



Introduction

The Cheakamus Community Forest encompasses more than 33,000 hectares of land surrounding Whistler. It was established in April 2009 when the Lil'wat Nation, Squamish Nation, and the Resort Municipality of Whistler (RMOW) jointly signed a 25-year tenure with the B. C. Ministry of Forests and Range. These three equal partners oversee the management and operations of the forest under the auspices of the Cheakamus Community Forest Society, an independent not-for-profit organization.

Community forests are different from other tenures because they are managed by the community, for the benefit of the community. The Cheakamus Community Forest actively works with local stakeholders to develop forest harvesting and management plans that benefit the larger community, such as protecting recreation features, viewscapes, cultural assets, and important habitats.

Indicators must be:

- *Measurable*
- *Credible*
- *Engaging*

Indicators Framework and Methodology

The BC Community Forest Association (BCCFA) collaborated with the Ministry of Forests, Lands and Natural Resource Operations to develop an indicator system to measure and track the benefits of community forests. The CCF uses the BCCFA indicator framework plus additional indicators specific to the CCF to collect data that will be used to track both the community benefits and contributions of this venture.

Objectives

Eighteen indicators are used to measure progress towards the following **four key objectives**:

A. Community forests provide economic benefits to their communities and to British Columbia.

B. Community forests provide social benefits to their communities and to the province; they promote community involvement and participation, and forest worker safety.

C. Community forests promote communication and strengthen relationships between Aboriginal and non-Aboriginal communities and persons.

D. Community forest management is consistent with sound principles of environmental stewardship that reflect a broad spectrum of values.

Community Forest Objectives and Indicators

Objective A: Community forests provide economic benefits to their communities and to the province of British Columbia.

This is measured by:

1. The number of jobs the community forest creates
2. The total economic activity generated by the community forest
3. The cash and in-kind contributions made by the community forest
4. The additional funds leveraged by those contributions
5. The active role the community forests play in the forest sector through harvesting
6. Support for the full spectrum of milling and manufacturing facilities
7. Investments in the future economic return of the forest through intensive silviculture
8. Efforts to diversify the economic activities of the community forest

Objective B: Community forests provide social benefits to their communities and to the province; they promote community involvement and participation, and forest worker safety.

This is measured by:

9. The accountability of the community forest agreement holder to the local community
10. The range and depth of engagement with different sectors of the community
11. Investments in education
12. Investments in forest-based tourism and recreation
13. Proactive efforts to reduce the wildfire hazard to communities
14. Forest worker safety

Objective C: Community forestry promotes communication and strengthens relationships between Aboriginal and non-Aboriginal communities and persons.

This is measured by:

15. The breadth and depth of First Nation involvement in community forests.

Objective D: Community forestry is consistent with sound principles of environmental stewardship that reflect a broad spectrum of values.

This is measured by:

16. The management of sensitive areas
17. Investments in forest stewardship incremental to legal requirements
18. Compliance with environmental standards

Indicator #1: Number of Jobs

Addresses the Economic Objective

Rationale

This indicator will measure both the number of jobs per year and the number of jobs per cubic metre. Employment during shoulder season and diversifying the tourist economy is one of the primary benefits of the CCF. This indicator measures the total direct employment and contract labour generated by the community forest. Further, the number of jobs/m³ shows the value, in terms of employment, of the harvest volume allocated to community forests.

Ref#	Indicator	Amount		Notes
1 (a)	Direct Employment	1.3	FTE (1820hrs/yr)	Forest Manager = 425 hrs Administrator = 255 hrs Contract Admin /Legal =80 hrs Contract Field Services =110 hrs Production 3622/40m ³ /day =90 days or 720 Sort/Handling = 3622/50m ³ = 72days or 576 Silviculture = 15 days or 120 hrs Total = 2,286 hrs
1 (b)	Number of people involved	22	#	Forest Mgmt. 3, Accounting 1, Admin 1; Logging-Sort 10, Hauling 2, Road 1, SilvPlnt 4
1 (c)	Volume M ³ of Harvested	3622	M ³	P02, W08
1 (d)	Production / AAC	17 %	%	2014-2019 Ct Control Period
1 (e)	FTE/1000m ³	0.32	#	

Indicator #2: Total Economic Activity

Addresses the Economic Objective

Rationale

As long-term area-based tenures, community forests support long-term community economic development resulting in more self-reliant rural communities. The total annual cost of sales and expenditures is an indicator of the total economic activity generated by the community forest.

Ref#	Indicator			Notes
2 (a)	Total Value of Sales	215,466	\$	Sold to Garibaldi to clear year end
2 (b)	Total Value of Expenditures	256,355	\$	Includes RMOW Fuel Red support
2 (c)	Rate of return per cubic metre	(\$ 11.29)	M ³	

Indicator #3: Community Contributions

Addresses the Economic, Social and Environmental Objectives

Rationale

The cash and in-kind contributions made by the community forest are an important indicator of the distribution of economic benefits locally. In many cases, these contributions serve social objectives, in addition to economic ones.

Ref#	Indicator	Amount		Notes
3 (a)	Total \$ contributed by CCF through improvements to the forest	\$91,462	\$	\$525 Road Maintenance Brandywine FSR; \$15,338 for EBM Reserve Project, \$75,554 for Rethel Bridge replacement.
3 (b)	Total \$ contributed in kind	\$79,550	\$	\$50,000 from Hydro / Telus for Rethel bridge; \$28,500 from FLNRO to repair access to Callaghan Lake; \$1,050 Road Maintenance from others;

Indicator #4: Funds Leveraged by the Community Forest

Addresses the Economic, Social and Environmental Objectives

Rationale

In many cases, the profits generated and contributions made by community forests are used as seed money to grow larger projects and generate even more local benefits. This indicator will show how CFA funds are used to leverage additional funds for community priorities. As with Indicator #3, often these projects serve social objectives, in addition to economic ones.

Ref#	Indicator	Amount		Notes
4 (a)	Total \$ from outside sources for local projects, leveraged by CCF.	0		Ancient Cedars Trail Upgrade project sponsored by Rotary and WB HIT was not leveraged with CCF

Indicator #5: Cut Control

Addresses the Economic Objective

Rationale

Community forests play an active role in the forest sector through harvesting. This indicator measures its success at meeting cut control requirements, keeping the supply of logs flowing.

Ref#	Indicator	Amount		Notes
5 (a)	Total volume in current cut control period 2014-2019	104,000	M3	Total cut 2009-2013 was 56,109m3
5 (b)	AAC current position	26%	%	2014= 21,798 plus 1,617 waste

				2015= 3,622 Total = 27,037m3
5 (c)	Year within cut control cycle	2	Year	On track to achieve 100% -No, target is now 75% due to no coastal demand for pulp logs

Indicator #6: Distribution of Log Sales

Addresses the Economic Objective

Rationale

Community forests supply wood on the open market to major industry, and also to small and medium sized mills and value added manufacturers. In doing so, they strive to support the full spectrum of milling and manufacturing facilities. This indicator will provide updated information on the distribution of log sales that can be tracked over time.

Ref#	Indicator	Amount		Notes
6 (a)	Volume to Chip Mills (Hog)	0	Tonnes	RMOW Composter
6 (b)	Volume to small manufacturers		M ³	Mill consumption <95k m3
	Volume to med manufacturers	809	M ³	Mill consumption >95 <295K m3 Cedar gang/cns
	Volume to large manufacturers	2338	M ³	Mill consumption >295,000k m3 Rotary Cutters
6 (c)	Volume to Poles or Log Homes			
6 (d)	Volume to Custom Cut		M ³	
6 (e)	Volume to Pulp	788	M ³	Logs only
6 (f)	Volume of export	300	M ³	Unmanufactured logs estimate only
6 (g)	Other (i. e. firewood or cultural logs)	0	M ³	Does not include public gathering from roadside materials

Indicator #7: Investments in Intensive Silviculture

Addresses the Economic Objective

Rationale

As long-term, area-based tenures, community forest agreements create strong incentives for investment in the future. This indicator measures investments in the future economic return of the forest. By measuring the investments in intensive silviculture, incremental to legal requirements, it will demonstrate efforts to increase the growing capacity in the community forest.

Ref#	Indicator	Amount		Notes
7 (a)	Incremental Silviculture Projects	0	\$	CCF's own investment
7 (b)	Incremental Silviculture Projects	0	\$	Total value from outside sources
7 (c)	Total Ha Treated	0	Ha	

7 (d)	Total cumulative Ha Treated	0	Ha	
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Indicator #8: Economic Diversification

Addresses the Economic Objective

Rationale

One of the provincial objectives for the community forest program is to diversify the use of and benefits derived from the community forest agreement area. The CFA tenure is one of only two forest tenures in BC that has the right to develop and manage Non Timber Forest Resources (NTFRs). Section 43.3 of the Community Forest Legislation through the Forest Act gives rights to harvest and collect fees for NTFRs.

The indicator will show the degree to which community forests are generating revenue from sources other than timber. These include botanical forest products and other prescribed products (such as carbon credits) as listed in Schedule C of the Community Forest Agreement Licence.

Ref#	Indicator	Amount		Notes
8 (a)	Value of NTFR	0	\$	Authorized and regulated gathering only
8 (b)	Value of Annual Carbon Sales	102,765	\$	2015 gross contribution
8 (c)	Winter Trail Fees collected on Forestry Roads : Brandywine FSR Callaghan Cr FSR	unavailable	\$	Winter Trail Fees Motorized

Indicator #9: Community Accountability

Addresses the Social Objective

Rationale

One of the elements of community forests that set them apart from other forest tenures is their accountability to their local communities. This accountability is the cornerstone of local decision-making. In community forestry, management decisions are made by those who have to live with them. Furthermore, when local people have a hand in management of the forests adjacent to their rural communities, they are more likely to be innovative in the integration of multiple values in their decision-making. This indicator measures whether the community forest reports out annually to its community on its progress towards objectives as identified in the Community Forest Agreement Management Plan.

Ref#	Indicator	Amount		Notes
9 (a)	# of open houses in year	1	#	Joint EBM Reserve and Harvesting Plan Open House
9 (b)	Annual report produced	1	#	Combined BCCFA – CCF Annual Report to be posted on website

Indicator #10: Public Engagement

Addresses the Social Objective

Rationale

While Indicator #9 focuses on reporting out to the community, this indicator measures the efforts of the community forest to engage with the diversity of community members. Outreach to the full array of forest users and community members leads to an improved awareness of forest management among members of the public, and increases potential to resolve conflicts over timber harvesting in watersheds and other sensitive areas.

Ref#	Indicator	Amount		Notes
10 (a)	# CCF meetings or field trips	2	#	FWAC Monitoring and Reporting
10 (b)	# of stakeholder meetings	3	#	Targeted stakeholder groups
10 (c)	# of website views	8,027?	#	Page Views

Indicator #11: Investments in Community Education

Addresses the Social Objective

Rationale

Community forests provide an opportunity to link community members to the forest, and to increase their understanding of forest ecosystems and management. As long-term, area-based tenures, community forests provide enhanced opportunities for education and research. Community forests can be laboratories for testing innovative forest practices. This indicator measures the investments the community forest is making in education and capacity building.

Ref#	Indicator	Amount		Notes
11 (a)	Hours of educational activities	10	Hrs	Includes open houses
11 (b)	Value invested within Interpretive Forest	0	\$	Cheakamus
11 (c)	Capacity Building	0	\$	Training supported by CCF (first aid, faller certification, on-site training, etc.)

Indicator #12: Investments in Forest-based Tourism and Recreation

Addresses the Social Objective

Rationale

The Sea to Sky corridor's economy is dominated by the tourism industry, and forest-based commercial recreation is a large component along with significant public recreation use. One of the most significant benefits for many communities that have community forests are the investments the organization makes in creating, improving and maintaining recreational infrastructure and opportunities. This indicator will measure the value of the cash and in-kind investments in recreation that the CCF has made in the reporting year and over time.

Ref#	Indicator	Amount		Notes
12 (a)	Annual cash investment in forest-based tourism & recreation in K3V	8,500	\$	Completion of Rotary-WB Ancient Cedars signage and trail improvement project.
12 (b)	Cumulative in-kind investment in forest-based tourism & recreation in K3V	37,750	\$	2011 Runaway Train- \$750 for 0.3km 2013 Ancient Cedars Access \$16,000 2014 Ancient Cedars Trail and Signage \$12,500 2.5km 2015 Ancient Cedars Trail ext 1.5km \$8,500 Does not include RMOW Skywalk Trail
12 (c)	New or modified trails	4.0	Km	Ancient Cedars Project – Rotary –WB- CFOW
12 (d)	Total Km of trails in CCF and urban areas of RMOW	645	km	Double Track Trail: 146km Hiking: 146km Mt Biking: 297km Snowmobile: 5km Valley Trail Paved" 38 (Source AMP 2016)
	Other recreation assets created or implemented in CCF	0	#	
12 (f)	# of partnerships in forest recreation projects	0	#	

Indicator #13: Proactive Management of Wildfire Hazard

Addresses the Economic, Social and Environmental Objectives

Rationale

The combined effects of climate change, the mountain pine beetle, past management increasing forest fuels and the province's limited fire suppression capacity are leading to an increase in wildfire incidence and severity. Community forests are situated in the interface between communities and wild forest lands, and are uniquely positioned to serve as a leader in the coordination and management of these areas to reduce the risk of catastrophic wildfire. Efforts to manage the wildfire hazard to communities are primarily driven by social objectives, however depending on the ecosystem type, history and outcome of the treatments; they may also bring economic and environmental benefits.

Ref#	Indicator	Amount		Notes
13 (a)	Fuel Reduction Treatments within K3V	5.5	Ha	R05 C3 North felled but not completed until 2016
13. (b)	Value of interface projects	49,724	\$	RMOW funded including Px development at \$1390/ha
13 (c)	Total cumulative area treated for Wildfire reduction in K3V	21.0	Ha	Callaghan Cr R05

13. d	Total cumulative value of landscape level operational fuel reduction treatments in CCF	132,075	\$	RMOW- fund including Px developments and does not include Composter debris transport and chipping costs. (For BCCFA report use 10% of all project and total as in kind contribution to account for administration and cutting authority)
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Indicator #14: Forest Worker Safety

Addresses the Social Objective

Rationale

One of the provincial government's objectives for the community forest program is to advocate forest worker safety.

Ref#	Indicator	Amount		Notes
14 (a)	# of Safe Certified Projects	2	#	Skytech Logging Ltd Mumleqs Construction Ltd
14 (b)	# of recordable incidents	0	#	
14 (c)	# of time loss incidents	0	#	

Indicator #15: First Nations Involvement

Addresses the Social Objective

Rationale

The CCF is managed by three equal partners including the Squamish and Lil'wat Nations. This indicator will measure the breadth and depth of First Nations involvement in the community forest. It will serve to demonstrate how effective the CCF is at working with the First Nations within whose territory the community forest is located.

Ref#	Indicator	Amount		Notes
15 (a)	% of First Nation partners on Board	66	%	
15 (b)	# of First Nation partners	2	#	
15 (c)	# of work days on Cultural Field Assessments	2	#	
15 (d)	% of First Nation owned contractors involved in log production	15	%	Estimate

Indicator #16: Management of Sensitive Areas

Addresses the Environmental Objective

Rationale

Community forests, by their design, must integrate the values of the communities that manage them. The CCF operates under a voluntary Ecosystem Based Management (EBM) system which integrates environmental, social and economic values. It must also comply with the tenure regulations and Acts of British Columbia. EBM seeks to balance choices in maintaining and/or enhancing ecological integrity while at the same time maintaining and/or enhancing human well-being. EBM uses science-based decision making, traditional and local knowledge, engagement of community members, ongoing monitoring, and adaptive planning and management, which allows for changing EBM practice and management in response to an evolving knowledge base.

Ref#	Indicator	Amount		Notes
16. a	Total Ha in CCF	33,018	Ha	
16. b	Total Ha protected by government enactments	33	%	OGMA = 3,165Ha Wildlands= 6145 Ha FRPA = 555ha Total Legal Protection = 9865ha.
16. b	Total Ha voluntarily constrained under EBM	11	%	EBM Reserves= 3713 ha
16. c	Ha of special forest areas identified in year	0	Ha	EBM reserve project completed in 2015
16. d	Cumulative area harvested in CCF under retention regime	207	Ha	Total area since 2009 as per Annual Plan Map
16.e	Percentage of CCF that is operable & sensitive	24	%	FRPA THLB 11,024 EBM THLB 8,056
16.f	Percentage of CCF that is sensitive	2	%	Special Management Zones have been established under the IRM 2015 plan and total 649Ha

Indicator #17: Investments in Forest Stewardship

Addresses the Social and Environmental Objectives

Rationale

This indicator will demonstrate the investments the community forest is making in enhanced forest stewardship, incremental to legal requirements.

Ref#	Indicator	Amount		Notes
17 (a)	Ha of roads or disturbed areas fully rehabilitated and returned to the forested land base in year	0	Ha	
17 (b)	Ha of riparian enhancement or restoration in year	0	Ha	
17 (c)	Annual area harvested using EBM and retention principles	14.2	Ha	
17 (d)	Annual average opening size	2.4	Ha	

17 (e)	Investments in enhanced management	0	\$	Incremental to legal requirements (information gathering and planning; monitoring and research; inventory, extra surveys, etc.)
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Indicator #18: Compliance with Environmental Standards

Addresses the Environmental Objective

Rationale

This indicator shows that the management of the community forest is in compliance with statutory requirements for resource management.

Ref#	Indicator	Amount		Notes
18. a	Confirmed Compliance inspections (FLNRO)	0	#	
18. b	Non-compliance items	0	#	
18. c	3 rd party audit	No	Yes/No	

End trc Jan. 19 2017