Sample Collection and Submission Guide

Samples are recorded and processed routinely by the date and time in which they are received. All samples will be initially processed within seven days of receipt with results available twenty-one days after processing. Some laboratory diagnostic techniques take longer than others, which may affect result punctuality.

Sample Collection

Tree disease diagnosis is largely dependent on the quality of the sample and on the relevant information provided by the submitter. Samples must be of sufficient quality and quantity to allow for proper laboratory testing and pertinent information, such as sample tree identification, is essential.

- 1. Collect samples before the application of pesticides in order to increase the probability of recovering the causal pathogens.
- 2. Samples should be collected from symptomatic trees showing tinning/transparent crowns, foliage discoloration, and/or excessive cone production.
- 3. Samples should not be collected from dead or severely declined trees; determining the causal agent from such trees is highly unlikely. Samples should not be collected from dead roots for the same reason.
- 4. Submit a generous amount of sample material to allow for all required laboratory processes: collect 12 to 18 inches of first order lateral roots that are 3/4 to 4 inches in diameter.
- 5. Carefully excavate to avoid unnecessary damage to the sample.
- 6. Excess soil should be removed from root samples. Samples should retain just enough soil to maintain moisture levels.
- 7. Do not add water or pack a sample in water.
- 8. Wrap samples in a dry paper towel and seal in a zip-top bag.
- 9. Keep samples refrigerated from collection to submission and do not expose them to high heat situations, such as baking in the sun or in the back of a vehicle.
- 10. Keep all samples in separate bags and label appropriately.
- 11. Complete a "Tree Disease Diagnostic Form" for each sample, available on the Forest Health Cooperative webpage (https://fp.auburn.edu/ForestHealthCooperative/default.htm).

Sample submission

Samples may be mailed to the Forest Health Cooperative Diagnostic Laboratory or delivered in person to Daniel Anderson at 3301 Forestry and Wildlife Sciences Building, Auburn University, Alabama 36849-5418.

1. All samples must be submitted with a completed "Tree Disease Diagnostic Form."

- 2. When submitting samples by mail, either mail them early in the week to avoid weekend layovers or use an overnight service. You may also deliver them in person.
- 3. Samples should be mailed in an appropriate sized box, with padding, or in a padded envelope.
- 4. If sample is a suspected high-risk pathogen, contact Diagnostic Laboratory personnel for appropriate packaging and mailing instructions

Forest Health Cooperative Forest Health Dynamics Laboratory

3301 Forestry and Wildlife Sciences Building Auburn University, Auburn, AL 36849-5418 Daniel Anderson (dda0003@auburn.edu) 334-844-8037

https://fp.auburn.edu/ForestHealthCooperative/default.htm



Diagnostics Laboratory Use Only:					
Date Received:					
Received by:					

Tree Disease Diagnostic Form

Please include ALL relevant data; maintain an office copy; submit original copy with specimen.

Date Sample Taken: Submitter Information:		Date Sample Shipped:			Sample No. () of ()	
		Client Information: (If different from Submitter)			Sample ID:	
Name:						
Company:					Preferred conta	act method for results:
Address:					N 4 - 11.	Culturalitation Climate
City/Zip:						_ Submitter Client
Phone No:						_ Submitter Client
Fax No:					Email:	_ Submitter Client
Email:						
Tree (Pine or Hardwood	Isnn)·	Selec	Site Informat at ALL that apply.	ion		
Planting Type:				Other:		
Exposure:				Windy		
Exposure.		Slope:	ruii silade	willdy	Frotecteu	irrigateu
Soil Type:			Clay	Loam	Other:	
Age of Planting:	0-10		21 – 30		41 – 50	
Foliage Symptoms:	Wilted	Spotted	Yellowed	Mosaic	Other:	
Root Symptoms:			Stained	Insect Signs	Other:	
Insect Attack:	BTB	SPB	lps			Hylastes
Insect Damage:	Foliage	Branches	Bole	Roots		
Prevalence:	Entire Planting _	Localized	Scattered	% Planting Affected	l:	
Degree of Damage:	High	Medium	Low			
Recent Chemicals:	Pesticide	Fertilizer	What/when applie	ed:		
Recent Silviculture:	Thin _	Prescribed fire	Other:			
Problem Description: _						