#### HEMLOCK WOOLLY ADELGID DATA

# SHEET WITH INSTRUCTIONS



### Ecosystem Investigation Network

Team Name:	Date:Time:	
Coordinates (Decimal Degrees):		
Latitude:Long	itude:	
Materials		
<ul> <li>For the whole group:</li> <li>Flagging tape</li> <li>1 measuring stick or measuring tape (optional)</li> </ul>	<ul> <li>For each fieldwork team:</li> <li>Datasheet</li> <li>Species ID card for eastern hemlock</li> <li>Species ID card for balsam fir</li> <li>Species ID card for hemlock woolly adelgid</li> <li>Species ID card for elongate hemlock scale</li> <li>Camera (smartphone camera is fine)</li> <li>Clipboard and pencils</li> </ul>	
Protocols The instructions in this column specify how to answer the questions on the right-hand side of the page.	Data and Photos to Collect Questions are required unless otherwise marked. Each question has a " " beside it to help you track your progress.	
<ol> <li>Find a hemlock tree to examine closely</li> <li>Record the habitat</li> </ol>	<ul> <li>Habitat (Circle one):</li> <li>In a forest</li> <li>In a developed area</li> </ul>	
3. Check with another fieldwork team to make sure your tree is a hemlock, peer reviewing the tree identification.	<ul> <li>We shared at least three pieces of evidence we used to identify the tree as eastern hemlock.</li> <li>The other team has correctly identified an eastern hemlock tree</li> </ul>	
4. Take four pictures of the tree that show the tree is an eastern hemlock.	<ul> <li>Clear photo taken of entire tree</li> <li>Close up taken of the trunk</li> <li>Clear photo taken of the underside of the needle</li> <li>Clear photo taken of the attachment of the needle to the branch</li> </ul>	

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5. Mark your tree with flagging tape	Tree flagged and labeled.			
Branches				
<ul> <li>6. Search 10 unique branches that are at least 1 meter long.</li> <li>Each unique branch should start at the trunk.</li> <li>If you cannot reach 10 branches, check as many branches as you can reach.</li> <li>7. For each branch, record whether you found or did not find hemlock woolly adelgid.</li> </ul>	Branch (1m) 1 2 3 4 5 6 7 8 8 9 10	Hemlock woolly adelgid present? (Circle one):Found / Not Found / Can't reachFound / Not Found / Can't reach		
<ul> <li>8. If you think you found hemlock woolly adelgid, check with another field team, peer reviewing your identification.</li> <li>Take 3 clear photos to show that you found hemlock woolly adelgid</li> <li>Summary</li> <li>9. Record the total number of branches that you searched for hemlock woolly adelgid.</li> </ul>	to D Th ac	le shared 3 pieces of evidence we used identify hemlock woolly adelgid. hree clear photos of hemlock woolly delgid taken. umber of branches surveyed:		
10. Record the total number of branches with hemlock woolly adelgid.	D N	umber of branches infested:		

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11. Record whether hemlock woolly adelgid was found on the tree.	<ul> <li>Did you find hemlock woolly adelgid? (Circle one):</li> <li>Found Not found</li> </ul>
Field Notes	
If you think you found elongate hemlock scale wri	
Checklist	
I certify that I: Checked at least 10 branches, or as many as I could reach. completed peer review in the field	<ul> <li>Checklist complete? (Circle one): Yes No</li> <li>Signature:</li> </ul>