SFI 2020 Annual Report Survey

Profile

Verify My Organizational Info

No answer

sect 1 preload indicator

Products and Contacts

Certificate Type 2 *No answer*	**Country** *No answer*	**Other Operations** *No answer*
SFI Forest Management SFI Forest Management	**SFI Forest Management - Country** Canada	**SFI Forest Management - Other Operations** *No answer*
SFI Fiber Sourcing SFI Fiber Sourcing	**SFI Fiber Sourcing - Country** Canada	**SFI Fiber Sourcing - Other Operations** *No answer*
SFI Chain of Custody *No answer*	**SFI Chain of Custody - Country** *No answer*	**SFI Chain of Custody - Other Operations** *No answer*
SFI Certified Sourcing *No answer*	**SFI Certified Sourcing - Country** *No answer*	**SFI Certified Sourcing - Other Operations** *No answer*

About this Survey

The area reported in this survey is in:

Hectares

	Country	State/Prov	Certified Area (Acres)	Certified Area (HA)	Public/Private	Forest Ownership Type	% open to the public for recreation	Are ope rec on lan
1	Canada	Alberta	3,273,393	1,324,695	Public	Provincial	100	No
2	Canada	British Columbia	27,543,352	11,146,398	Public	Provincial	100	No
3								*No*
4								*No*
5								*No*
6								*No*
7								*No*
8								*No*
9								*No*
10								*No*
11								*No*
12								*No*
13								*No*
14								*No*
15								*No*
16								*No*
17								*No*
18								*No*
19								*No*
20								*No*
21								*No*
22								*No*
23								*No*
24								*No*
25								*No*

Chemical use and forest conversion

Do you use a WHO 1A or 1B pesticide in your operations?

No

Did you stop using a WHO 1A or 1B pesticide in your operations due to requirements in the SFI 2015-2019 Forest Management Standard in 2020?

No

Did you convert one forest cover type to another forest cover type as defined by Indicator 1.2.1

No

Did you convert any forest lands not covered under the scope of your SFI certificate to other land uses in 2020 (e.g. agriculture)?

No

I. Harvest

Canada - Program Participant Land covered under the scope of your SFI certificate

What is the total area of harvest units completed last year that would qualify as final harvest? - Canada

37880

Final Total Clearcut: What is the total area of final harvest units completed last year by clearcutting? - Canada

25569

Average Clearcut: What was the average area of final harvest units that were clear-cut (even-aged)? - Canada

41.9

Total Harvest NOT Classified as Final - Canada

12312

Seed tree and shelterwood - Canada

TRUE

Seed Tree and shelterwood Explain - Canada

210

Selection Methods - Canada

No answer

Selection Methods Explain - Canada

No answer

Thinning or sanitation salvage - Canada

No answer

Thinning or sanitation salvage Explain - Canada

No answer

Other Methods - Canada

No answer

Other Methods Explain - Canada

No answer

II. Reforestation

Artificial - Planting

Within 1 year of final harvest : 07842
Within 2 years of final harvest : 013464
More than 2 years of final harvest : 05579
Total for 2020 : 26885

Artificial - Direct Seeding

Within 1 year of final harvest : 0
Within 2 years of final harvest : 0
More than 2 years of final harvest : 0
Total for 2020 : 0

What was the Natural Regeneration in 2020? - Canada

1661.6

What was the percent of harvest units regenerated after 5 growing seasons? - Canada

92.1

What was the total area regenerated after 5 growing seasons? - Canada

28765.1

Number of private forest landowners selling timber (stumpage, logs or chips) directly to your organization last year

Canada : 29

Canada - Add New Region

Alberta
British Columbia

	Units	Volume	% Delivered by Qualified Logging Professionals	Alberta - Enter Reason Less than 100%	% from SFI only certified forests	% from CSA only certified forests	% from FSC only certified forests
Private - Fee and long-term lease	*No answer*	0.0					
Private - Direct purchase from TIMOs & REITs	*No answer*	0.0					
Private - Direct purchase from family forest owners	Cubic Meters	0	0		0.0	0.0	0.0

	Units	Volume	% Delivered by Qualified Logging Professionals	Alberta - Enter Reason Less than 100%	% from SFI only certified forests	% from CSA only certified forests	% from FSC only certified forests
Private - Direct purchase from Aboriginal/Tribal lands	*No answer*	0.0					
Private - Direct purchase from conservation lands	*No answer*	0.0					
Private - All other direct purchase from private landowners	Cubic Meters	33120.3	98.0	Lack of available trained logging professionals.	0.02	0	0
Public - Crown land	Cubic Meters	12053.2	100		100	0.0	0.0
Public - Non-controlled Crown land	*No answer*	0.0					
Other Sources	*No answer*	0.0					

	Units	Volume	% Delivered by Qualified Logging Professionals	British Columbia - Enter Reason Less than 100%	% from SFI only certified forests	% from CSA only certified forests	% from FSC only certified forests
Private - Fee and long-term lease	*No answer*						

	Units	Volume	% Delivered by Qualified Logging Professionals	British Columbia - Enter Reason Less than 100%	% from SFI only certified forests	% from CSA only certified forests	% from FSC only certified forests
Private - Direct purchase from TIMOs & REITs	*No answer*						
Private - Direct purchase from family forest owners	*No answer*						
Private - Direct purchase from Aboriginal/Tribal lands	Cubic Meters	130441	90	Lack of available trained logging professionals.	0	00	00
Private - Direct purchase from conservation lands	Cubic Meters	334	0	Lack of available trained logging professionals.	0	0	0
Private - All other direct purchase from private landowners	Cubic Meters	150207	91	Lack of available trained logging professionals.	0	0	0
Public - Crown land	Cubic Meters	2605002	93	Lack of available trained logging professionals.	48.1	2.5	0.7
Public - Non-controlled Crown land	*No answer*	0	0		0	0	0

	Units	Volume	% Delivered by Qualified Logging Professionals	British Columbia - Enter Reason Less than 100%	% from SFI only certified forests	% from CSA only certified forests	% from FSC only certified
Other Sources	*No answer*	0			39	0	0.3
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Funding provided last year for SFI Implementation Committee activities at

the state or provincial level (Support for US SICs in $US. Support for Canadian SICs in $CA.)

Canada : 1500.00

Forest health, productivity, and ecosystem functions

External CAD : 1,113,217
Organizations worked with in 2020 : Academic Organizations
Research Organizations
Government Organizations
Other Organizations
Academic Organizations : University of Alberta
Research Organizations : NSERC
Government Organizations : Government of Alberta, Parks Canada, Natural Resources Canada
Other Organizations : Forest Resource Improvement Association of Alberta, Weyerhaeuser, Mercer International, West Fraser, Alberta Pacific Forest, Tolko Industries,

Chemical efficiency, use rate and integrated pest management

Water quality and/or effectiveness of best management practices including effectiveness of water quality and best management practices for protecting the quality, diversity and distributions of fish and wildlife habitats

External CAD : 50000
Organizations worked with in 2020 : Other Organizations
Other Organizations : Forest Resource Improvement Association of Alberta

Wildlife management at stand and landscape levels

External CAD : 175480
Organizations worked with in 2020 : Academic Organizations
Research Organizations
Conservation Organizations
Government Organizations
Other Organizations
Academic Organizations : University of Alberta, ECCC, Universite Laval, Carleton University
Research Organizations : National Council Air and Stream Improvement, fRI Research, John Prince Research Forest, Bulkley Valley Research Center,

Conservation Organizations : Habitat Conservation Trust Fund, BC Parks, Ontario Parks,
Government Organizations : Canadian Forest Service, Government of Alberta, Government of Saskatchewan, Ministry of Forests, Lands Natural Resources, BC Timber Sales,
Other Organizations : Millar Western, Spray Lakes, Vanderwell, West Fraser Tolko, Forest Resource Improvement Association of Alberta

Conservation of biological diversity

External CAD : 17650
Organizations worked with in 2020 : Research Organizations
Conservation Organizations
Government Organizations
Other Organizations
Research Organizations : National Council Air and Stream Improvement
Conservation Organizations : Wildsight, KNC, Ducks Unlimited
Government Organizations : BC Ministry of Forests, Lands Natural Resources,
Other Organizations : West Fraser, Weyerhauser, Tolko, Forest Resource Improvement Association of Alberta,

Ecological impacts of bioenergy feedstock removals on productivity, wildlife habitat, water quality and other ecosystem functions

Climate change research for both adaptation and mitigation

Forest operations efficiencies and economics

External CAD : 55833
Organizations worked with in 2020 : Government Organizations
Other Organizations
Government Organizations : BC Timber Sales,
Other Organizations : Forest Resource Improvement Association of Alberta, Woodland Learning Foundation (WOLF), multiple Alberta Forest Companies

Energy efficiency

Life cycle assessment

Avoidance of illegal logging

Avoidance of controversial sources

Other

External CAD : 241718
Organizations worked with in 2020 : Academic Organizations
Research Organizations
Government Organizations
Other Organizations
Academic Organizations : Northern Alberta Institute of Technology (NAIT)
Research Organizations : National Council Air and Stream Improvement
Government Organizations : Canadian Forest Service,
Other Organizations : Forest Resource Improvement Association of Alberta, Boucher Brothers, Zavisha Sawmills, West Fraser, Mercer International, Millar Western

sect 5-2 preload indicator

preload

Is your organization currently involved in any conservation partnerships?

Yes

Project 1

Project Name : Campground Promotion and Maintenance Within and Adjacent to Canfor's FMA area and Quota Tenures
Project Objective : Promote and maintain six campgrounds located within and adjacent to Canfor's FMA area and quota tenures to enable the public to learn about and enjoy the forest resources.
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description Canfor maintains 19 recreation sites and trails in Alberta and in NE BC in partnership with the Alberta and BC governments, providing safe, clean recreation facilities for the enjoyment of the public.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 5. Management of Visual Quality and Recreational Benefits

Select state(s)/province(s) for this project : Alberta
British Columbia
Government Organizations : BC Ministry of Forests, Alberta Sustainable Resource Development
Other Organizations : Forest Resource Improvement Association of Alberta
Estimated Project Start Date : 2017-06-01
Estimated Project End Date : 2022-01-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : over $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 126603
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 2

Project Name : Partners in Boreal Education
Project Objective : To optimize the impact of forest science in northern Alberta through public awareness, science-technology transfer, and student science mentoring
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description Partners in Boreal Education is a science extension and education program for the benefit of forest practitioners, citizens, and students who live and work in forest communities in Northern Alberta. Proposed activities include: 1) extension of research and field technologies to forest practitioners; 2) community awareness of forest sciences and resources; and 3) science mentoring of high school students
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 11. Training and Education
Select state(s)/province(s) for this project : Alberta
Academic Organizations : Northern Alberta Institute of Technology
Conservation Organizations : Forest FResource Improvement Association of Alberta
Government Organizations : Canadian Forest Service
Other Organizations : Boucher Brothers, Zavisha Sawmills, West Fraser, Mercer International
Estimated Project Start Date : 2017-01-01
Estimated Project End Date : 2020-04-30

Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 10000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 3

Project Name : Forestry Futures Alliance
Project Objective : Three programs have formally partnered up to inform Albertans about sustainable forest management and careers in the forest sector
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description Coordinate education and outreach programs between Work Wild, Careers Next Generation, and Inside Education
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 11. Training and Education
Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Forest Resource Improvement Association of Alberta
Other Organizations : Millar Western
Estimated Project Start Date : 2018-04-23
Estimated Project End Date : 2020-12-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 50000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 4

Project Name : Grand Prairie & Area Environmental Sciences and Education Society
Project Objective : To increase the forest and science literacy of children in grades K-12 and to assist teachers from the Grande Prairie and surrounding area
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description The GP&Area Environmental Sciences and Education Society (GPSES) has build a number of resource kids and program events to assist teachers with science based forestry curriculum. This project will continue to support the Regional Director whose role is to continue to enhance the understanding of the forest resource by providing opportunities to learn about forestry and other science issues through hands on activities, field study and presentations.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 10. Forestry Research, Science and Technology
Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Forest Resource Improvement Association of Alberta
Estimated Project Start Date : 2017-01-01
Estimated Project End Date : 2022-01-30
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 5870
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : Yes
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 5

Project Name : Greater Hines Creek Area Campsite Enhancement Program
Project Objective : Continue to enhance the recreational experience on nine established campsites in the greater Hines Creek area
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description Canfor understands the importance of community involvement directly or indirectly. This initiative allows Canfor to work with local governments in the Hines Creek area to contribute to initiatives that are beneficial to local residents and communities. Canfor contributes funds to three municipalities to manage and maintain nine established campsites in the area.

SFI 2015-2019 Standard Objective most relevant to project : FM Objective 5. Management of Visual Quality and Recreational Benefits
Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Forest Resource Improvement Association of Alberta
Government Organizations : Local municipal governments in the Hines Creek area of Alberta
Estimated Project Start Date : 2017-04-15
Estimated Project End Date : 2022-03-01
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 49245
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No

Project 6

Project Name : Boreal Caribou Nutrition
Project Objective : 1. Enhancement of caribou survival and reproduction on specific landscapes, by linking ongoing efforts in managing predation (“top-down” influences) with access to high quality year-round food supply (“bottom-up” influences). 2. The identification of good caribou habitat based on the quality of that habitat from the perspective of the caribou (and not based simply on vegetation type). This new knowledge will be oriented towards specifically what the caribou gain from a specific habitat, rather than simply where generic “habitat” is located – an extremely important and often overlooked distinction. 3. The establishment of an improved caribou body condition monitoring technique that could be used as part of a suite of field measurements to identify pressure points on specific caribou herds. Monitoring of caribou populations will continue at both the provincial and federal level – and this project could enhance the ability for governments to work collaboratively with industry to more effectively measure the success of conservation efforts. 4. New habitat models that map “nutritional content of habitat”, which could look quite different from the more generalized habitat modeling that is currently undertaken – models that will be extremely important for governments and industry to use as a tool for future conservation efforts, particularly in light of potential vegetation shifts with climate change
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description NCASI has made significant progress on a multi-year project to identify constructive ways in which industry can actively contribute to conservation of woodland caribou populations on the lands it manages – an approach leveraging enhanced forest management to maintain and provide new caribou habitat, rather than relying on protected areas alone as a method

of conserving caribou. The central focus of this research program is to establish mathematical relationships between the dietary content of habitat and the growth and reproduction characteristics of woodland caribou. The 4-year Phase 1 baseline research for this initiative has been completed, and Phase 2 field research in BC and Ontario was launched in spring 2013, to be completed in winter 2019. Phase 3 modeling work will be undertaken between 2019 and 2021. This project will result in the development of specific quantitative nutrition relationships that have never before been established for woodland caribou – and once they are developed, the intent is that the results from this research will become a management tool for industry to undertake enhanced approaches to conserving caribou on the ground.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 4. Conservation of Biological Diversity
Select state(s)/province(s) for this project : Ontario
Research Organizations : National Council Air & Stream Improvement
Estimated Project Start Date : 2014-04-01
Estimated Project End Date : 2020-04-30
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 550
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Only use in aggregate

Project 7

Project Name : Boreal Avian Modelling Project
Project Objective : Our goal is to synthesize avian count data into a standardized data and modelling system across research and monitoring agencies in Canada in order to improve conservation outcomes.
Short project description (include main point of contact and other relevant information - max. 650 words) : The Boreal Avian Modelling (BAM) project is a multi-sectoral research partnership between academic institutions across Canada, private-sector forestry companies, government, and not for profit organizations. BAM uses advances in statistical methodologies, machine learning, new recording technologies, and advances in remote-sensing to bring us closer to being able to predict the status and trend of Canada's birds real-time. Development of such data flows will allow Canadians to assess the risks caused by different land-use decisions as well current and future impacts from climate change. Using the data and products created by BAM is essential for proper ecosystem management and forest planning as it allows us to critically evaluate the level of risk faced by birds. BAM provides the

information and tools needed to actively include birds as a key component of land-use and conservation planning.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
FM Objective 4. Conservation of Biological Diversity
Select state(s)/province(s) for this project : Alberta
Academic Organizations : U of Alberta, ECCC, Universite Laval, Carleton University
Research Organizations : Canadian Forest Service
Government Organizations : Government of Alberta, Government of Saskatchewan, Ontario Parks
Estimated Project Start Date : 2020-10-01
Estimated Project End Date : 2025-10-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 662822
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 8

Project Name : Effects of fire, harvesting, and mountain pine beetle on terrestrial lichens important to caribou.
Project Objective : To determine the impacts of forest harvesting, wildfire, and mountain pine beetle on coverage and health of terrestrial lichens important to caribou in the Tweedsmuir-Entiako winter range over a 20-year period (this is yr 16).
Short project description (include main point of contact and other relevant information - max. 650 words) : This is analysis of data from ongoing monitoring of plots established 16 years ago in and around Tweedsmuir Park, Entiako Park, and the Laidman Lake area to determine how the 3 main lichens caribou eat are impacted by variouis disturbances. Forest structure was monitored, including CWD, trees, shrubs, etc. in addition to lichens.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 4. Conservation of Biological Diversity
Select state(s)/province(s) for this project : British Columbia
Research Organizations : Bulkley Valley Research Center
Conservation Organizations : Habitat Conservation Trust Fund, BC Parks

Government Organizations : BC Ministry of Forests Lands Natural Resource Operations & Rural Development
Estimated Project Start Date : 2019-06-01
Estimated Project End Date : 2020-05-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : $20,000 to $50,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 8000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 9

Project Name : Jasper National Park Fuel Reduction-Communications Project
Project Objective : The goal is to inform people about the fuel reduction project completed by Jasper National Park and Canfor and to encourage future similar collaborations between local/provincial/federal governments with industry across Canada in order to reduce the risk of wildfire to communities while protecting ecological values
Short project description (include main point of contact and other relevant information - max. 650 words) : From March 2018 to July 2019, Jasper National Park (JNP) and Canadian Forest Products Ltd. (Canfor) worked together on a project to reduce wildfire risk for the town of Jasper by mechanically removing overstory tree fuel. Landscape level fire management through mechanical tree removal is new for Parks Canada; this was the largest project of its kind that has been done in a National Park. The purpose of the proposed project is to communicate the successes of the Jasper National Park Pyramid Bench Fuel Reduction project. The partners want to share their learnings from the experience including the factors that allowed them to develop mutually agreeable solutions and how they were able to meet all their ecological goals through adaptive management. A variety of audiences are being targeted through this project.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
FM Objective 2. Forest Health and Productivity
FM Objective 5. Management of Visual Quality and Recreational Benefits
FM Objective 14. Communications and Public Reporting

Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Parks Canada
Government Organizations : Natural Resources Canada
Other Organizations : Forest Resource Improvement Association of Alberta,
Estimated Project Start Date : 2020-02-15
Estimated Project End Date : 2021-03-30
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : $20,000 to $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 37284
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 10

Project Name : Endowed Chair in Forest Growth and Yield
Project Objective : An Endowed Research Chair at the University of Alberta focused on applied research in forest growth & yield
Short project description (include main point of contact and other relevant information - max. 650 words) : Create an endowed Chair position that would otherwise not be possible under the current University of Alberta budget. The individual recruited into the Chair position will work with partners to define and deliver an applied research program, provide scientific leadership in forest growth & yield, train undergraduate and graduate students, and collaborate with the Forest Growth Organization of Western Canada (FGrOW) in its program delivery.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 2. Forest Health and Productivity
FM Objective 10. Forestry Research, Science and Technology
Select state(s)/province(s) for this project : Alberta
Academic Organizations : University of Alberta
Government Organizations : Government of Alberta
Other Organizations : Forest Resource Improvement Association of Alberta, Canfor, Al-Pac, Mercer, Millar Western, Northlands, Vanderwell, West Fraser, Weyerhaeuser, Norbord
Estimated Project Start Date : 2019-12-01
Estimated Project End Date : 2020-07-30

Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : over $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 500000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 11

Project Name : Developing and Assessing Advanced Inventory Techniques for Enhanced Forest Management in Alberta
Project Objective : The primary objectives are to: 1) Achieve more accurate and refined forest metrics at multiple scales that allow for the identification and prediction of spatially explicit individual tree and stand metrics, especially tree species, species composition and stand structure, at both strategic and operational levels; and 2) make recommendations on how to effectively implement advanced forest inventory in Alberta to achieve improved forest management for the benefits of all Albertans.
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description Extensive advancements have been made in applying new and improved technologies to forest inventories. The proposed research will focus on investigating and utilizing the newest technologies and developing new research methods for advanced forest inventory in Alberta to enhance forest management. the approach is to use high resolution LiDAR data and ground date to develop and calibrate models that can: 1) accurately represent or describe the tree metrics for the full population of trees in the study area; 2) allow for the identification of stand structures for integrated and enhanced biodiversity, wildlife, and watershed management; and 3) be fully automated to remove potential inconsistencies.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Forest Resource Improvement Association of Alberta
Government Organizations : Alberta Government Dept. of Sustainable Resource Development
Estimated Project Start Date : 2017-08-25
Estimated Project End Date : 2020-05-15

Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : over $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 53000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 12

Project Name : Lidar Operational Forest Inventories
Project Objective : Expanding on Phase 1, the objective of this project is to complete an individual tree canopy inventory on the entire area of interest as well as to create a hybrid operational inventory
Short project description (include main point of contact and other relevant information - max. 650 words) : Expanding on Phase 1, this project will include field data collection, completion of an individual tree crown inventory and a hybrid operational inventory to explore the ability and accuracies to utilize this advanced technology for strategic and operational inventory development
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Forest Resource Improvement Association of Alberta
Estimated Project Start Date : 2020-06-15
Estimated Project End Date : 2021-01-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : over $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 422933
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 13

Project Name : Southern Rockies Watershed
Project Objective : Characterizing sediment production from harvesting and road-stream crossing during harvest operation and after road retirement in Phase II of the Southern Rockies Watershed Project. This project specifically supports the `core` water monitoring of suspended sediment within the watershed.
Short project description (include main point of contact and other relevant information - max. 650 words) : Phase II of the SRWP included harvesting, hauling, silvicultural treatments, and slash disposal within the Star Creek sub drainage. The research on suspended sediment will focus on sediment production during road construction and harvest operations in 2015, and will track sediment production from reclaimed roads and crossings through subsequent years.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 3. Protection and Maintenance of Water Resources
FS Objective 2. Adherence to Best Management Practices
Select state(s)/province(s) for this project : Alberta
Conservation Organizations : Forest Resource Improvement Association of Alberta
Estimated Project Start Date : 2015-10-15
Estimated Project End Date : 2022-03-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 50000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 14

Project Name : Enhancing Values of Forest Resources by Turning Emissions from Biomass Power Plant into Microalgae Bio-products
Project Objective : Explore a sustainable solution for emission capture utilizing natural plants like microalgae.
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description A microalgae system can not only clean up emissions on site, but also turn it into beneficial products. The project will explore the ability to turn emissions from a biomass power plant into valuable microalgae bio-products. The capture efficiency of several greenhouse gases and

pollutants will be assessed, on going research and development on the system, as well as communication and outreach are all key components of the project.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 7. Efficient Use of Fiber Resources
Select state(s)/province(s) for this project : Alberta
Academic Organizations : Grande Prairie Regional College
Conservation Organizations : Forest Resource Improvement Association of Alberta,
Government Organizations : Natural Sciences and Engineering Research Council of Canada
Estimated Project Start Date : 2018-07-01
Estimated Project End Date : 2021-10-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 30000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 15

Project Name : Using Satellite for Forest Health tracking
Project Objective : Assist in the id of spruce beetle so faster action can be taken on the leading edge of attacks.
Short project description (include main point of contact and other relevant information - max. 650 words) : Assist in the id of spruce beetle so faster action can be taken on the leading edge of attacks.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
FM Objective 2. Forest Health and Productivity
Select state(s)/province(s) for this project : British Columbia
Government Organizations : BC Ministry of Forests
Estimated Project Start Date : 2020-06-01
Estimated Project End Date : 2020-09-30
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard :

Other: 80000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 16

Project Name : fRI Grizzly Bear Program Conclusion
Project Objective : In an effort to professionally conclude the fRI Grizzly Bear Research Program we believe it is important to complete projects that are in their final stages and publish these results in the scientific literature. By completing this work we will satisfy granting requirements while addressing partner needs and expectations. These publications in peer reviewed scientific journals provide program partners the ability to cite and utilize published research results in their operations and while making business decisions. It is also important that these scientific results are published and available to support ongoing and future forest management activities while informing provincial grizzly bear recovery efforts and management.
Short project description (include main point of contact and other relevant information - max. 650 words) : This final year for the completion of the fRI Grizzly Bear Program will involve:
1. Completing multi-year projects currently underway
2. Publishing findings from key recent research projects
3. Ensuring research partners have access to research data sets and that GIS based planning tools are maintained, updated and supported over the foreseeable future.

SFI 2015-2019 Standard Objective most relevant to project : FM Objective 4. Conservation of Biological Diversity
FM Objective 13. Public Land Management Responsibilities
Select state(s)/province(s) for this project : Alberta
Research Organizations : fRI Research,
Other Organizations : Forest Resource Improvement Association of Alberta, Canfor, Vanderwell, Weyerhaeuser, Millar Western, Spray Lakes, West Fraser
Estimated Project Start Date : 2020-04-01
Estimated Project End Date : 2021-04-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : over $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 75000

Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 17

Project Name : Using Satellite for Enhanced Forest Inventory
Project Objective : Enhanced Forest Inventory for use in planning new blocks and getting better estimates for supply chain back to the inventory stage. Saves time and money id'ing new stands for harvest.
Short project description (include main point of contact and other relevant information - max. 650 words) : Enhanced Forest Inventory for use in planning new blocks and getting better estimates for supply chain back to the inventory stage. Saves time and money id'ing new stands for harvest.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 2. Forest Health and Productivity
FM Objective 7. Efficient Use of Fiber Resources
Select state(s)/province(s) for this project : British Columbia
Government Organizations : BC Timber Sales
Estimated Project Start Date : 2020-06-01
Estimated Project End Date : 2020-12-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : $20,000 to $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 50000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 18

Project Name : Using LiDAR variables to identify Old Growth stands in TFL14
Project Objective : To determine which LiDAR variables to use and an appropriate scoring system to identify the 'best' old growth stands in TFL14, and compare these to the stands selected using VRI.

Short project description (include main point of contact and other relevant information - max. 650 words) : This project will use LiDAR in combination with VRI to identify stands with old growth characteristics, on the basis of their structure, rather than age. These stands will be compared to the existing OGMAs and the existing OGMAs, if required, changed to better reflect where the best old growth stands are. Field work is planned and/or comparison to field data collected in previous projects to ground-truth the results.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
FM Objective 4. Conservation of Biological Diversity
Select state(s)/province(s) for this project : British Columbia
Conservation Organizations : Wildsight, KNC
Government Organizations : BC Ministry of Forests
Other Organizations :
Estimated Project Start Date : 2020-10-01
Estimated Project End Date : 2021-10-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : $5,000 to $20,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 7000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 19

Project Name : fRI Deer and Moose Monitoring Project
Project Objective : Investigate whether specific timber harvesting regimes and silviculture practices can be applied to make cutblocks less attractive to primary prey species (ie: reduce forage abundance for deer, moose, and elk).
Short project description (include main point of contact and other relevant information - max. 650 words) : Project Description Reduction in the occurance and abundance of primary prey could reduce predation risk for caribou in west-central Alberta, as decreased numbers of primary prey would sustain lower numbers of predators in caribou ranges. Deer will be captured and collared to track habitat use in relation to regenerating cutblocks; primary prey use of cutblocks will be monitored with the use of strategically placed remote cameras, and an analysis of how specific harvesting regimes and silviculture practices can make cutblocks less suitable for deer, moose, and elk, which will provide industry with information for the

development of best management practices within the caribou range.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 4. Conservation of Biological Diversity
Select state(s)/province(s) for this project : Alberta
Research Organizations : fRI Research
Conservation Organizations : Forest Resource Improvement Association of Alberta
Other Organizations : Weyerhaeuser, Millar Western
Estimated Project Start Date : 2018-01-01
Estimated Project End Date : 2021-03-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $20,000 to $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 25000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 20

Project Name : Forest Management and Wetland Stewardship 2.0
Project Objective : The partners have identified three projects of mutual interest with the objective of advancing sustainable forest management. Wetlands and waterfowl conservation, climate change mitigation, and socio-economic factors will be considered and balanced when the coalition companies develop and implement sustainable land use practices. Any sustainable land use practices, as approved within this initiative, will be applied to boreal regions in Canada where coalition companies undergo forest management activities.
Short project description (include main point of contact and other relevant information - max. 650 words) : The Forest Management Wetland Stewardship Initiative (FMWSI) is a partnership between Ducks Unlimited Canada (DUC) and the forest products industry. The first term of the FMWSI ran from 2016 to 2019. Under FMWSI 2.0, an additional 3 projects will be completed: Operating Ground Rules Review, Boreal Wetland Subsurface Carbon Storage Mapping, and Wetland and Wetland Best Management Practices Training
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 3. Protection and Maintenance of Water Resources
FM Objective 4. Conservation of Biological Diversity
Select state(s)/province(s) for this project : Alberta

Conservation Organizations : Ducks Unlimited
Other Organizations : Forest Resource Improvement Association of Alberta, Canfor, Weyerhaeuser, West Fraser, Tolko,
Estimated Project Start Date : 2020-05-01
Estimated Project End Date : 2023-05-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 9000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 21

Project Name : Environmental Elements of the WOLF Log Truck Professional Driver Training Series
Project Objective : Curriculum Development for Professional Log Truck Drivers
Short project description (include main point of contact and other relevant information - max. 650 words) : Enhance the development of the Log Truck Professional Driver Training Series with emphasis on improving environmental protection and mitigating environmental impacts during the transportation of forest products on Alberta’s public lands and roadways.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 7. Efficient Use of Fiber Resources
FM Objective 9. Legal and Regulatory Compliance
FM Objective 11. Training and Education
FS Objective 3. Use of Qualified Resource and Qualified Logging Professionals
FS Objective 6. Training and Education
Select state(s)/province(s) for this project : Alberta
Academic Organizations : Woodland Operations Learning Foundation (WOLF)
Other Organizations : Forest Resource Improvement Association of Alberta, multiple AB Forest Companies
Estimated Project Start Date : 2020-06-01
Estimated Project End Date : 2021-05-31
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000

Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 5833
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 22

Project Name : Ecosystem-based Management Industry Research Chair
Project Objective : Establish a new tenure-stream Assistant Professor position in Ecosystem-based Management at the University of Alberta
Short project description (include main point of contact and other relevant information - max. 650 words) : The UofA will work with partners to advertise, interview, and select a new Assistant Professor in EBM with an exceptionally strong background in research/teaching, industrial collaborations, and outreach activities. They will develop a mutually agreed upon 5-year applied research program that this a solid foundation of leading-edge research on EBM, spans stand and landscape scales, and is applicable to a diversity of Alberta's forest ecosystem types. This research program will leverage NSERC 1:1 matching funds to establish an Industrial Research Chair in Ecosystem-based Management at the UofA
Select state(s)/province(s) for this project : Alberta
Academic Organizations : University of Alberta
Research Organizations : Natural Sciences and Engineering Research Council of Canada (NSERC)
Other Organizations : Forest Resource Improvement Association of Alberta, Weyerhaeuser, Mercer International, West Fraser, Alberta Pacific Forest, Tolko Industries,
Estimated Project Start Date : 2018-08-01
Estimated Project End Date : 2022-08-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : $5,000 to $20,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 20000
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No

May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 23

Project Name : Goshawk habitat management, harvest strategies and timber supply impacts
Project Objective : To identify goshawk territories that are at a level of development that will still allow for successful goshawk rearing and survival. And to develop tools and strategies to maximize timber supply within those area.
Short project description (include main point of contact and other relevant information - max. 650 words) : Goshawk Habitat and timber supply impacts of management options over time.
SFI 2015-2019 Standard Objective most relevant to project : FM Objective 1. Forest Management Planning
FM Objective 4. Conservation of Biological Diversity
FM Objective 10. Forestry Research, Science and Technology
Select state(s)/province(s) for this project : British Columbia
Government Organizations : BC Ministry of Forests, BC Timber Sales
Estimated Project Start Date : 2019-10-01
Estimated Project End Date : 2021-06-01
Dollar amounts are in: : Canadian Dollars (CAD)
Estimated total project cost : over $50,000
Your organization contribution in 2020 : over $50,000
Are your organization's contribution in 2020 included in your Research Funding dollars reported above to meet SFI Standard Requirements as it relates to the research requirement in the standard : *Other:* 66830
Is this project part of a 2020 SFI Conservation , Community or Education Grant? : No
May SFI use this project as an example in communications to help convey the exemplary work of SFI Program Participants in the areas of conservation and community engagement? : Share - don't use our organization's name

Project 24

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Project 110

Issues of Interest

Select the following Issues of Interest. This way we can keep you informed on these topics. (Optional)

Bioenergy
Climate change
Biodiversity and Conservation
Ecosystem services
Water quality
Carbon stocks
Indigenous
Environmental Education
Green Jobs

SFI Conservation Impact 1

Resiliency of forests to climate change
Role of forest practices in adapting to climate change
Forest carbon accounting from a regional or landscape perspective
Carbon emission accounting from an operations management perspective
Carbon-related best management practices
Forest growth and yield sensitivity to climate change

SFI Conservation Image 2

Resiliency of forest biodiversity to climate change
Role of SFI certification to outcomes relative to Threatened and Endangered species (American context) and/or Species at Risk (Canadian context)
Metrics to quantify biodiversity on SFI certified forestlands, and areas affected by SFI Fiber Sourcing
Quantifying contributions of SFI certified forestlands to landscape scale biodiversity

SFI Conservation Impact 3

Quantifying the contributory value of SFI certification to water quantity dynamics
Quantifying the contributory value of SFI certification to water quality dynamics
Role of SFI certified forestlands with respect to climate change effects on water quality and quantity
Role of SFI certified forestlands to general aquatic biodiversity (e.g. health of water bodies)
Role of SFI certified forestlands to aquatic biodiversity specific to Threatened and Endangered (American context) and/or Species at Risk (Canadian context) (e.g. status and impact to species at risk)
Quantifying contributions of riparian SFI certified forestlands
New or innovative Water-related Best Management Practices (BMPs)

Forest Tree Biotechnology (answer the following about your organization)

We currently invest in research with Genetically Engineered trees via forest tree biotechnology.

No

We have legal commercial plantings of Genetically Engineered trees via forest tree biotechnology that will be available as future marketable products.

No

We plan on investing in research with Genetically Engineered trees via forest tree biotechnology.

No