**Hemlock and HWA Hunters**

**Hemlock Woolly Adelgid (HWA) Boat Survey Protocol**

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**Boat survey protocol for detecting HWA from the water:**

- Look for hemlocks with pale, greyish foliage; lack of new buds in late spring and early summer; dead/dying branches
- Observe shoreline for declining hemlocks. Get nearer to shore to look at declining hemlocks closely and see if there is HWA present on twigs—**REPORT IF SEEN!**

**What to look for:**

- **HWA Identification: November—June**
  - HWA ovisacs appear as white, waxy wool masses on hemlock twigs near the base of needles
  - Best seen looking at underside of twig

- **HWA Identification: July-October**
  - Dormant black nymphs surrounded by thin halo of white wool
  - Easiest to see using magnification (hand lens or magnifying glass)
  - Old HWA ovisacs may still be present on twig

- **Other Things to Look For:**
  - **Left:** Excessive woodpecker damage from hemlock borer (native)
  - **Right:** Elongate Hemlock Scale (invasive—**REPORT**)!

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**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:**
nyshemlockinitiative@cornell.edu