

Tree Problems

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Objectives

1. Learn about Emerald Ash Borer and what it will mean to us when it arrives.
2. Know the basic life cycle and controls for oak wilt.
3. Know what some common tree problems are in Austin area.
4. Learn where to get samples tested as needed.



Emerald Ash Borer



UGA1439009

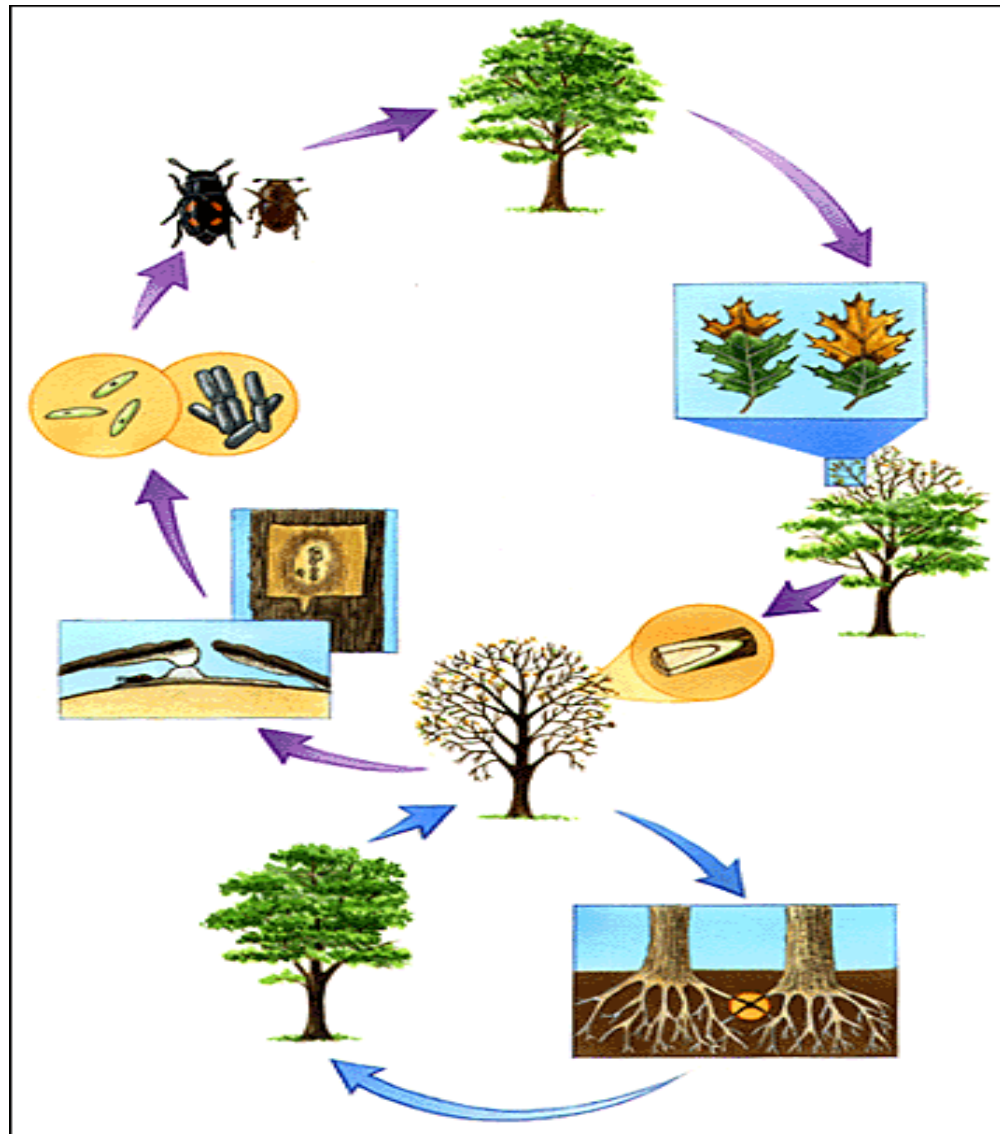
Oak Wilt

1. What is it?
2. How is it identified?
3. How can it be managed?



Oak Wilt

What is it?
Bretziella fagacearum is a fungus that causes oaks to plug their vascular tissue. Won't survive above 82* F. or below 45* F. Can spread 75' a year.



Fungal mats



Root grafts



Nitidulid beetles

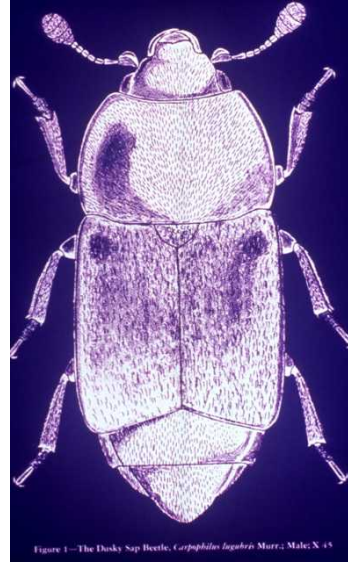
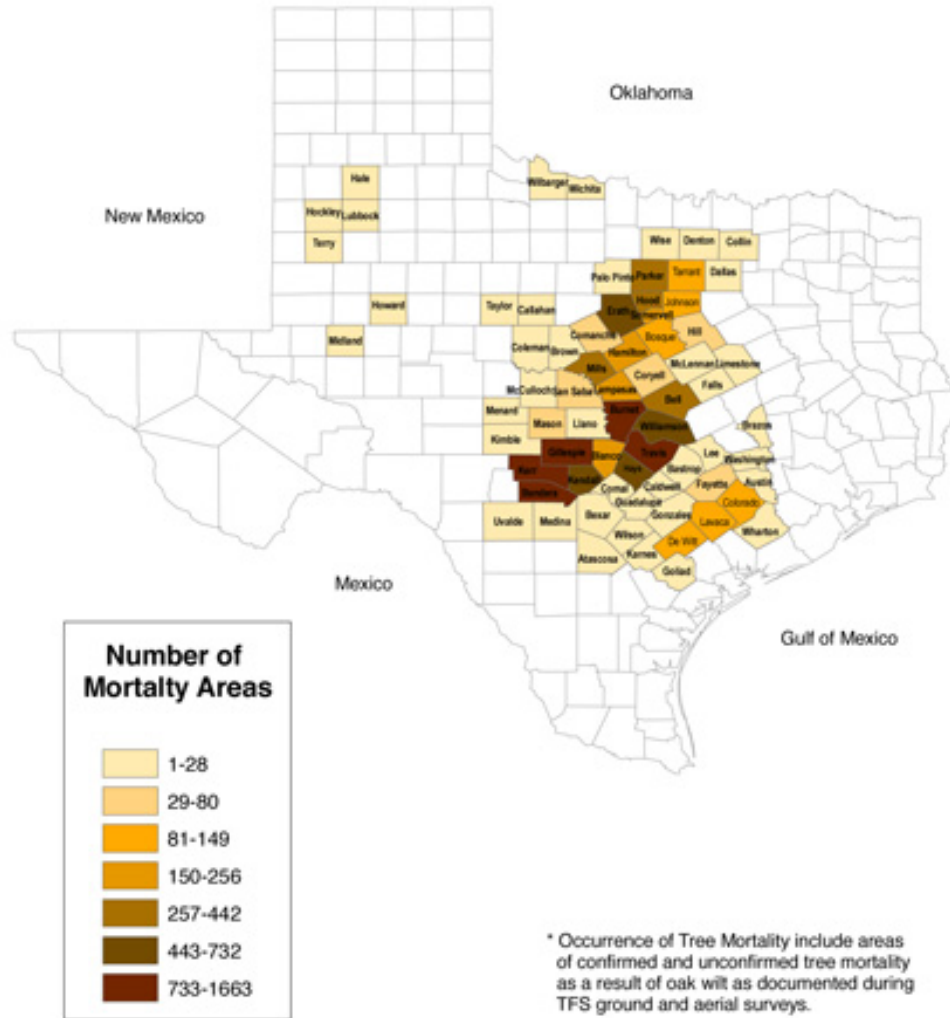


Figure 1—The Dusky Sap Beetle, *Carphophilus lugubris* Murray; Male; X 45



Occurrence of Tree Mortality * in Central Texas Counties

July, 2007



Live Oak Symptoms



Red Oak Symptoms



Treatment: Trenching



Treatment: Injections



Prevention Measures

- Clean tools
- Paint wounds
- Avoid live pruning in Spring.



Oak Wilt Resources

- County Extension Agents:
<https://counties.agrilife.org/>
- City of Austin Urban Forester:
Emily.king@austintexas.gov
- Texas Forest Service replacement seedlings:
<http://texasforestservation.tamu.edu/default.aspx>
- www.texasoakwilt.org



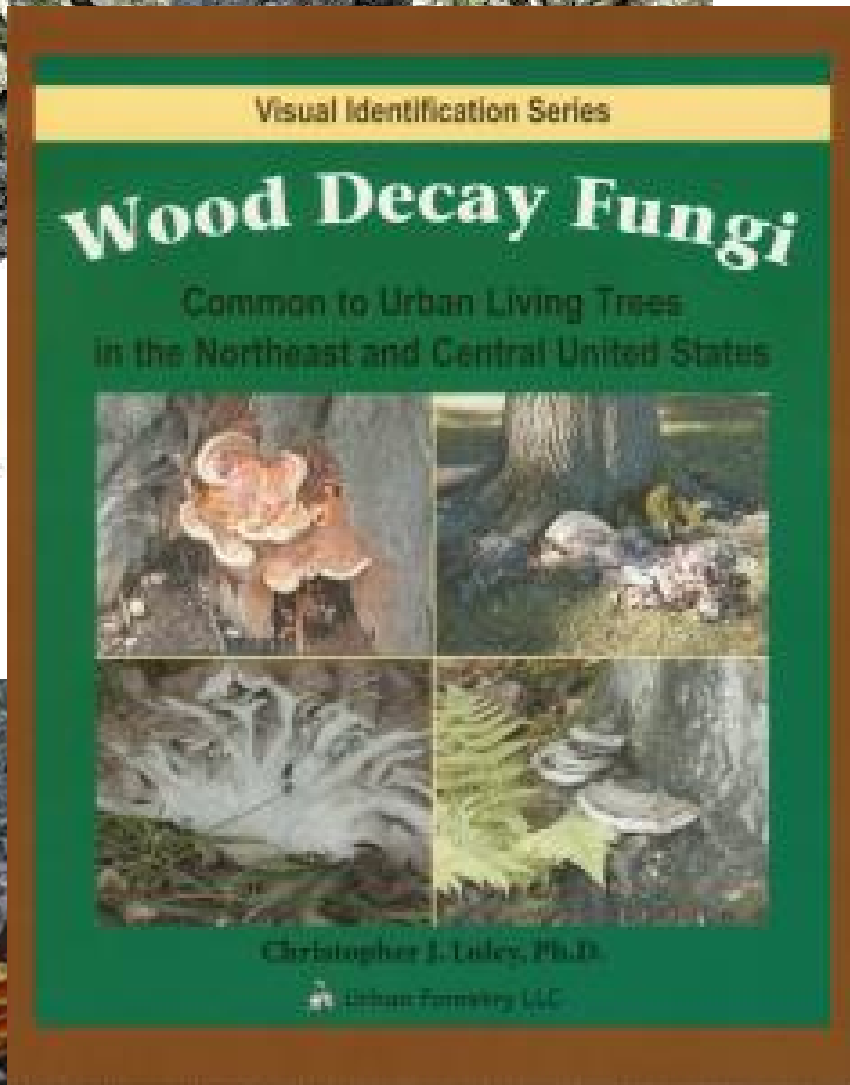
ANY
QUESTIONS
?



Fungal leaf diseases



Decay fungi



www.trees.org.uk

An Arborists' Field Guide



Guy Watson
Ted Green



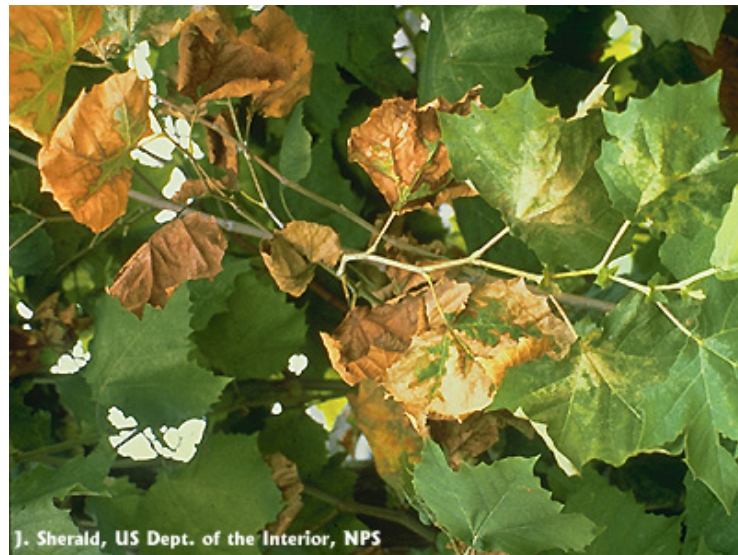
Hypoxylon Canker



5504975



Bacterial Leaf Scorch



J. Sherald, US Dept. of the Interior, NPS



Phytophthora



Dark fluid oozing from bark and running down the tree trunk around the root flares, called basal stem bleeding



Fire Blight



Powdery Mildew



James Blake, ©2007 HGIC, Clemson Extension



Common insect pests



Sooty Mold



Animals



Non-Problems



Ball Moss



Tillandsia recurvata



Diagnostic testing

- <https://plantclinic.tamu.edu/>

D-1178
Rev 05/11



TEXAS PLANT DISEASE DIAGNOSTIC LABORATORY
1500 Research Parkway, Suite A130
Texas A&M University Research Park
College Station, Texas 77845
e-mail: plantclinic@ag.tamu.edu phone: 979.845.8032 fax: 979.845.6499
<http://plantclinic.tamu.edu>

TPDDL use only.

Sample #:

Pmt type:

Amnt:

Photo

PLANT DISEASE DIAGNOSIS FORM

Accurate disease identification, diagnosis and management recommendations are dependent on submission of appropriate specimens with thorough background information. Incomplete information and/or poor sample may lead to inaccurate diagnosis. Refer to the back of this form for sampling and mailing instructions.

SUBMITTER CONTACT INFORMATION (PLEASE PRINT)		GROWER CONTACT INFORMATION (please complete if different from submitter)	
Name: _____	Company Name (if commercial): _____	Name: _____	Company Name (if commercial): _____
Address: _____		Address: _____	
City: _____	County: _____	State/Zip: _____	City: _____
County: _____	State/Zip: _____	City: _____	County: _____
State/Zip: _____	Phone: _____	Phone: _____	Fax: _____
Phone: _____	Fax: _____	Phone: _____	Fax: _____
E-mail: _____		E-mail: _____	
Submitter is <input type="checkbox"/> Extension personnel <input type="checkbox"/> Homeowner* <input type="checkbox"/> Farmer <input type="checkbox"/> Consultant <input type="checkbox"/> Golf course <input type="checkbox"/> Lawn/Tree Care Co. <input type="checkbox"/> Nursery/Greenhouse/Garden Center <input type="checkbox"/> Dealer Distributor <input type="checkbox"/> Other		Grower is <input type="checkbox"/> Extension personnel <input type="checkbox"/> Homeowner* <input type="checkbox"/> Farmer <input type="checkbox"/> Consultant <input type="checkbox"/> Golf course <input type="checkbox"/> Lawn/Tree Care Co. <input type="checkbox"/> Nursery/Greenhouse/Garden Center <input type="checkbox"/> Dealer Distributor <input type="checkbox"/> Other	
Send results to: <input type="checkbox"/> Submitter <input type="checkbox"/> Grower Send result via: <input type="checkbox"/> E-mail <input type="checkbox"/> Fax <input type="checkbox"/> Standard mail <input type="checkbox"/> Send copy to County AgriLife Extension Agent *HOMEOWNER - County Agent will be cc: report unless specified <input type="checkbox"/> do not notify			

Please complete form for diagnostic services. Please PRINT and mark all that apply.

PLANT: _____ variety/cultivar: _____

Planting date: _____ % of plants affected: _____ % of area affected on the plant: _____

Date first noticed: _____ Soil pH: _____ Problem developed: Suddenly Gradually

If you have consulted other labs, what was concluded?

Have you previously contacted an AgriLife Extension agent about this problem? Yes No

Location of plant(s): Within 10 feet (3 meters) of building, pool, pavement or road Along fence row Greenhouse
 Full sun (>6 hr sun/day) Open (>20 feet from any surface) Other: _____

Affected part: Whole plant Branches/trunk Foliage (leaves) Flowers Fruit Roots

Symptoms: Dead plant Leaf spots Canker/gall Wilting Rot Yellowing
 Stunting Burn/scorch Other: _____

Distribution of problem plant(s): Isolated plant(s) Scattered plants Large area Small localized area

Watering practices: Sprinklers Less than 3 times/week Hand water Daily
 Drip system More than 3 times/week Variable/as needed None

Specific test request (i.e. Check for...): Additional fees may apply. see <http://plantclinic.tamu.edu> for complete fee schedule.

Culture Oak wilt DED ELISA Pierce's disease (grape) Bacterial leaf scorch Virus Other: _____

Recent pesticide & chemical application

	Product name	Date
Fertilizer(s)		
Fungicide(s)		
Insecticide(s)		
Herbicide(s)		
Other		

As of June 1, 2011: Routine diagnostic charge is \$35 per specimen. All out-of-state samples will be assessed a \$20 surcharge/sample. For complete fee schedule, visit: <http://plantclinic.tamu.edu>.

Please make checks payable to Texas AgriLife Extension Service.
Send bill to Submitter Grower Acct/PO reference
 Check to decline additional services beyond routine diagnostic procedure.
I agree to pay a minimum of \$35 for this service; fees may be greater based on services performed.

* Signature required before sample can be processed

Signature _____

Printed name _____

Submission date _____

* AgriLife Extension personnel exempted



Questions?



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