



Survey

1. Identify a site to sample

Hemlock woolly adelgid is most likely to travel on nursery stock, birds, or deer. Good places to survey would be in towns with a lot of second homes, near bird feeders and other places where birds congregate, and along natural travel corridors (hedgerows, roads, trails).

The site must have at least 10 hemlocks with branches you can reach.

2. When to sample

Sampling can be done any season of the year. Searching is easier in spring and summer, when the new wool is most visible. Detection is more likely on sunny days when the foliage is dry.

3. Assemble Equipment

Pruning shears	Clipboard	Permanent marker
Hand lens	Pencil	Mailer
Survey instructions	Plastic bags	Disinfectant (soapy water, 5% bleach, rubbing alcohol)
Data form	Twist ties	Hemlock woolly adelgid literature
Map	Labels	

4. Sample the stand

The goal is to inspect 200 hemlock branches for hemlock woolly adelgid per site. A branch is one meter (39") long, starting at the tip.

1. Choose a tree to begin. Inspect a branch within reach by turning it over to expose the under side. If no suspected hemlock woolly adelgid are seen, move to the next branch.
2. Inspect at least 4 branches per tree, but no more than 20 branches per tree.
3. If you encounter a possible hemlock woolly adelgid:
 - a. Clip the shoot it's on, double bag and label it.
 - b. Note the location of the tree, with a description on the data sheet and flagging if appropriate. We would like to relocate the tree, or at least the immediate area, if the sample is positive.
4. Continue the survey even if you find one or more suspected hemlock woolly adelgid, since not all suspects will be positive. Finish the survey until you have looked at 200 branches.
5. If you have collected any samples, thoroughly clean pruning shears before sampling another site.

5. Submit the report

1. Sketch a map to help locate the survey area, or attach a map to the data sheet.
2. Send any samples, and completed data sheets, to the Forest Biology Lab, 103 South Main Street, Lab Building, Waterbury, VT 05443.

6. For more information

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