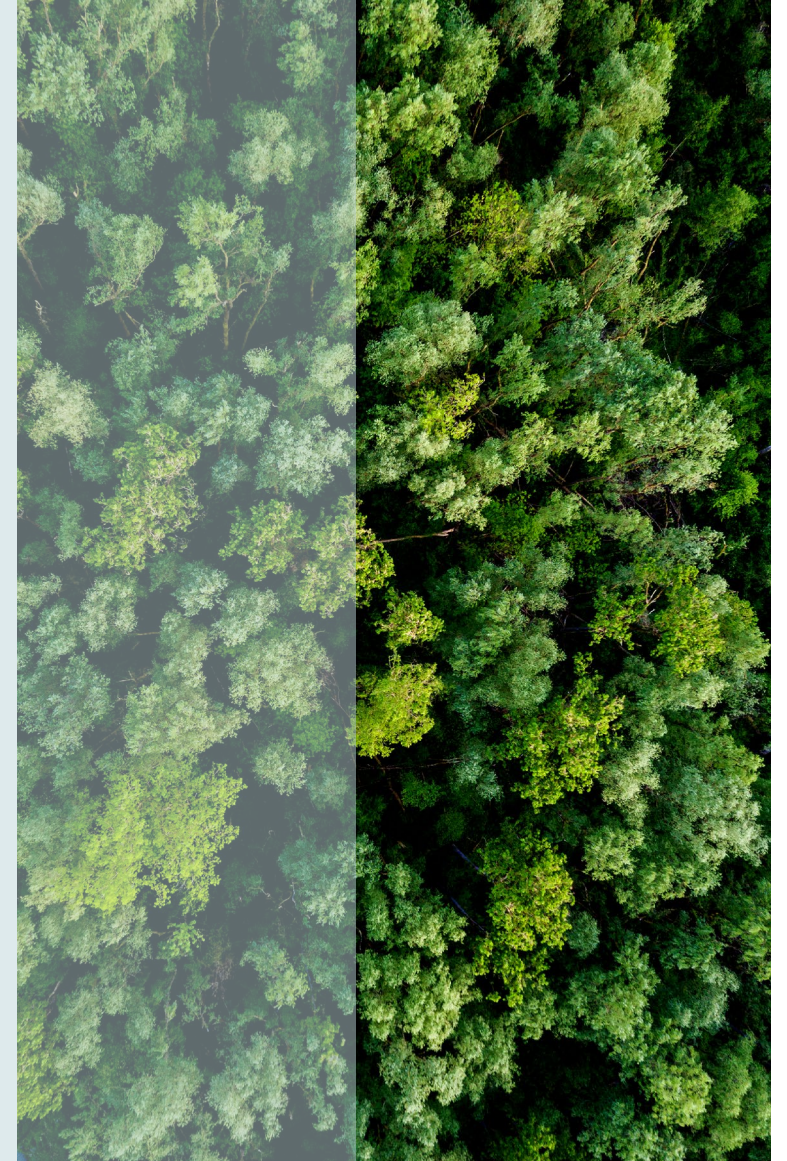


LWCA FALL WRAP UP EVENT
Wednesday October 19, 2022

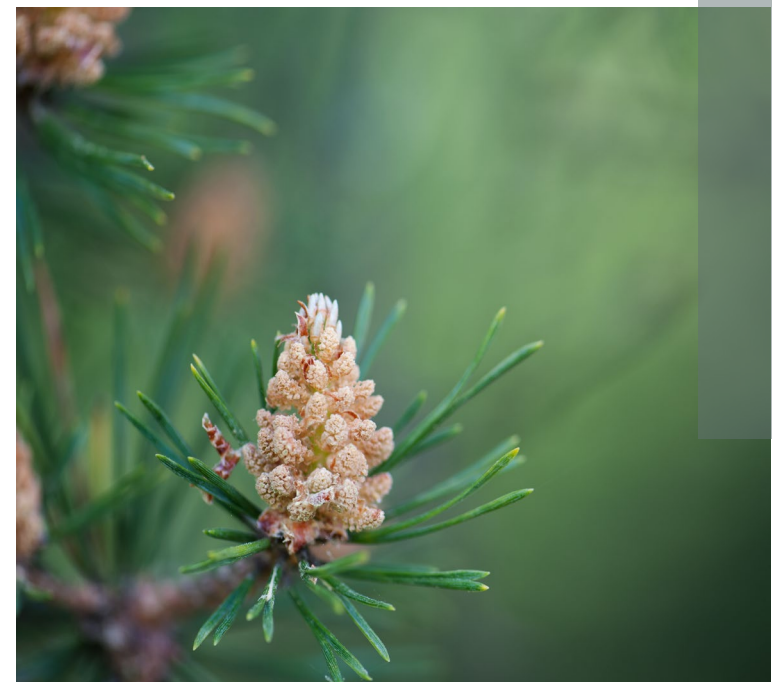
MAZINAW-LANARK FOREST

Julie Antler, RPF – Planning Forester



AGENDA

- ❖ Forestry in Ontario
- ❖ Mazinaw-Lanark Forest breakdown
- ❖ Mazinaw-Lanark Forest Inc/First Resource Management Group
- ❖ Regulating the industry
- ❖ Managing the forest
- ❖ Our team
- ❖ Accessing Forestry Information



Ontario is divided into several management zones for the purposes of administration and management programs



NORTHERN BOREAL (FAR NORTH)

is essentially all land north of the AOU and is largely inaccessible with some isolated communities scattered across the landscape

AREA OF THE UNDERTAKING

The Ministry of Natural Resources and Forestry has approvals under the *Environmental Assessment Act* to conduct forest management on Crown lands. The planning area parks are part of Ontario's Living Legacy and was coupled with the AOU as part of a planning program in the late 1990s designed to expand parks and protected areas within the managed forest

GREAT LAKES

is a summary of the lakes themselves, and the islands that occur within them (ie. Manitoulin)

SOUTHERN ONTARIO

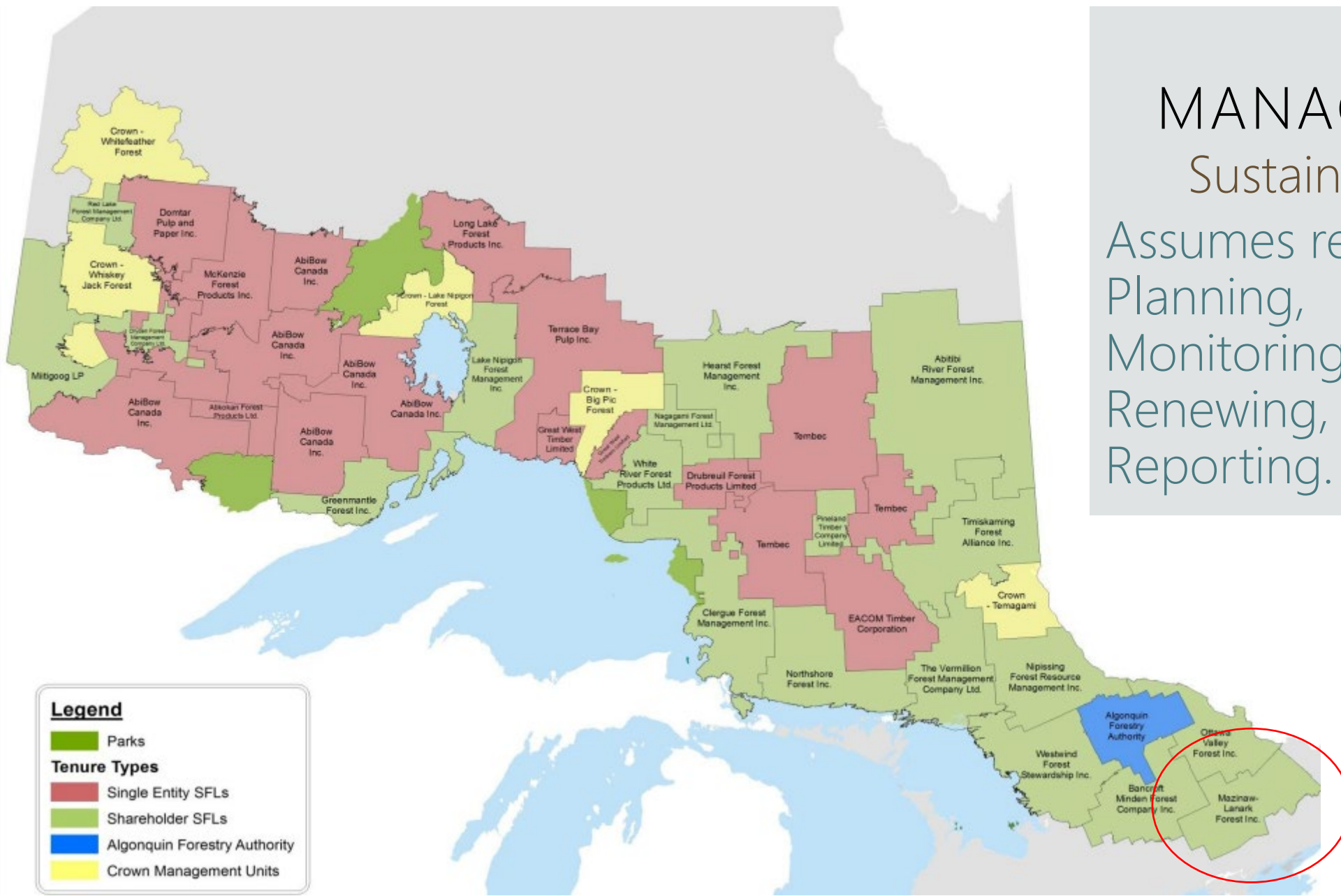
is where most of the population in the province lives, and is dominated by private land.



ONTARIO MANAGEMENT UNITS

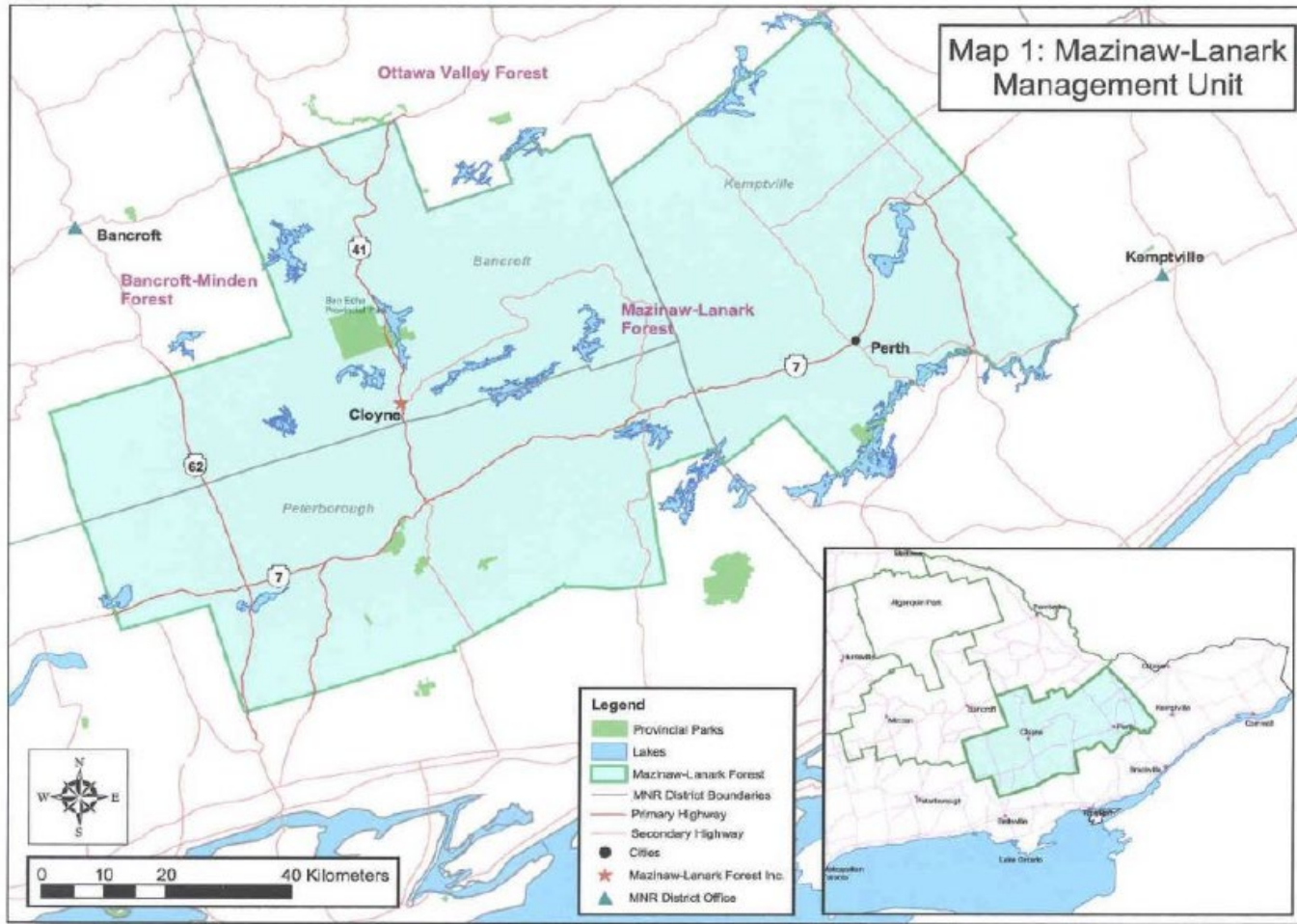
Sustainable Forest Licenses

Assumes responsibility for:
Planning,
Monitoring,
Renewing,
Reporting.



Legend

- Parks
- Tenure Types**
- Single Entity SFLs
- Shareholder SFLs
- Algonquin Forestry Authority
- Crown Management Units



Map 1: Mazinaw-Lanark Management Unit

66%

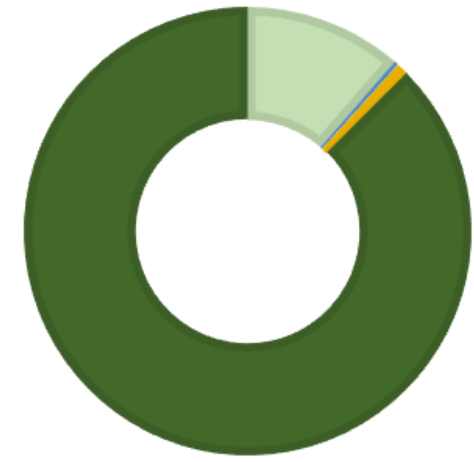
Private land (633,540 ha)

34%

Crown land (326,443 ha)



208,470 ha Productive Crown Land



- 23,682 ha (11%) is in Parks & Conservation Areas
- 637 ha (0.3%) is below regeneration age
- 1,877 ha (1%) is protection forest due to inaccessibility
- 182,811 ha** available for timber production

MAZINAW-LANARK FOREST

959,983 ha
 (19% available for harvest)
 1,200ha harvested/year
 (<1% of forest)

WHEN WILL CANADA HARVEST ITS LAST TREE?

NEVER



Canada has:

348 million hectares of forest

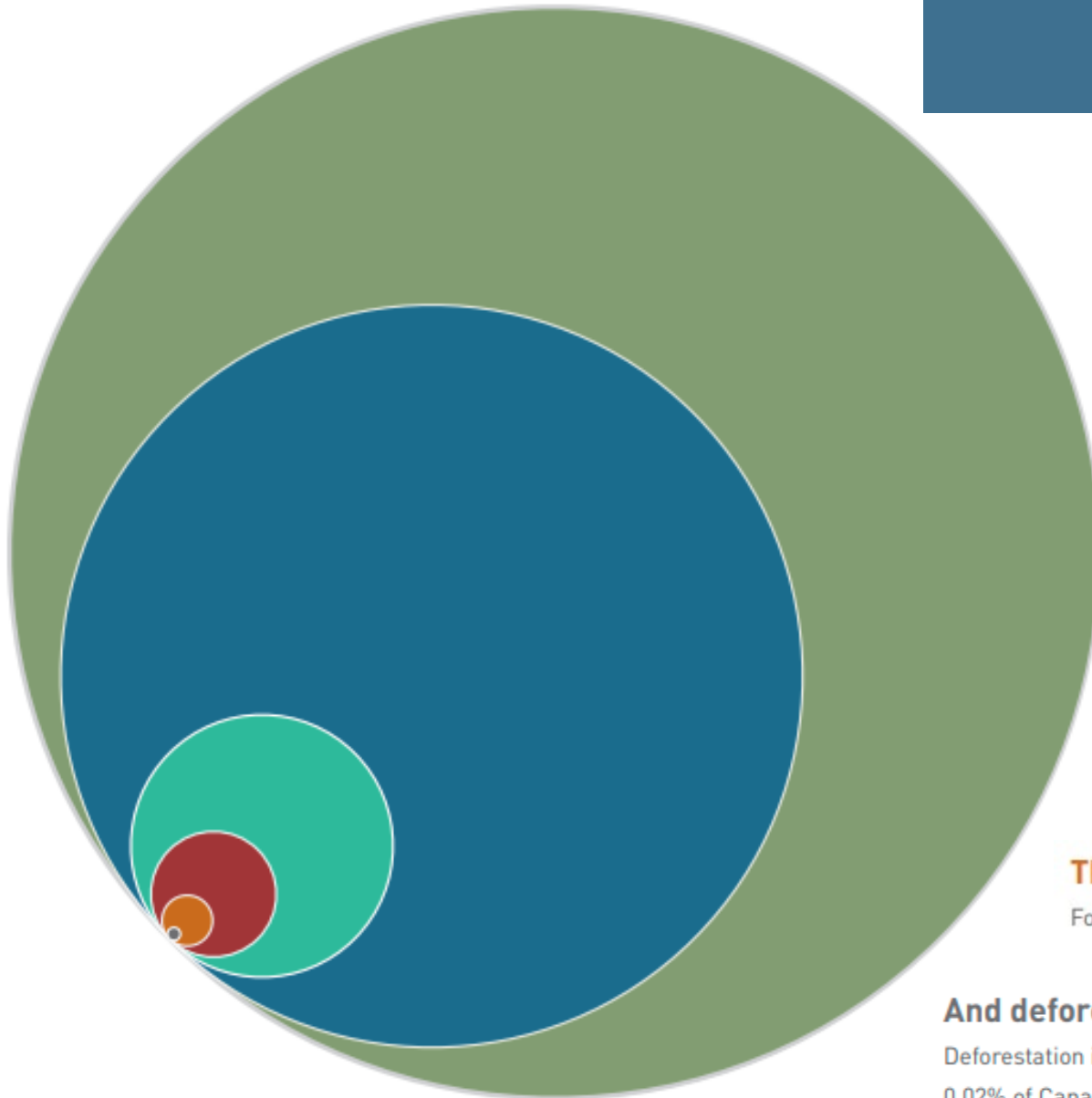
161 million hectares of forest **independently certified as sustainably managed** (2014)

20.1 million hectares of forest **damaged by insects** (2013)

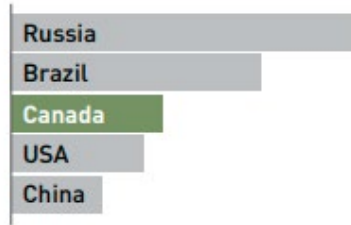
4.6 million hectares of forest **burned in forest fires** (2014)

0.74 million hectares of forest **harvested** (2013)

0.05 million hectares of forest **deforested** (2013)



Canada has the world's third-largest forest area.



And 43% of the world's certified forests.

Certification provides third-party assurance that a forest company is operating within recognized standards of sustainable forest management.

Each year, **fires** and **insects** affect a lot of Canada's forests.

Fires, insects, diseases and other natural disturbances have occurred in Canada's forests for millennia, shaping the diversity of plants and animals.

In fact, most of Canada's forests have regrown from seedlings in the last 200 years.

The impact of harvesting is much smaller.

Forests harvested on Canada's public land must be successfully regenerated.

And deforestation is even smaller.

Deforestation is the clearing of forests to make way for new, non-forest land uses.

0.02% of Canada's forests are deforested each year.



MAZINAW-LANARK FOREST INC.

- Private organization owned by the forest industry of the area to conduct forest management activities on Crown (public) land
- Hold a Sustainable Forest Licence (SFL) issued by MNRF for Crown Lands in Frontenac, Lanark and Addington, and part of Hastings County
- Shareholders include 7 sawmills, 12 independent logging companies, and one pulp mill
- Shareholders are responsible for harvest and access operations, marketing of forest products, and ensuring their operations are carried out in accordance with applicable legislation and standards





FIRST RESOURCE MANAGEMENT GROUP

- Acting as **AGENT** on behalf of Mazinaw-Lanark Forest Inc. and is responsible for:
 - Preparing a Forest Management Plan (FMP) every 10 years
 - Preparing Forest Operations Prescriptions (FOP)
 - Monitoring all harvest and renewal operations to ensure compliance
 - Managing silvicultural activities (tree marking, tree planning, site preparation, tending)
 - Preparing Annual Reports and Annual Work Schedules

RESPONSIBILITIES

PLANNING

- Forest Management Plan must be approved prior to any forestry activities (MNR, LCC, Indigenous)
- Annual Work Schedule details where annual operations are planned
- Forest Operations Prescriptions details site-specific management for each harvest block



Conduct field work and write prescriptions for each operation that outline in detail what will take place.

MONITORING

- Compliance Inspections
- Silviculture Effectiveness (SEM, FTG, Establishment surveys, post-cut assessment, tree marking audit, tending assessment)
- Roads/pits/water crossings monitored on appropriate timelines



Ensure all our operations comply with the FMP & other legislated requirements.

RENEWING

NATURAL

- Tree marking
- Commercial thinning
- Tending

ARTIFICIAL

- Site preparation
- Tree planting
- Follow up tending



All harvest areas are regenerated to standards described in the approved FMP to ensure the future of the forest.

REPORTING

- Annual reports summarize harvest, renewal, tending, SEM, road construction and maintenance.
- Factors affecting FMP implementation (Natural disturbances, markets, labour disruptions)
- Instances of non-compliance and remedies applied



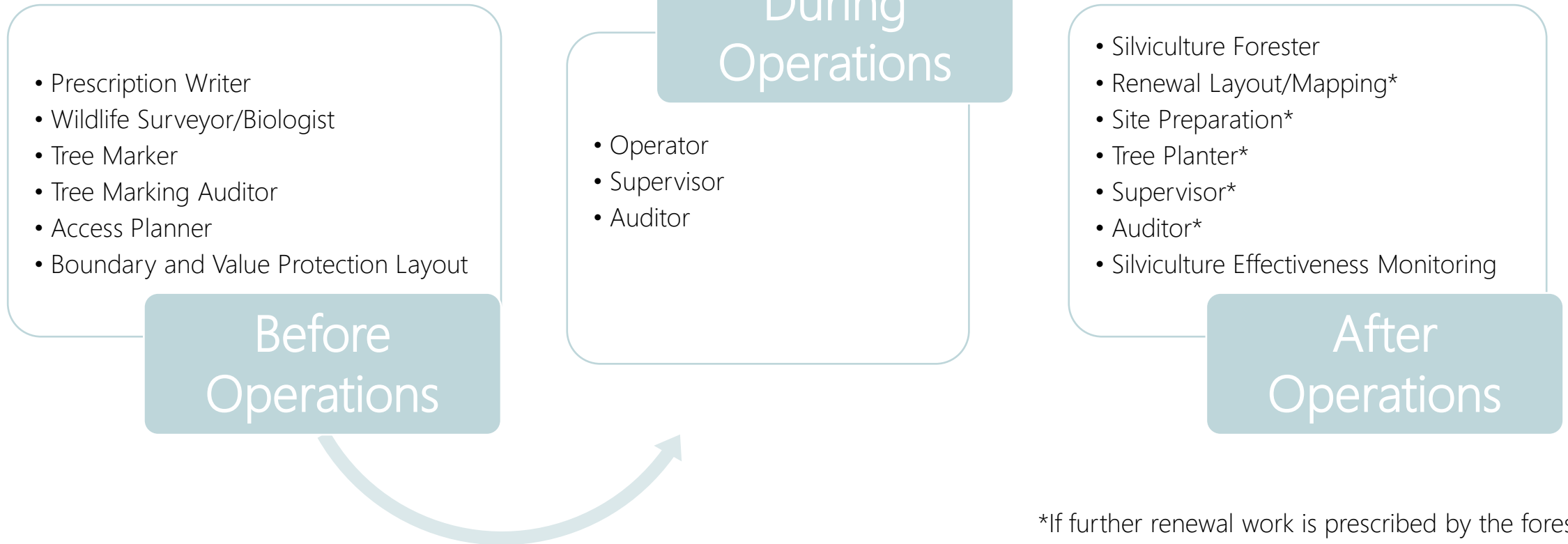
Prepare annual reports for approval by the MNR, which describe our progress to achieving goals in our FMP.



HOW MANY BOOTS?



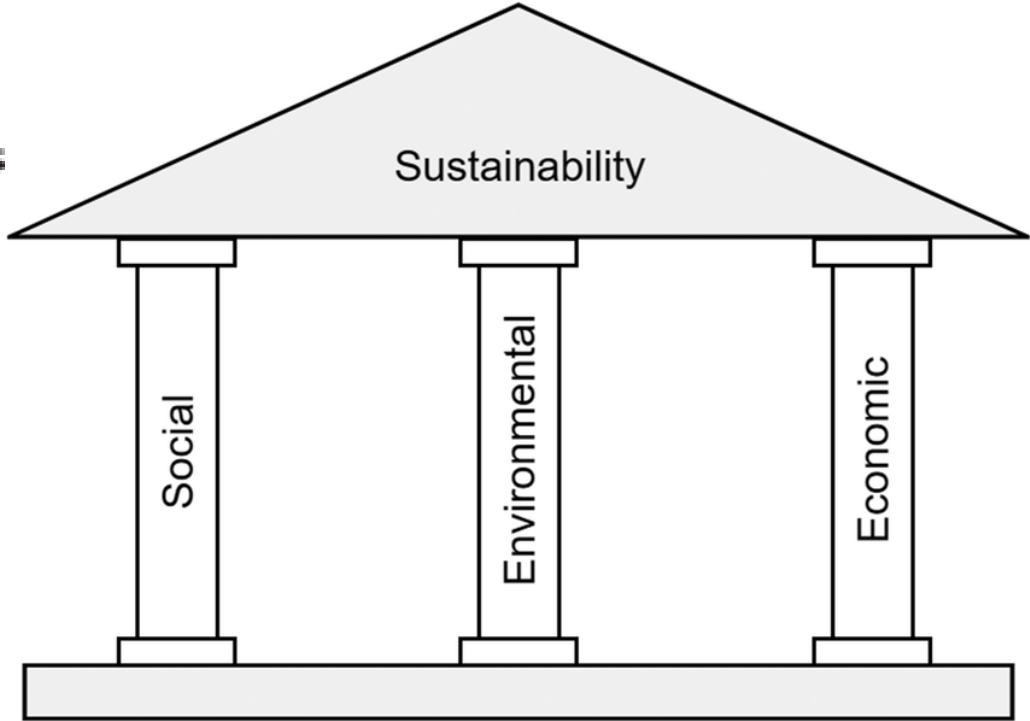
That's
10-20
Pairs!



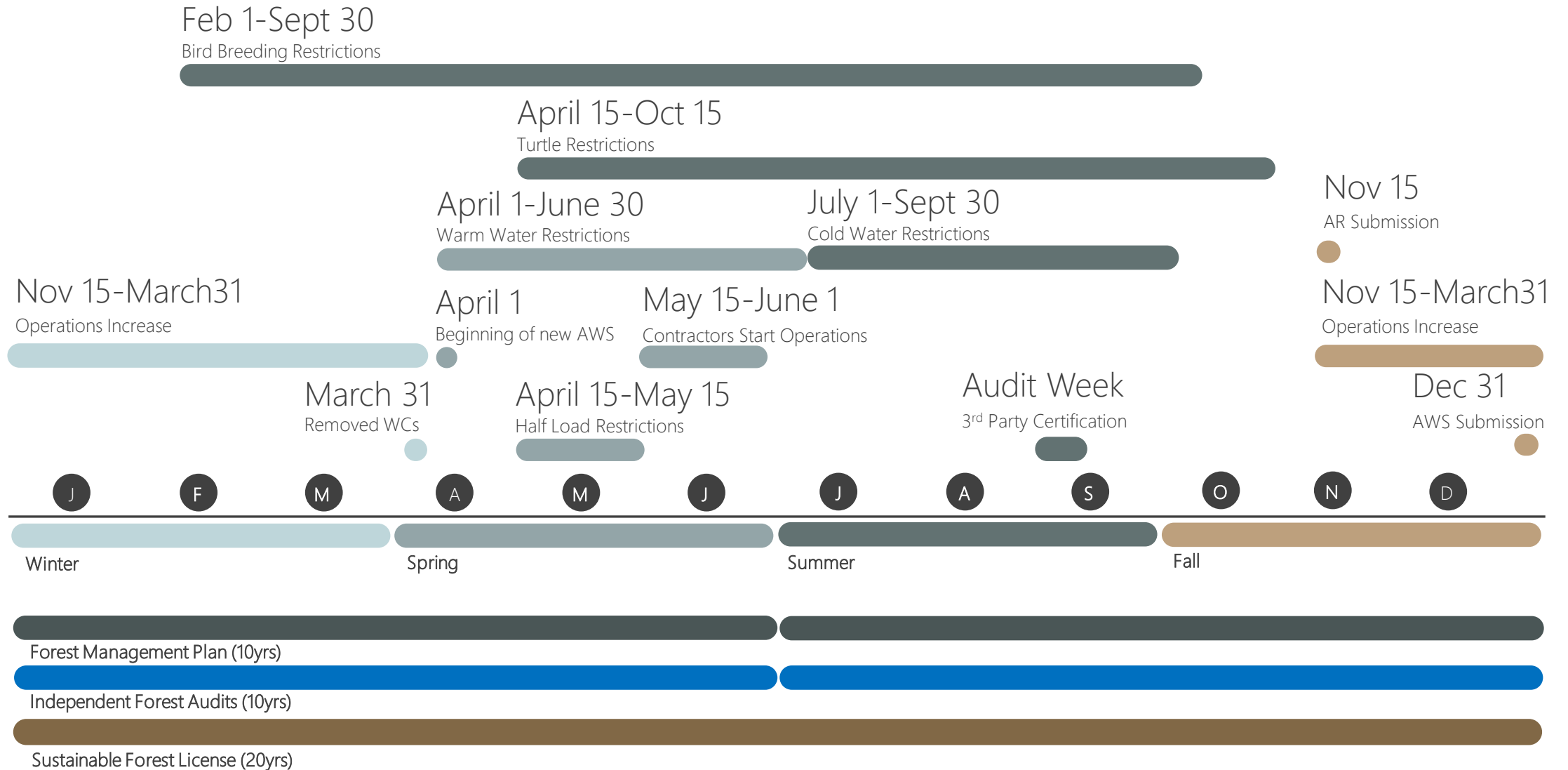


ADAPTIVE MANAGEMENT

Enhances the functionality of the forest to a changing environment

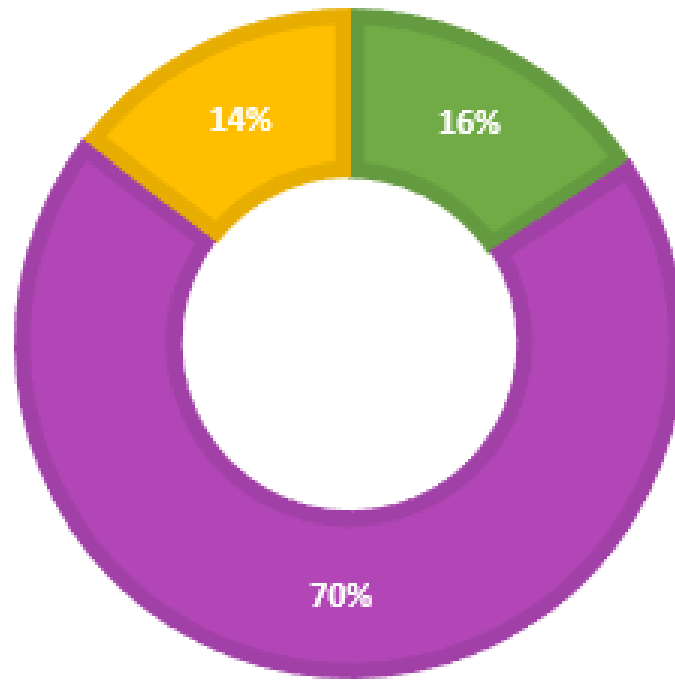
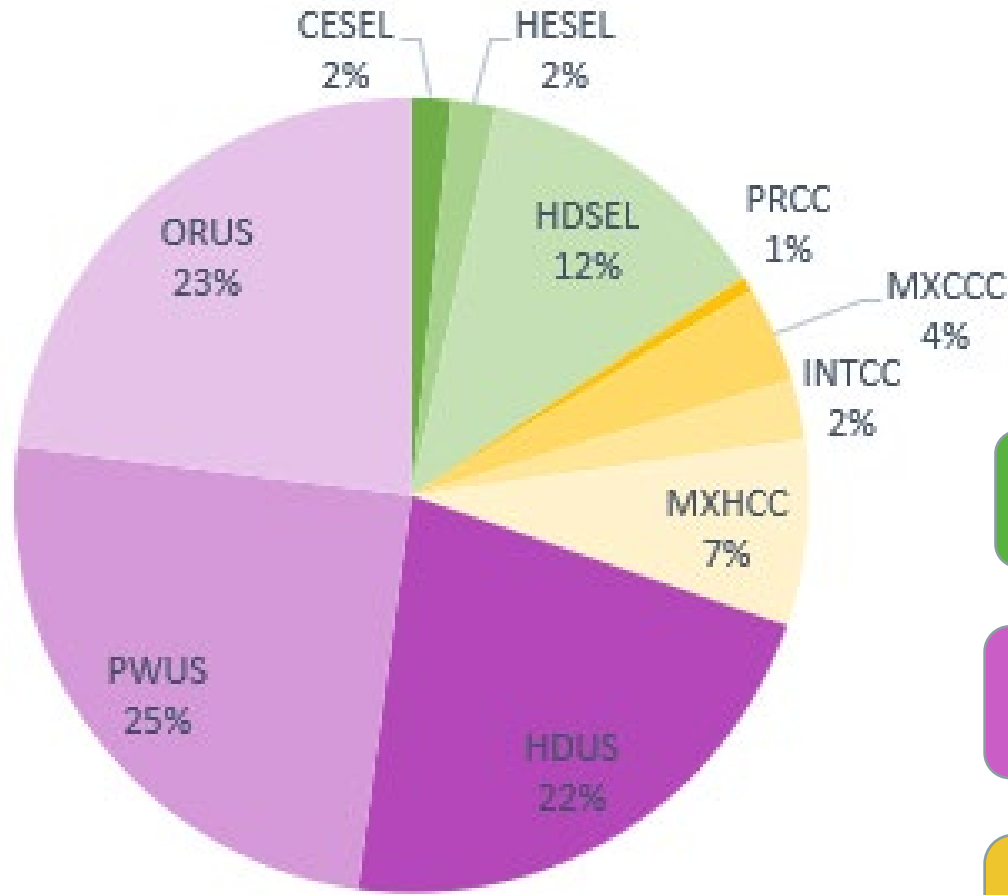


Mazinaw-Lanark Forest Regulatory Timelines



FOREST UNITS

2021-2031 PLAN



1) Selection
HDSEL, HESEL, CESEL

2) Shelterwood
HDUS, ORUS, PWUS

3) Clearcut
PRCC, INTCC, MXCCC, MXHCC

SILVICULTURE

Silviculture is defined as the art and science of managing forest communities.

Depends on:

- Matching the treatment to the requirements of the trees themselves
- Integrating ecosystem response to natural disturbance

How we maintain and enhance multiple objectives simultaneously



UNEVEN AGED SILVICULTURE

SELECTION

WHERE: Shade tolerant stands dominated by sugar maple growing on rich soils.



HOW: Focus on improving stand health. Removes 30% of trees each entry. Repeated entries every 25-40 years.



NATURAL DISTURBANCE

Both emulate:



Storms



Disease



Insects



Old age

Both systems rely primarily on natural regeneration.



IRREGULAR SHELTERWOOD

WHERE: Diverse stands with a mix of tolerant to intolerant hardwoods or sugar maple stands growing on poor soils.

HOW: Manages the stand at the tree level to increase health & promote diversity.




EVEN AGED SILVICULTURE

CLEARCUT

WHERE: Shade intolerant species e.g. poplar

HOW: Most trees are removed at one time to allow the full light conditions needed for regeneration.

NATURAL DISTURBANCE: Mimics  Extreme weather events  & wildfires



BEFORE



AFTER

REGENERATION:



Regeneration may be natural (e.g. poplar) or artificial through planting or seeding (conifers).



UNIFORM SHELTERWOOD

WHERE: Mid-shade tolerant trees: oak & white pine

HOW: Removes mature timber in a series of 2 or more cuts.

NATURAL DISTURBANCE: Mimics  Low level fires (typical every 60 yrs)  Intense fires (typical every 150-300 yrs)



BEFORE



AFTER

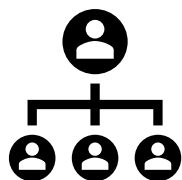
REGENERATION:

Regeneration occurs naturally under a protective canopy & may be assisted by planting or seeding.

TREE MARKING

- ❖ Practiced in both partial harvest systems: selection and shelterwood
- ❖ Before any harvesting is done, a forester will develop tree marking direction and a certified tree marker will mark trees to retain for wildlife value and trees to remove based on healthy and quality





JEFF BARTON, RPF
General Manager



JULIE ANTLER, RPF
Planning Forester



TIM WALLEN, RPF
Forester

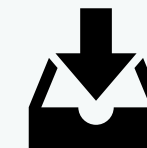
OUR TEAM



MARGARET HATTON, RPF
Silviculture Forester



BRIAN STUFKO
Operations Technician



PAT DUNCAN
Office Administrator



RESOURCES



**Natural Resources
Information Portal**



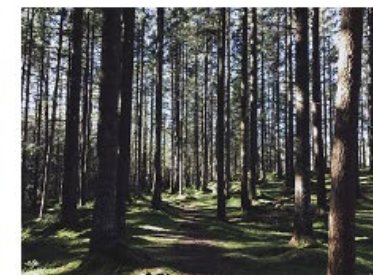
Forestry



Aggregates



Petroleum



Lands and Waters

The Natural Resource Information Portal is a website maintained by the government to allow public access to draft and approved forest management plans, approved Annual Work Schedules, Annual Reports and associated information prepared for Crown forests in all management units in Ontario.

https://nrip.mnr.gov.on.ca/s/?language=en_US





THANK YOU

Julie Antler

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FIRST RESOURCE MANAGEMENT GROUP



Index Map

Mazinaw-Lanark Forest

2021-2031 Forest Management Plan

