Hemlock and HWA Hunters
Hemlock Woolly Adelgid (HWA) Survey Protocol

Survey Protocol for Hemlock Woolly Adelgid:

- Look at multiple branches/twigs on all sides of a hemlock tree
- Look for hemlocks in poor health: with weakened or declining crown; defoliation; pale, greyish foliage, lack of new buds
- Look on ground for infested hemlock branches that have fallen from the canopy

HWA Identification: November—April
- HWA actively growing and developing
- White, waxy wool masses on hemlock twigs at base of needles on new growth
- Best seen looking at underside of twig

HWA Identification: May—October
- HWA in period of dormancy called aestivation
- Black nymphs surrounded by white halo of wool
- Easiest to see using magnification (hand lens or magnifying glass)

Other Clues of Potential HWA Infestation (These do not guarantee an infestation is present, further surveying needed)

- Weakened tree crown, loss of needles in canopy; absence of new green shoots in June
- Pale, greyish cast to foliage, easily spotted when boating/from a distance
- Woodpecker damage from infestation of hemlock borer (native pest)
- Elongate Hemlock Scale infestation (INVASIVE-REPORT IF SEEN)

Reporting Protocol: Use one of the following methods to report a known HWA infestation

Use NYiMapInvasives mobile app:
- Download NYiMapInvasives app on your smartphone (App Store or Google Play); create username/password online at www.nyimapinvasives.org
- Report HWA (for infestation presence) or X-HWA (for infestation absence)
- Visit www.nyimapinvasives.org for training dates and resources
- Data uploaded into statewide invasive species map

Call DEC’s Forest Pest Information Line:
(1-866-640-0652)

Email location details/photo/GPS coordinates to NYS Hemlock Initiative:
yshemlockinitiative@cornell.edu
Hemlock and HWA Hunters

HWA Survey Protocol: Long Island Invasive Species Management Area (LIISMA) PRISM

**PRISM** stands for **Partnerships for Regional Invasive Species Management**. New York has eight PRISM regions, each made up of conservation organizations concerned with invasive species detection and management at the local, regional, and state level. Additionally, each PRISM has specific goals regarding hemlock conservation and HWA management in its region.

**LIISMA PRISM HWA Outlook:**

HWA has been present on Long Island since the 1990’s and many of the region’s hemlocks are already gone. The **Long Island Invasive Species Management Area (LIISMA)** is focused on preserving genetic diversity of hemlock trees in the region.

Knowing the locations of healthy hemlock trees in this region and treating trees that can still be saved is critical. You can learn more about how to get involved below:

**Get Involved:**

- **Report the locations of any healthy hemlocks stands.** We would like to collect cones and investigate potential resistance in local hemlock populations, as this could be a huge finding.
- **Consider treatment options on your property if you have infested hemlocks.** Management information is available on the NYSHI website (see address below). Treating trees in HWA will help preserve local hemlock genetic diversity in the region.
- **Consider getting involved with our hemlock hedge program.** If you have an infested hemlock hedge and are interested in hosting a colony of HWA predator insects, please let us know.

**Additionally, in this region:**

- **Report any findings of pine bark adelgid** (PBA) in the area (characterized by white, woolly fluff similar to HWA wool on the trunk, branches, or twigs of white pine trees). Findings help us improve our biocontrol research program.

**Resources for HWA Management in LIISMA PRISM**

LIISMA PRISM website:  
www.liisma.org

LIISMA PRISM Facebook page:  
www.facebook.com/Long-Island-Invasive-Species-Management-Area-LIISMA-243294555735389

New York State Hemlock Initiative website:  
www.nyshemlockinitiative.info

NYS Hemlock Initiative Facebook page:  
www.facebook.com/NYSHemlockInitiative

For questions about HWA management in your area, or for more information on getting involved with our Citizen Scientist volunteer programs please email us at nyshemlockinitiative@cornell.edu