

**Ministry of Natural
Resources and Forestry**

Office of the Minister

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**Ministère des Richesses
naturelles et des Forêts**

Bureau du ministre

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May 4, 2023

Dear Colleague:

Ontario has been experiencing an outbreak of spongy moth (previously referred to as gypsy moth and LDD) since 2017, particularly in southern Ontario and parts of the northeast region of the province. The outbreak peaked in 2021 and declined significantly in 2022.

Last year, the Ministry of Natural Resources and Forestry (MNRF) conducted aerial and ground surveys to map damaged areas and [forecast](#) defoliation for 2023. The results suggest the outbreak area and severity will continue to decline in 2023. Some areas, mostly in the southwestern part of the province, may still experience severe defoliation, but it's expected that large contiguous areas of defoliation will be limited.

Severe spongy moth infestations are cyclical, occurring every seven to 10 years, and usually last three to five years. The ministry will continue to monitor spongy moth throughout the current outbreak cycle.

Although the ministry conducts pest management programs on Crown land to protect foliage of high value stands (e.g., jack pine and spruce budworm programs), management of spongy moth on private land is the responsibility of the landowner or municipality. The ministry supports these efforts by providing [information on forest pests](#) and options for reducing defoliation by spongy moth. [Ontario's Invasive Species Centre](#) also offers resources and information to help people prevent spongy moth from damaging their trees.

In the spring and early summer, spongy moth larvae consume leaves, defoliating trees and leaving them looking nearly dead. Spongy moth prefer oak trees, but during severe outbreaks other hardwoods and, in some cases, conifer will be defoliated. Hardwood trees can produce a second crop of leaves during the growing season allowing them to continue growing and storing nutrients into the fall and winter months. Since conifers can't produce a second crop of foliage, they may be impacted by severe defoliation. Healthy growing trees can withstand a few seasons of severe defoliation before branch and twig dieback start to occur.

In the spring, landowners can put bands of burlap around their trees. This gives the larvae a place to congregate during warm days and they can be physically removed and killed. In the fall, landowners can remove and destroy egg masses.

Landowners wishing to reduce impacts on their property can also have trees sprayed with registered pesticide in the spring by a licensed insecticide application company. This is best carried out by coordinating efforts with other local landowners.

If landowners are considering having their property sprayed, it is best to engage a licensed insecticide application company as early as possible.

There are also natural controls on spongy moth populations in Ontario:

- Cool, wet conditions provide an ideal environment for a natural fungus (*Entomophaga maimaiga*) known to contribute to spongy moth population collapse.
- A viral infection (nuclear polyhedrosis virus or NPV) also kills spongy moth larvae.
- There are other natural enemies of spongy moth as well, including parasitic insects and predators such as birds and mammals.

I have attached a fact sheet and a roles and responsibilities document to help your office assist your constituents who may have questions about managing spongy moths during the outbreak period.

Sincerely,

A handwritten signature in black ink, appearing to read "Graydon Smith". The signature is fluid and cursive, with a large initial "G" and "S".

The Honourable Graydon Smith
Minister of Natural Resources and Forestry

Attachments

Provincial forest health monitoring

Forest health is monitored every year by the Ministry of Natural Resources and Forestry (MNRF). The ministry conducts ground and aerial surveys to map major forest health disturbances on the landscape. When pest populations reach outbreak levels, MNRF may complete pest-specific surveys to help predict defoliation for future years.

The forest health monitoring program provides scientific advice and supports training and interpretation of forest health disturbances.

Spongy moth information

MNRF provides information on spongy moth (previously referred to as LDD and gypsy moth), defoliation maps and forecasts, and control options at www.ontario.ca/page/spongy-moth.

Spongy moth monitoring

MNRF's aerial forest health surveys include determining the severity and extent of the spongy moth defoliation. The ministry also conducts egg mass surveys to collect forecast data to guide activities, including monitoring of virus and fungus impacts on the population.

In 2023, MNRF expects a continuing decline in the total area and severity of the outbreak. Some areas, particularly in southwestern Ontario may still experience severe defoliation, but large contiguous areas of defoliation are expected to be limited.

As part of the annual monitoring program, the ministry also works with the Canadian Food Inspection Agency to deploy pheromone traps outside the area where spongy moth infestations are known to occur. These traps are used as an early detection tool.

The forest health program will continue to conduct surveys to monitor this pest throughout the duration of its outbreak cycle.

MNRF works with Canadian Forest Service (CFS, Natural Resources Canada) to support the development of science and evaluate sampling methodologies.

Federal regulation and enforcement

Spongy moth is a regulated pest by the [Canadian Food Inspection Agency \(CFIA\)](#). The CFIA is responsible for establishing and maintaining standards to prevent the introduction and spread of plant pests in Canada.

Pesticide regulation

The Health Canada Pest Management Regulatory Agency (PMRA) is responsible for pesticide regulation in Canada. Pesticides are stringently regulated in Canada to ensure they pose minimal risk to human health and the environment. Under authority of the Pest Control Products Act, Health Canada requires thorough scientific evaluation to determine that pesticides are acceptable for a specific use and that registered pesticides remain acceptable for use once on the market.

Ministry of the Environment, Conservation and Parks (MECP) regulates the sale, storage, use, transportation and disposal of pesticides in Ontario. Ontario regulates pesticides by placing appropriate education, licensing and/or permit requirements on their use under the Pesticides Act and Ontario Regulation 63/09 (O. Reg. 63/09).

Insect management on Crown land

In Ontario, to achieve sustainable forest management on Crown land, there is a forest management planning system under the Crown Forest Sustainability Act (CFSA). For more information about this process visit [Sustainable forest management](#).

The CFSA and the Forest Management Planning Manual dictate acceptable forest management activities on Crown land in Ontario. Decisions to conduct an insect control program on Crown land are science-based and involve MNRF staff and local forest managers.

Some insect outbreaks can cause extensive tree mortality on high-value stands that may lead to significant economic and cultural impacts and increase the risk of fire to northern communities. During these outbreaks, usually in Northern Ontario, an insect pest management program is developed as required in the Forest Management Planning Manual to evaluate all options. If the pest management program involves aerial application of insecticides, the Forest Management Planning Manual outlines a specific process which includes creating project proposals, First Nation and Métis community involvement, and public consultation.

Currently, there is no alternative process for private landowners to request permission to spray on Crown land.

Insect management on private land

MNRF does not manage spongy moth on private land; insect management on private land is the responsibility of property owner. The ministry does provide information on forest pests that includes suggestions for landowners on how to control localized populations. The ministry also leverages partners such as [Ontario's Invasive Species Centre](#), and the [Ontario Federation of Anglers and](#)

[Hunters' Invading Species Awareness Program](#) to provide information to landowners, and to assist with tracking citizen reports of spongy moth.

Municipalities and conservation authorities may choose to develop integrated pest management plans to manage trees, parks and other green spaces within their jurisdiction.