



## Forestry Committee

# Meeting Agenda

**Date:** June 1<sup>st</sup>, 2021

**Time:** 10:00 a.m.

**Location:** Virtual via MS Teams

**\*\*Conference/Video Call:** Meeting link, call in number, and conference PIN to follow by email



## Forestry Committee

# Meeting Agenda

June 1<sup>st</sup>, 2021 at 10:00 a.m.

1. Chair's Remarks
2. Approval of Forestry Committee Agenda (Supplemental Agenda)
3. Declaration of Conflict of Interest
4. SNC Forestry Project Update – Powerpoint Presentation: Staff
5. Approval of:
  - i. Forestry Committee meeting minutes of March 2<sup>nd</sup>, 2021 3-9
6. Business Arising from Minutes
7. New Business:
  - a. Update: Conservation Authorities Act: Angela (verbal)
  - b. Update: Tree Planting and Free Tree Days: Ronda 10-12
  - c. Request for Approval: Land Use Request: Pat 13
  - d. Update: Funding Submissions: Ronda 14-16
  - e. Update: Grassland Initiative – SNC 164: Pat 17
  - f. Update: 2021 First Quarter Harvests: Pat 18-19
  - g. For Discussion: 2022 Budget: Pat 20-21
8. Supplemental Agenda (if any)
9. Correspondence
  - a. Gypsy Moth and the Summer of 2021 – What to Expect, and What to Do 22-25
10. Roundtable Discussions
  - a. Community Engagement
11. Upcoming Events
12. Date of Next Meeting:
  - September 7<sup>th</sup>, 2021
13. Adjournment

Ronda Boutz,  
Team Lead, Special Projects.

/dm

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**FORESTRY COMMITTEE MEETING**

Tuesday, March 2<sup>nd</sup>, 2021, 10:00 a.m. – Meeting 01/2021

By Electronic Participation



Present:

- Dave Robertson, Committee Chair
- François Allard, Public Citizen
- Alain Bertrand, Public Citizen
- Archie Byers, Public Citizen
- Maurice Chabot, Public Citizen
- Dorothy Hamilton, Ontario Woodlot Association – Stormont, Dundas and Glengarry Chapter
- Elizabeth Holmes, Ministry of Natural Resources and Forestry (non-voting)
- Steve Hunter, United Counties of Prescott Russell
- Murray Inch, Public Citizen
- Glenn Mackey, Public Citizen
- François St. Amour, Mayor, La Nation
- Bill Smirle, SNC Board of Directors, Past Chair, ex-officio
- Doug Thompson, Public Citizen
- Ron Toonders, Agriculture

Regrets:

- Lloyd Benedict, Mohawks of Akwesasne
- Ben de Haan, United Counties of Stormont Dundas Glengarry
- Tony Ricard, Public Citizen
- George Darouze, SNC Board of Directors, Chair, ex-officio
- Pierre Leroux, SNC Board of Directors, Vice Chair, ex-officio

Staff:

- Ronda Boutz, Team Lead, Special Projects
- Cheyene Brunet, Forestry Technician
- Chris Craig, Senior Forestry Technician
- Caroline Goulet, Forestry Technician
- Pat Piitz, Team Lead, Property
- Martin Streit, Forester



**CHAIR'S REMARKS**

Dave Robertson, Committee Chair, convened the Forestry Committee meeting of Tuesday, March 2<sup>nd</sup>, 2021 at 10:00 a.m. and welcomed Committee Members.

**APPROVAL OF FORESTRY COMMITTEE AGENDA**

RESOLUTION NO. FC-001/21

Moved by: Doug Thompson

Seconded by: Maurice Chabot

RESOLVED THAT:

The Members approve the Forestry Committee agenda of March 2<sup>nd</sup>, 2021 as submitted.

CARRIED

**DECLARATION OF CONFLICT OF INTEREST**

There were no Declarations of Conflict of Interest.

**SNC FORESTRY PROJECT UPDATE – POWERPOINT PRESENTATION**

Staff presented Forestry Program and Project updates.

**Archie Byers and Bill Smirle joined the meeting at 10:11 a.m.**

**APPROVAL OF: FORESTRY COMMITTEE VIRTUAL MEETING MINUTES OF NOVEMBER 24<sup>TH</sup>, 2020**

RESOLUTION NO. FC-002/21

Moved by: Bill Smirle

Seconded by: Maurice Chabot

RESOLVED THAT:

The Members approve the Forestry Committee virtual meeting minutes of November 24<sup>th</sup>, 2020 as submitted.

CARRIED



**REQUEST FOR APPROVAL: ELECTION OF COMMITTEE CHAIR**

RESOLUTION NO. FC-003/21

Moved by: Bill Smirle  
Seconded by: Ron Toonders

RESOLVED THAT:

The Forestry Committee appoint Ronda Boutz, Team Lead, Special Projects as the Acting Committee Chair; and

FURTHER THAT:

SNC Administrative By-law 15.3: '*All elections shall be in accordance with the Procedures for Election of Officers*' be adhered to.

CARRIED

Ronda Boutz, Acting Committee Chair, declared the Forestry Committee Chair position vacant.

**ELECTION OF COMMITTEE CHAIR**

Call for nominations three times for election of Chair (no seconder required)

**First Call for Nominations:**

Moved by: Francois St. Amour                      Dave Robertson be nominated for Chair, Forestry Committee.

Dave Robertson declined the nomination for Chair, Forestry Committee.

**Second Call for Nominations:**

Moved by: Dave Robertson                      Glenn Mackey be nominated for Chair, Forestry Committee.

Glenn Mackey accepted the nomination for Chair, Forestry Committee.

**Third Call for Nominations: None**

**Hearing none**, nominations closed for the position of Chair, Forestry Committee.



**Approval of the following Motion:**

RESOLUTION NO. FC-004/2021

Moved by: Dave Robertson

Seconded by: Bill Smirle

RESOLVED THAT:

For the year 2021, and until the Joint Standing Committee meeting of 2022, that Glenn Mackey be elected as Chair of the Forestry Committee.

CARRIED

**REQUEST FOR APPROVAL: 2021 COMMITTEE MEMBERSHIP**

RESOLUTION NO. FC-005/21

Moved by: Alain Bertrand

Seconded by: Doug Thompson

RESOLVED THAT:

The Forestry Committee recommends the following membership to the Board of Directors for 2021 as amended:

- François Allard, Public Citizen
- Lloyd Benedict, Mohawks of Akwesasne
- Alain Bertrand, Public Citizen
- Archie Byers, Public Citizen
- Maurice Chabot, Public Citizen
- Dorothy Hamilton, Ontario Woodlot Association Stormont, Dundas, and Glengarry Chapter
- Elizabeth Holmes, Ministry of Natural Resources and Forestry (non-voting)
- Steve Hunter, United Counties of Prescott and Russell
- Murray Inch, Public Citizen
- **Glenn Mackey, Committee Chair**
- Tony Ricard, Public Citizen
- Dave Robertson, Public Citizen
- François St. Amour, SNC Board Member
- Benjamin De Haan, United Counties of Stormont, Dundas, and Glengarry



- Doug Thompson, Public Citizen
- Ron Toonders, Agriculture
- George Darouze, SNC Chair, ex-officio
- Pierre Leroux, SNC Vice Chair, ex-officio
- Bill Smirle, SNC Past Chair, ex-officio

CARRIED

**UPDATE: SNC FOREST ANNUAL REPORT 2020**

RESOLUTION NO. FC-006/21

Moved by: Maurice Chabot  
Seconded by: Murray Inch

RESOLVED THAT:

The Forestry Committee receive and file the SNC Forest Annual Report 2020.

CARRIED

**UPDATE: FOREST CERTIFICATION AUDITS**

RESOLUTION NO. FC-007/21

Moved by: Steve Hunter  
Seconded by: Dorothy Hamilton

RESOLVED THAT:

The Forestry Committee receive and file the update on Forest Certification.

CARRIED

**UPDATE: FOREST HEALTH NETWORK**

RESOLUTION NO. FC-008/21

Moved by: Dave Robertson  
Seconded by: Archie Byers

RESOLVED THAT:

The Forestry Committee receive and file the update on the Forest Health Network.

CARRIED



**UPDATE: EMERALD ASH BORER PARASITOID RELEASE PROJECT**

RESOLUTION NO. FC-009/21

Moved by: Bill Smirle  
Seconded by: Ron Toonders

RESOLVED THAT:

The Forestry Committee receive and file the update on the Emerald Ash Borer Parasitoid Release Project.

CARRIED

**UPDATE: SNC FOREST-RELATED PROJECTS**

RESOLUTION NO. FC-010/21

Moved by: Murray Inch  
Seconded by: Dorothy Hamilton

RESOLVED THAT:

The Forestry Committee receive and file the report on SNC Forest-Related Projects update.

CARRIED

**UPDATE: INDIGENOUS PARTNERSHIPS**

RESOLUTION NO. FC-011/21

Moved by: Alain Bertrand  
Seconded by: Dave Robertson

RESOLVED THAT:

The Forestry Committee receive and file the Indigenous Partnerships update report.

CARRIED

**CORRESPONDENCE**

- a. Conservation Ontario's Comments on the OPFA's Scoped Review of the *Professional Foresters Act*.





**ROUNDTABLE DISCUSSIONS**

**A. COMMUNITY ENGAGEMENT**

- Francois Allard: Discussed snowmobile clubs and inquired on SNC communication channels for local clubs where they cross SNC land.
- Glenn Mackey: Bill Smirle, Jackie Pemberton, and Glenn Mackey sit on the ALUS-Ontario East Partner Advisory Committee.

**Bill Smirle left the meeting at 11:14 a.m.**

**UPCOMING EVENTS**

- Eastern Ontario First Nation Working Group Meeting: March 9<sup>th</sup>, 2021 at 10:00 a.m. via Zoom
- SNC Forest Contractor Meeting: April 1<sup>st</sup>, 2021 at 10:00 a.m. via MS Teams

**DATE OF NEXT MEETING**

June 1<sup>st</sup>, 2021 at 10:00 a.m. via MS Teams

**ADJOURNMENT**

RESOLUTION NO. FC-012/21

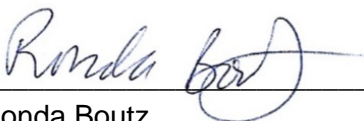
Moved by: Francois St. Amour  
Seconded by: Steve Hunter

RESOLVED THAT:

The Forestry Committee meeting of March 2<sup>nd</sup>, 2021 be adjourned at 11:20 a.m.

CARRIED

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Glenn Mackey,  
Committee Chair.

  
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Ronda Boutz,  
Team Lead, Special Projects.



**To:** Forestry Committee  
**From:** Caroline Goulet, Forester  
**Date:** May 25, 2021  
**Subject:** Update: 2021 Tree Planting and Free Tree Days

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**RECOMMENDATION:**

The Forestry Committee endorses the work completed in spring 2021 for the Tree Planting program by SNC staff.

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**DISCUSSION:**

This spring South Nation Conservation (SNC) had another successful tree planting season which included the planting of 165,700 trees through the Forests Ontario Program (50 Million Tree Program), 41,500 trees at Larose Forest, and 11,470 trees sold through the Over-the-Counter program.

The planting season lasted 36 days over April and May. For the second year, SNC enlisted staff to plant 48,750 trees on 40 properties for the Forests Ontario Program. Staff completed the planting over a 26-day period. A list of 2021 customers per municipality is attached.

In total, 82 landowners across SNC's jurisdiction and in the United Counties of Prescott Russell planted trees in spring 2021 which will attribute to an estimated 240 acres (700 per acre) of increased forest cover in the future.

SNC currently has 8,640 trees reserved for spring 2021 by 14 landowners.

For the third year in a row, SNC offered municipalities free tree seedlings as part of the 2021 Free Tree Days. Each member municipality was supplied with 410 tree seedlings consisting of 9 native species. There have been 16 giveaways totalling approximately 10,600 trees including a tree giveaway to nurses and healthcare workers at the Winchester and District Memorial Hospital, the Glengarry District Memorial Hospital and the Cornwall Community Hospital.

Over 3,000 residents throughout the jurisdiction applied for this year's Free Tree Pick Ups. Approximately 100 residents in each municipality received a bundle of 5 tree seedlings based on their indicated species preference. Pick ups were held at a central location in each municipality. The Pick Ups started on Saturday, May 1st and finished on Sunday, May 16th.

**FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:**

Compliance with Budget: The tree planting program is included in the 2021 Budget under Resource Management, Partner Programs, Forests pages 16-17.

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SOUTH NATION  
**CONSERVATION**  
DE LA NATION SUD

SNC Policy Adherence: SNC Forest Policy 2 and 3: The South Nation Forest shall be managed to provide a range of products and services that will maintain or enhance the long-term economic viability and a range of environmental and social benefits; and South Nation Conservation will employ silvicultural practices that are ecologically appropriate for the vegetation, species, sites and management objectives that maintain and/or enhance long-term forest diversity, health and productivity of the South Nation Forest.

*Caroline Goulet*  
For: Caroline Goulet,  
Forester.

Attachment: 2021 Tree Planting Statistics by Municipality

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<b>2021 Tree Planting Statistics by Municipality</b>		
<b>Municipality</b>	<b>No. of Landowners</b>	<b>No. of Trees</b>
Alfred and Plantagenet	19	30,990
Champlain	5	9,020
East Hawkesbury	3	4,760
Nation	8	11,570
Russell	3	4,300
Clarence Rockland	8	19,160
Ottawa	7	5,300
North Grenville	2	8,700
Edwardsburgh Cardinal	1	11,000
Augusta	4	7,850
North Dundas	4	2,600
South Dundas	6	13,150
North Stormont	9	35,350
South Stormont	2	1,150
North Glengarry	1	800
Larose Forest	1	41,500
<b>Total</b>		<b>207,200</b>

\* Includes only plantings through Forest Ontario's: 50 Million Tree Program and Larose Forest tree planting.



**To:** Forestry Committee  
**From:** Pat Piitz, Team Lead, Property  
**Date:** May 20, 2021  
**Subject:** Request for Approval: Land Use Request

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**RECOMMENDATION:**

The Forestry Committee recommend to the Board of Directors to issue permission for beekeeping on SNC 64; and

FURTHER THAT: The Forestry Committee recommends Expressions of Interest be sought for maple syrup production on SNC40.

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**DISCUSSION:**

**BEEKEEPING:**

**Proponent:** Mr. Peter Roderick  
**Request:** Placement of 10-15 hives with electric fencing and signage.  
**Location:** SNC 64. South west corner Lot 16 Con. 13 Nation Municipality.  
**Payment:** 1 case of honey (12 kilograms)  
**Comments:** SNC has existing contracts with other honey producers. Similar terms. Honey is donated to local food banks. Supports pollinators.

**MAPLE SYRUP PRODUCTION:**

**Proponent:** A & B Maple Syrup  
**Request:** Commercial tapping & collection of maple sap including all infrastructure.  
**Location:** SNC 40. Lot Con. 13 Nation Municipality. Along County Rd. 16  
**Value:** TBD  
**Comments:** SNC has seven properties with the potential for maple tapping. SNC has been tapping since 2003, two properties have been developed for this purpose: SNC21 on Sand Rd. and the Oschmann Forest. Should follow competitive process.

**FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:**

Compliance with Budget:

There are no financial obligations on SNC. Revenue from these activities would be included in future budgets.

SNC Policy Adherence:

Adheres to SNC Forest Policy.

  
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Pat Piitz,  
Team Lead Property.

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**To:** Forestry Committee  
**From:** Ronda Boutz, Team Lead, Special Projects  
**Date:** May 25, 2021  
**Subject:** Update: Funding Submissions

**RECOMMENDATION:**

The Forestry Committee receive and file the grant submission update.

**DISCUSSION:**

The following is a summary of funding submissions from January 2021 to date:

Grant Name	Project Name	Status	Amount Requested
Grasslands Ontario: Grassland Stewardship Initiative	Grassland Habitat Enhancement and Hay Field Rejuvenation	Submitted: January 22, 2021 Status: <b>Approved</b>	\$17,782
Ontario Power Generation	Biodiversity Conservation in Partnership with Indigenous Communities	Submitted: February 11, 2021 Status: <b>Approved</b>	\$5,000 (2021) \$5,000 (2022) \$50,000 (2023)
Habitat Stewardship Program	Forest Bird Monitoring	Application Due: March 2, 2021 Status: <b>Pending</b>	\$6,000
National Disaster Mitigation Program	Bear Brook and Tributaries Hazard Mapping	Submitted: December 1, 2020 Status: <b>3 Approved</b>  <ul style="list-style-type: none"> <li>• <b>Bear Brook and Tributaries Hazard Mapping</b></li> <li>• <b>Ottawa River Flood Hazard Mapping</b></li> <li>• <b>Flood Risk Assessment Partnership</b></li> </ul>	\$265,747
	Ottawa River Flood Hazard Mapping		\$170,056
	Flood Forecasting and Warning Improvements in the South Nation River Watershed		\$85,028
	Flood Risk Assessment Partnership		\$168,881



Grant Name	Project Name	Status	Amount Requested
	Data Acquisition to Support Eastern Ontario Flood Risk Assessments, Floodplain Mapping, and Flood Forecasting and Warning (LiDAR)		\$899,546
EcoAction Community Funding Program	Oak Valley Restoration	Application Due: March 3, 2021 Status: <b>Denied</b>	\$50,000 (2-year)
Smart Great Lakes Mini-grants Program	Development and installation of the St. Lawrence River Hydrometric Laboratory	Application Due: March 12, 2021 Status: <b>Denied</b>	\$82,956
Canada Nature Fund	Implementation of SNC Land Securement Strategy	Application Due: March 19, 2021 Status: <b>Denied</b>	\$125,000
2 Billion Tree Program	SNC Forests – tree planting on SNC 7	Application Due: March 25, 2021 Status: <b>Approved</b>	\$16,890
Lafèche Wetland Trust Fund	Land Acquisition	Application Due: Open Status: <b>Pending</b>	\$250,000
Stormont Dundas Glengarry Regional Tourism Grant	Warwick Forest Bridge Replacement	Application Due: March 30, 2021 Status: <b>Denied</b>	\$5,000
Rural Economic Development Program	Shoreline Restoration and Washroom Replacement	Application Due: March 30, 2021 Status: <b>Pending</b>	\$35,550
UCPR Waterfront Tourism Development Fund	St. Albert Park and Dock Improvement	Application Due: March 30, 2021 Status: <b>Approved</b>	\$4,000
Fisheries and Oceans Canada	Classifying Unrated Municipal Drains	Application Due: May 14, 2021 Status: <b>Pending</b>	\$10,000



Grant Name	Project Name	Status	Amount Requested
Ontario Community Environment Fund	East York Creek Shoreline Stabilization	Application Due: June 23, 2021 Status: <b>In Progress</b>	\$40,000
Climate Action Awareness Fund	SNC Forest Inventory and Carbon Models	Expression of Interest Due: June 3, 2021 Status: <b>In Progress</b>	\$425,000

**Summary of Submissions:**

- In Progress: 2 submissions, \$465,000
- Pending: 4 submissions, \$301,550
- Approved: 7 submissions, \$703,356
- Denied: 6 submissions, \$1,247,530

**FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:**

Compliance with Budget:

The 2021 SNC Budget includes external grants under Resource Management, Projects, Federal and Provincial Grant Programs, pages 26-27.

SNC Policy Adherence:

All expenditures and activities will adhere to SNC's Purchasing Policy and SNC's Health and Safety Policies and Procedures.

Ronda Boutz,  
Team Lead, Special Projects.





**To:** Forestry Committee  
**From:** Pat Piitz, Team Lead Property  
**Date:** May 19, 2021  
**Subject:** Update: Grassland Initiative – SNC 164

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**RECOMMENDATION:**

The Forestry Committee receive and file the Grassland Initiative – SNC 164 update.

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**DISCUSSION:**

In 2019, South Nation Conservation (SNC) acquired SNC164, in Edwardsburgh-Cardinal, under the Ecological Gifts Program. The property featured approximately 42 acres of grassland habitat for two grassland species at risk birds. The property also featured a culturally and ecologically diverse range of hedgerows. The previous owner maintained these grassland habitats through annual harvesting of hay in partnership with local farmers. SNC was successful in an application to Grasslands Ontario, a division of Forests Ontario, to complete inventory and assessment of the site, to develop and implement a crop management plan conducive to the bird species of concern and monitor long-term effectiveness. This financial support will enable SNC to maintain the grassland habitat through a bird-friendly hay harvesting schedule.

Agricultural and Agri-Food Canada (AAFC) has since agreed to partner with SNC on this project. AAFC will provide additional financial support and a wide range of in-kind technical expertise in botany, ornithology, and crop science to develop management plans and long-term monitoring to support their research objectives. One of AAFC's specific interests is the in-situ protection of genetic resources in the grasslands and hedgerows.

**FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:**

Compliance with Budget: The project was not included in the 2021 Budget. Any matching contributions from SNC would come from resources already included in the 2021 Budget.

SNC Policy Adherence: All expenditures will adhere to SNC's Purchasing Policy, including seeking three quotes and required authorizations according to purchasing limits. All work undertaken to complete the projects will adhere to SNC's Health and Safety Policies and Procedures.

  
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Pat Piitz,  
Team Lead Property.



**To:** Forestry Committee  
**From:** Pat Piitz, Team Lead Property  
**Date:** May 19, 2021  
**Subject:** Update: 2021 First Quarter Harvests

**RECOMMENDATION:**

The Forestry Committee receive and file the 2021 First Quarter Harvests update.

**DISCUSSION:**

To update the Forestry Committee, the following table summarizes harvest activities to date on the South Nation Conservation (SNC) and Stormont, Dundas, and Glengarry (SDG) County Forests:

Harvest Year	Compartment(s)	Species	Estimated Volume (m <sup>3</sup> )	Actual Volume (m <sup>3</sup> )	Harvest Area (ha.)	Value (gross)
2021	SNC 16/17	Sw	561.07	1092.50	10.0	\$ 13,110.04
		Fuelwood	Incidental	497.34		\$ 994.69
		<b>Total SNC Revenue</b>				
2021	SDG 11/12/13	Pr	450.3	433.21	22.1	\$ 5,631.79
		Pw	339.1	271.66		\$ 1,113.82
		Sw/Sn	379.7	892.28		\$10,261.23
		Po	-	41.56		\$ 207.79
		Other	-	156.31		\$ 781.56
2020	SDG 90	Sw	594.03	-	9.0	\$5,940.30
		<b>Total SDG Revenue</b>				<b>\$ 23,936.49</b>

**FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:**

Compliance with Budget:

**SNC Forest:** Revenues from the sale of wood is included in the 2021 SNC Budget under Community Land: SNC Forest: Revenue: Fees: \$90,000 pg. 36-37.

**SDG County Forest:** Revenues from the sale of wood is included in the 2021 SDG County Budget.



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SNC Policy Adherence:

Harvest of forest products is undertaken in compliance with SNC and SDG County Forest Policy and Forest Stewardship Council (FSC) certification standards.

*PPiitz*  
\_\_\_\_\_  
Pat Piitz,  
Team Lead Property.



**To:** Forestry Committee  
**From:** Pat Piitz, Team Lead Property  
**Date:** May 25, 2021  
**Subject:** For Discussion: 2022 Budget

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**RECOMMENDATION:**

The Forestry Committee review and provide any comments prior to the September 7<sup>th</sup>, 2021 committee meeting.

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**DISCUSSION:**

In preparation for the draft 2022 SNC Budget, staff are seeking comments from the Forestry Committee on the following 2022 programs:

**Forest Stewards Program**

The involvement of volunteers on SNC land increases awareness and helps educate community residents about the benefits of our forests on a social, economic, and environmental basis. Residents will also recognize ownership of land and be able to communicate issues or concerns through proper channels.

With recent acquisitions, SNC owns 170 parcels of land and has 22 volunteers assigned to 42 properties.

**SNC Forest**

Financial aspects of forest operations are included within the annual SNC Budget under Community Lands and SNC Forest.

**Revenue**

Actual revenue from forest products in 2020 was \$50,769. Permits and other projects contributed \$14,069.

Current forecasted revenue from harvest operations is \$65,000 based on harvest contracts completed and issued. Actual to date is \$14,105 with outstanding contracts awarded at an estimated value of \$41,600. Permits and other projects are forecasted at \$13,000.

Harvest revenue for 2022 is estimated at \$90,000.00. The revenue estimate is based on planned harvest areas and the most recent revenues per unit area (\$/ha). Permits will contribute \$13,000.



**Expenses**

The following table shows 2020 actual expense, 2021 budget and current expense, and a draft 2022 budget. Current forecasted 2021 estimated expenses are shown in the following table.

	2020	2021		2022
	Actual	Budget	Current	Draft
<b>Lands</b>				
Salaries & Benefits(net)	\$170,329	\$164,133	\$30,623	Under Review
Travel & Training	\$4,407	\$6,000	\$2,122	\$6,000
Equipment	\$2,554	\$1,500	\$3,053	\$3,000
Supplies & Materials	\$9,147	\$10,400	\$818	\$10,000
Contracted Services	\$9,032	\$10,000	\$1,088	\$10,000
Legal	\$16,543	\$6,000	\$152	\$6,000
Property Taxes	57,207	\$65,000	\$29,535	\$70,000
Drainage Assessments	\$2,015	\$5,000	\$276	\$5,000
Grants	\$0	\$2,700	\$0	\$2,700
<b>Total</b>	<b>\$271,234</b>	<b>\$270,733</b>	<b>\$71,822</b>	
<b>SNC Forest</b>				
Salaries & Benefits (net)	\$129,578	\$140,998	\$35,463	Under Review
Travel & Training	5,941	\$6,000	\$1,213	\$163
Equipment	\$1,519	\$1,500	\$0	\$1,500
Supplies & Materials	\$3,088	\$3,000	\$12	\$3,000
Tree Seedlings	\$1,155	\$1,500	\$0	\$6,000
Contracted Services	\$2,280	\$5,000	\$0	\$5,000
FSC Certification Fee	\$4,686	\$5,500	\$4,515	\$5,500
<b>Total</b>	<b>\$148,247</b>	<b>\$163,498</b>	<b>\$41,204</b>	
<b>Forest Stewards Program</b>				
Equipment & Supplies	\$0	\$650	\$0	\$650

**FINANCIAL IMPLICATIONS/ADHERENCE TO SNC POLICY:**

Compliance with Budget: Subject to approval of the SNC 2022 Budget.

SNC Policy Adherence: Adheres to SNC Forest Policy

  
 Pat Piitz,  
 Team Lead Property.

## **Gypsy Moth and the summer of 2021 – what to expect, and what to do**

The populations of European gypsy moth (*Lymantria dispar dispar*) seemed to intensify in the summer of 2020 in a broad area across Southern Ontario. But the signs were there that the populations were building before then, as forests in Southwestern Ontario were heavily defoliated in 2019. Gypsy moth can easily spread as egg masses that are laid on surfaces such as cars and campers. Once they hatch, the new larvae hang on silken threads and disperse locally by the wind. By the end of the feeding cycle in early July 2020, the damage was described by the Forest Health team at the Ministry of Natural Resources and Forestry (MNR) as “moderate - severe”.

### **What should we expect in 2021?**

Anyone who has had the time to patrol their property and look for gypsy moth egg masses will know that there are a lot of egg masses out there! The Ministry of Natural Resources and Forestry did some detailed sampling across the infected zone and have forecasted that, should all of these eggs hatch successfully and develop through all of their larval stages, we should expect “severe” defoliation. [Click here](#) for MNR's forecast and other related information.

### **The hatch of 2021**

There are many factors which will impact the hatching success of egg masses. After they have been laid in July until they hatch in April / May the following year, they will be subject to predation by birds and small mammals. Birds such as chickadees, nuthatches and brown creepers will feed on them, which may keep low populations in check. However, in years of abundant egg masses, there are simply too many for this type of natural control to help limit the population of caterpillars.

Extended periods of low winter temperatures may also cause egg mass mortality. Some reports state that prolonged periods of  $-20^{\circ}\text{C}$  will be enough, while other reports state that  $-30^{\circ}\text{C}$  is required. Again, while this may affect some eggs, it may not be enough.

Once spring arrives, the egg masses lie dormant until the environmental conditions are favourable for the hatch. Accumulated heat and increasing day length are the primary triggers, so the hatch will likely start in Southwestern Ontario before Eastern Ontario. There are reports from Southwestern Ontario that the hatch in 2021 began as early as April 16<sup>th</sup>, with some early hatching seen in Lanark County on April 19<sup>th</sup>.

BioForest is a company based out of Sault Ste. Marie, that specializes in innovative product development and consulting strategies for urban and commercial forest protection. BioForest's purpose is to save trees from insect pests and diseases, while having minimal impact on the surrounding environment. Using a science-based approach, BioForest is committed to implementing effective pest management and forest health strategies. They have provided

predictive mapping on the 2021 gypsy moth egg hatch based on environmental modelling. For instance, they forecast that 10% of the egg masses in Eastern Ontario will hatch by May 2 to 4, while 90% will have hatched by May 17 to 19. For more details, [click here](#) for the BioForest website.

### What can homeowners and woodlot managers do?

1. **Remove the egg masses.** Between July and the following April, you can remove and destroy egg masses. They can be found on any tree that the gypsy moth fed on last summer and other surfaces such as decks, rocks, trailers, and lawn furniture. The best way to remove egg masses is to use a butter knife and scrape them into a coffee can or other receptacle. Once you have accumulated them, destroy them in what ever way you decide. Official recommendations are to soak them in soapy water for 48 hours, but it may be more satisfying to throw them into your wood stove. Do not simply scrape them off the tree and onto the ground as they are likely to hatch and survive. Some useful video links:

- [Removal \(City of Toronto\)](#)
- [Removal \(City of London\)](#)

2. **Spray the newly emerged and feeding larvae.** Once the eggs hatch, the larvae tend to remain close to the hatching site for a day or so before moving up the tree to begin their feeding. This gives you a chance to verify that they have hatched, and that the battle will be moving on to the next stage – which calls for different tactics. You won't even notice the defoliation at this point, and you might be lulled into thinking "it won't be so bad". Now is the time to take any kind of spraying action. At a smaller scale, you can purchase BTK in 100 ml containers at the hardware store or garden centre. Last year, most suppliers sold out quickly so make sure you have your supply. You can mix this up in a hand or back-pack sprayer, following the mixing instructions on the package. Spray directly on the foliage. Early morning or later in the evening is best. Avoid spraying if it has just rained or is likely to rain, as this will wash the insecticide off the foliage. You may need two or more applications. [Click here](#) for more info.

At a larger scale, landowners may participate in an aerial spraying program. This is logistically challenging, given the regulations that apply to aerial spraying companies, the relatively small blocks that will be sprayed, and the need to time the spray at the right time of larval development, and with the right environmental conditions on the day of spraying. The areas that are sprayed should be monitored for effectiveness by laying out some white sheets or tarps on the ground before the spraying, and then seeing how many larvae die and fall out of the trees.

**3. Trap and destroy the growing larvae.** About three to four weeks after the hatch, the larvae are getting big enough that they begin to descend from the treetops and find a place to hide near ground level. This is the ideal time to use the burlap bag trap method. Basically, you are providing them with an ideal hiding spot so that you can then remove and destroy them. [Click here](#) for more information.

Or watch this video: [Burlap around tree \(City of Toronto\)](#)

You can also trap gypsy moth larvae using a “Tanglefoot” type product. This gummy substance traps the caterpillars as they travel up and down the tree. Do not apply this directly to the tree. Wrap your bark in plastic wrap first, and then apply the Tanglefoot on top of the wrap.

**4. Hope for Nature to come to the rescue.** While all of the above tactics can help to protect individual trees, or smaller areas, none of these will have an impact on the overall population of gypsy moth. There are simply too many of them, and there is a lot of forest out there where no one is trying to control them. The good news is that nature can, and will, come to our rescue. There are two main control factors – one is a virus, and the other is a fungus.

The **NPV (nucleopolyhedrosis virus)** is usually the most important factor in the collapse of gypsy moth outbreaks in North America. The virus is always present in a gypsy moth population and can be transmitted from the female moth to her offspring. It spreads naturally through the gypsy moth population, especially when caterpillars are abundant. During a gypsy moth outbreak, caterpillars become more susceptible to this virus disease because they are stressed from competing with one another for food and space. Typically, 1 to 2 years after an outbreak begins, the NPV disease causes a major die-off of caterpillars.

Another natural killer of gypsy moth caterpillars is a fungus called **Entomophaga maimaiga**. Fungal spores that overwinter in the soil will infect young caterpillars early in the summer. When the young caterpillars die, their bodies produce windblown spores that can spread and infect older caterpillars. Large caterpillars killed by the fungus will hang head down from the tree trunk, and the bodies of the dead caterpillars appear dry, stiff, and brittle. Within several days, the cadavers fall to the soil and disintegrate, releasing the spores that will overwinter back into the soil. The fungus is most active in cooler, wetter periods.

Some birds, mammals and rodents will also feed on the growing larvae – but this type of predation is unlikely to cause a population decline.

### **What happens after the trees have been defoliated?**

Most of the hardwood trees can produce a new set of leaves if they have been completely defoliated. But this puts a stress on the tree as it uses valuable resources. It is especially stressful if they are trying to do so in a period of hot, dry weather. Fortunately, hardwoods rarely die after defoliation.



Conifers such as white pine and white spruce will have a harder time. They cannot re-foliate, and must rely on the photosynthesis of older needles to sustain their growth. If gypsy moth defoliates a conifer in successive years, it will likely die.

The best thing you can do in both of these cases is to try to keep your trees as healthy as possible to begin with. If you can, water your trees in those hot, dry periods.

For more information email MNR at: [info.mnrscience@ontario.ca](mailto:info.mnrscience@ontario.ca)

Or

The Invasive Species Centre at: [info@invasivespeciescentre.ca](mailto:info@invasivespeciescentre.ca)

The Early Detection & Rapid Response (EDRR) Network Ontario is a community action project coordinated by the Invasive Species Centre in collaboration with the Eastern Ontario Model Forest and the Ontario Invasive Plant Council. This project aims to train and equip volunteers with the skills and resources needed to better detect and reduce invasive species in Ontario, one community at a time. To learn more and get involved, [click here](#) to visit the EDRR webpage.

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