



FORESTRY FUTURES TRUST ONTARIO

Forestry Futures Trust Committee

2020/21 Annual Report

Forestry Futures Trust Committee

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Forest Observations - 2021

On the Matter of the 2020 Covid-19 Program in Ontario Silviculture:

On May 7, 2020, the Minister of the day, using the authority of Section 51(3)4 of the *Crown Forest Sustainability Act*, declared a new purpose for the Forestry Futures Trust designed to support COVID-19 related incremental silviculture costs. To that end, he announced the availability of up to \$3.5 million in support of the “health of silvicultural workers conducting essential activities for the sustainability of Crown forests”. Responsibility for program implementation was assigned to FFTC, and in conjunction with MNRF, a Covid-19 maximum support level for the 2020 tree plant was established at \$50/1000 seedlings. Opportunities in the 2020 program were taken up by 32 SFLs and Crown forest management units at an actual cost to the Forest Futures Trust of some \$2.5 million (pre-HST). In early 2021 Canada agreed to direct some \$2.3 million of its extensive Covid 19 budget in support of the Ontario silviculture initiative. In early 2021 the SFLs, MNRF, and FFTC reviewed the ‘lessons learned’ from the 2020 program and made several changes to the process for 2021, including closer control of capital expenditures, reducing the scope of claims against ‘administration’, and setting maximum claims on a sliding scale ranging from \$45/1000 seedlings for plants below 500,000 trees to \$30/1000 seedlings for plants over 1 million trees. That the investment was successful was borne out by the fact that no incidences of COVID-19 were known to have been detected in Ontario’s 2020 tree planter cadre.

On the Matter of the Creation of Ontario’s Second Local Forest Management Corporation:

January 2021 saw the Ministerial appointment of the interim Board of Directors for the new **Temagami Forest Management Corporation**, specifically designed to take on the management challenge of the Temagami Forest. Some may recall the late 1980s and the public controversy that exploded over harvesting in the area with its associated construction of the Red Squirrel Road, and the ensuing civil disobedience that eventually required police presence to bring serenity back to the forest! Since then MNRF has handled the Temagami Crown Forest very sensitively while quietly exploring improved management options that would give critical local stakeholders a greater opportunity to participate in the decisions affecting the Forest’s future. At least two earlier options failed when the parties – First Nations, municipalities, industry, and government – could not reach consensus. The current thrust was generated out of Ontario’s first Local Forest Management Corporation - Nawiinginokiima Forest Management Corporation located in the Marathon/White River area. Exploration of the possible creation of a local management corporation for the Temagami Crown Forest began in earnest in 2018 with representatives of local First Nations, local municipalities, local industry, and MNRF at the table. The first question of consequence was whether the parties could reach a consensus on the principles of the venture; and if so, could the venture be economically sustainable. The negotiating parties must be congratulated for finding a potentially viable consensual response to a 35-year-old vexing issue. In the life of the Temagami white pine 30 years is but part of childhood; we need to always be cognizant that when it comes to the forest, good decisions may take a little longer.

On the Matter of a New Tree Improvement Master Plan for Ontario:

In 2017 FFTC was assigned the oversight funding responsibility for the Forest Genetic Resource Management Program which is carried out by three industry-government associations across the province: the Forest Gene Conservation Association in Southern Ontario; the Northeastern Seed

Management Association in Northeastern Ontario; and Superior Woods Tree Improvement Association in the Northwest. The initial creation of the three Associations in the 1990's reflected the recognition that tree improvement was and would continue to be a critical factor in the sustainability of Ontario's future forest. It became readily apparent to FFTC that the three Associations had little Provincial direction guiding their annual operations. It would appear the main reason for this circumstance is the fact that the current *Tree Improvement Master Plan for Ontario* is 34 years old. It is deemed to be inadequate in providing regional direction in today's rapidly warming climate regime. A secondary cause may well be attributed to a lack of recognition of the critical importance of 'Tree Improvement' within MNRF – the term appears absent from the MNRF staff listings on the Ontario INFO-GO website! As an interim coordinating mechanism, FFTC has requested a five-year operations directional statement from each Association to provide some sense of proposed annual project legitimacy. In September 2020 MNRF introduced its new *Ontario Tree Seed Transfer Policy*; this document provides the necessary platform upon which the timely production of a revised Tree Improvement Master Plan for Ontario can be promulgated.

On the matter of Knowledge Transfer and Tool Development (KTTD), Rounds 2 and 3:

During February and March 2021 FFTC embarked on an electronic seminar series reviewing the results of 13 KTTD projects approved in Round 2 of the program. The seven, one-hour sessions attracted more than 440 participants from across Canada who were interested in leading-edge technology as it applies to Ontario's Forest Resource Inventory program. A serious thank you to FFTC's Shelley Vescio and Anastasia Frisby without whose organizational and technical leadership the Round 2 technology transfer initiative would not have met its obviously high-quality standards. In December of 2020 FFTC had issued a call for proposals for KTTD's Round 3 with an advertised budget of \$1.5 million. Throughout the first four months of 2021, FFTC received and assessed 12 one-year and 20 two-year research proposals, all intended to further the development of MNRF's forest inventory program, and carrying a combined value of \$4.3 million and some \$2.4 million in excess of the assigned funding ceiling. In April of 2021 the Committee, with the assistance of MNRF specialists and external independent reviewers, approved 7 one-year projects and 8 two-year proposals for a total of \$1.5 million. It has been suggested that FFTC's successful electronic technology transfer initiative overlapping with the issuance of the Round 3 RFP may have played a significant part in the oversubscription to the Round 3 KTTD RFP.

R. A. Riley

WHO WE ARE & WHAT WE DO

Forestry Futures Trust

The Forestry Futures Trust (FFT) was established under the authority of the *Crown Forest Sustainability Act* (1994), Part V. Section 51 of this Act states that the Minister may appoint a Forestry Futures Trust Committee (FFTC) to provide advice on the following matters:

1. *The funding of silvicultural expenses in Crown forests where forest resources have been killed or damaged by fire or natural causes.*
2. *The funding of silvicultural expenses on land that is subject to a forest resource license, if the licensee becomes insolvent.*
3. *The funding of intensive stand management and pest control in respect of forest resources in Crown forests.*
4. *Such other purposes as may be specified by the Minister.*

(Source: *Crown Forest Sustainability Act, Part V, Section 51(3)*)

Other purposes specified by the Minister for which the Trust fund is currently used include:

- Independent Forest Audit Program
- Forest Tenure Modernization
 - Enhanced Sustainable Forest License - design and development
 - Local Forest Management Corporation – design, development and transition
 - Forest Management Component – FMC – forestry on forests returned to the Crown
- Enhanced Forest Resource Inventory production and delivery
- Forest Genetic Resource Management Program
- Treaty Settlement Transition Program

The Trust fund is managed by RBC Investor Services Trust. Funds are allocated to successful applicants under the direction of the Forestry Futures Trust Committee Chair, supported by decisions made through consensus by the Forestry Futures Trust Committee. The Committee members are appointed by the Minister for a three-year term, which may be renewed at the discretion of the Minister. The Trust is funded by harvest volume charges on Crown timber.

Forestry Futures Trust Committee

CHAIR



R.A. (Ray) Riley, P Eng., R.P.F. (Hon) (member since February 2016). Ray holds degrees in geology from Acadia and Queens and has been a member of the Professional Engineers Ontario for over 40 years. He comes to the FFTC after 30 years with the Ontario government culminating as Assistant Deputy Minister of Operations for Ontario's Ministry of Natural Resources. Subsequent to his career in government, he was active as a consultant for some 21 years focusing on natural resource management for the Forest Industry, First Nations, Ontario, and Canada.

MEMBERS



Mike Barker, (member since 1999) enjoyed a 32-year career in natural resource management, holding positions such as District Manager within the Ministry of Natural Resources, and Assistant Deputy Minister for the Ministry of Northern Development and Mines. He now runs his own consulting firm.



Herb Bax, R.P.F. (member since 2012) is a forestry consultant with over 35 years of experience. He is the past president of the OPFA and has served on numerous international committees and boards. Herb's work as an environmental and forest auditor across Canada and the US brings an international perspective to the Committee.



W.D. (Bill) Baker, (member since February 2016) had a 30-plus year career in natural resource management primarily as a senior manager

with the Ontario Ministry of Natural Resources. Bill has worked throughout Ontario in a variety of capacities but has spent much of his career in northwestern Ontario and Thunder Bay.



James Harrison, (member since February 2016) holds a Forestry Degree (1975) from Lakehead University. His 39-year career with industry

included positions with Kimberly-Clark of Canada and Greenmantle Forest Inc. James sits as the FFTC representative on the Provincial Forest Inventory Advisory Committee.



Dr. Sandy M Smith, (member since January 2017) is a Professor in Forestry at the University of Toronto, having served as Dean of the Faculty of

Forestry (2010-2012), published 140+ papers, supervised 65+ graduate students. She specializes in forest health and urban forests, specifically natural controls to manage invasive species. She is a Fellow of the Royal Entomological Society (UK), Minjiang Scholar (China), Past President of the Entomological Societies of Canada and Ontario, and currently serves on the Boards of Trees Canada and the Ontario Invasive Plant Council. She has been an Associate Editor of the Can J of Forest Research and participated on national NSERC grant review panels as well as Federal and Provincial invasive species science panels (ALHB, EAB, *Sirex*, Hemlock Woolly Adelgid).

Our Support Team

Assisting the Committee is a small team reporting to the Chair:

- Peter Street, R.P.F., Independent Forest Audit and Treaty Settlement Transition Coordinator
- Shelley Vescio, R.P.F., Silviculture, Genetics and eFRI Program Coordinator
- Anastasia Frisby, R.P.F. Provisional, Office Administrator, Forest Tenure Programs Coordinator

FFT Secretariat – Ministry of Natural Resources and Forestry

Since its inception in 1995, the FFTC has enjoyed a productive working relationship with the Ministry of Natural Resources and Forestry (MNR) staff. As the Committee's mandate expanded over the decade, the lines of communication and the number of Ministry contacts correspondingly increased. In this regard, the Secretariat functions are provided by Director Peter Henry, and Rhonda Hancherow of Forest Guides and Silviculture Section, and Cathy Hamor of Forest Tenure and Economics Branch. Key staff are listed below by program area.

- *Independent Forest Audit Program* –Linda Touzin, R.P.F., Nic Baggs, R.P.F.
- *Enhanced Forest Resource Inventory Program*- Michelle Colley, Derek Landry, Ian Sinclair, R.P.F. and Geordie Robere-McGugan, R.P.F.
- *Tenure Modernization*- Tess Sullivan R.P.F. Provisional, and Andy Lemmetty R.P.F.
- *Forest Genetic Resource Management* -Ken Elliott, R.P.F.

The MNR's FFT Secretariat continues to fulfill its role while honouring the principle of committee independence on all matters related to funding allocations for projects. The FFTC thanks the Directors and staff of Crown Forests and Lands Policy Branch, Operations Branch, Forest Tenure and Economic Branch, Integration, Science and Research Branch (including eFRI and Growth and Yield) and Business Development Branches for their continued support.

State of the Trust

The Forestry Futures Trust fund is in a healthy position and has fully recovered from the economic difficulties that previously affected the sector. The fiscal financials, which provide the details, are available through our website, www.forestryfutures.ca once tabled in the Provincial Legislature.



Forestry Futures Trust Committee 2020

Committee Operations Budget 2020/21

Available Funds	
Received from the <i>Forestry Futures Trust Fund</i>	200,640.00
2019/20 unspent balance	240,304.85
TOTAL Funds Available	440,944.85
Expenditures	
Meetings/Travel	11,476.94
Committee Honorariums	76,465.00
Professional /Administrative/Contract Staff	193,008.62
Supplies (Communication/Consumables)	11,678.43
Equipment / Signage	3,610.22
Overhead	50,845.20
TOTAL Expenses	347,084.76

OUR PROGRAMS

Silviculture Program

The Silviculture Program funds silviculture needs resulting from forces of natural depletion such as fire, wind, insects, disease, and flooding, as well as remediation of the forest land base due to historic harvesting practices. Funding requests are received in five categories: 1. Intensive Stand Management; 2. Rehabilitation after Natural Disturbances; 3. Pest Control; 4. Insolvency; and 5. Other, as designated by the Minister. Details on each category can be found on the FFTC website.

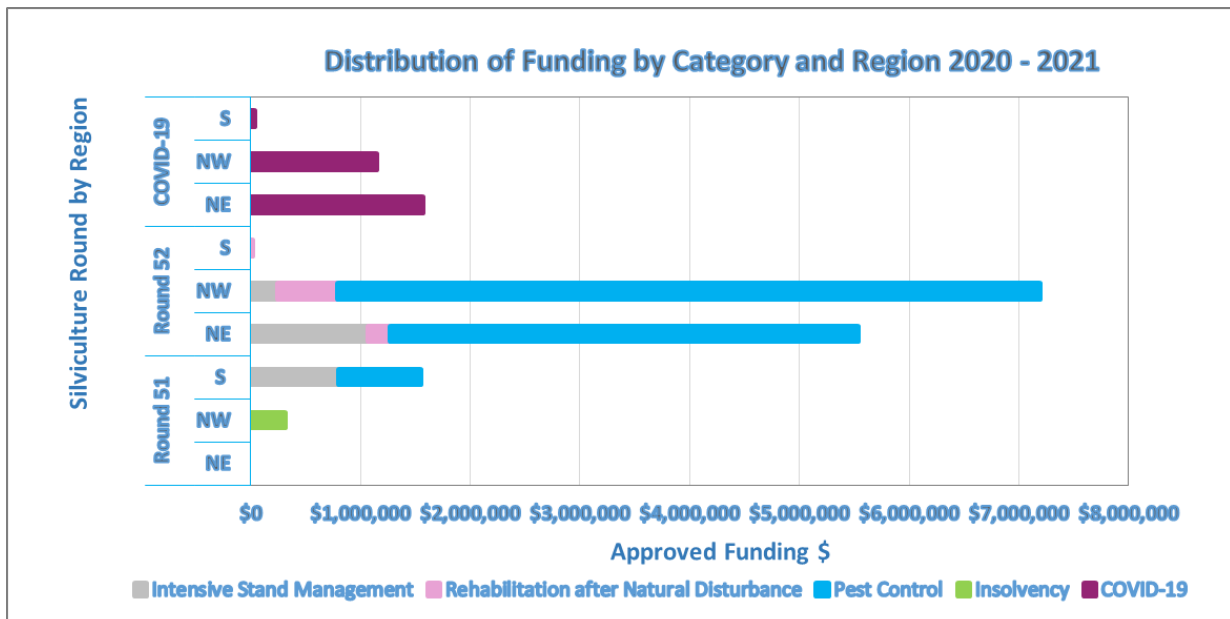
The Committee extended invitations to SFLs to submit applications for the funding of projects under Rounds 51 and 52 of the FFT Silviculture Program. In 2020-21, \$14.6 M was approved in project funding, with \$1.9 M and \$12.7 M allotted to Rounds 51 and 52, respectively. Of the Round 52 budget, \$10.6 M was allocated to the Northwest and Northeast Budworm Insect Pest Management Programs for activities that are to be completed in the summer of 2021. It is estimated that the Northwest will require about 60% of the budget for the control of jack pine budworm and the Northeast about 40% for their spruce

budworm program. These programs were to have occurred in 2020 but were cancelled due to COVID-19 safety restrictions.

The chart below illustrates the amount of funding approved under each round for projects submitted under the four silviculture categories for each of the South, Northwest and Northeast regions in 2020-2021. Among regions, 51% of the funding was awarded to the Northwest, 38% to the Northeast, and 11% to the South. Among categories, three Pest Control projects received 78% of the approved funds, nine Intensive Stand Management projects received 15%, eight Rehabilitation after Natural Disturbance projects were awarded 5%, and two Insolvency projects acquired 2% of the funding. One application was rejected for not meeting the eligibility criteria and another was put on hold pending receipt of additional information.

COVID-19 Incremental Silviculture Cost Program

On May 7, 2020, the MNRF Minister of the day specified a new purpose for the Forestry Futures Trust to support COVID-19 related incremental silviculture costs and protect the health of tree plant workers conducting essential activities for the sustainability of



Crown forests. Funded from the Forestry Futures base charge, \$3.5 million in funding was assigned to the COVID-19 Incremental Silviculture Cost Program.

Thirty-two SFLs participated in the Program and received \$2.7 M in funding for the planting of 61.4 million trees. The Northeast Region received 57% of the funding, while the Northwest and South Regions each received 42% and 1%, respectively.



Cayuga stock in transplant beds at Ferguson Tree Nursery - by clonal stock lot (photo provided by FGCA)

Forest Genetic Resource Management Program

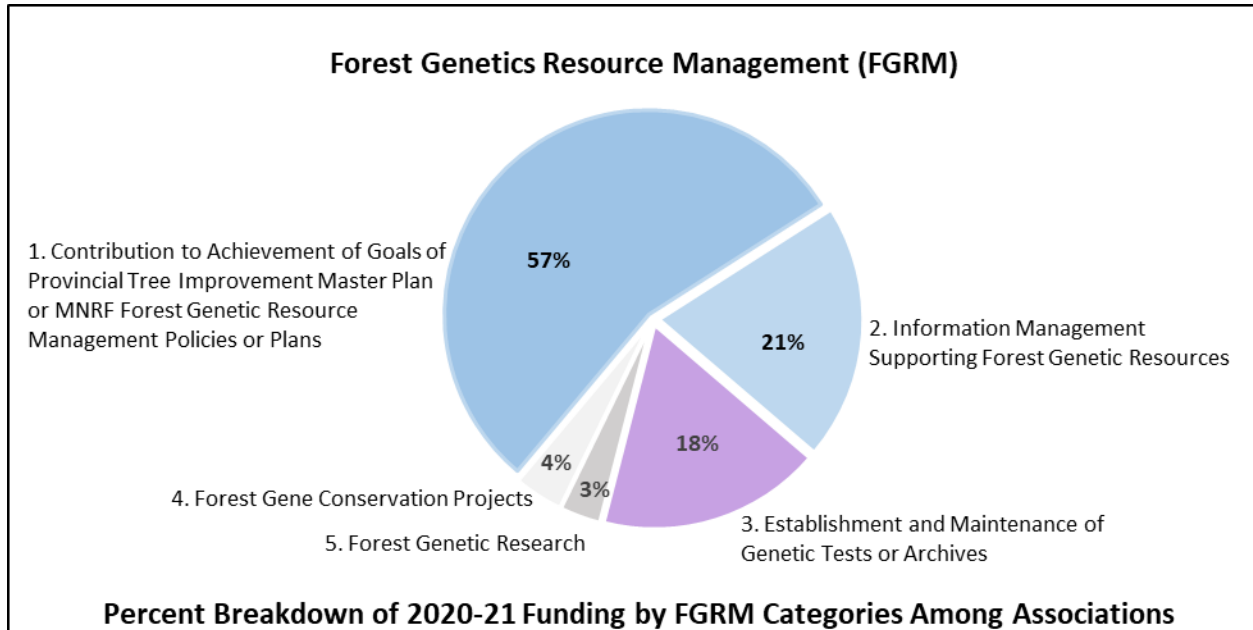
On January 26, 2017, the Minister specified a renewed five-year purpose for the Forestry Futures Trust by funding the Forest Genetic Resource Management (FGRM) Program. Funding of activities within this Program benefit Crown forests and are carried out by the Superior Woods Tree Improvement Association, Northeast Seed Management Association, and Forest Gene Conservation Association.

Annual funding for this purpose is not to exceed \$675,000 per annum, providing the three regional associations with \$375,000 in core funding and eligibility for \$300,000 in project funding for five fiscal years ending March 31, 2022. The FGRM program is financed from the Forestry Futures Trust base charge.

FGRM Approved Categories	
1	Contribution to achievement of goals of the Provincial Tree Improvement Master Plan or MNRF forest genetic resource management policies or plans
2	Information Management supporting forest genetic resources
3	Establishment and maintenance of genetic tests or archives
4	Forest gene conservation projects
5	Forest genetic research

Projects that are supported by the FGRM must fit under at least one of the five approved categories listed on the table to the left.

In 2020-21, the Associations directed the majority of funding (57%) toward activities that Contributed to the Achievement of the Province’s Tree Improvement Master Plan Goals or toward those of its FGRM Policies or Plans, 21% to Information Management Supporting Forest Genetics Resources, 18% to the Establishment and Maintenance of Genetic Tests or Archives, 4% to Forest Genetic Research, and 3% to Forest Gene Conservation Projects, on the following chart.



Independent Forest Audit Program

The Forestry Futures Trust Committee (FFTC) has traditionally implemented the annual Independent Forest Audit (IFA) Program for the MNRF. FFTC responsibilities have included: the allocation of funds to cover the cost of the audits; contract management of and communication with the audit firms and key audit participants; attending audit meetings and field examinations; ensuring the audit program is implemented according to the IFA process and protocol; reviewing all draft reports and ensuring final reports are of the highest quality. The Committee also provides recommendations to MNRF concerning revisions to the audit program and IFA process and protocol, coordinates auditor orientation sessions with MNRF, and makes recommendations to the Minister of Natural Resources and Forestry as required or appropriate

Three (3) Independent Forest Audits (IFAs) were completed in 2020 using the 2020 Independent Forest Audit Process and Protocol

(IFAPP). Changes to the 2020 IFAPP over the 2019 IFAPP included:

- Updating Appendix A, to fully incorporate the provisions of the 2017 Forest Management Planning Manual (FMPM), the Forest Information Manual (FIM), and the Forest Operations and Silvicultural Manual (FOSM),
- Providing First Nation and Métis communities the same opportunity as the Local Citizens Committee (LCC) to receive a presentation of the findings,
- Registration to ISO 14001 was deemed to satisfy Principle 5 requirements,
- Providing greater clarity regarding who is responsible for reviewing the Trend Analysis Report (TAR) and when it is required.
- Providing greater clarity regarding action plan development and LCC presentation, and
- Incorporating numerous corrections, clarifications, edits and updates throughout the entire IFAPP.

The three audits that were conducted in 2020 are:

- English River Forest – managed by Resolute FP Canada Inc., under Sustainable Forest License (SFL) # 542454.
- Red Lake Forest – managed by the Red Lake Forest Management Company Ltd. under Sustainable Forest License (SFL) #542548.
- Wabigoon Forest - managed by Domtar Inc., under Sustainable Forest License (SFL) #541953.
- On all three of the audits, **the auditors found that the management was generally in compliance with the legislation, regulations, and policies that were in effect during the term covered by the audit**, and the Forests were being managed in compliance with the terms and conditions of their Sustainable Forest Licenses. For the Red Lake Forest, the auditors also identified critical exceptions related to satisfactorily addressing the recommendations from the previous audit related to the quality of water crossings, the quality of aggregate pit management, and working with

Ministry of Natural Resources and Forestry (MNRF) to improve compliance consistency. One best practice was issued to the English River Forest and is discussed below.

- Table 1 identifies a number of findings in all three audits. Detailed action plans to address the findings presented in the audit reports are being prepared and will be posted on the Ontario government website alongside the audit reports once the reports are accepted by the Minister or his delegated authority.

The three (3) audits were awarded at a total cost of \$214,982.50, including HST.

The final reports of the 2020 Independent Forest Audits have not yet been posted on the Ontario Government’s website and as such remain confidential. Therefore, we are unable to report the specific findings. The results of the audits are similar to previous years in that they identify areas for improvement but also best practices that are taking place across the forest audited landscape. The details of these audits will be publicly available on <https://www.ontario.ca/page/independent-forest-audits> .

IFA Principles	# Findings	Percentage %*	Best Practice
1. Commitment	0	0	0
2. Public consultation and Aboriginal involvement	0	0	1
3. Forest Management Planning	5	19	0
4. Plan assessment and implementation	11	41	0
5. System support	1	4	0
6. Monitoring	6	22	0
7. Achievement of management objectives and forest sustainability	0	0	0
8. Contractual Obligations	4	15	
Total	27	100	1

Table 1. Summary of the audit findings and best practices for all three audits with respect to the eight IFA Principles.

*rounded to the nearest whole number.

Tenure Modernization Programs

Forest Management Component Program

When Sustainable Forest Licenses (SFLs) are returned to the Crown due to bankruptcy or insolvency, MNRF assumes responsibility for all forest management activities on that management unit. Forest Management expenditures incurred by the Crown to do this work are funded from additional revenue paid to the Forestry Futures Trust from the Crown Stumpage system. The additional funds are generated by a management fee charged for each cubic metre of wood harvested in the area. This has been termed the Forest Management Component (FMC).

FMC accounts are open for Pic, Kenogami, Armstrong, Whiskey Jack, Magpie, Pic River, Ogoki, and Sapawe forests.

Enhanced Sustainable Forest License

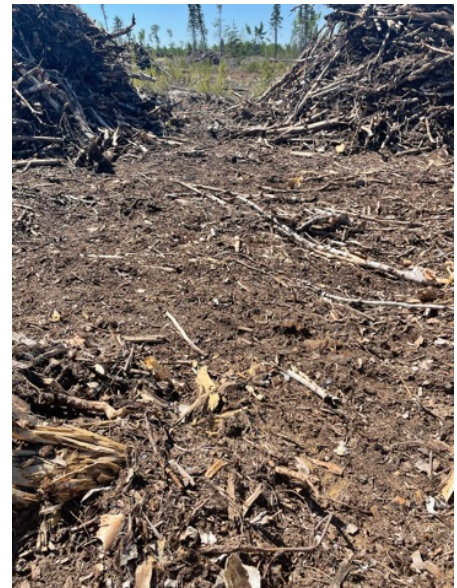
The Enhanced Sustainable Forest License (eSFL) program was established in late 2011, as an outcome of the Ministry's tenure modernization initiative, with an allocation of the remaining funds (\$1.8 M) from the SFL Conversion program. In 2012, the Committee developed an application process and the first application was submitted in April of 2013.

Active projects in 2020-21:

- ESFL 007-2018: Boundary Waters (Crossroute and Sapawe Forest)
- ESFL 001-2013 Kenogami Forest



Nipissing Forest
Project 997-2-R49 (submitted photo)
Renewing the Forest after Wildfire NOR070



Lac Seul Forest
Project 1066-4-R51 (submitted photo)
Forest renewal insolvency funding
project

Local Forest Management Corporation Conversion Program

In August 2012, the MNRF added funding of the Local Forest Management Corporation (LFMC) Conversion Program to the Forestry Futures Trust Fund. The purpose is to provide financial support to the establishment and start-up of Ontario LFMCs. The Trust serves as an interim mechanism to capture redirected Crown stumpage charges required for forest management activities on the proposed LFMC land area until such time as the Sustainable Forest Licenses are issued to the LFMC.

The first LFMC, Nawiinginokiima Forest Management Corporation (NFMC), was established in May 2012. NFMC has been issued the SFLs for Pic, White River and Pic River forests.

The government approved the establishment of the Temagami Forest Management Corporation December 2020. FFTC approved the application for financial support in June 2021.

For more information follow the links on the MNRF website: www.ontario.ca/page/forest-tenure-modernization or visit the NFMC website: www.nfmcforestry.ca



*2020 English River Forest
Field portion of IFA*



*2020 Red Lake Forest
Field portion of IFA*



*Scugog White Pine Seed
Orchard Cone Collection
(photo submitted by FGCA)*

Enhanced Forest Resource Inventory Program

The Enhanced Forest Resources Inventory (eFRI) Program is designed to develop a new Forest Resource Inventory utilizing current technologies within the provincial “Area of the Undertaking” as defined by the Timber Class Environmental Assessment. Funds for this program come from harvest volume charges paid by the Sustainable Forest Licensees for Crown timber. These funds are administered from a separate account within the Forestry Futures Trust.

The FFTC administers the eFRI program funding, in partnership with the MNRF. The eFRI is a MNRF-designed program with work contracted to qualified firms through the government procurement process. The FFTC has the lead on designing and co-delivering the knowledge transfer and tool development (KTTD) component of the eFRI.

The 2020/21 fiscal was the 14th year of the eFRI Program that built on an earlier forest inventory program. The bullets below describe MNRF Program accomplishments for 2020/21.

1. Acquired 58,661 km² of LiDAR and 21,953 km² of optical imagery in support of forest inventory development.
2. Employed the new Vegetation Sampling Network protocol as an integrated approach to field data collection for calibrating LiDAR models and monitoring forest resources. Data were collected on 89 plots in the Kenogami Forest, 240 plots in the Dog River-Matawin Forest, 204 plots for the French Severn Forest, and 221 plots for the Algonquin Park Forest.

Knowledge Transfer and Tool Development (KTTD) Component of eFRI

The goal of the KTTD program is to support the Provincial enhanced Forest Resource Inventory Program in advancing its mandate by facilitating the development of open-source tools and research that addresses identified needs and transferring that knowledge back to government, industry, academia, and the forestry community.

A Request for Proposals for Round 3 was released in December 2020 and offered preference to projects with processes, methods, and indices that would be made available in an unlicensed and non-proprietary format.

Thirty-two applications with a combined worth of \$4.3 M were received for Round 3 and, of those, 15 were funded within the Program’s \$1.5 M budget. Seven projects were approved under the Small-Scale Project category for funding requests less than or equal to \$25,000 and lasting up to 12 months, while eight were approved under the Large-Scale Project category for requests greater than \$25,000 and lasting up to 24 months in duration.

A listing of the projects may be found below and more detailed information provided at <http://www.forestryfutures.ca/enhanced-forest-resource-inventory>

Researcher	KTTD Project Title	Funding Level
Craig Robinson, Forsite Consultants Ltd.	Enhancements for eFRI Next Generation Handhelds - for VSN Plots	<\$25,000
Donald Robinson, ESSA Technologies Ltd.	Linking FRI Data to FVS-Ontario	<\$25,000
Alain Richard, Ducks Unlimited Canada	eFRI Wetland Crosswalk and Applied Products	<\$25,000
Adam Anderson, Resource Innovations Inc.	Development of LiDAR-based Geospatial Tools to Aid in Operational Planning in Ontario	<\$25,000
Dr. Ben DeVries, University of Guelph; Dr. Chris MacQuarrie, Natural Resources Canada	Developing an Inventory of Eastern Hemlock for Ontario	<\$25,000
John Pineau, Ontario Woodlot Association	Private Land Inventory and Economics Study	<\$25,000
Andy Welch, JWRL Geomatics Inc.	Assisting Ottawa Valley Forest Transition to T2 FRI	<\$25,000
Alexander Bilyk, Overstory Consultants	Assessing Site Productivity from Remote Sensing and Historic Information	>\$25,000
Dr. Nicholas Coops, University of British Columbia	Automated Road and Attribute Extraction from SPL Data	>\$25,000
Dr. Nicholas Coops, University of British Columbia	Integration of Photo Interpreted and LIDAR Attributes Into a Polygonal Forest Inventory Framework Attributes	>\$25,000
Dr. Margaret Penner, Forest Analysis Ltd.	Automated Characterization of Forest Vertical Structure using Single Photon LIDAR	>\$25,000
Dr. Mahadev Sharma, Ontario Forest Research Institute, Ministry of Natural Resources and Forestry	Developing Growth and Yield Models for White Pine and White Spruce Plantations	>\$25,000
Craig Robinson, Forsite Consultants Ltd.	FIM Compliant LiDAR Inventory of Selected Areas in the Romeo-Malette Forest	>\$25,000
Dr. Kara Webster, Canadian Forest Service, Natural Resources Canada	Advancing Digital Soil Mapping Tools in Support of Forest Resource Inventory, Planning, and Decision Making	>\$25,000
Murray Woods, Tree Dimensions	Accelerating the Implementation of Enhanced Forest Inventories in Ontario	>\$25,000

KTTD Round 2 Webinar Series

A seven-week webinar series was held during the months of February and March 2021 to assist with transferring knowledge gained from projects funded through Round 2 of the KTTD Program. While an in-person symposium would

have been preferred, gathering restrictions associated with the COVID-19 pandemic required that a succession of web presentations be provided instead. Thirteen projects were presented over seven sessions and each was informative and well attended.

A listing of the webinars can be found below and accessed at <http://www.forestryfutures.ca/enhanced-forest-resource-inventory>.



Enhanced Forest Resources Inventory (eFRI) Knowledge Transfer and Tool Development (KTTD) Round 2 WebEx technology transfer presentations

Date	Time	Speaker	Topic
11-Feb-2021	12:00 -12:30 pm	Craig Robinson - Forsite Consultants Ltd.	Next Generation eFRI Ground Data Collection App
	12:30 - 1:00 pm	Adam Anderson, President & CEO Resource Innovations Inc	Predicting Seasonal Operability for Forest Operations in Ontario
18-Feb-2021	12:00 -12:30 pm	Dr. Joanne C. White - Research Scientist, Canadian Forest Service Murray Woods, Retired, MNRF	Exploring the Innovation Potential of Single Photon LIDAR for Ontario's eFRI
25-Feb-2021	12:30 -1:00 pm	Keith Hautala - Program Coordinator - Forestry Technician Program & Professor in Environmental Technician Program, Confederation College	A Review, Enhancement, and Accuracy Assessment of Wetland Features within the eFRI
	12:00 -12:30 pm	Phil Green - CEO, First Resource Management Group Inc.	Validation of eFRI and SkyForest
4-Mar-2021	12:00 - 1:00 pm	Maurice LeBlanc - Head of Forestry Business Development, Global Surface Development	Determining Species Identification and Quantifying Regenerating Areas from Satellite-Derived Analytics
11-Mar-2021	12:00 -12:30 pm	Alex Bilyk - Overstory Consultants	Enhancing Forest Inventory LIDAR
	12:30 - 1:00 pm	Dr. Rob Mackereith - Research Scientist, Ontario Ministry of Natural Resources and Forestry	Post-fire Residual Forest Patterns in Boreal Forest Lake Watersheds
18-Mar-2021	12:00 - 1:00 pm	Dr. Nicholas Coops - Head, Dept. Forest Resources Management, University of British Columbia and Canada Research Chair (CRC) in Remote Sensing	Sampling and Generation of Enhanced Forest Inventory (EFI) attributes from SPL for the eFRI
		Martin Queinac - PhD Candidate, Department of Forest Resources Management, University of British Columbia	
		Grant McCartney, Forest Information Systems Coordinator, Rayonier Advanced Materials (RYAM) Forest Management	
25-Mar-2021	12:00 -12:30 pm	Dr. Kevin Lim - LIM Geomatics	FRIHub: A Discovery Portal for FRI Data and Products
	12:30 - 1:00 pm	Dr. Kevin Lim - LIM Geomatics	ITESTA - Individual Tree Extraction and Species Typing Analysis

Register by email at admin@forestryfutures.com

Hosted by the Forestry Futures Trust Committee For more information contact shelley.vescio@forestryfutures.com

Treaty Settlement Transition Component

On December 8, 2020 a new purpose was designated to the Forestry Futures Trust Committee to provide Indigenous communities with funding for capacity building and economic development related to forestry on proposed treaty settlement lands. This new purpose will be referred to as the "Treaty Settlements Transition Component".

The intent for this new FFT purpose is to use the revenue resulting from increases in Forestry Futures charges related to timber harvested on proposed settlement lands to be held in trust for the Indigenous communities to whom the lands would be transferred through a settlement agreement. The increases in Forestry Future charges and revenues with respect to proposed settlement areas will be equivalent to the reduction in prices and stumpage revenues from those areas. The

FFT will make Treaty Settlements Transition Component funds available to the Indigenous communities for capacity building and economic development related to forestry.

The Ministry of Natural Resources and Forestry (MNRF) and the Forestry Futures Committee will work with Indigenous communities to whom treaty settlement lands are proposed to be transferred, to establish the specifics of how this new purpose will be implemented with respect to those lands, including: eligible activities, funding eligibility criteria, the application (including evaluation and approval criteria) and the disbursement process.



*2020 English River Forest
Field portion of IFA*

