



College of Agriculture, Food and Environment Cooperative Extension Service

University of Kentucky Plant Disease Diagnostic Laboratory

INFORMATION

FOR

COUNTY EXTENSION OFFICES



Revised May 2018

Agriculture & Natural Resources • Family & Consumer Sciences • 4-H/Youth Development • Community & Economic Development

Where to Send What

Guide to Agricultural Diagnostic Services

To prevent unnecessary delays when specimens must be re-routed, please be sure to use the appropriate form and mail samples or inquires directly to the correct Department or Laboratory.

	Type of problem/Test	Where to send it
	Plant disease identification on all crops	UK Plant Disease Diagnostic Laboratory (*)
	Mushroom identification	University of Kentucky
	Identification of homeowner flowers, trees,	Agricultural Science Center - North
	shrubs & other ornamentals	Lexington KY 40546-0091
		or
		UK Research & Education Center
		PO Box 469, 1205 Hopkinsville Street
		Princeton, KY 42445-0469
S	Insect identification	UK Department of Entomology
Ë	Insect injury suspected	Extension Entomologist
E	Insect management information	S-225 Agricultural Science Center - North
ğ		Lexington, KY 40546-0091
Identific	Weed identification	UK Department of Plant & Soil Sciences
	Weed management information	Extension Weed Specialist
	Herbicide injury suspected	117 Plant Science Building
		1405 Veterans Drive
		Lexington, KY 40546-0312
		or
		UK Research & Education Center
		PO Box 469, 1205 Hopkinsville Street
		Princeton, KY 42445-0469
	Woody plant & wildflower identification	UK Herbarium
		Forestry Department, Lexington KY
		TP Cooper Building
		Lexington KY 40546-0073
	Soil for SCN analysis (\$)	SCN Diagnostics
	(soybean fields and nursery crops)	Plant & Nematode Screening Services
b 0	<u>Soil test for nutrients</u> (\$)	UK Division of Regulatory Services (*)
		103 Regulatory Services Building
ij		Lexington KY 40546-0275
Ö		or
		UK Research & Education Center
i		PO Box 469, 1205 Hopkinsville Street
Š		Princeton, KY 42445-0469
	Soil test for triazines (herbicide)	UK Division of Regulatory Services
	Endophyte testing (\$)	103 Regulatory Services Building
	Seed germination test (\$)	Lexington KY 40546-0275

Notes:

(*) All plant/soil samples should be sent to the laboratory that has been designated by their county

(\$) A fee will be charged for these services

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	Type of problem/Test	Where to send it	
	Plant tissue analysis for nutrients (\$)	Private labs only (service not available at UK)	
		Waters Agricultural Lab (Owensboro KY)	
		Waypoint Analytical (Memphis TN)	
ng Br		Spectrum Analytic (Washington Court House OH)	
estir	Mycotoxin test (\$)	UK Veterinary Diagnostic Lab	
	(e.g., aflatoxin, fumonisin, zearalanone,	Laboratory Services	
	vomitoxin)	1490 Bull Lea Rd.	
ne N		Lexington, KY 40511	
SSI	Test for nitrate levels in corn (\$)	Murray State University	
Ĕ	Test for prussic acid levels in sorghum (\$)	Breathitt Veterinary Center	
Ľ.		PO Box 2000, 715 North Drive	
an		Hopkinsville KY 42241-2000	
D	Hay and forage quality testing (\$)	Kentucky Department of Agriculture (KDA)	
		Forage Testing Program	
	Household molds on wood	KY Energy and Environment Cabinet	
		Kentucky Department of Air Quality	

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Extension Plant Pathology – Contact Information

Personnel	Office phone	Area of specialty/Title
Extension Specialists		
Carl Bradley	270-365-7541 ext 215	Soybeans, small grains, canola
Nicole Gauthier	859-218-0720	Ornamentals (landscape, nursery, greenhouse),
		fruit crops, hemp
Emily Pfeufer	859-218-0721	Tobacco, vegetables (field & greenhouse
		production systems)
Paul Vincelli		Turfgrass, forest trees
<u>Kiersten Wise</u>	270-365-7541 ext 203	Corn, forages, sorghum
Plant Disease Diagnostic	Laboratory	
Julie Beale	859-257-8949	Diagnostician, Lexington
Brenda Kennedy	270-365-7541 ext. 228	Diagnostician, Princeton
<u>Sara Long</u>	859-257-8949	Diagnostic Assistant, Lexington

Country			7		Lab use	Lab filo no :
County:					only:	Lab IIIe no.:
County Extension Agent:					-	Date received:
county sample number: (county use—optional)						Diagnostician:
UNIVERSITY OF	Plant	Disea	se l	dei	ntific	cation Form
College of Agriculture, Food and Environment Department of Plant Pathology	Send plant samp completed form	le with Plant co: Ag Sci Lexing	Disease Dia ience Build gton, KY 40	agnostic L ling North 0546-0091	aboratory (OR Plant Disease Diagnostic Laboratory P.O. Box 469 Princeton, KY 42445
Grower:					Plant name:	
Address:					Variety:	
City:		Zip:			Date collected	d:
Email:						
Phone:						
Commercial sample:	□Yes □No			Is pattern	associated w	rith:
Parts diseased:				□ field bo	orders	□ low, wet area □ slopes
□ buds □ leaves/needles	\Box fruit \Box roots	□ flowers □ stems		D	f	te ste de
□ trunk	□ twigs/branches		l	Percent of planting affected:		
Symptoms:			I	Date prol	blem first not	ticed:
burn or scorch	□ galls or swellings	□ stem rot		Planting date or age of plant:		
	□ motting □ root rot	□ stunting □ wilt				
distortion	□ shot hole □ yellowing			Soil type:		
□ fruit decay	□ spot		:	Soil drainage:		
□ other:			l	Previous	crop(s):	
Location of plant:				Tillage pr	actices:	
☐ field ☐ garden ☐ greenhouse	□ indoors□ orcharden□ landscape□ outdoor floatbednhouse□ nursery□ plant bed		batbed	Recent weather and irrigation practices:		
Pattern of diseased single plant scattered plants	blants: □ group(s) of plant □ large area(s)	s 🛛 entire plan	iting	Unusual o	disturbances g □ injuries	: □ lightning □ hail □ construction 5 □ soil compaction □ flooding
Chemicals applied to	o this crop: (include na	me, rate and date	e of applica	tion)		
Fertilizer:						
Herbicides:						
Fungicides:						
Insecticides:						

Additional information:

Please retain a copy of this form for your records. An electronic diagnosis report will be sent to the local County Extension Office and to the client (if email address is provided).

TREE AND SHRUB DISEASE IDENTIFICATION FORM

Information to Supplement the Plant Disease Identification Form

Many tree and shrub problems are best diagnosed only after careful inspection of the whole plant in its growing site. However, because the plant disease diagnostician cannot visit the growing site, the grower's observations and information can be of tremendous help in formulating a diagnosis. The more information the grower provides, the better the diagnostician will be able to narrow down the cause(s) of the problem.

Please complete as much of the following as possible in addition to the Plant Disease Identification Form (Include relevant photos, if available)

General Information

Approximate height (feet)	Trunk diameter (inches)	Trunk diameter at planting
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Time in present site _____

Symptoms

1) What is the distribution of affected branches? Indicate location of damage on the diagram below.



- Scattered branches all over tree/shrub
- One portion of tree/shrub only
- Several portions of tree/shrub
- Entire plant
- Other _____
- 2) What is the progression of symptoms throughout the tree/shrub (e.g. from lower branches to top; from branch tips toward trunk; from one side to another, etc.)?

3) What is the progression of symptoms on leaves/needles? (e.g. leaf margins/needle tips inward; between leaf veins)?

4) Has problem occurred \Box slowly or \Box rather suddenly? How rapidly?	
5) Are cankers, sunken areas, or injuries (mower, string trimmer, or other)	present on main limbs or trunk? 🛛 Yes 🛛 No
Describe size and location	
How old are cankers or injuries indicated above?	Is there any evidence of closure (callus)? \Box Yes \Box No
6) Does tree have a girdling root up near trunk, at soil level, or below soil le [Look for a large root forming a "noose" around trunk within 12 inches of girdled lack a normal flare of the buttress roots and trunk will appear to g	evel?
(continued on reverse)	side)



7) Are there other plants of this type also showing the same symptoms? Yes No Are there healthy plants of the same type nearby? Yes No Are there other plants <u>not of this type</u> showing the same symptoms? Yes No
8) Are mushrooms, bracket fungi, or conks apparent on trunk or at base of tree/shrub? Yes No If so, describe:

Growing Site

1)	Is tree/shrub surrounded by pavement or buildings? 🗆 Yes 📄 No 👘 Is soil around tree/shrub compacted? 🗆 Yes 🔅 No	
2)	Is tree/shrub in 🛛 full sun 🗆 partial shade 🔷 full shade	
3)	Have roots been disturbed in the past 5 years? 🗆 Yes 👘 No 👘 Has the grade (soil level) around tree/shrub changed in the	
	oast 5 years? 🗆 Yes 🗆 No 🛛 If yes, explain 🗆 soil added 🗆 soil removed Reason	_
4)	Is tree/shrub located in a low wet area or at the base of a downspout? \Box Yes \Box No Does water stand or puddle on soil	
	after rain? 🗆 Yes 👘 No 👘 Is tree/shrub in a site where topsoil was removed (e.g. a new home development)? 🗆 Yes 👘 No	С

Cultural Practices

1) Is ther	e mulch around tree/shrub base? 🗆 Yes 🛛 No 🛛 Is there a tree guard around trunk? 🗆 Yes 🔅 No
2) Has tre	ee ever been topped 🗆 Yes 🗆 No When?
3) Has tre	ee/shrub been bumped by lawn mower, string trimmer, or other equipment? 🛛 Yes 🛛 No
4) Have h	nerbicides been used to control weeds $\ \square$ in lawn $\ \square$ around tree $\ \square$ other
5) Is tree,	/shrub watered thoroughly during dry periods (equivalent of at least 1 inch of rain per week)? 🛛 Yes 👘 No
6) If tree,	/shrub was transplanted in last 2 to 3 years, describe method
Was pl	ant 🛛 bare root 🖓 container-grown 🖓 ball & burlap 🦳 Container diameter or root ball size
If ball &	& burlap: type of root ball covering 🛛 degradable burlap 🖓 plastic 🖓 other
Before	planting, was root ball covering <a> removed <a> loosened <a> slit
7) What	were the results of last soil test taken for this site? pH P K
Ca-Mg	When was the last time tree/shrub or surrounding lawn was fertilized?
[Be sur	e to indicate type of fertilizer on Plant Disease Identification form]
How w	as fertilizer applied 🗆 cores dug 🗆 broadcast 🗆 injection 🗆 other
Applied	d 🛛 at drip line 🗆 near trunk 🗆 other

Additional Information