



MaMA Monitoring Plots Network

YEAR 1 DATA FORM (initial plot observation)

Always fill out this form in the field for use as data backup/entry correction.

If not using [Aneccdata smartphone app](#), upload data via [Aneccdata.org](#).



The monitoring plot must contain at least 40 native, naturally occurring, untreated trees that are at least 4" (= 10 cm) DBH (Tree Diameter at Breast Height) and which are spread across at least half an acre up to 10 acres. **Tip 1:** Don't include trees that are likely to be cut while still alive (e.g., hazard trees). **Tip 2:** If you don't have at least 40 eligible trees on half an acre, expand your plot to include more trees. **Tip 3:** If you find 40 eligible trees on less than half an acre (half a football field), expand your plot to include trees so that at least half an acre is covered. **Tip 4:** If you're not sure whether your plot is at least half an acre, use the free Google Earth app to measure its area. **Tip 5:** A plot doesn't need to be contiguous – it can comprise multiple patches (all within the same 10-acre area), if the areas between the patches would be impractical to monitor. **Tip 6:** If EAB is already at your site and there are more than 40 eligible trees, don't let canopy health class influence which trees you include in the plot - instead either choose 40 eligible trees randomly or choose them based on a rule such as the first 40 eligible trees you encounter.

In Aneccdata, select the "YEAR 1 – initial plot observation" datasheet. All data on this form, along with photos, are entered as one observation.

Observer(s):	Date:
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Observer's email address:

Plot GPS coordinates (coordinates can be taken anywhere in the plot; enter these coordinates when entering data; otherwise Aneccdata defaults to computer's location.)	Lat. (Eastern US between 30 & 50; list to 5 decimal places)	Long. (Eastern US between -67 & -97; list to 5 decimal places)
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Institution submitting data if applicable (e.g. NY State Parks; The Nature Conservancy):

Location (e.g., Highmount State Park or John Smith's woodlot):

Plot name (Assign a unique name, e.g., "Pine Meadow Trail"; "Split Rock"):

Habitat type (Circle all that apply): Upland Wetland Floodplain

Tree tag #: Place tags only on live trees; for each EAB-killed tree (dead tree with definite EAB sign), enter "0" (see examples). **Do not record dead trees that don't have definite EAB signs.** **Species:** if you know it's ash but not which species enter "A"; for **white ash** (*Fraxinus americana*); for **green (red) ash** (*F. pennsylvanica*) enter "G"; enter "W/G" if you know it's white or green ash but are not sure which; "W"; for **black (brown) ash** (*F. nigra*), enter "B"; for **blue ash** (*F. quadrangulata*) enter "Q"; for **pumpkin ash** (*F. profunda*), enter "P"; and if you're not sure a tree is ash, enter "N". **Crown (canopy) health classes:** 1 = completely healthy; 2 = some twigs w/o leaves; 3 = < 50% crown die-back; 4 = ≥ 50% crown die-back; 5 = crown has no leaves, although there may be leaves on epicormic shoots or stump sprouts. **Definite EAB signs:** Serpentine galleries; multiple D-shaped holes; distinctive larva (rarely seen since only found under bark of live trees and we discourage removing bark from these). **Flaking:** Extensive outer bark removal by woodpeckers, with larval extraction holes. The exposed inner bark is blond on recently flaked trees, gray on trees flaked less recently.

TREE DATA

<p>Tip: After recording a tree, mark it with colored chalk by drawing a line around the trunk if standing or making an "X" on it if fallen; this way you'll know that you've already processed it.</p> <p>Tip: You can also use flagging tape or tree paint to help find tagged trees in future.</p> <p>Begin with # 1; number each following tree consecutively to get at least 40 trees</p> <p><u>Example: EAB-killed tree</u></p> <p>Tools and equipment needed:</p> <ul style="list-style-type: none"> • Round, numbered aluminum tags and 2" wood-siding aluminum nails (from, e.g., www.forestry-suppliers.com) • Small hammer • DBH tape (or other measuring tape) • Chalk <p>Optional:</p> <ul style="list-style-type: none"> • Binoculars • Tree paint (from, e.g., www.forestry-suppliers.com) • Flagging tape 	Count #	Tree tag #	Species	Crown health class	Definite EAB signs (Y/N)	Flaking (Y/N)	DBH Tree Diameter at Breast Height (If multiple trunks, only measure largest one) Circle unit used: CM or Inches	Notes	Record location data (using Aneccdata or a GPS app or a GPS unit) on this sheet for each live and each EAB-killed tree included.	
									Lat. (include 5 decimal places)	Long. (include 5 decimal places)
	1	45	W	2	N	N	13"		41.62678	-74.23744
	2	0	W	5	Y	Y	18"		41.64022	-74.28078
	3									
	4									
	5									
	6									
	7									
	8									
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	10									
	11									
	12									

Observer(s):								Date:			
Plot name:											
<p>PHOTO DOCUMENTATION</p> <p>ASH PHOTOS Take & upload the following photos for each ash species in your plot: ✓ bark ✓ branching pattern ✓ leaves (if possible) One photo of these features per species is enough.</p> <p>EAB SIGNS PHOTOS If you find any of the following signs of EAB, take & upload one photo of each sign for the plot: ✓ Multiple D-shaped exit holes ✓ Serpentine larval gallery ✓ "Flaking" (with woodpeckers' larval extraction holes)</p> <p>PHOTOS OF DATA FORM Please take photos of front/back of completed data sheet and submit it via Anecdota or email it to Outreach@monitoringash.org (this will enable us to correct any entry errors in your electronic data).</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Terms: Dead and dying ash trees can pose hazards of serious injury from falling tree material. Participants agree to assume all risks of injury from these trees and to not hold project organizers or administrators liable for them.</p> </div>		TREE DATA cont.								Record location data (using Anecdota or a GPS app smartphone or using a GPS unit) on this sheet for each living and each EAB-killed tree included.	
		Count #	Tree tag #	Species	Crown health class	Definite EAB signs (Y/N)	Flaking (Y/N)	DBH Tree Diameter at Breast Height <i>(If multiple trunks, only measure largest one)</i> Circle unit used: CM or Inches	Notes	Lat. (include 5 decimal places)	Long. (include 5 decimal places)
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