high risk watersheds that are assessed by a qualified professional.	100%	0%	Active watersheds are watersheds that have current or proposed harvesting. PAG Consensus
33.					Indicator 58 Percent of active operations within high risk watersheds that are consistent with recommendations of Hydrologic assessments.	100%	0%	PAG Consensus
34.	4.0 Forest Ecosystem Contributions to Global Ecological Cycles	4.1 Carbon Uptake and Storage	A. Uptake and storage of carbon in forest ecosystems	a. Facilitate carbon uptake and storage within harvested areas	Indicator 28 Percent of net area regenerated within 3-years after the commencement of harvesting	100%	-10%	To address reforestation / forest continuity. This is intended to measure regeneration performance 3 years from the commencement of harvesting. Will not include any Bark Beetle Regulation (BBR) blocks. PAG is concerned about the Small Scale Salvage harvest impact on this indicator. PAG Consensus - January 18, 2007
35.					Indicator 30 Percent of cut block area that meets Free Growing requirements as identified in site plans (SP).	100%	0%	PAG Consensus

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
36.					Indicator 31 Areas with stand damaging agents will be prioritized for treatment.	100% Annually	-10%	Treatment may include no action. PAG Consensus
37.		4.2 Forest Land Conversion	A. Forest Land	a. Minimize the conversion of forest land to non-forest land	Indicator 21 The percentage of cutblock area occupied by total permanent access structures.	≤5% Averaged Annually	+1%	Show percent of area in permanent access structures in cutblocks. Includes Road Permit access adjacent to the cutblock. Report out the cumulative percent of permanent access structures in the THLB annually. PAG Consensus
38.					Indicator 32 The total percent of forested land within the Timber Harvesting Landbase that is converted to non-forested land.	≤ 4%	+ 0.5%	Cumulative % measured annually Number will either grow each year as more roads/landings are constructed or reduce each year as areas are rehabilitated. Non-forested land includes unsuccessfully regenerated areas (not meeting regeneration targets). This includes roads, landings, gravel pits, pipelines and any other conversions from the timber harvesting land base (THLB) not accounted for in the THLB. Report out in % and hectares. Show amount of permanent access structures constructed during reporting year to the annual report. Example calculation Road widths FSR=25Meters, Road permit= 15M, On block= 10 M, Non-status= 13 meters If Road lengths are FSR= 200 km, RP=300 km, On block = 400km, non status= 500 km and if THLB = 50,000 ha. Then % roads is (200000 X 25 + 300000 X 15 + 400000 X 10 + 500000 X 13) / 10,000= 2000 ha. Road % is 2,000 / 50,000 = 4.0% PAG Consensus
39.	5.0 Multiple Benefits to Society	5.1 Timber and Non-Timber Benefits	A. Short and Long term benefits	a. Maintaining a flow of timber benefits	Indicator 33 The cut level volumes compared to the apportionment across the Timber Supply Area (TSA).	≤100% (Over each 5 year cut control period)	+10	Legal requirement. These will be measured over a 5-year period. There is no minimum target. An upper variance of 10% is allowed (All major licensees and BCTS included). PAG Consensus

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
40.					Indicator 28 Percent of net area regenerated within 3- years after the commencement of harvesting	100% Annually	-10%	To address reforestation / forest continuity. This is intended to measure regeneration performance 3 years from the commencement of harvesting. Will not include any Bark Beetle Regulation (BBR) blocks. PAG is concerned about the Small Scale Salvage harvest impact on this indicator. PAG Consensus - January 18, 2007
41.					Indicator 31 Areas with stand damaging agents will be prioritized for treatment.	100% Annually	-10%	Treatment may include no action. PAG Consensus
42.					Indicator 34 Number of hectares (area) damaged by accidental forestry related industrial fires.	<60 ha Annually	5 ha	LSC will report to the PAG on the number of accidental forestry related industrial fires and size annually. PAG Consensus
43.				b. Maintaining a flow of non-timber benefits	Indicator 35 The percentage of forest operations consistent with visual, cultural heritage, range, riparian, recreation and lakeshore requirements as identified in operational plans.	100% Annually	0%	Notify all range tenure holders of all known forest development activities. (Strategy a) in FSP include “and range tenure holders”). Notify commercial recreation tenure holders of forest development activities. Intent to protect non-timber values in riparian areas and lakeshore management areas (i.e., wildlife habitat, wetlands, and fisheries). PAG Consensus
44.					Indicator 36 The number of first order wood products produced from trees harvested from the DFA.	≥ 12 types of products (Annually)	-3	Example of first order wood products; trees to lumber, trees to veneer, trees to chips, trees to guitars, etc. Doesn't include trees to logs to lumber to houses. First order products includes raw logs, lumber, custom cut lumber, remanufactured lumber, pulp chips, OSB chips, hog fuel, plywood veneer, house logs, poles, railways ties, wood shavings (note, this is a draft list only). Report out on unit volume of all first order products produced each year and report out on where these products are being sold in order to ensure that the indicator addresses socio-economic criterion. PAG Consensus
45.					Indicator 37 The percentage of DFA volume advertised for sale through open competitive bid.	≥20% Annually	-5%	Report out annually on actual volume sold. If possible, report out on locations of first scale of volume sold. PAG Consensus

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
46.					Indicator 38 The number of opportunities given to the public and stakeholders to express forestry related concerns and be involved in our planning processes.	≥15 Annually	-3	Examples: FSP, FSP amendments, letters to stakeholders, Pesticide Management Plan, PAG meetings, field tours, CNRC meetings, news letters etc. Counted by each licensee and totalled by the DFA. Intended to address all forestry related public inquiries. PAG Consensus
47.				c. Maintain opportunities to access non-timber benefits by ensuring that individuals and stakeholders who have expressed an identified interest in the planning area (e.g. guides, trappers, recreationists, water licensees, mining tenure holders etc.) are specifically communicated with, during forest planning	Indicator 39 Annually provide a viewing of BCTS and Licensee current access plans, general forest planning and operational plans, and Sustainable Forest Management Plans in of the DFA.	On or before October 1	+1 month	Intent is to provide an opportunity for the public to view and provide input into Licensee and BCTS access plans. PAG Consensus <i>Expanding this indicator to include not only access plans, but also operational activities and SFM plans may help to increase the general public and PAG members' awareness and understanding of the forest planning and management process that is integral to access management.</i> PAG Consensus
48.					Indicator 40 Percentage of timely responses to written public enquiries.	100% Annually	-5%	Timely response is to be made within 30 days of written inquiry. PAG Consensus <i>Licensees will track and report out on the number of access management inquiries vs. forest planning and operational activity inquiries in order to monitor and address the level of access management concerns over time.</i> PAG Consensus

Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
49.					Indicator 41 Percentage of communication strategy requirements met.	100% Annually	-5%	<p>Licenses and BCTS maintain list of interested parties and notify people on list when operations/developments are to occur.</p> <p>Communication strategy must be mutually agreed upon by private landowner and licensee / BCTS.</p> <p>Forest health concerns around and adjacent to private land will be discussed during communication with private landowners.</p> <p>PAG Agreement (three objections)</p> <p>Licenses will solicit and invite non timbered tenure holders (without a current and established communication strategy) to establish communication strategies with the companies. This invitation will occur every 2 years and will provide for an increased effort to communicate and address access and other issues with resource users.</p> <p>PAG Agreement (three objections)</p>
50.		5.2 Community and Sustainability	A. Community well-being	a. Support opportunities for maintaining a resilient and stable community	Indicator 42 Percent of money spent on forest operations and management on the DFA provided from North Central Interior Suppliers\Contractors	75%	-5%	<p>North Central Interior = From McBride to Smithers and 100 Mile House to Mackenzie.</p> <p>Target applies to all licenses but will be reported out by licensee</p> <p>PAG Consensus</p>
51.					Indicator 37 The percentage of DFA volume advertised for sale through open competitive bid.	≥20% Annually	-5%	<p>Report out annually on actual volume sold. If possible, report out on locations of first scale of volume sold.</p> <p>PAG Consensus</p>
52.		5.3 Fair Distribution of Benefits and Costs	A. Fair Distribution of Benefits and Costs	a. Maintain the Distribution of Benefits and Costs	Indicator 43 Taxes paid on time to Governments	100%	0%	<p>This includes all Federal, Provincial and Local Government taxes.</p> <p>PAG Consensus</p>
53.					Indicator 44 Stumpage paid on time to Government	100%	0%	PAG Consensus
54.					Indicator 45 Number of loss time accidents (days) in Woodland Operations.	0	0	<p>Licenses and BCTS will report out on all lost time forestry accidents in the DFA</p> <p>After data are collected for one year, modify the indicator to show improvement.</p> <p>PAG Consensus</p>

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
55.	6.0 Accepting Society's Responsibility for Sustainable Development	6.1 Aboriginal and Treaty Rights	A. Aboriginal and Treaty Rights	a. Recognition and respect for Aboriginal and treaty rights	Indicator 46 No unauthorized forestry activities within legally recognized (Province and Federal) treaty areas.	100%	0%	PAG Consensus
56.					Indicator 47 All FSP and associated major amendments are referred to affected aboriginal bands.	100%	0%	Major amendments require government approval. PAG Consensus
57.					Indicator 48 Pesticide Management Plans and associated major amendments are referred to affected aboriginal bands.	100%	0%	PAG Consensus
58.		6.2 Respect for Aboriginal Forest Values, Knowledge, and Uses	A. Aboriginal Forest Values, Knowledge, and Uses	a. Incorporation of Aboriginal Forest Values, Knowledge, and Uses in Forest Management	Indicator 49 Percentage of forest operations consistent with cultural heritage requirements as identified in operational plans.	100% Annually	0%	PAG Consensus
59.					Indicator 50 Percentage of forest operations consistent with the Heritage Conservation Act.	100%	0%	PAG Consensus
60.		6.3 Public Participation	A. Public participation in decision making processes	a. A clear process for a wide public participation in SFM	Indicator 51 Percentage of PAG satisfaction with public participation process.	100%	-20%	Refer to detailed survey cards from PAG Meetings. PAG Consensus
61.					Indicator 52 PAG Terms of Reference reviewed per year.	≥ 1	0	Part of the review would be to ensure a diverse range of interests can participate in the process. PAG Consensus
62.					Indicator 53 Number of PAG meetings per year.	≥ 3	-1	PAG Consensus
63.					Indicator 54 Percentage of the public sectors as defined in the ToR invited to participate in the PAG process.	100% Annually	0%	Report out on attendance of public sectors. PAG Consensus

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Row No.	CCFM Criterion	CSA SFM Element	Value	Objective	Indicator	Target	Variance	Comments
64.		6.4 Information for Decision Making	A. Informed, fair and inclusive decision making	a. Adaptive forest management that is responsive to research, experience and public input	Indicator 55 Percentage of PAG satisfaction with amount and timing of information presented for informed decision-making.	100%	-20%	Refer to detailed survey cards. Includes minutes, agendas, background information, and sources of additional information (amount, quality and content of the information). <i>PAG Consensus</i>