

Comparison between Z809-08 SFM Standard and Current HLLD SFM Indicators for each CCFM Criteria/Element – May 2011

Z809-08 CCFM Criterion	Z809-08 CCFM Element	Z809-08 Required Core Indicators	Current indicators for Indicated Elements
<p><b>1.0 Conservation of Biological Diversity</b> Conserve biological diversity by maintaining integrity, function, and diversity of living organisms and the complexes of which they are part.</p>	<p><b>1.1 Ecosystem Diversity</b> Conserve ecosystem diversity at the landscape level by maintaining the variety of communities and ecosystems that naturally occur in the DFA.</p>	1.1.1 Ecosystem area by type	#2: Proportion of cover types (C, CD, DC, & D)
		1.1.2 Forest area by type or species composition	#4: Percentage of the forested land base represented in older age classes.
		1.1.3 Forest area by Seral stage or age class	#6: Amount of vertical and horizontal diversity retained in cutblocks.
		1.1.4 Degree of within-stand structural retention	
	<p><b>Element 1.2 Species Diversity</b> 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.</p>	1.2.1 Degree of habitat protection for selected focal species including species at risk	#8: ASRD approved operational plans in critical wildlife zones.
		1.2.2 Degree of suitable habitat in the long term for selected focal species including species at risk	#5, part 1 and 2: Habitat availability (ha) for representative and unique species.
		1.2.3 Proportion of regeneration comprised of native species	#10: Native seed used in operational reforestation will be best suited to the area being reforested.
	<p><b>Element 1.3 Genetic Diversity</b> Conserve genetic diversity by maintaining the variation of genes within species.</p>	[No CORE Indicators]	<p>#9: The amount of area (ha) planted with seedlings from orchard stock.</p> <p>#10: Native seed used in operational reforestation will be best suited to the area being reforested.</p>

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	<p><b>Element 1.4 Protected Areas and Sites of Special Biological and Cultural Significance</b>                      Respect protected areas identified through government processes. Cooperate in broader landscape management related to protected areas and sites of special biological significance and cultural significance. Identify sites of special biological and cultural significance within the DFA and implement management strategies appropriate to their long-term maintenance.</p>	<p><b>1.4.1</b> Proportion of identified sites with implemented management strategies</p> <hr/> <p><b>1.4.2</b> Protection of identified sacred and culturally important sites</p>	<p>#3: Area (ha) removed from the productive landbase to incorporate areas of ecological significance.</p> <p>#26: Area (ha) removed from productive landbase to incorporate aesthetics.</p> <p>#11: Annual Operating Plans (AOP's) which identify protection mechanisms for areas of biological significance.</p> <p>#12: Annual Operating Plans which outline operational strategies to mitigate impacts to the Watt Mountain Natural Area.</p> <p>#25, part 1: Compliance with the Historical Resources Act.</p>
<p><b>CCFM Criterion 2 — Maintenance and enhancement of forest ecosystem condition and productivity</b>                      Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production.</p>	<p><b>Element 2.1 Forest Ecosystem Resilience</b>                      Conserve ecosystem resilience by maintaining both ecosystem processes and ecosystem conditions.</p>	<p><b>2.1.1</b> Reforestation success (Also listed under SFM Element 4.1)</p>	<p>#13: Annual harvest (m3) from areas identified as being infested by spruce budworm or other insects or disease.</p> <p>#14: Productive land base that is harvested and reforested (ha) following natural disturbance.</p> <p>#21: Reforestation activities.</p> <p>#22: Area(s) identified as being Satisfactorily Restocked (SR).</p>

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	<b>Element 2.2 Forest Ecosystem Productivity</b> Conserve forest ecosystem productivity and productive capacity by maintaining ecosystem conditions that are capable of supporting naturally occurring species.	<b>2.2.1</b> Additions and deletions to the forest area (by cause)	#23: Amount of non-forested area (ha) on the DFA.
		<b>2.2.2</b> Proportion of the calculated long-term sustainable harvest that is actually harvested.	#24: Volume harvested during the 5-Year cut control period.
<b>CCFM Criterion 3 – Conservation of soil and water resources</b> Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems.	<b>Element 3.1 Soil Quality and Quantity</b> Conserve soil resources by maintaining soil quality and quantity.	<b>3.1.1</b> Level of soil disturbance	#15: Road Disturbance. #16: Rutting Disturbance
		<b>3.1.2</b> Level of downed woody debris	#17: Soil Productivity. #7: Amount of Coarse Woody Debris retained in cutblocks following operations.
	<b>Element 3.2 Water Quality and Quantity</b> Conserve water resources by maintaining water quality and quantity.	<b>3.2.1</b> Proportion of watershed or water management area with recent stand-replacing disturbance	#18: Adherence to the PFMS. #19: Amount of area (ha) and forest cover in riparian buffer zones along watercourses. #20: Satisfactory installation & removal of watercourse crossings.
<b>CCFM Criterion 4 – Forest ecosystem contributions to global ecological cycles</b> Maintain forest conditions and management activities that contribute to the health of global ecological cycles.	<b>Element 4.1 Carbon Uptake and Storage</b> Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.	<b>4.1.1</b> Net carbon uptake/balance.	#21: Reforestation activities.
		<b>2.1.1</b> Reforestation success (Also listed under SFM Element 2.1)	#22: Area(s) identified as being Satisfactorily Restocked (SR).

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	<b>Element 4.2 Forest Land Conversion</b> Protect forestlands from deforestation or conversion to non-forests.	<b>2.2.1</b> Additions and deletions to the forest area (by cause).	#23: Amount of non-forested area (ha) on the DFA.	
<b>CCFM Criterion 5 – Multiple benefits to society</b> Sustain flows of forest benefits for current and future generations by providing multiple goods and services.	<b>Element 5.1 Timber and Non-Timber Benefits</b> Manage the forest sustainably to produce an acceptable and feasible mix of both timber and non-timber benefits. Evaluate timber and non-timber forest products and forest-based services.	<b>5.1.1</b> Quantity and quality of timber and non-timber benefits, products, and services produced in the DFA.	#27: Forest Management Plans (FMP's) and operational plans which have incorporated the needs of other stakeholders. ( <i>non-timber values focused</i> )	
	<b>Element 5.2 Communities and Sustainability</b> Contribute to the sustainability of communities by providing diverse opportunities to derive benefits from forests and supporting local community economies.  <b>[Note: Element 5.3 Fair Distribution of Benefits and Costs included in the Z809- 02 Standard has been removed in the new standard, includes old indicators #29 and #31, part 1.]</b>	<b>5.2.1</b> Level of investment in initiatives that contribute to community stability		#28: The number (%) of business and employment opportunities given to local employers and/or citizens.
		<b>5.2.2</b> Level of investment in training and skills development		#29: The number of Business and Wood Supply Agreements with local tenure holders and processing facilities.
		<b>5.2.3</b> Level of direct and indirect employment		#31, part 1: Forest Management Plans (FMP's) and operational plans which have incorporated the needs of other stakeholders. ( <i>other timber uses to be identified</i> )
		<b>5.2.4</b> Level of Aboriginal participation in the forest economy		
<b>CCFM Criterion 6 – Accepting society's responsibility for sustainable development</b> Society's responsibility for sustainable forest management requires that fair, equitable, and effective forest management decisions are made.	<b>Element 6.1 Aboriginal and Treaty Rights</b> Recognize and respect Aboriginal title and rights, and treaty rights. Understand and comply with current legal requirements related to Aboriginal title and rights, and treaty rights.	<b>6.1.1</b> Evidence of a good understanding of the nature of Aboriginal title and rights	#30: Percentage of Aboriginal communities that are consulted annually regarding operations.	
	<b>6.1.2</b> Evidence of best efforts to obtain acceptance of management plans based on Aboriginal communities having a clear understanding of the plans			

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		<b>6.1.3</b> Level of management and/or protection of areas where culturally important practices and activities (hunting, fishing, gathering) occur	#25, part 2: Compliance with the Historical Resources Act.
	<b>Element 6.2 Respect for Aboriginal Forest Values, Knowledge, and Uses</b> Respect traditional Aboriginal forest values and uses identified through the Aboriginal input process.	<b>6.2.1</b> Evidence of understanding and use of Aboriginal knowledge through the engagement of willing Aboriginal communities, using a process that identifies and manages culturally important resources and values (1.4)	#25, part 2: Compliance with the Historical Resources Act.
	<b>Element 6.3 Forest Community Well-being and Resilience</b> Encourage, cooperate with, or help to provide opportunities for economic diversity within the community.	<b>6.3.1</b> Evidence that the organization has cooperated with other forest-dependent businesses, forest users and the local community to strengthen and diversify the local economy.	#31, part 1: Forest Management Plans (FMP's) and operational plans which have incorporated the needs of other stakeholders. (other timber uses to be identified)
<b>6.3.2</b> Evidence of cooperation with DFA-related workers and their unions to improve and enhance safety standards, procedures, and outcomes in all DFA-related workplaces and affected communities.		<b>NEW Element</b>	
<b>6.3.3</b> Evidence that a worker safety program has been implemented and periodically reviewed and improved.			
	<b>Element 6.4 Fair and Effective Decision-Making</b> Demonstrate that the SFM public	<b>6.4.1</b> Level of participant satisfaction with the public participation process	#31, part 2: The number of public comments received regarding plans, the level of response by management, and whether the

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	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.	6.4.2 Evidence of efforts to promote capacity development and meaningful participation in general	public comments are used to adjust plan development.
		6.4.3 Evidence of efforts to promote capacity development and meaningful participation of Aboriginal communities.	
	<b>Element 6.5 Information for Decision-Making</b> 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.	6.5.1 Number of people reached through educational outreach	#32: The number events related to forestry awareness conducted by Tolko, HLLD.
		6.5.2 Availability of summary information on issues of concern to the public	#31, part 3: Access to relevant information, including the CSA standard.

**Purpose of document:**

- Comparison of CORE Indicators and existing Indicators to identify any GAPS.
- Need to determine what level of alignment there is between CORE indicators and current indicators (eg, tight alignment through to no alignment at all).
  - Determine what indicators will be used along with the CORE indicators (some existing indicators may be redundant)
  - Are there new indicators that need to be considered?

**Indicator**

There is high association and alignment with CORE indicator (may require edits).

**Indicator**

There is moderate association and alignment with CORE indicator but will require modification.

**Indicator**

There is limited association or alignment with CORE indicator. Current Indicator to either exist as stand-alone indicator, refocused, or dropped from new SFM plan.