

Monitoring Spotted Lanternfly in Ontario, 2021

Karlie Haining¹ and Wendy McFadden-Smith²

¹Brock University, ²Ontario Ministry of Agriculture, Food and Rural Affairs

The Question: *Has Spotted Lanternfly reached Ontario?*

Spotted Lanternfly (Lycorma deliculata) is a growing concern to Ontario viticultural regions given the expanded infestation within bordering US regions.

Background

- Invasive insect species from Asia
- Identified in 2014 in Pennsylvania
- Established populations in several US states
- Excellent “hitchhiker” with egg masses laid on wide range of surfaces – rail cars, tractor trailers, wheel wells, campers, shipping materials
- 60 hosts identified including roses, black walnut, grapevines, and tree of heaven
- Tree of heaven is preferred host for most of life cycle
- Feeds on sugars in phloem
- Heavy infestation resulted in yield and quality loss, and grapevine death

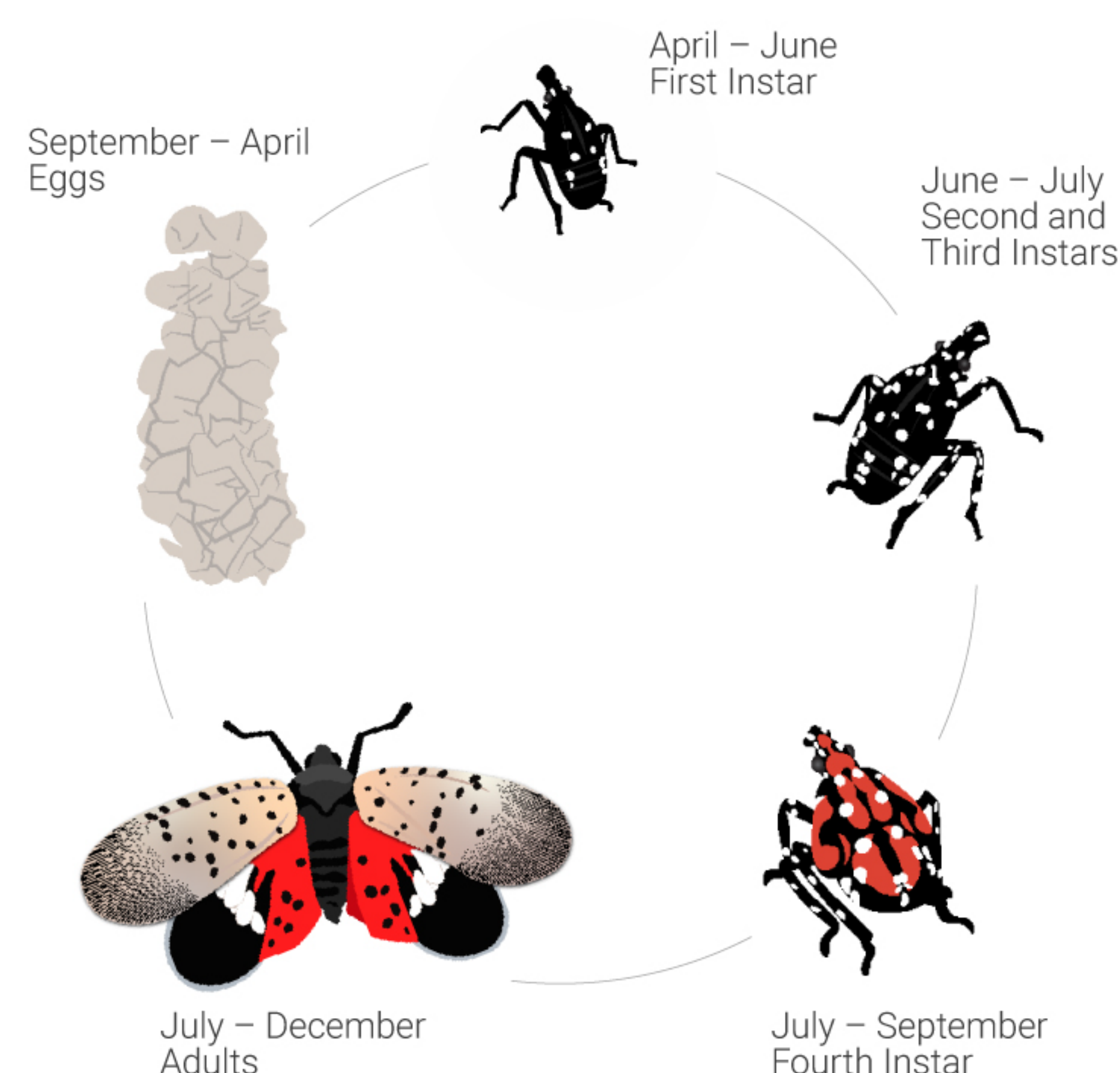
Monitoring in 2021

- 65 traps were deployed in Niagara, London, Essex County, and Pelee Island
- Locations near transportation corridors and/or parking for tourist areas were considered high risk because of the tendency of SLF to lay eggs on vehicles and shipping containers.
- Traps checked and trees scanned for eggs, nymphs and adults biweekly

Locations of Spotted Lanternfly traps, 2021



Spotted Lanternfly Life Cycle



Results

No Spotted Lanternfly were observed.

We plan to continue monitoring with expanded locations to raise awareness and aid in the swift response to SLF if and when it arrives.



For more information, check out the Invasive Species Centre webpage



Inside a trap



No Spotted Lanternfly here!

Acknowledgments

Rachel Hamm, Nadia Skorupski, Kristen Vlahiotis, Bingyao Guo, Matthew Summerville, Denise Beaton, and Tara Gierepy
This project was funded by the Ontario Ministry of Agriculture, Food and Rural Affairs

Ontario 



Brock University