PLANT PATHOLOGY EXTENSION LAB SAMPLE SUBMISSION FORM

(Please fill the form, and mail/ fax or Email)

<table>
<thead>
<tr>
<th>Submitted by:</th>
<th>Submitted for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company:</td>
<td>Commercial Grower</td>
</tr>
<tr>
<td>Address:</td>
<td>Extension Agent</td>
</tr>
<tr>
<td>City/Zip:</td>
<td>Crop Consultant</td>
</tr>
<tr>
<td>County:</td>
<td>Home Owner</td>
</tr>
<tr>
<td>E: mail:</td>
<td>Research/Faculty</td>
</tr>
<tr>
<td>Phone:</td>
<td>Master Gardener</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plant:</th>
<th>Location</th>
<th>Prevalence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cultivar:</td>
<td>Field</td>
<td>Greenhouse</td>
</tr>
<tr>
<td>Acreage affected:</td>
<td>Nursery</td>
<td>Forest</td>
</tr>
<tr>
<td>Approx. age of plant:</td>
<td>Landscape</td>
<td>Interior</td>
</tr>
<tr>
<td>Recently transplanted?:</td>
<td>Grove/orchard</td>
<td>Green/Fairway</td>
</tr>
<tr>
<td>Garden</td>
<td>Other</td>
<td>Shaded areas</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall plant appearance</th>
<th>Root</th>
<th>Stem/Branch</th>
<th>Leaf</th>
<th>Flower/fruit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stunted</td>
<td>Gall</td>
<td>Canker</td>
<td>Mottle / Mosaic / Streak</td>
<td>Necrotic</td>
</tr>
<tr>
<td>Elongated</td>
<td>Brown</td>
<td>Girdler</td>
<td>Abnormal or twisted growth</td>
<td>Chlorotic</td>
</tr>
<tr>
<td>Gnarlled</td>
<td>Black</td>
<td>Dark lesions</td>
<td>Chlorotic spots</td>
<td>Scabby</td>
</tr>
<tr>
<td>Wilted</td>
<td>Tissue sloughing off</td>
<td>Tip die back</td>
<td>Necrotic spots</td>
<td>Uneven ripening</td>
</tr>
<tr>
<td>Blighted</td>
<td>Root rot</td>
<td>Premature leaf fall</td>
<td>Deformed</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>Other</td>
<td>Deformed</td>
<td>Rot</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Approx. date symptoms first appeared:</td>
<td>Have you had this problem before?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other injuries: ______ Hail ______ Wind ______ Freeze or Frost ______ Sun ______ Insects: ______

Irrigation: ______ Furrow ______ Overhead ______ Trickle ______ None ______ How often: ______

Soil: Type ______ pH ______ Drainage: ______ Good ______ Moderate ______ Poor

Chemicals applied to crops (rate and dates/s of application): ____________________________________________________________

Comments: ____________________________________________________________

Lab Comments: ____________________________________________________________

Sample No: __________
Collected: __________
Received: __________
Paid: $ __________
Check No: __________
Do not invoice __________

FOR LAB USE ONLY

Please make checks payable to University of Arizona

Mail samples to:
Alex Hu, Extension Plant Pathologist
epp@email.arizona.edu Tel: 520-626-6287
The School of Plant Sciences,
University of Arizona
1140 E. South Campus Dr., P.O. Box 210036, Tucson, AZ 85721-0036

UA PDC Fees: $60/regular sample, $120/sample requiring ELISA & PCR testing

FOR LAB USE ONLY

Find the location: click Google maps
http://cals.arizona.edu/spls/content/jiahuai-alex

The School of Plant Sciences
Mail samples to:
Alex Hu, Forbes Building, Room 303
1140 E. South Campus Dr.
P.O. Box 210036
Tucson, AZ 85721-0036

Lab Comments: ____________________________________________________________
GENERAL INSTRUCTIONS FOR SUBMITTING SAMPLES

This form provides the necessary information for submitting samples to the Plant Pathology Extension Lab. The manner in which samples are collected, preserved, and submitted ensures a proper identification in a timely and efficient way. Materials needed for submission of samples include:

1. A Plant Pathology Extension Lab sample submission form
2. A zip lock bag (provided by sender)
3. A mailing tube or some kind of shipping container (provided by sender)

SUBMITTING SAMPLES:

1. Put as much information as possible on the sample submission form. WRITE WITH A PENCIL OR PERMANENT INK PEN that will resist smearing. Pictures of the symptoms in the field will be very helpful in the preliminary analysis, and it can be E-mailed to the diagnostician.
2. Place the sample submission form inside the zip lock bag. The bag will protect the paperwork from damage. Put the zip lock bag and the specimen inside the shipping container.
3. Mail samples early in the week to avoid the weekend layover in the post office.
4. For emergency samples, use overnight courier services or overnight mail.

ADDITIONAL INSTRUCTIONS FOR SUBMITTING INSECT SAMPLES

1. Place your specimens in the vial and fill with an alcohol solution. The alcohol preserves the insect so it will not decay. Screw the cap on or insert the stopper into the vial tightly. Many times the alcohol leaks out during shipment and the specimen is destroyed by the time it is received. The one exception to using alcohol is moths and butterflies. These should be placed between layers of waxed paper and enclosed in an envelope.
2. Be sure that your name appears on the Sample Form and on the insect vial.

ADDITIONAL INSTRUCTIONS FOR SUBMITTING PLANT SAMPLES

1. Submit generous amounts of plant material representing a range of symptoms.
2. Do not add water or pack a sample that is wet.
3. Keep samples refrigerated after collection until they are submitted.
4. Do not mix samples in the same submission bag.
5. Samples arriving from sites in Arizona that are 2 days or less mailing time from Tucson, can be sealed in plastic bags for shipping.
6. Samples arriving from distances greater than 2 days mailing time from Tucson should be packed tightly in a box with dry paper. Do not seal in plastic because of the likelihood of sample deterioration during the mailing period. Do not add moisture.
7. Turf samples should be collected near the margin of the affected area so that a range of diseased and healthy tissue is included. Two cup cutters plugs are usually sufficient. Send pictures of overall symptoms. Samples should be sealed in plastic bags. Wrap samples in newspaper or paper towel before being sealed in a plastic bag.

PAYMENT OPTIONS

1. Please make the check payable ($60/sample) to the University of Arizona.
2. For specific samples that require further advance processing and analysis, a higher charge will have to be paid depending upon the analysis.
3. A contract can also be initiated for unlimited sample submission. The cost can be decided upon discussion with Alex Hu, Extension Plant Pathologist, 520-626-6287, epp@email.arizona.edu

Our mission is to protect Arizona and U.S Agriculture by rapid identification of plant pathogens including fungi, oomycetes, bacteria and viruses using numerous assays including, but not limited to culturing, microscopy, biochemical assays, antibody-based assays and DNA and RNA based assays.