

# Values and Objectives

## 2012 Sustainable Forest Management Plan

Draft For PAG Review  
September 5, 2012

**Value:** A Defined Forest Area characteristic, component, or quality considered by an interested party to be important in relation to an SFM element or other locally identified element.

**Objective:** A broad statement describing a desired future state or condition of a value.

**Indicator:** A variable that measures or describes the state or condition of a value. Can be a Core Indicator in the CSA Standard or part of public process.

### Criterion 1: 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 in the DFA.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b>  Healthy, functioning ecosystems that support natural processes.	Incorporate natural processes into stand and landscape management of the DFA.	1.1.1 Ecosystem Area 1.1.2 Forest Type 1.1.3 Forest Age 1.1.4 Within-stand Structural Retention  3.1.2 Downed Woody Debris

<b>CURRENT SFMP</b>  Incorporate natural processes into stand and landscape management of the DFA.	Manage the DFA to emulate natural disturbance patterns.	#2 Proportion of cover types (C,CD,DC, D)
	Maintain areas of ecological significance.	#3 Area (ha) removed from the gross landbase to incorporate areas of ecological significance.
	Provide an age class distribution that maintains older age classes.	#4 Percentage of the forested landbase represented in older age classes.

### 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.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b>  Wildlife habitat and species diversity.	Manage the DFA to maintain wildlife habitat and native species diversity.	1.2.1 Habitat Protection 1.2.2 Available Habitat 1.2.3 Regeneration of Native Species  1.1.4 Within-stand Structural Retention

<b>CURRENT SFMP</b>  Manage the DFA to maintain wildlife habitat and species diversity.  <i>Note: the Value under Element 2.2: Forest Ecosystem Productivity was "To Maintain ecosystem conditions to ensure the DFA can support naturally occurring species"</i>	To incorporate the needs of wildlife into operational planning to minimize the effects of operations on wildlife populations.	#5 Part 1 Habitat availability (ha) for representative and unique species.
	Missing.	#6 Amount of vertical and horizontal diversity retained in cutblocks.
	Missing.	#7 Amount of Coarse Woody Debris (CWD) retained in cutblocks following operations.
	Missing.	#8 ASRD approved operational plans in critical wildlife zones.

### 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.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b>  Genetic diversity of native tree species	Maintain genetic diversity by ensuring that cutblocks are reforested with genetically diverse native seedlings.	1.3.1 Orchard Stock ( <i>Local Indicator</i> ) 1.3.2 Seed Supplies & Seed Zones ( <i>Local Indicator</i> )  1.1.2 Forest Type 1.1.3 Forest Age (Seral Stage) 1.2.3 Regeneration of Native Species

<b>CURRENT SFMP</b>  Maintain genetic diversity.	To ensure that cutblocks are reforested with genetically diverse seedlings.	#9 The amount of area (ha) planted with seedlings from orchard stock.
	Missing.	#10 Native seed used in operational reforestation will be best suited to the area being reforested.

**Element 1.4: Protected Areas and Sites of Special Biological and Cultural Significance**

Respect protected areas identified through government processes. Co-operate in broader landscape management related to protected areas and sites of special biological and cultural significance.

Identify sites of special geological, biological, or cultural significance within the DFA, and implement management strategies appropriate to their long-term maintenance.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b>  Areas of special biological and cultural significance.	Ensure that identified areas of biological and cultural significance (including unique features) are protected.	1.4.1 Proportion of identified sites with implemented management strategies (FMA or Site Level) 1.4.2 Protection of Sacred & Cultural Sites

<b>CURRENT SFMP</b>  Ensure that areas of biological significance are protected.	To identify and protect areas of biological significance.	#11 Final Harvest Plans (FHP's) which identify protection mechanisms for areas of biological significance.
	To protect the unique features within the area identified as the Watt Mountain Natural Area.	#12 Final Harvest Plans which outline operational strategies to mitigate impacts to the Watt Mountain Natural Area.

## Criterion 2: Forest Ecosystem Condition and Productivity

Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production.

### Element 2.1: Forest Ecosystem Resilience

Conserve ecosystem resilience by maintaining both ecosystem processes and ecosystem conditions.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b>  Resilient forest ecosystems	Contribute to resilient ecosystems through forest management practices such as successfully reforesting areas and minimizing losses due to natural disturbances.	2.1.1 Reforestation Success  4.1.2 Volume from Budworm Areas <i><b>(Local Indicator)</b></i>

<b>CURRENT SFMP</b>  To maintain or increase forest productivity.  <i>(Incorporated this Value under Element 2.2: Forest Productivity instead)</i>	To minimize the impacts of insects & disease on the DFA.	#13 Annual harvest (m3) from areas identified as being infested by Spruce Budworm (SBW) or other insects or disease.
	To minimize the effects of fire and other natural disturbances on forest health and productivity of the DFA	#14 Productive landbase that is harvested and reforested (ha) following natural disturbance.

### 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.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b>  The productivity of forest ecosystems	Maintain or increase forest ecosystem productivity.	2.2.1 Additions/Deletions 2.2.2 Sustainable Harvest  2.1.1 Reforestation Success 4.1.2 Volume from Budworm Areas

<b>CURRENT SFMP</b>  To Maintain ecosystem conditions to ensure the DFA can support naturally occurring species. <i>Note: The value under 2.1 Ecosystem Resilience was "To maintain or increase forest productivity."</i>	To ensure that harvest operations do not limit habitat availability for species representative of a variety of seral stages and cover types.	#5 Part 2 Habitat availability (ha) for representative and unique species.
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### Criterion 3: Soil and Water

Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems.

#### Element 3.1: Soil Quality and Quantity

Conserve soil resources by maintaining soil quality and quantity.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b> Soil quality and quantity	Maintain soil productivity by minimizing the effects of forest operations on soils.	3.1.1 Soil Disturbance 3.1.2 Downed Woody Debris 3.1.3 Soil Productivity ( <i>Local Indicator</i> ) 1.1.4 Within-stand Structural Retention

<b>CURRENT SFMP</b> Maintain soil productivity.	To minimize the effects of timber harvesting and/or silvicultural operations on soil productivity.	#15 Road Disturbance.
	Missing.	#16 Rutting Disturbance.
	Missing.	#17 Soil Productivity

#### Element 3.2: Water Quality and Quantity

Conserve water resources by maintaining water quality and quantity.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b> Water quality and quantity.	Maintain water quality and quantity by minimizing the effects of forest operations.	3.2.1 Watershed-Stand Disturbance 3.2.2 Riparian Areas ( <i>Local Indicator</i> ) 3.2.3 Watercourse Crossings ( <i>Local Indicator</i> )

<b>CURRENT SFMP</b> Maintain water quality.	To minimize the effects of timber harvesting and/or silvicultural operations on water quality and/or quantity.	#18 & #1 Adherence to the PFMS.
	Missing	#19 Amount of area (ha) and forest cover in riparian buffer zones along watercourses.
	Missing	#20 Satisfactory installation & removal of watercourse crossings.

#### Criterion 4: Role in 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.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b> Uptake and storage of carbon in forest ecosystems.	Maintain or increase the natural processes that use and store carbon in forest ecosystems.	4.1.1 Net Carbon Uptake 4.1.2 Volume from Budworm Areas ( <i>Local Indicator</i> )  1.1.4 Within-stand Structural Retention 2.1.1 Reforestation Success 2.2.1 Additions/Deletions 3.1.1 Soil Disturbance 3.1.2 Downed Woody Debris 3.1.3 Soil Productivity

<b>CURRENT SFMP</b>  To maintain the natural process of carbon recycling.	To ensure that harvested areas are promptly reforested to maintain carbon recycling.	#21 Reforestation activities.
	Missing.	#22 Area(s) identified as being Satisfactorily Restocked (SR).

##### Element 4.2: Forest Land Conversion

Protect forestlands from deforestation or conversion to non-forests, where ecologically appropriate.

Description of Local Values	Description of Objectives	Indicators
<b>SUGGESTION-NEW SFMP</b> Amount of forested land on the DFA.	Minimal loss of forested land within the DFA during forest operations.	2.2.1 Additions/Deletions

<b>CURRENT SFMP</b> Maintain or increase the current amount of forested area on the DFA.	To maintain or increase the amount of forested land on the DFA.	#23 Amount of non-forested area (ha) on the DFA.
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### Criterion 5: Economic and Social Benefits

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 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.

Description of Local Values	Description of Objectives	Indicators
<p><b>SUGGESTION-NEW SFMP</b></p> <p>A continuous supply of timber and non-timber benefits from the forest.</p>	<p>Sustainably manage the forest to yield a log profile that meets the mills current and future needs, while allowing the forest to support or increase non-timber related uses and benefits.</p>	<p>5.1.1 Benefits-Timber and Non-timber</p> <p>1.1.3 Forest Age</p> <p>2.2.2 Sustainable Harvest</p>

<p><b>CURRENT SFMP</b></p> <p>To ensure that there is a continuous supply of timber and non-timber benefits from the forest.</p>	<p>To provide a continuous supply of timber while balancing log profile and distance to mill at or below the approved AAC.</p>	<p>#24 Volume harvested during the 5-Year cut control period.</p>
	<p>To conduct operations while minimizing impacts on areas of historical, recreational, unique ecological, aesthetic, or other land uses of significance.</p>	<p>#25 Part 1 Compliance with the Historical Resources Act.</p>
	<p>Missing</p>	<p>#26 Area (ha) removed from productive landbase to incorporate aesthetics.</p>
	<p>Missing</p>	<p>#27 Forest Management Plans (FMP's) and operational plans which have incorporated the needs of other stakeholders.</p>

#### 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.

Description of Local Values	Description of Objectives	Indicators
<p><b>SUGGESTION-NEW SFMP</b></p> <p>Sustainable forest communities</p>	<p>Support local businesses and communities, that depend on forest management activity within the DFA, through initiatives that contribute to the area's economy.</p>	<p>5.2.1 Initiatives-Community</p> <p>5.2.2 Training and Skills</p> <p>5.2.3 Direct-Indirect Employment</p> <p>5.2.4 Aboriginal -Forest Economy</p>

<p><b>CURRENT SFMP</b></p>	<p>To support local &amp;</p>	<p>#28 The number (%) of business and</p>
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To support local & Aboriginal interests.	Aboriginal businesses where economically feasible.	employment opportunities given to local employers and/or citizens.
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**Element 5.3 (THIS ELEMENT NO LONGER EXISTS IN Z809-2008).** *The concepts were incorporated into other Elements)*

Promote the fair distribution of timber and non-timber benefits and costs.

<b>CURRENT SFMP</b>  To provide or purchase timber to and/or from tenure and other industrial and non-industrial stakeholders.	To schedule harvest activities to meet contractual obligations.	#29 The number of Business and Wood Supply Agreements with local tenure holders and processing facilities.
To incorporate non-timber benefits of the forest into operational planning.	Schedule and conduct harvest activities to co-exist with other industrial and non-industrial stakeholders.	#31 Part A Forest Management Plans (FMP's) and operational plans which have incorporated the needs of other stakeholders.

**Criterion 6: Society's Responsibility**

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 title and rights and treaty rights. Understand and comply with current legal requirements related to Aboriginal title and rights and treaty rights.

<u>Description of Local Values</u>	<u>Description of Objectives</u>	<u>Indicators</u>
<b>SUGGESTION-NEW SFMP</b>  Aboriginal title and rights, and treaty rights	Recognition of Aboriginal title and rights and treaty rights as related to forest management.	6.1.1 Rights and Title 6.1.2 Plan Acceptance 6.1.3 Management/Protection of Areas Where Cultural Practices/Activities Occur

<b>CURRENT SFMP</b>  Ensure that Aboriginal communities are consulted regarding operations.  <i>(This is now just part of it)</i>	To incorporate and continue a public involvement plan.	#30 Percentage of aboriginal communities that are provided with such information regarding annual harvesting and silviculture activities that it can assist with effective consultation.
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**Element 6.2: Respect for Aboriginal Forest Values, Knowledge, and Uses**

Respect traditional Aboriginal forest values, knowledge and uses as identified through the Aboriginal input process.

Description of Local Values	Description of Objectives	Indicators
<p><b>SUGGESTION-NEW SFMP</b></p> <p>Respect for Aboriginal values, knowledge, and uses.</p>	<p>Aboriginal values, knowledge and uses on the DFA, as identified by local Nations during consultations, will be documented and considered within forest management plans.</p>	<p>6.2.1 Aboriginal Knowledge</p>
<p><b>CURRENT SFMP</b></p> <p>Recognize and incorporate Aboriginal cultural and historical sites into operational planning.</p>	<p>To conduct operations while minimizing impacts on areas of historical, recreational, unique ecological, aesthetic, or other land use areas of significance.</p>	<p>#25 Part 2 Compliance with the Historical Resources Act.</p>

**Element 6.3: Forest Community well-being and resilience**

Encourage, co-operate with, or help to provide opportunities for economic diversity within the community.

Description of Local Values	Description of Objectives	Indicators
<p><b>SUGGESTION-NEW SFMP</b></p> <p>Resilient, healthy forest communities.</p> <p><i>(NEW in 2008 standard)</i></p>	<p>Tolko is supportive of efforts to diversity local economies. Worker and public safety are priorities.</p>	<p>6.3.1 Cooperation with Others 6.3.2 Safety 6.3.3 Safety Improvement</p>
<p><b>CURRENT SFMP</b></p> <p>Satisfaction with the opportunities for public involvement into the development of the SFM Plan, Detailed Forest Management Plan and operational plans.</p> <p><i>(this now belongs better under 6.4.)</i></p>	<p>To develop and implement a public participation process that meets the needs of the public and stakeholders while meeting the CSA requirements.</p>	<p>#31 Part C The number of public comments received regarding plans, the level of response by management, and whether the public comments are used to adjust plan development..</p>

**Element 6.4: Fair and Effective Decision-Making**

Demonstrate that the SFM 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.

Description of Local Values	Description of Objectives	Indicators
<p><b>SUGGESTION-NEW SFMP</b></p> <p>Fair and effective decision-making.</p>	<p>An effective public involvement process is in place that fosters forestry awareness, encourages the public to comment on forestry plans, and considers those comments.</p>	<p>6.4.1 Satisfaction-Public Process 6.4.2 Capacity Development, Meaningful Involvement 6.4.3 Capacity Development, Meaningful Involvement - Aboriginal</p>

<p><b>CURRENT SFMP</b></p> <p>Encourage education of stakeholders and public on the subject of forestry.</p> <p><i>Satisfaction with the opportunities for public involvement into the development of the SFM Plan, Detailed Forest Management Plan and operational plans. (From 6.3)</i></p>	<p>To increase knowledge &amp; awareness of forest management planning &amp; operations.</p>	<p>#32 The number events related to forestry awareness conducted by Tolko, HLLD.</p>
	<p>To ensure that participants in the development of the SFM Plan have access to all relevant information. (This now belongs better under 6.5)</p>	<p>#31 Part D Access to relevant information, including the CSA standard.</p>

**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.

Description of Local Values	Description of Objectives	Indicators
<p><b>SUGGESTION-NEW SFMP</b></p> <p>Information for Decision-Making</p>	<p>Provide educational opportunities on forestry, and ensure participants in the public involvement process have access to relevant information.</p>	<p>6.5.1 Educational Outreach (# people reached) 6.5.2 Available Information</p>

<p><b>CURRENT SFMP</b></p> <p>There was no <b>Element 6.5</b> at the time of the previous SFM Plan.</p>
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