

41.0 CSA Matrix¹ Fort St. John Pilot Project SFM Matrix

6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements	Value	Objective	Indicator	Target	
The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA.	Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element.	Objective - a broad statement describing a desired future state or condition for a value.	Indicator - a variable that measures or describes the state or condition of a value.	Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible.	
CCFM Criterion 1 – Conservation of Biological Diversity					
Conserve biological diversity by maintaining integrity, function and diversity of living organisms and the complexes of which they are part.					
Element 1.1 Ecosystem Diversity Conserve ecosystem diversity at the stand and landscape levels by maintaining the variety of communities and ecosystems that naturally occur on the DFA.	Ecosystem Diversity	Maintain the diversity and pattern of communities and ecosystems within a natural range.	1 Percent distribution of forest type (deciduous, deciduous mixedwood, conifer mixedwood, conifer) >20 years old by landscape unit	All forest type groups by landscape unit will meet or exceed the minimum area percentage in table 9	
			2 The minimum proportion (%) of late seral forest by NDU		The minimum proportion (%) of late seral forest by NDU as identified in table 11 will be met.
			3 Percent area by Patch Size Class (0-50, 51-100, and >100 ha) by NDU		A minimum of 9 of 18 of the baseline targets for early patches will be achieved during the term of this SFMP.
			28 See indicator #28		
			30 See indicator #30		
Element 1.2 Species Diversity Conserve species diversity by ensuring that habitats for the native species found in the DFA are maintained through time, including habitats for known occurrences of species at risk.	Species Richness	Suitable habitat elements for indicator species	5 Number of snags and/or live trees (>23 cm dbh) per ha on prescribed areas	Retain annually an average of at least 6 snags and/or live trees (>23cm dbh) per hectare on prescribed areas	

¹ matrix number reflects the PAG meeting at which it was approved.

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			<p>6 Average retention level of Coarse Woody Debris volume/ (m3/ha) on blocks logged in the DFA between December 1, 2008 and November 30, 2016</p> <p>7 The number of non-compliances to riparian reserve zone standards</p> <p>8 The proportion of shrub habitat (%) by Landscape Unit</p> <p>9 Cumulative Wildlife Tree Patch percentage in blocks harvested under the FSJPPR in each Landscape Unit</p> <p>13 See indicator #13</p>	<p>Average retention level over the DFA will be at least 46 m3/ha (50% of average pre-harvest volume) on harvested blocks assessed between December 1, 2008 and November 30, 2016</p> <p>No non-compliances to riparian reserve zone standards</p> <p>Each landscape unit will meet or exceed the baseline target (%) proportion of shrub habitat</p> <p>Cumulative Wildlife Tree Patch % will meet or exceed the minimum target in each LU (Blueberry 6%, Halfway 3%, Kahntah 7%, Kobes 5%, Lower Beaton 8%, Milligan 6%, Tommy Lakes 3%, Trutch 5%, Sikanni 4%, Graham 4%, Crying Girl 6%)</p>
			10 The % prohibited and primary noxious weeds, and known invasive weed species of concern, in seed mix analysis	Seed mix analyses will have 0% content of prohibited and primary noxious weeds and known invasive plants, as identified in the most current publication of: "Listing of Invasive Plants", available from the Peace River Regional District

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		Maintain habitats for species at risk	11 The percentage of SLP's prepared annually for 'effected' cutblocks that incorporate one or more stand level species at risk management guidelines	100% of SLPs prepared annually for effected cutblocks will incorporate one or more species at risk management guidelines
Element 1.3 Genetic Diversity Conserve genetic diversity by maintaining the variation of genes within species and ensuring that reforestation programs are free of genetically modified organisms.	Genetic Diversity	Conserve genetic diversity of tree stock	13 The percentage of seedlings and vegetative material used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004) as amended from time to time.	100% of seedlings and vegetative material will be used and planted in accordance with the Chief Forester's Standards for Seed Use (Nov.20, 2004), as amended from time to time.
Element 1.4 Protected Areas and Sites of Special Biological Significance Respect protected areas identified through government processes. Identify sites of special geological, biological or cultural significance within the DFA and implement management strategies appropriate to their long term maintenance.	Protected Areas and Conservation Emphasis areas, for example Special Management Zones, Ecological Reserves, etc.	To have representative areas of naturally occurring and important ecosystems and rare physical environments protected at both the broad and site-specific levels across or adjacent to the DFA	15 Hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas	Zero hectares of forestry related harvesting or road construction within Class A parks, protected areas, ecological reserves, or LRMP designated protected areas

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			<p>16</p> <p>Proportion of activities consistent with the objectives of the Muskwa-Kechika Management Area (MKMA), and general wildlife measures for Ungulate Winter Ranges (UWR) and Wildlife Habitat Areas (WHA)</p>	<p>All pilot Participant activities will be consistent with the objectives of the MKMA, and general wildlife measures for Ungulate Winter Ranges and Wildlife Habitat Areas</p>
			<p>17</p> <p>Percentage of area of forest stands in an unmanaged condition, by leading species, by NDU</p>	<p>100% of baseline targets for forested stands in an unmanaged condition, by leading species, by NDU will be met</p>
		<p>Management strategies address important values in SMZ areas</p>	<p>18</p> <p>The number of clusters in the Graham IRM Plan area where active operational harvesting is concurrently occurring.</p>	<p>Operational harvesting within the Graham IRM Plan area will be constrained to no more than 1 'cluster' of cutblocks at any one time</p>
			<p>19</p> <p>Cumulative merchantable area (hectares) within blocks harvested in the Graham IRM Plan area since 1997</p>	<p>The cumulative merchantable area (hectares) within harvested blocks will not exceed the planned maximum cumulative harvest areas, as measured at the end of each time period: Period 2 (April 2012): 6569 ha; Period 3 (April 2017): 9355 ha</p>

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			<p>20 Area (hectares) harvested in cutblocks in the Graham IRM area, within the permanent alluvial and non-productive/non-commercial components of the connectivity corridors</p> <p>21 The number of long term harvest plans within the MKMA completed and submitted to government</p> <p>22 The percentage of harvested areas that create openings greater than 1 hectare within 100 metres of RRZ's in identified major river corridors</p>	<p>Zero hectares harvested within cutblocks in the permanent alluvial and non-productive/non-commercial components of the connectivity corridors</p> <p>A minimum of one long-term harvest plan submitted no later than 1 year following government approval of a landscape unit objective under the MKMA Act, that applies to the Fort St. John TSA portion of the MKMA.</p> <p>No openings exceeding 1 hectare in blocks within the major river corridors harvested under the FSJPPR (i.e. after November 15, 2001)</p>
<p>CCFM Criterion 2 – Maintenance and Enhancement of Forest Ecosystem Condition and Productivity Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production.</p>				

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Element 2.1 Forest Ecosystem Resilience Conserve ecosystem resilience by maintaining both ecosystem processes and ecosystem conditions.	Ecosystem Resilience	Maintain a natural range of variability in ecosystem function, composition and structure with allows ecosystems to recover from disturbance and stress	2	See indicator #2	
			24	Percentage of the total area in Managing Participants' cutblocks occupied by permanent access structures, in which harvesting was completed.	A maximum of 5% of the total area in Managing Participants' cutblocks occupied by permanent access structures in which harvesting was completed, as determined on a 3 year rolling average.
			25	Percentage of silviculture obligation areas with significant detected forest health damaging agents which have treatment plans developed for them	100% of silviculture obligation areas with significant forest health damaging agents will have treatment plans developed for them, and initiated within 1 year of detection
			6	See indicator #6	
			5	See indicator #5	
9	See indicator #9				

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			<p>26 The relative proportion of area of merchantable fire-damaged stands salvaged within a management intensity class</p> <p>27 Percentage of area harvested annually using even aged silviculture systems</p> <p>28 Relative change in plantation composition versus harvest composition for spruce and pine</p> <p>29 Predicted Merchantable Volume (PMV) (cubic meters) coniferous and separate deciduous surveyed areas.</p> <p>30 Establishment Delay (years)</p>	<p>The relative proportions of salvage will be highest in the high intensity zones, and lowest in the low intensity zones over the SFM Plan period (April 1, 2010 - March 31, 2016)</p> <p>Even aged silviculture systems will be employed on at least 80% of the total area harvested annually in the DFA</p> <p>The relative proportion of spruce and pine planted annually will equal the proportions harvested annually (excluding fill planting)</p> <p>Predicted Merchantable Volume will meet or exceed the Target Merchantable Volume (TMV). The TMV is set at 95% of the Maximum Predicted Merchantable Volume attainable on coniferous areas. The TMV is set at 90% of the Maximum Predicted Merchantable Volume attainable on deciduous areas.</p> <p>The area weighted average establishment delay for coniferous regeneration will not exceed two years. The area weighted average establishment delay for deciduous regeneration will not exceed three years. The area weighted average establishment delay for mixedwood stands regeneration will not exceed three years.</p>

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			49	Percentage of new conifer-leading harvest blocks in the 2010 FOS that are pine-leading.	A minimum of 60% of new conifer-leading harvest blocks in the 2010 FOS will be pine-leading.
Element 2.2 Forest Ecosystem Productivity Conserve forest ecosystem productivity and productive capacity by maintaining ecosystem conditions that are capable of supporting naturally occurring species. Reforest promptly and use tree species ecologically suited to the site.	Ecosystem Productivity	Ecosystem functions capable of supporting naturally occurring species exist within the range of natural variability	1	See indicator #1	
			2	See indicator #2	
			20	See indicator #20	
			3	See indicator #30	
			25	See indicator #25	
	Productive Capacity for Timber	Maintain or enhance landscape level productivity	31	Long-term harvest level (LTHL) as measured in cubic metres per year (m ³ /yr)	We will propose an Allowable Annual Cut (AAC) that sustains the LTHL of the Defined Forest Area (DFA)
			32	Site index	Average post harvest site index will not be less than average pre-harvest site index on blocks harvested under the pilot project regulation
25			See indicator #25		
			49	See indicator #49	
CCFM Criterion 3 – Conservation of Soil and Water Resources Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems.					

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Element 3.1 Soil Quality and Quantity Conserve soil resources by maintaining soil quality and quantity.	Soil Productivity	Protect soil resources to sustain productive forests	32	See indicator #32	
			4	Number of blocks with non-conformances to soil disturbance limits reported annually by Managing Participant	Zero blocks will have non conformances to soil disturbance limits.
Element 3.2 Water Quality and Quantity Conserve water resources by maintaining water quality and quantity.	Water Quantity	Maintenance of water quantity	34	The percentage of watersheds achieving baseline targets for the peak flow index and the percent of watershed reviews completed where the baseline target is exceeded	95% or more of the watersheds will be below the baseline target. All watersheds that exceed the baseline target will have a watershed review completed wherever new harvesting is planned

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	Water Quality	Maintenance of water quality	<p>35 The percentage of surveyed stream crossings annually identified with a high WQCR rating on forestry roads within the DFA for which participants have stewardship (*WQCR – water quality concern rating)</p> <p>7 See indicator #7</p>	On an annual basis, fewer than 30% of the total number of surveyed stream crossings on roads for which the participants have stewardship will have 'High' WQCR.
			<p>36 The number of annual non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from harvesting or silviculture activities.</p>	No non-conformances to SLP measures related to protecting stream bank, stream channel stability and riparian vegetation from to harvesting or silviculture activities.

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			37 Number of spills of a reportable substance (i.e. antifreeze, diesel fuel, gasoline, greases, hydraulic oil, lubricating oil, methyl hydrate, paints and paint thinners, solvents, pesticides, and explosives) entering water bodies.	Zero spills entering water bodies
CCFM Criterion 4 – Forest Ecosystem Contributions to Global Ecological Cycles				
Maintain forest conditions and management activities that contribute to the health of global ecological cycles.				
Element 4.1 Carbon Uptake and Storage Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.	Carbon Uptake and Storage	Maintenance of the processes for carbon uptake and storage	38 Maintenance of DFA Average carbon sequestration rates. 39 The percentage of ecosystem carbon stored in the Fort St. John DFA relative to projected natural levels 29 See indicator #29 30 See indicator #30	Maintain DFA average carbon sequestration rates that are consistent with or greater than natural sequestration rates. Maintain ecosystem carbon storage at a minimum of 95% of projected natural storage levels.

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Element 4.2 Forest Land Conversion Protect forestlands from deforestation or conversion to non-forests where ecologically appropriate.	Forest Land Base	Sustain forest lands within our control within the DFA	24	See indicator #24	
		Foster inter-industry cooperation to minimize conversion of forested lands to non-forest conditions	40	Number of coordinated developments.	Report annually the number of proposed coordinated developments that occurred.
CCFM Criterion 5 – Multiple Benefits to Society					
Sustain flows of forest benefits for current and future generations by providing multiple goods and services.					
Element 5.1 Timber and Non-Timber Benefits Manage the forest to produce an acceptable and feasible mix of both timber and non-timber benefits.	Timber and Non-Timber Multi-use Benefits	Provide opportunities for a feasible mix of timber, recreational activities, and non-timber commercial activities	41	Percent consistency with mutually agreed upon action plans for range	Operations 100% consistent with resultant range action plans
			42	Number of range improvements damaged by Participants' activities.	Zero range improvements damaged by Participants' activities
			43	The number of recreation sites maintained by Participants	Participants will maintain a minimum of one recreational site within the DFA
			44	Consistency with Visual Quality Objectives (VQO's).	Pilot Participants' forest operations will be consistent with the established VQO's.

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			<p>45 Area in primitive and semi-primitive non-motorized classifications of the Recreation Opportunity Spectrum (ROS) for the Graham, Sikanni and Crying Girl LU's</p> <p>18 See indicator #18</p> <p>19 See indicator #19</p> <p>21 See indicator #21</p> <p>46 Percentage of operations consistent with mutually agreed upon action plans for guides, trappers and other known non-timber commercial interests.</p> <p>47 Volume of timber processed in the DFA in proportion to volume harvested in the DFA</p>	<p>A minimum of 65,839 ha in primitive ROS area (100% of 1996 primitive ROS area) and 180,726 ha in semi primitive non-motorized ROS area (50% of the 1996 total semi primitive NM ROS area) in the combined Graham, Crying Girl and Sikanni LU's (excluding the Graham Laurier and Redfern-Keily PA's).</p> <p>100% of operations will be consistent with action plans for guides, trappers and other non-timber commercial interests.</p> <p>The annual equivalent of a minimum of 70% of the DFA's harvest is primary processed in the DFA</p>

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Element 5.2 Communities and Sustainability Contribute to the sustainability of communities by providing diverse opportunities to derive benefits from forests and by supporting local community economies.	Sustainable and Viable Communities	Maintain viable timber processing facilities in the DFA	48 Volume of timber (m3) delivered annually to wood processing facilities within the Fort St. John Defined Forest Area (DFA) wood processing facilities between May 1st and November 30th	Minimum of 100,000 m ³ to conifer mills in the DFA Minimum of 185,000 m ³ to deciduous mills in the DFA
		No decrease in the LTHL in the DFA	50 Percentages of SFMP's and FOS's prepared jointly by the Participants	100% of all SFMP's and FOS's will be jointly prepared by the Participants
		No decrease in the LTHL in the DFA	51 The area(ha) of deciduous leading cutblocks identified in Supply Block F for harvest during the term of the SFMP	A minimum of 200 ha of deciduous leading cutblocks located in Supply Block F will be identified for harvest during the term of the new SFMP.
			52 The percentage of the total cutblock area in harvested blocks that was identified as preharvest height-class two pine inventory types	April 1, 2006 - March 31st, 2011: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types. April 1, 2011- March 31st, 2016: 8% or more of the total coniferous cutblock area harvested by managing Participants during the 5-year period will be in height-class two pine inventory types.
			31 See indicator #31	

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			53	Percentage of total Allowable Annual Cut (AAC) charged to licensee tenure holders or BCTS Participants during the term of the SFMP	<p>Jan 1 2010- Dec 31 2016:</p> <p>Industry Participants: -Not to exceed 110% of the combined cumulative coniferous AAC for the 6 year period -Not to exceed 110% of the combined cumulative deciduous AAC for the 6 year period</p> <p>BCTS Participant: -Not to exceed 110% of the combined cumulative coniferous commitment offered for sale for the 6 year period -Not to exceed 110% of the combined cumulative deciduous commitment offered for sale for the 6 year period</p>
	Contribution to Worker and Public Safety	Provide a safe work environment for DFA forestry workers and the public	12	Implementation and maintenance of certified safety program.	Each managing participant will implement and maintain a certified safety program
	Communities Participate in the Use and Management of the Forest	Diverse local forest employment opportunities exist in the DFA	54	Percentage of dollars spent locally on each woodlands phase in proportion to total expenditures	<p>Woodlands Phases to be monitored: Logging/hauling: minimum of 80% Road construction and maintenance: minimum of 80% Silviculture: minimum of 8% Planning and administration: minimum of 50%</p>
CCFM Criterion 6 – Accepting Society’s Responsibility for Sustainable Development Society’s responsibility for sustainable forest management requires that fair, equitable, and effective forest management decisions are made.					
Element 6.1 Aboriginal and Treaty Rights Recognize and respect Aboriginal and treaty rights.	Aboriginal and Treaty Rights	Recognition of Treaty 8 rights and respect of aboriginal rights through maintenance of landscape level biodiversity	56	Conformance to the SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat.	Participants will conform to the identified SFMP indicators and targets pertinent to the maintenance of wildlife and fisheries habitat.

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Element 6.2 Respect for Aboriginal Forest Values, Knowledge and Uses Respect traditional Aboriginal forest values and uses identified through the Aboriginal input process.	Aboriginal Forest Values, and Uses	Respect known traditional aboriginal forest values and uses	57 Percentage of known traditional site-specific aboriginal values and uses that are addressed in operational plans.	100% of known traditional site-specific aboriginal values and uses identified will be addressed in operational plans.
		Involve First Nations in review of forest management plans, provide understanding of forest management plans	33 Percentage of affected First Nations invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's)	100% of affected First Nations will be invited to participate in information sessions or presentations related to the participants' practices and /or plans (SFMP, FOS, and PMP's).
			62 The number of hectares removed annually from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout.	The participants will report annually, the number of hectares removed from the participants' aerial herbicide plans based on input from First Nations or the public and final treatment layout.

6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements	Value	Objective	Indicator		Target
The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA.	Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element.	Objective - a broad statement describing a desired future state or condition for a value.	Indicator - a variable that measures or describes the state or condition of a value.		Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible.
Element 6.3 Forest Community Well Being and Resilience Encourage, co-operate with, or help to provide opportunities for economic diversity within the community.	Fair Distribution of Benefits and Costs	Provide opportunities for a range of interests to access benefits	55	Value of tendered contracts in proportion to the total value of all awarded contracts on an annual basis	A minimum of 50% of the total value of contracts will be tendered on an annual basis
		Provide opportunities for First Nations to participate in forest economy.	23	Value and total number of contracts awarded annually to First Nations	Report the annual total value and number of contracts awarded to companies or groups owned or operated by First Nations
		Development of Skilled workers	63	Percentage of managing participants' employees training that is consistent with training plans.	100% of managing participants' employees will have training consistent with training plans.
Element 6.4 Fair and Effective Decision Making Demonstrate that the public participation process is designed and functioning to the satisfaction of the participants and that there is general public awareness of the process and its progress..	Opportunity for Public Participation	To facilitate a satisfactory public participation process	58	Compliance with the public review and comment process identified in the FSJ Pilot Project Regulation	100% compliance with public review and comment processes identified in the FSJ Pilot Project Regulation
			59	Current Terms of reference (TOR) for the <i>FSJPPR</i> public participation process	Biennial review of the TOR for the <i>FSJPPR</i> public participation process (PAG)
			60	The percentage of timely responses to public inquiries	Respond to 100% of public inquiries regarding Participants' forestry practices, that are additional to the Pilot Public Review and Comment processes, within one month of receipt.

6.0 The SFM Performance Requirements: CCFM Criteria and CSA SFM Elements	Value	Objective	Indicator		Target
The organization, in conformance with the public participation process requirements set out in Section 5, will identify DFA-specific values, objectives, indicators and targets for each of the CSA SFM Elements described in Clauses 6.1-6.6, as well as any other values associated with DFA.	Value - a DFA characteristic, component or quality considered by an interested party to be important in relation to a CSA SFM Element or other locally identified element.	Objective - a broad statement describing a desired future state or condition for a value.	Indicator - a variable that measures or describes the state or condition of a value.		Target - a specific statement describing a desired future state or condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible.
		Develop satisfaction with the public participation process	64	Level of satisfaction with the public participation process as measured by PAG surveys.	At least an 80% (average score of 4 out of 5) satisfaction level as measured from PAG surveys.
Element 6.5 Information for Decision-Making Provide relevant information and educational opportunities to interested parties to support their involvement in the public participation process, and increase knowledge of ecosystem processes and human interactions with forest ecosystems.	Information for Decision-Making	Relevant information used in the decision making process is provided to PAG, general public, and affected parties	60	See indicator #60	
		Develop improved public understanding of SFM	61	Number of people to whom information, presentations, or field trips provided annually.	Minimum of 40 people provided information, presentations or field trips annually.
			65	SFM monitoring report made available to the public.	SFM monitoring report made available to the public annually.

List of CSA matrix Revisions

Existing Indicator #61 revised as indicated, via SFMP Amendment #1, effective April 1, 2011.

New Indicators #63, #64 and #65 added to SFMP, via Amendment #1, effective April 1, 2011.