

High Allegheny Hemlock Conservation Partnership Hemlock Woolly Adelgid (HWA) Survey Protocol



How to Survey:

- Meander through a stand inspecting trees at random
- Look for the presence or absence of white woolly masses of HWA at the base of the needles on the underside of the hemlock branches (see images below)
- Inspect branches/twigs on accessible sides of a hemlock tree
- Inspect hemlock branches that have fallen to the ground from the canopy
- Look for hemlocks in overall poor health: declining crown, needle loss, pale in color-grayish foliage, lack of lighter green needles at the end of twigs

Gear List: The Essentials

- Detailed map of the area
- Compass
- Flagging Tape
- Data Form
- Pencil/Pen
- Proper attire (weather, hunting season, etc.)
- Survey buddy

Gear List: The Extras

- GPS Unit
- Mobile device with *iMapInvasives* installed
- Camera (or equipped mobile device)
- Binoculars (to observe upper branches)

HWA Identification: November 1st-April 1st



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Reporting: Use one of the following methods to report HWA survey results

Submit to: *iMapInvasives* mobile app or desktop version

Email this form to: hwa@rtpi.org

Mail this form to: Roger Tory Peterson Institute 311 Curtis St. Jamestown NY 14701 or USDA Forest Service-Allegheny National Forest 4 Farm Colony Drive Warren, PA 16365

Attach photos
here if mailing
form

Hemlock Woolly Adelgid Survey Site Form

Date of Survey:	Y	Y	Y	Y	M	M	D	D	Site Name(s): NY_# or PA_#
Surveyor(s):									
Coordinates:									
<input type="checkbox"/> UTM <input type="checkbox"/> Decimal Degrees <input type="checkbox"/> Degrees Minutes Seconds									
Site Address (approx. if coordinates not taken):									
Number		Street Name			City/Township			State	
Landmarks (stream name, hollow, roadway, etc.):									
Contact Name:					<input type="checkbox"/> HWA Present		<input type="checkbox"/> HWA Absent		
Contact Phone:					Notes:				
Email:									
SUSPECT TREE INFORMATION									
Coordinates/location information of infected trees:									
Pictures Taken?: <input type="checkbox"/> Y <input type="checkbox"/> N					Signs & Symptoms Present:				
Notes: Stand info (number of dead/declining trees, dbh, age, overall health, etc.)					<input type="checkbox"/> Woolly Masses <input type="checkbox"/> Crawlers <input type="checkbox"/> Twig Dieback <input type="checkbox"/> Thinning Crown				
					Infestation Rating: <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy				