Beech Leaf Disease Survey Questions

Title: NH Cottage, Year 3 Resurvey, 7/8/2022

Δ	Survey Date	7/8/2022
л. В	Survey Location	Behind our cottage
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3.	Size of tree	4 inches, Ruler
4.	How many leaves are on the tree?	95-100%
5.	Of the leaves present, what percentage are normal shape and	95-100%
	size without any striping?	
6.	Of the leaves present, what percentage are normal in shape and	0%
	size with banding (mild BLD symptoms)?	
7.	Of the leaves present, what percentage are shrunken and curled?	0%
	(heavy BLD symptoms)	
8.	Take a picture of leaves showing the worst symptoms on the tree.	3080
	This could be a healthy leaf, a mild symptom leaf with banding, or	
	a heavy symptom leaf that is dark, shrunken and curled.	1 - John Sala
9.	Take a picture of a leaf that is most representative of the leaves	3079
	on the tree. This may be a completely healthy leaf or one showing	
	BLD symptoms.	
10.	Are there signs of beech bark disease (BBD)? Beech scale insects	Scale insects
	are tiny white clusters on the bark. Nectria is a small, red fungus	⊠ Cankers or cracks
	that enters through cracks on the bark from scale insects. Cankers	Nectria fruiting bodies
	or abnormal bark often form as a result of BBD.	□ No signs of BBD
11.	Do the leaves show insect damage from mites?	Yes
12.	Is there necrotic tissue?	No
13.	Is there leaf rolling along the margins from aphids that cause	Yes
	yellowing and a cracked glass appearance?	
14.	Are there beech blight aphids?	Yes
15.	Is there bud suspension?	No
16.	Is the tree fruiting?	No
17.	Enter any additional notes you would like. Be as detailed as	(See bottom of page.)
	possible.	
19.	Optional: Submit a photo of other symptoms you see	3075
		Contraction and the
		and the second
		Martin Contractor

17. This Year 3 resurvey was conducted on 7/8/2022. The initial survey and Year 2 resurvey were conducted on 6/27/2020 and 7/10/2021, respectively.

The resurvey covered parts of 2 parcels. One had been logged more recently (but >30 years) and is dominated by beech. The other has a mixture of mature white pine, hemlock, beech, and striped maple. No one tree was representative of the population, whose numbers dropped off exponentially from the sprouts to the "huggers". While one tree was chosen as representative, the answers in this survey are a composite of the population. No BLD was seen anywhere. >90% of the larger trees have BBD cankers. 50-75% of the smaller trees have BBD cankers.

The worst case photo shows leaf striping, which at first alarmed me. Then I realized the stripes were light (not dark like BLD), the stripes were yellowing and had a cracked glass appearance, and every leaf so affected also had a rolled edge, therefore I was looking at an aphid infestation, not BLD. A close look at the photo reveals very many aphids on the leaf surface, especially along the veins. I think those are blight aphids that are independent of the other symptoms observed. Less than a quarter of trees bore any yellowing stripes, and those that did had only a few such leaves each.

Some of the smaller trees had the usual common leaf mites on the lower branches – the optional photo shows a bad case of this.

The representative photo was chosen because all of the leaves look healthy, with only a few blemishes. Leaves higher above the ground tended to be healthier.

The pin placement on the map is estimated. The geotags from my GPS-equipped camera indicate the following coordinates:

Worst case photo: 43.6842N, -71.0085W,

Representative photo: 43.6842N, -71.0085W,

Optional photo of mite damage: 43.6843N, -71.0079W.