

Gypsy Moth Update

Mike Muldoon June 2021

Background



- Lymantria dispar dispar (LDD) moths (known as European gypsy moths) first found in Ontario in 1969
- Appears in 7 to 10-year cycles, usually lasting 3 years – we are in year 2
- Population fluctuates in relation to environmental and biological controls



Current Outbreak



- 2021 outbreak has been severe and distressing to homeowners especially during the added stress of Covid-19 restrictions.
- Homeowners are overwhelmed, concerned about the health of their trees, and some are experiencing skin irritations from contact with caterpillars.

Overarching Concerns:

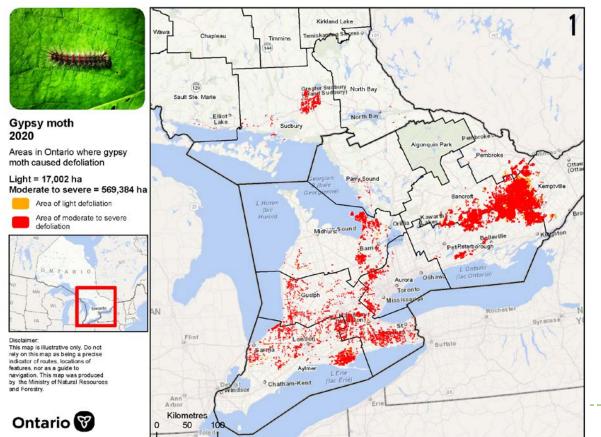
- Ecological impacts from declines\losses of oaks and other trees
- Negative forest user experiences due to large numbers of caterpillars and tree declines and mortality
- Increased hazard tree removal costs



Current Outbreak



- Defoliation of oaks, poplars, birch trees across
 Southern Ontario
- Majority of healthy trees expected to recover





Pest Management Strategies



Egg: Late August to Late April

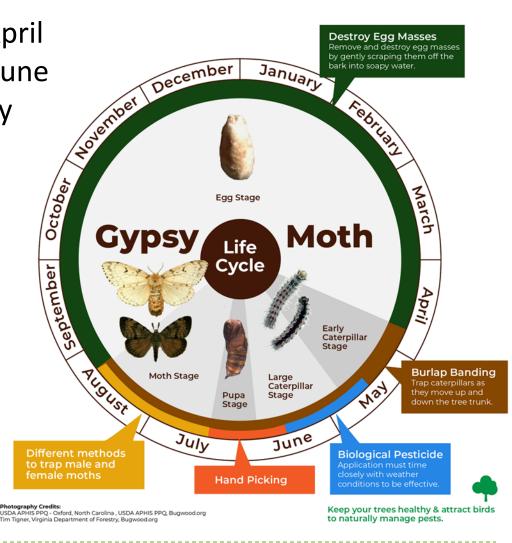
• Larvae: Late April to Mid June

• Pupa: Mid June to Mid July

Adults: Mid July to Late

August





Integrated Pest Management



- Remove eggs masses from Special Management Zones in County Forest
- Burlap wrap high value trees
- Analyze defoliation and tree recovery
- Count egg masses to predict extent of 2022 outbreak
- Direct residents to <u>www.Northumberland.ca/gyps</u> <u>ymoth</u> for pest management strategies
- Collaboration with Ganaraska Conservation Region Authority and Nature Conservancy of Canada





Approach across Ontario



Most municipalities and Conservation Authorities are using similar pest

management strategies

GRCA sprayed 100 acres with insecticide





Gypsy moth life stage and control options



Future Considerations



- Survey defoliation and mortality of trees
- Analyze GRCA treatment

 Forecast 2022 outbreak through Modified Kaladar Plot (MKP)



