

Forest Management Plan for the C5 Forest Management - Milestone Information Package Number 1

Crowsnest Forest Products, a subsidiary of Spray Lake Sawmills, is in the process of renewing the C5 Forest Management Unit 2006-2025 Forest Management Plan (FMP). The new 2026-2036 Forest Management Plan will replace the 2006-2025 FMP and contain specifics for when, where and how timber will be managed to balance social, economic, and environmental objectives for the area. The FMP will be developed in accordance with all applicable acts, regulations, policies, and ground rules. The primary documents guiding forest management are the Forests Act, the Timber Management Regulation, and the Alberta Forest Management Planning Standard (Version 4.1 April 2006). The FMP area is located within the South Saskatchewan Land-Use Framework Region and will be in alignment with the South Saskatchewan Regional Plan (SSRP) as well as relevant Subregional Plans such as the Livingstone Porcupine Hills Land Footprint Management Plan. Figure 1 illustrates the forest management planning hierarchy and the operational plans, Timber Harvest Planning and Operating Ground Rules required by the Alberta government.

South Sask, Regional
Plan. (SSRP & SSRP Sub
Plans)

Forest Management
Agreement (FMA)

Forest Management Plan
(FMP)

General Development
Plan (GDP)

Annual Operating
Ground Rules

Public Advisory
Committee

Consultation

Figure 1: Forest Management Planning Hierarchy

Development of the forest management plan is a dynamic process, incorporating knowledge from research, policies and legislation that regulate the forest industry, and ongoing review of performance from previous plans and operations. One of the first steps we are undertaking is the review of the Values, Objectives, Indicators, and Targets for the plan. This is an opportunity to develop the plan with an updated set of values and objectives that will serve as a foundation for FMP development.

Forest management plans fit into a defined scope. They must abide by higher level plans and processes that have been developed in order to sustainably operate on Crown land.

Managing Alberta's Timber Resources

Timber resources in Alberta are allocated through the forest tenure system. This provides a mechanism to manage timber resources in the Province, but land and resource ownership is retained by the Crown



(public land model). CFP is a forest tenure holder in the Province of Alberta through the Forest Management Agreement #2100047 (see map at end of document).

Crowsnest Forest Products' key roles and responsibilities as a tenure holder are reflected in documents such as the *Forests Act*, regulations issued pursuant to the *Forests Act*, (including Timber Management Regulation and the Forest (Ministerial) Regulation), forest tenure documents, forest policy directives, forest management plans and Timber Harvesting Planning and Operating Ground Rules. Pursuant to these agreements and dispositions, operational forest management activities undertaken become the responsibility of tenure holders but the Government of Alberta (GoA) retains control of these activities through review and approval of Forest Management Plans, General Development Plans and Annual Operating Plans. An FMA is still subject to following higher level Acts, regulations and plans for the region, the Province, and the Country (see useful links and key Acts on at the end of this document).

Forest Management Agreements provide the right to establish, grow, harvest and remove timber (FMA clause 2(1)) in the FMA area. An FMA does not provide authority over other companies, land use or non-timber resource users, nor does an FMA provide authority for cumulative effects management in the area; rather that is the responsibility of higher level plans (such as the South Saskatchewan Regional Plan) and/or integrated resources plans. The level of authority provided through an FMA are specifically prohibited from restricting access or constraining Alberta's right to manage other resources, including the allocation of land for other industrial uses. The FMA specifies the need for a forest management plan, following the forest planning standards. The primary focus of a forest management plan is forest vegetation and to mitigate the potential impact of forest operations on other values and uses. CFPs' Forest Management Plan will be a twenty-year plan, which is renewed every ten years, and guides operations and activities for the duration.

Value and Objective Development

Values, Objectives, Indicators and Targets (VOITs) form the basis of the FMP performance monitoring program. Values and Objectives are the first two components in the overall structure of developing VOITs. Below is the Alberta Forest Management Planning Standard definition of a VOIT:

- Value A characteristic, component or quality considered by an interested party to be important in relation to a Canadian Standards Association (CSA) sustainable Forest Management (SFM) element or other locally identified element (see list of useful acronyms at end of document)
- Objective a broad statement describing a desired future state or condition of values
- Indicator a variable that measures or describes the state of condition of a value
- Target a specific statement describing a desired future state of condition of an indicator. Targets should be clearly defined, time-limited, and quantified, if possible.

Values and objectives represent broad landscape level items, with indicators and targets being specific variables to monitor and measure.



To begin the forest management planning process, the Forest Resource Management Planning Section from the Alberta Government has provided a list of draft VOITs (Working Version April 11th, 2022), see table below.

Input from consultation can be integrated into the FMP as it develops. At this stage, we are looking for input into the VOITs. However, if there are specific areas of concern they will be thoughtfully considered and may be included into the contributing landbase, timber supply modelling, and the spatial harvest sequence. Concerns related to operational practices (silvicultural strategies, access plans, harvest operations, etc.) will be considered and could contribute to a strategy for operational implementation of the FMP.



	CCFM Criterion 1. Biological Diversity CSA SFM Element 1.1 Ecosystem Diversity: Conserve ecosystem diversity at the landscape level by maintaining the variety of communities and ecosystems that occur naturally in the Defined Forest Area (DFA)										
ID	Value	Objective	Indicator	Target ¹	Means to Identify Target	Legal / Policy	Means of achieving Objective and Target	Monitoring	Reporting	Acceptable Variance	Response
1	1.1.1 Landscape scale biodiversity	1.1.1.1 Maintain biodiversity by retaining the full range of cover types and seral stages ³	Area of old, mature, and young forest in each DFA subunit ⁴ by cover class ⁵	Over the 200 year planning horizon; a) Gross landbase: greater than X% old forest, greater than Y% mature plus old forest, less than Z% young forest; and b) Net landbase: greater than X% old forest, greater than Y% mature plus old forest, less than Z% young forest Note: Old forest retention shall include the full natural range of ages	Targets and seral stage definitions shall be based on sound science, ecological considerations, wildlife zones, and disturbance regimes. Target shall ensure representation of natural range of ecosystem attributes (e.g. Productivity class	Standard	Spatial Harvest Sequence (SHS)	Regular updates to inventory	FMP: Tables of indicators (values and targets) at 0, 10, 50, 100 and 200 years. Maps of indicators at 0, 10 and 50 years Performance: 5 year - Stewardship Report (None) 10 year - Stewardship Report [Compare time 0 of previous FMP to Classified Landbase (CLB) of new FMP]	Area (ha) of old and mature forests in each DFA subunit by cover class shall be between 90% and 100% of target areas. Area of young forest in each DFA subunit by cover class shall not exceed 110% of target area	Forest Management Plai (FMP)
2		1.1.1.2 Maintain biodiversity by avoiding landscape fragmentation	a) Range of patch ⁶ sizes by subunit and entire DFA	a) A distribution of harvest area sizes that will result in a patch size pattern over the 200 year planning horizon approximating patterns created by natural disturbances	Targets shall be based on sound science, ecological considerations, wildlife zones, and disturbance regimes. Target shall ensure representation of natural range of ecosystem attributes (e.g. productivity class	Standard	Spatial and temporal harvest planning. Patch size distribution targets are set for forest patches less than 20 years old	Regular updates to forest inventory	FMP: Tables of area of forest in each patch size class by subunit at 0, 10, and 50 years (or end of first rotation). Maps of patch size classes at 0, 10, and 50 years, (or end of first rotation) Performance: 5 year - Stewardship Report (None) 10 year - Stewardship Report (Compare time 0 of previous FMP to CLB of new FMP)	a) At the end of the 10- year FMP term the target distribution is achieved; or demonstrated progress to achieving target in one rotation where the pattern has deviated significantly fromthe target	
3			b) Area of old interior forest ⁷ of each cover class by subunit and entire DFA	b) Area of old interior forest will not be less than X% of each cover class over the next 200 years	Targets shall be based on sound science, ecological considerations, wildlife zones, and disturbance regimes. Target shall ensure representation of natural range of ecosystem attributes (e.g. productivity class	Standard	Spatial and temporal harvest planning	Regular updates to forest inventory	FMP: Maps and Tables of indicator at 0, 10, and 50 years Performance: 5 year - Stewardship Report (None) 10 year - Stewardship Report (Compare time 0 of previous FMP to CLB of new FMP)	b) Target is achieved for at least 80% of the planning period with variance not exceeding 20% below target	FMP
4		1.1.1.3 Maintain biodiversity by minimizing access	a) Open all-weather forestry road density by subunit	a) Less than X km/km ²	Targets shall be based on sound science, ecological considerations, harvest planning, wildlife zones, and social values	Planning Standard	Develop a strategy that coordinates access with other resource users, spatial/temporal sequencing of harvest, road closures and decommissioning. (SHS and long-term corridor access plan)	Regular updates to forest inventory	FMP: Table of road density by subunit at 0 and 10 years. Map of existing and proposed open and closed all weather roads. Report forestry roads and total (all users) roads Performance: Stewardship Reports	A variance not exceeding +/-20% must be achieved	Adjust strategies t in subsequent FMP



ID	Value	Objective	Indicator	Target ¹	Means to Identify Target ²	Legal / Policy Requirements	Means of achieving Objective and Target ²	Monitoring and Measureme nt	Reporting	Acceptable Variance	Response
5			b) Open seasonal/temporary forestry road length by DFA	b) Less than X km by subunit	Targets shall be based on sound science, ecological considerations, harvest planning, wildlife zones, and social values	Planning Standard	Road construction, maintenance and reclamation activities	Road plan (Operating Ground Rule) OGR 11.2	Performance: Stewardship Reports	A variance not exceeding +/-20% must be achieved	Adjust strategies in subsequent AOPs
6		1.1.4 Maintain plant communities uncommon in DFA or province	Area or occurrence of each uncommon plant community within DFA	X% of identified community will be maintained (separate target for each identified community)	Geographic Information System (GIS) analysis, Alberta Vegetation Inventory (AVI), ecosite phases, Alberta Conservation Information Management System (ACIMS), plant community classification and tracking list. Predict and identify occurrence of uncommon plant community	Planning Standard	Coordinating with other resource users, spatial planning of harvest and road construction, OGRs	Regular updates to inventory	FMP: Table with descriptive list and targets. Map(s) displaying known locations of uncommon plant communities. Performance: Stewardship Reports	At the end of the 10- year FMP term the target is achieved	Adjust strategies in subsequent AOPs
7		1.1.15 Maintain unique habitats provided by wildfire and blowdown events	a) Area of unsalvaged burned forest	a) Targets will be consistent with the Fire Salvage Planning and Operations – Directive No. 2007-01	Targets based on Fire Salvage Planning and Operations - Directive No. 2007-01. Ensure consistency with FireSmart objectives	Fire Salvage Planning and Operations - Directive No. 2007-01	Salvage planning	Organizatio n reports, air photo interpretatio n, ground surveys, post harvest assessments	FMP: Table and map of natural disturbances within the last 10 years -salvaged and unsalvaged. Report area (ha). Performance: Stewardship Reports	At the end of the 10- year FMP term the target is achieved or exceeded	Adjust strategies in subsequent AOPs
8			b) Area of unsalvaged blowdown	b) In areas of significant blowdown greater than X% will be left unsalvaged	Targets are to be based on sound science, ecological considerations and disturbance regimes	Planning Standard	Salvage planning	Inventory updates	Performance: Stewardship Reports	At the end of the 10- year FMP term the target is achieved or exceeded	Adjust strategies in subsequent AOPs
9		1.1.1.6 Retain ecological values and functions associated with riparian zones	Compliance with OGR	Consistent with OGR	OGR	Federal Fisheries Act, Water Act	Planning, TSA, OGRs	Organization reports, air photo interpretation, ground surveys, post harvest assess ments or other existing compliance monitoring systems	Performance: Stewardship Reports	No variance	Immediate remedial action and/or administrative penalty



ID	Value	Objective	Indicator	Target ¹	Means to Identify Target	Legal / Policy Requirements	Means of achieving Objective and Target ²	Monitoring and Measurement	Reporting	Acceptable Variance	Response
10	1.1.2 Local/stand scale biodiversity	level structure	a) % area / volume / stems residual structure (both living and dead), within a harvest area, representative of the status (live / dead), sizes, and species of the overstorey trees by subunit and entire DFA	a) A combination of single stems, clumps, and islands comprising X% of the harvested area/volume/stems within a subunit Note: A wide range in variability in harvest area level retention within a subunit is desired as long as the target level is achieved	Wildlife zones, roadside vegetation screens, recreational values, a esthetics, local knowledge, ACIMS, Alberta Biodiversity Monitoring Institute (ABMI) and Fisheries and Wildlife Management Information System (FWMIS)	Occupational Health and Safety Act, Forest and Prairie Protection Act	Implement residual structure retention strategies and OGRs	Organizatio n reports, air photo interpretatio n, ground surveys, post harvest assessments		At the end of the 10- year FMP term the target is achieved or exceeded	Adjust strategies in subsequent FMP
11			b) Percentage of harvested area by subunit with downed woody debris ⁸ equivalent to preharvest conditions	b) X% of harvest areas having downed woody debris retained on site	Assess preharvest downed woody debris condition by subunit or stand level average	Planning Standard	Organization developed standards	Organizatio n developed during FMP planning	Performance: Stewardship Reports, report % of harvest areas with retained downed woody debris	FMP determined	Adjust strategies in subsequent FMPs
12			, ,	Strategies to maintain consistent with provincial guidelines/OGRs	Local knowledge, ACIMS, ABMI	Planning Standard	Organization developed standards for sensitive site protection, OGRs 7.7.4	n reports, air photo interpretat	Performance: Stewardship Reports	None	Adjust strategies in subsequent FMPs
13		aquatic biodiversity by minimizing impacts of watercourse crossings	a) Permanent forestry watercourse crossings in compliance with Code of Practice for Watercourse Crossings b) Temporary forestry watercourse crossings in compliance with the Alberta Timber Harvest Planning and Operating Ground Rules	a) Permanent forestry watercourse crossing designs meet standards of the Code of Practice for Watercourse Crossings b) Temporary forestry watercourse crossing designs meet standards in the Alberta Timber Harvest Planning and Operating Ground Rules	a) Code of Practice for Watercourse Crossings b) Alberta Timber Harvest Planning and Operating Ground Rules	a)Water Act, Water (Ministerial Regulation) and Code of Practice for Watercourse Crossings b) Forests Act, TMR, and Alberta Timber Harvest Planning and Operating Ground Rules		e Crossing	including number, type and status of all watercourse crossings	None	Identify causal factors associated with incidents. Adjust strategic and operational practices to eliminate frequency and severity of incidents



	CCFM Criterion 1. Biological Diversity CSA SFM Element 1.2 Species Diversity: Conserve species diversity by ensuring that habitats for the native species found in the DFA are maintained throughout time										
ID	Value	Objective	Indicator	Target ¹	Means to Identify Target ²	Legal / Policy	Means of achieving Objective and Target ²	Monitoring and Measurement	Reporting	Acceptable Variance	Response
14	1.2.1 Viable populations of identified plant and animal species	_	a) Number of hectares of primary and secondary habitat from the fRI Grizzly Bear model, as measured at time 0 (CLB effective date) by DFA; b) Percent change in the Barred owl potential breeding pairs and Resource Selection Function (RSF) value from (CLB effective date) by DFA; c) Percent change in American marten habitat suitability index from (CLB effective date) by DFA; and d) Percent change in relative abundance value of five songbird species (Canada Warbler, Brown Creeper and Ovenbird. Also Bay-Breasted Warbler and/or Varied Thrush (depending on FMA) from (CLB effective date) by	a) Maintain or increase the number of hectares of primary and secondary habitat from the fRI Grizzly Bear model, as measured at time 0; b) Maximum 15% reduction in the breeding pairs indicator over the 200 year planning horizon and 15% reduction in the RSF indicators over the 200 year planning horizon; c) Maximum 15% reduction in the indicator over the 200 year planning horizon; and d) Maximum 15% reduction in the indicator over the 200 year planning horizon.	Alberta (GoA)). Based on sound science, ecological considerations, wildl	Recovery plans for species at risk, Federal Species at Risk Act	Harvesting plans, road construction, OGRs, planning and implementation, adherence to provincial wildlife guidelines. Adhere to SHS	Updates to vegetation inventory	future (10 and 20 years) landscape conditions for core and secondary habitat zones, core and secondary sink zones, non-critical habitat and road	target is achieved or	strategies in
	CCFM Criterion 1. Biolo		l genetic diversity by maintaining t	he variation of genes within species		l					
15	1.3.1 Genetic integrity of natural tree populations		Where applicable, number and area (ha) of in situ genetic conservation areas	Wild forest populations are retained as per requirements set forth in the	Gaps and needs as identified in GCP and requirements set for forth in FGRMS	Timber Management Regulation (TMR) 144.2(1) Requirements to meet this TMR are provided by FGRMS	GCP, FGRMS and GOA/Industry Tree Improvement Cooperatives. Identified conservation areas are designated by a protective disposition (i.e. ISP,DRS) in coordination between GOA and the Company	p Reporting	FMP: If applicable, table showing number and status of gene conservation areas and number provided in the DFA. If applicable, map showing locations of gene conservation areas. Performance: Stewardship Reports and FGRMS mandatory reports. Stewardship reporting requirements to be complete by end of first stewardship period	target is achieved or exceeded. No variance	Where neede adjust strategies as p Forest Health and Adaptatic Section requirement and in subsequent FMP



ID	Value	Objective	Indicator	Target ¹	Means to Identify Target ²	Legal / Policy Requirements	Means of achieving Objective and Target	Monitoring and Measurement	Reporting t	Acceptable Variance	Response
16		1.3.1.2 Retain wild	Where applicable, number	Wild forest genetic resources through	Gaps and needs as	TMR 144.2(1)	Ex situ CP,	Needs for	FMP: If applicable, table and map showing	Where ex situ gene	GOA approved
		forest genetic	or amount of genetic	ex situ conservation are retained as per	identified in Ex situ	Requirements	FGRMS and	ex situ	number of provenances, genotypes and seedlots	conservation is set	plan to address
		resources through	materials conserved ex situ	requirements set forth in FGRMS and as	CP and	to meet this	GoA/Industry	gene	and their origin within the DFA	up, no variance from	variance
		ex situ conservation	as field trials, experiments,	guided by the Ex situ Conservation Plan	requirements set	TMR are	Tree	conservati		targets as set by	
			clonal banks, arboretum,	for Forest Genetic Resources in Alberta	forth in FGRMS	provided by	Improvement	on will be	Performance: Stewardship Reports and FGRMS	FGRMS is acceptable	
			and long-term seed	(Ex situ CP)		FGRMS	Cooperatives	continuous	mandatory reports Stewardship reporting	unless identified	
			storage	Targets to be determined in accordance				ly	requirements to be complete by end of first	and approved in the	
				with FGRMS				identified	stewardship period	FMP approval	
								as		process. Adjustment	
								provincial		to targets and	
								forest		objectives are	
								manageme		allowable as more	
								nt		research and	
								priorities		development bring	
								and		new data and	
								environme		parameters forward	
								ntal			
								challenges			
								arise			
	CCFM Criterion 1. Biolo	·									
		1	rotected areas identified through go				I	I_	I		1
17	1.4.1 Areas with	· ·	Stakeholder consultation	Ongoing consultation with relevant			Management		Performance: Stewardship Reports	None	Adjust
	minimal human	trans-boundary		protected areas agencies	objective in	Standard	planning	tion of			strategies in
	disturbances	values and			Planning Standard or			consultatio			subsequent
	within managed	objectives into			other existing			n			FMP
	landscapes	forest management			consultation			processes			
					processes						



ID	Value	Objective	Indicator	Target [†]	Means to Identify Target ²	Legal / Policy Requirements	Means of achieving Objective and Target ²	Monitoring and Measurement	Reporting	Acceptable Variance	Response
	CCFM Criterion 2. Ecos										
40	CSA SFM Element 2.1	T .	la 107 6 : 11 :	T	la: .: r	T0 4D 4 44 5(4)	l	Inc.	la di Anis Aon si III a	I.,	la ir
18	2.1.1 Reforested harvest areas	2.1.1.1 Reforest all harvested areas		The sum of Indicators a, b and c = 100% of openings	Direction from Alberta	TMR 141.6(1) and 141.6(2); RSA	Implementation of silviculture strategies that ensure the target stocking and species composition is achieved for the opening	establishm ent survey	Performance: ARIS, AOP, Stewardship Reports	None	Adjust silviculture strategies
			be reported separately								
19		2.1.1.2 Meet or exceed the C and D Mean Annual Increment (MAI) standard for the population of openings surveyed in a given quadrant	Summed difference between target and actual C and D MAIs for openings surveyed in a five year quadrant, as reported to ARIS	100% of target	Direction from Alberta	TMR 141.7(1) and 141.7(2);RSA	Implementation of silviculture strategies that ensure the target productivity is achieved for the population of openings	performan ce survey	Performance: ARIS, AOP, ForestManagement Branch, Stewardship Reports	Meet or exceed the target C and D MAI for the DFA	Adjust silviculture strategies
20	2.1.2 Maintenance of forest landbase		_	A program to maintain the forest landbase	Forest inventory and land use data	Planning Standard	Maintain current forest cover inventory and land use updates	and land use	Performance: Stewardship Reports	Report actual	Adjust net landbase projections in next TSA



					. ,						
ID	Value	Objective	Indicator	Target ¹	Means to Identify Target	Legal / Policy Requirements	Means of achieving Objective and Target ²	Monitoring and Measurement	Reporting	Acceptable Variance	Response
21		2.1.2.2 Recognize	Amount of area affected	Area (ha) affected by significant	GoA and Company	Planning	Maintain up-to-	GoA and	Performance: AOP and Stewardship Reports	Report actuals	Event specific
		lands affected by		outbreaks, infestations, natural	forest health	Standard,	date information	Company			
		insects, disease or		calamities	surveys, inventory	Alberta Forest		annual			
		natural calamities			updates	Health Strategy		surveys			
						and Shared					
						Roles and					
						Responsibilities					
						between GoA					
						and the Forest					
						Industry					
22	2.1.3 Control	2.1.3.1 Control	Invasive plant program	Invasive plant program in place and	Field inventories	Weed	Co-operative	Field	Performance: Inspections summarized in	Report actuals	Improve
	invasive species	invasive plants		implemented		Management in	programs	inventories	Stewardship Reports		invasive plant
						Forestry					program
						Operations					
						Directive 2001-					
	COTA CALLADA DA CALL					06					
	CCFM Criterion 3. Soil	Soil quantity and quality									
23	3.1.1 Soil productiv		Compliance with OGRs	Less than 5%	Direction from	OGRs and Soils	Effective	Field	Performance: Inspection reporting, Stewardship	None	Immediate
		impact of roading	·		Alberta	Guidelines	planning and	inspection	Reports		remedial action
		and bared areas in					supervision of	reports and	·		to correct
		forest operations					operations	audits			
24		3.1.1.2 Minimize	Incidence of soil erosion	Complete compliance	Direction from	OGRs and Soils	Effective	Field	Performance: Inspection reporting, Stewardship	None	Immediate
		incidence of soil	and slumping		Alberta	Guidelines	planning and	inspection	Reports		remedial action
		erosion and					supervision of	reports and			to correct
		slumping					operations and	audits			
							adherence to				
							relevant OGRs				
	CCFM Criterion 3. Soil										
25		Water quantity and quality	Farmer time and aftimely an	a) Water sield 450/ /5 windows 500	ECA d\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\) A / - t A - t	A alle a ser ser a tra	In	Df	-20 t CUC	A di catala a mara da
25	3.2.1 Water	3.2.1.1 Limit impact of timber harvesting	Forecast impact of timber harvesting on water yield.	a) Water yield = 15% (Equivalent ECA = <30%)	ECA and Water Yield Models	Planning	Adherence to forecast harvest	Report on	Performance: 5 year - Stewardship Report (None)	<20 percent SHS variance	Adjust harvest pattern if
	quantity	on water yield	marvesting on water yield.	b) Zero Water Act penalties, Complete	Water Strategy and	Standard	sequence and	area (ha) harvested	10 year - Stewardship Report (None)	variance	problems arise
		on water yield		compliance with FMP	local needs	Standard	relevant OGRs	compared	previous FMP to CLB of new FMP)		problems anse
				compliance with Fivir	local fieeus		Televalit OGKS	with	previous rivir to CLB of flew rivir)		
								planned			
								harvest			
								area			
26	3.2.2 Effective	3.2.2.1 Minimize	Riparian buffers	Complete compliance	Direction from	OGRs	Effective	AOPs,	Performance: AOP, Stewardship Reports	None	Immediate
20	riparian habitats	impact of operations	maintained as outlined in	Complete compliance	Alberta	CONS	planning and	Stewardshi	renormance. AOF, Stewardship Reports	None	correction and /
	inpuliali liabitats	in riparian areas	OGRs		Aiberta		supervision of	p Reports			or
		iii iipaiiaii aicas	10010	T .	1	1	Sapervision of	Pirchoirs	1	1	l~'
							operations				administrative



ID	Value	Objective	Indicator	Target ¹	Means to Identify Target ²	Legal / Policy Requirements	Means of achieving Objective and Target	Monitoring and Measurement	Reporting	Acceptable Variance	Response
	CCFM Criterion 5. Multi	iple Benefits to Society						Medsarement			
		imber and non-timber bene						1			
27	5.1.1 Sustainable timber supplies	5.1.1.1 Establish appropriate AACs	Process described in Annex 1 is followed and standards are met		Consultation in planning process	Forests Act and TMR	Effective implementation of planning process	Multiple means: Forest Revenue Scaling and Tenure System (FOREST), ARIS, AOPs, Stewardshi p Reports, filed inspection	Performance: 5 year - Stewardship Report (None) 10 year - Stewardship Report (Compare time 0 of previous FMP to CLB of new FMP)	Issue specific	Adjust AAC using most current and relevant information
	CCFM Criterion 5. Multi	iple Benefits to Society						Inspection			
	CSA SFM Element 5.2 Communities and Sustainability										
28	5.2.1 Risk to communities and landscape values from wildfire is low.	1	a) Percentage reduction in "Summer" Fire Behaviour Potential area (ha) within the FireSmart Community Zone	a) Reduce the area (ha) in the high, very high and extreme "Summer" Fire Behaviour Potential rating within FireSmart Community Zones b) Reduce the area (ha) in the high, very high and extreme "Summer" Fire Behaviour Potential rating across the DFA	Fire Behaviour Potential and Fuel Grid Assessment (Annex 3 Report Provided to FMA Holder) FMA Holder assessment of the SHS developed using recommendations from Annex 3 Report	Planning Standard	SHS, thinning, partial harvest techniques, prescribed burns, FireSmart Treatments	ent Assessmen	FMP: Maps Fire Behaviour Potential, Fuel Grid, Historical Wildfires and Natural Subregions. Performance: Stewardship Reports - Report on actual harvested area a) and b)	Issue specific	Adjust harvest sequence
29	5.2.2 Provide opportunities to derive benefits and participate in use and management	5.2.2.1 Integrate other uses and timber management activities	Extent of various uses	To be determined in the planning process	Consultation and co- operation	Legislation and policy	Effective implementation of plans	AOPs, Compartm ent Assessmen ts	Performance: Stewardship Reports	Issue specific	Adjust activities
30	5.2.3 Forest Productivity	5.2.3.1 Maintain Long Run Sustained Yield Average	Regenerated stand yield compared to natural stand yield	No net decrease from the natural stand productivity	FMP TSA	Planning Standard	Effective implementation of plans	Stewardshi p Reports	Performance: TSA 5 year - Stewardship Report (None) 10 year - Stewardship Report (Compare time 0 of previous FMP to CLB of new FMP)	Report actual	Adjust AAC using most current and relevant information

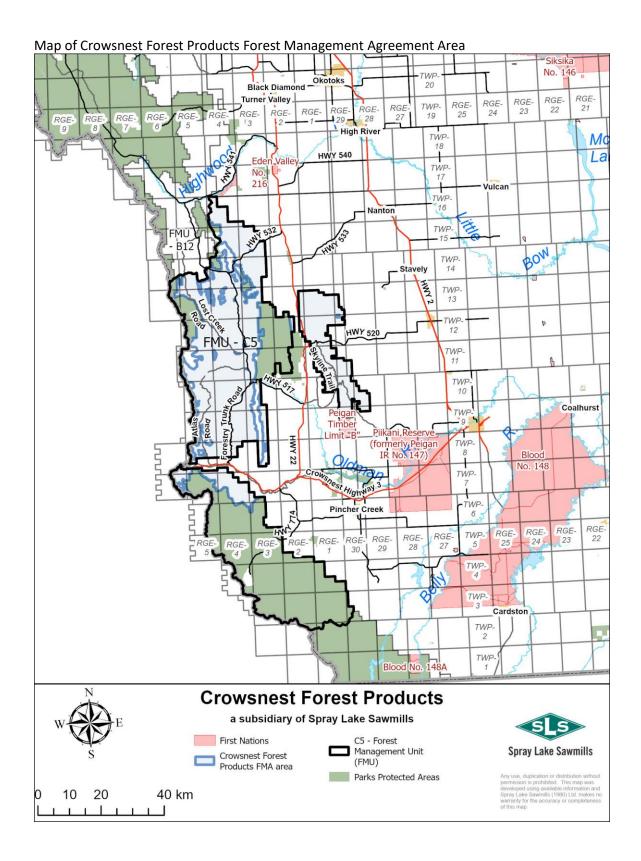


ID	Value	Objective	Indicator	Target ¹	Means to Identify Target ²	Legal / Policy Requirements	Means of achieving Objective and Target ²	Monitoring and Measurement	Reporting	Acceptable Variance	Response
	CCFM Criterion 6. Acce	pting society's responsibility	for sustainable development								
	CSA SFM Element 6.1 Indigenous and treaty rights and Indigenous forest values										
31	6.1.1 Compliance	6.1.1.1 Implement	Meet Alberta's current	Consult at the community level with	The Government of	Planning	Effective		Performance: Stewardship Reports or as required	None	Adjust activities
	with government	Indigenous	expectations for	designated representatives of affected	Alberta Indigenous	Standard	implementation		in Indigenous Consultation Process		
	regulations and	Consultation Process	Indigenous consultation	Indigenous communities	Consultation and		of Indigenous				
	policies				Policy Guidelines		Consultation				
							Process				
	CCFM Criterion 6. Acce	pting society's responsibility	for sustainable development								
	CSA SFM Element 6.2 F	Public participation and infor	mation for decision-making								
32	6.2.1 Meaningful	6.2.1.1 Implement	Meet expectations of	To be determined in the planning	Consultation	Planning	Effective		Performance: Stewardship Reports or as required	None	Adjust activities
	public	Public	Section 5 of CSA Z809-02	process		Standard	implementation		in Public Participation Process		
	participation is	ParticipationProcess					of Public				
	achieved						Participation				
							Process				

Footnotes:

- [1] "X" variable in target description to be determined by the FMP planning process.
- [2] Items noted under the "Means to Identify Targets" and "Means of Achieving Objectives and Targets" are intended as suggestions and not meant to limit potential approaches. The list is not comprehensive or mandatory.
- [3] Seral Stage: Seral stages definitions should include the following categories: Initiation, Establishment, Aggradation (stem exclusion), Mature, and Old (Song 2002, Ecological Basis for Stand Management in Alberta). Old forest is defined as stands 40 years older than MAI culmination age.
- [4] Subunit: any acceptable stratification of the DFA. Delineation of planning "subunits" for the DFA will be made during FMP planning. However, delineation should reflect ecological considerations. Planning subunits may correspond to planning compartments.
- [5] Cover-classes: definition will be developed through FMP planning. In general, cover-class is a coarser grouping than the cover type (AVI stand label) but provides finer resolution than the cover groups (C, CD, DC, D) and will reflect leading species and mixedwood types.
- [6] Patch: a stand of forest in the same seral stage, and not split by a linear feature greater than 8m wide. Linear features in this definition include roads, pipelines, power lines, and rivers, but does not include seismic lines.
- [7] Interior forest: a forested area greater than 100 hectares in size located beyond edge effect buffer zone [7.2] along the forest edge [7.1]. For interior forest objective use a common age definitions for all cover classes to prevent breaking up forest patches that have a common origin date.
- [7.1] Forest edge: any of the following: a) a linear disruption in forest cover greater than 8m in width, or, b) the line along which forest seral stage class changes.
- [7.2] Edge effect buffer zone: 60 m where adjacent area is non-forested or less than 40 years old; 30 m where adjacent forest stand is >= 40 years and less than mature forest; 0 m where adjacent stand is mature forest.
- [8] Downed woody debris: wood lying at an angle of less than 45 degrees from the ground and having a diameter greater than 7.5 cm.
- [9] Wild: genetic materials of native species originating from natural regeneration (FGRMS).







ADDITIONAL USEFUL LINKS

Regional planning in Alberta including the South Saskatchewan Regional Plan https://www.alberta.ca/regional-plans-and-recreation.aspx

Spray Lake Sawmills B12 FMP

https://spraylakesawmills.com/woodlands/forest-management-planning/

Spray Lake Sawmills Operating Ground Rules & Revisions

https://spraylakesawmills.com/woodlands/forest-management-planning/operating-ground-rules/

Acts

Provincial - All Provincial acts are available at the Queen's Printer - www.qp.alberta.ca

Forests and Prairie Protection Act – Establishes the provision of wildfire management activities, programs and wildfire-related enforcement

Forests Reserves Act and regulation – Provides for the establishment of Forest Reserve **Provincial Park legislation** – (Provincial Parks Act and Wilderness Areas, Ecological Reserve, Natural Areas and Heritage Rangelands Act) – Plays an important role in protecting natural diversity and intact habitat for supporting biodiversity, in addition to ensuring a wide range of recreation opportunities and tourism experiences.

Public Lands Act and Public Lands Administration Regulation – Provides for the settling of land disturbance standards and land conservation tools in support of biodiversity management.

Water Act – Provides for the allocation and use of Alberta's water resources and the protection of rivers, streams, lakes, wetlands and aquifers.

Wildlife Act – Provides for the designation and recovery of species at risk.

Regulated Forestry Professionals Act – Outlines mandatory registration for forestry practitioners & the means to define a Code of Ethics as well as the ability to enforce it.

Federal

Species at Risk Act (SARA) – The Act designates a committee to report to the federal Minister of the Environment on threatened species and assess their conservation status as well as recommendations to recover threatened habitats.

Navigation Protection Act - Provides a schedule which clearly lists the major waterways for which regulatory approval is required prior to the placement of construction of a work.

Federal Fisheries Act – Protection of fish and fish habitat, through HADD (harmful alteration, disruption or destruction of fish habitat) and outlines when Fisheries and Oceans Canada (DFO) requires contact.

Migratory Birds Convention Act – Outlines the responsibility of Environment Canada to develop and implement policies and regulations to ensure the protection of migratory birds, their eggs and their nests.

STANDARDS

Alberta Forest Management Planning Standard Version 4.1. – April 2006

The Alberta Forest Management Planning Standard (the Standard) and its Annexes, interpretive bulletins and updates comprise the standard for preparing and implementing Forest Management Plans (FMPs) in Alberta. Available at:

https://www.alberta.ca/forest-management-manuals-and-guidelines.aspx



SSRP AND SUB-PLAN INFORMATION

South Saskatchewan regional planning

https://www.alberta.ca/south-saskatchewan-regional-planning.aspx
Livingstone Porcupine Hills Recreation Management Plan & Recreation Management Plan
https://www.alberta.ca/south-saskatchewan-subregional-planning.aspx

USEFUL ACRONYMS

ALSA	Alberta Land Stewardship Act
AAF	Alberta Agriculture and Forestry
CSA	Canadian Standards Association
DFA	Defined forest area
FMA	Forest Management Agreement
FMP	Forest Management Plan
DFMP	Detailed Forest Management Plan
GoA	Government of Alberta
SFM	Sustainable Forest Management
SLS	Spray Lake Sawmills
SSRP	South Saskatchewan Regional Plans
VOIT	Value Objective Indicators & Targets