



HEMLOCK WOOLLY ADELGID PROGRESSION. ©TNC-ROBERT SMITH

# Hemlock Woolly Adelgid Early Detection Survey Winter 2021-22

JUNE 2022

SLELO PRISM – FOREST HEALTH

## Preliminary Field Report

### Search Description

Each year during the winter months, when Hemlock Woolly Adelgid (HWA) egg masses are most visible, SLELO PRISM field representatives search Highly Probable areas for the presence/absence of HWA. Hemlock trees are inspected visually, often using visual aids and data is recorded using Survey 123 software.

### Sites Searched in 2021-22

This past season 17 sites were selected for surveys to include the following:

- Altmar State Forest
- Camp Zerbe
- Deer Creek WMA
- Derby Hill Bird Observatory
- Frank E Jadwin Memorial State Forest
- Great Bear Recreational Area
- Happy Valley WMA
- Jackson Hill State Forest
- Lake Julia Preserve
- Little John WMA
- Noyes Bird Sanctuary (HWA Found)
- Rainbow Shores Preserve
- Salmon River Falls
- Sandy Creek State Forest
- Three Mile Bay WMA

- Trenton Greenbelt
- Whetstone Gulf State Park

### Past Observations

In 2020-21 HWA were found at six sites to include:

- Camp Hollis
- Independence Park
- Mexico Point State Park
- Oswego Co. Reforestation Area
- Selkirk Shores State Park

### 2021-2022 Observations

Between December 2021 and May 2022, 32 Highly Probable Areas (HPAs) within the 17 Priority Conservation Areas (PCAs) were surveyed by Robert Smith, Brittney Rogers, Rob Williams, Megan Pistolesse, Frank Williams, and other volunteers for signs and symptoms of Hemlock Woolly Adelgid (HWA). Of the 32 HPAs searched, Hemlock Woolly Adelgid was detected at 1 HPA (Noyes Bird Sanctuary).

Needleminers, moth larvae that feed inside conifer needles, were found at 26 sites and Tip blight, caused by the fungus *Diplodia pinea*, was found at 11 sites.

### Referrals

Each time HWA is positively identified at a site the finding is reported to the landowner and/or land manager along with a referral to manage the adelgids to protect hemlock trees. To date most of these referrals have resulted in mitigation measures to slow the spread of this forest pest.

### Field Note(s)

At all but three sites surveyed this season, the hemlock crown density was 81% or greater.

Positive HWA findings within the SLELO region appear to be concentrated along the Lake Ontario Shoreline and progressing from Cayuga County northward.

### Acknowledgements

NYS Dept. Environmental Conservation  
 NYS Dept. Parks & Recreation  
 SLELO PRISM Partners  
 The Nature Conservancy CWNV



Table of Field Data.

Site Name	Date of Survey	HPA	Avg HWA Density	% of Trees Infested	Crown Density	Needleminer	Tip Blight
Altmar State Forest	2/16/2022	1	No HWA Detected	0%	81-100%	Yes	Yes
Camp Zerbe	2/7/2022	1	No HWA Detected	0%	81-100%	Yes	Yes
Deer Creek WMA	2/15/2022	1	No HWA Detected	0%	81-100%	No	No
Derby Hill Bird Observatory	3/2/2022	1	No HWA Detected	0%	81-100%	Yes	No
Great Bear Recreational Area	4/13/2022	1	No HWA Detected	0%	81-100%	Yes	No
Happy Valley WMA	5/4/2022	1	No HWA Detected	0%	81-100%	Yes	No
Happy Valley WMA	5/4/2022	2	No HWA Detected	0%	81-100%	Yes	No
Happy Valley WMA	5/4/2022	3	No HWA Detected	0%	81-100%	Yes	No
Happy Valley WMA	5/4/2022	4	No HWA Detected	0%	81-100%	Yes	No
Happy Valley WMA	5/4/2022	5	No HWA Detected	0%	81-100%	Yes	No
Jackson Hill State Forest	3/4/2022	1	No HWA Detected	0%	81-100%	Yes	Yes
Jadwin State Forest	4/28/2022	1	No HWA Detected	0%	81-100%	Yes	No
Jadwin State Forest	4/28/2022	2	No HWA Detected	0%	61-80%	Yes	No
Jadwin State Forest	4/28/2022	3	No HWA Detected	0%	81-100%	Yes	No
Lake Julia Preserve	2/2/2022	1	No HWA Detected	0%	81-100%	Yes	Yes
Lake Julia Preserve	2/2/2022	2	No HWA Detected	0%	81-100%	Yes	Yes
Lake Julia Preserve	2/2/2022	3	No HWA Detected	0%	81-100%	Yes	Yes
Lake Julia Preserve	2/2/2022	4	No HWA Detected	0%	81-100%	Yes	Yes
Lake Julia Preserve	2/2/2022	5	No HWA Detected	0%	81-100%	Yes	Yes
Lake Julia Preserve	2/2/2022	6	No HWA Detected	0%	81-100%	Yes	No
Little John WMA	4/25/2022	1	No HWA Detected	0%	81-100%	No	No
Little John WMA	4/25/2022	2	No HWA Detected	0%	81-100%	No	No
Noyes Bird Sanctuary	3/8/2022	1	11-20 Ovisacs/Twig	1-20%	81-100%	Yes	Yes
Rainbow Shores Preserve	1/27/2022	1	No HWA Detected	0%	61-80%	Yes	Yes
Rainbow Shores Preserve	1/27/2022	2	No HWA Detected	0%	41-60%	Yes	No
Salmon River Falls	2/15/2022	1	No HWA Detected	0%	81-100%	Yes	No
Salmon River Falls	2/15/2022	2	No HWA Detected	0%	81-100%	No	No
Salmon River Falls	2/15/2022	3	No HWA Detected	0%	81-100%	No	No
Sandy Creek State Forest	2/24/2022	1	No HWA Detected	0%	81-100%	Yes	Yes
Three Mile Bay WMA	4/22/2022	1	No HWA Detected	0%	81-100%	Yes	No
Trenton Greenbelt	3/10/2022	1	No HWA Detected	0%	81-100%	No	No
Whetstone Gulf State Park	12/29/2021	1	No HWA Detected	0%	81-100%	Yes	No