

Florida First Detector Training: Sample Submission



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Long Term Workshop Evaluation

- We would like you to submit 6 to 8 samples to your county agent to help us evaluate this workshop series.
- Supplies needed:
 - Plastic bags or vials
 - Alcohol or another preservative such as 30% antifreeze
 - Sample submission form
 - Box for mailing



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How do you survey for pests?

- Use a Systematical approach
 - Search every plant the same way.
- Document your methods
 - e.g. I searched every other plant, every fifth plant, 10 plants on the outer row and 10
- Quantify the effort
 - e.g. Number of plants searched/number of total plants plants on the innermost row, etc.



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How to Package your Submission

Insects that are difficult to remove from the plant (mites, scales, thrips, etc.)

- Capture multiple life stages on 6 to 8 inches of a plant; wrap the plant material in a paper towel or newspaper and double bag it.
 - Plant identification can help with pest identification
- Capture multiple life stages on a smaller piece of plant and put them in a vial along with a preservative.
- Put the vial in a bag and seal it.
- Put both of these bags plus the sample submission form in yet another bag.
- Box your sample and take it to your county agent.
- <http://www.youtube.com/watch?v=Ma42lE02pDo>



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How to Package your Submission

Hard bodied insects (beetles, stink bugs, grasshoppers, etc.)

- Capture multiple specimens if possible and put them in a vial along with a preservative.
- Put the vial in a bag and seal it.
- Put this bag plus the sample submission form in yet another bag.
- Box your sample and take it to your county agent.
- <http://www.youtube.com/watch?v=DPSOoddSQxD>
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How to Package your Submission

Soft bodied insects (caterpillars, grubs, etc.)

- Capture multiple specimens if possible and put them in boiling water.
 - Be sure to get the water boiling first, then add the sample to the boiling water
- Remove the specimens from the water and put them in preservative-filled vial.
- Put the vial in a bag.
- Put this bag plus the sample submission form in yet another bag.
- Box your sample and take it to your county agent.
- <http://www.youtube.com/watch?v=2HA06HW4Kc4>



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How to Package your Submission

Butterflies and moths

- Capture multiple specimens if possible.
- Put some in a preservative-filled vial and put it in a zippered plastic bag.
- Put others in the freezer overnight to submit a dry sample.
 - Place a tissue in the vial to prevent damage during transit and place the vial in a zippered plastic bag.
- Put these bags plus the sample submission form in yet another bag.
- Box your sample and take it to your county agent.



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How to Package your Submission

Plant disease sample

- Collect 6 to 8 inches of plant material with symptoms, wrap it in paper towels or newspaper, and bag it.
 - Best if you can get the whole plant, but that may not be feasible.
- Collect 6 to 8 inches of plant material without symptoms, wrap it in paper towels or newspaper, and bag it separately.
- Put both these samples plus the sample submission form in yet another bag.
- Box your sample and take it to your county agent.
- <http://www.youtube.com/watch?v=JOrNi8HrIpl>



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What if you do not find any pests?

It is okay if you do not find a pest!

- We need to know that you looked.
- Quantify your effort, and tell us the methods you used, too.



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Sample being submitted with this paperwork
is for the Collaborative and Enhanced First
Detector 2013 Pest Detection Workshops

Mail sample to:

Lyle Buss

Bldg. 970, Natural Area Dr.
P.O. Box 110620
Gainesville, FL 32611-0620

If submitting a live
specimen, please:

- 1) Call ahead and notify Mr.
Buss at (352) 273-3933.
- 2) Ship **overnight**.

Survey Information:

Date surveyed: _____
County: _____
Name: _____
Address: _____
E-mail: _____
Phone: _____
FAX: _____

Submitted by (if different from collector):

Extension Agent: _____
Name: _____
Company: _____
Address: _____
E-mail: _____
Phone: _____
FAX: _____

Response method:

☐ E-mail (preferred)
☐ FAX
☐ Telephone
☐ Regular mail

Notify:

☐ Collector
☐ Submitter
☐ Agent only

Information requested:

☐ Control information
☐ Species identification
☐ Other (please explain)

Priority:

☐ Routine
☐ Urgent (explain why)

Pest surveyed for: _____

Plants surveyed: ☐ Ornamentals ☐ Field crop
☐ Fruit ☐ Greenhouse
☐ Vegetables ☐ Pasture
☐ Forest / Shade tree ☐ Turf

Plant name: _____

Number of plants surveyed: _____ % of plants infested: _____

Parts where pest located

☐ Leaves
☐ Growing tips
☐ Buds
☐ Blossoms
☐ Fruit / Nuts / Seeds
☐ Stem / Trunk
☐ Branches / Twigs
☐ Roots
☐ Tubers / Bulbs

Symptoms

☐ Die back
☐ Leaf discoloration
☐ Leaf drop
☐ Tip burn
☐ Fruit damage
☐ Abnormal growth
☐ Galls
☐ Stunting
☐ Slow decline
☐ Sudden collapse
☐ Other: _____

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ADDITIONAL INFORMATION ABOUT SPECIMEN:



Bring symptomatic plant tissue or arthropod samples to your local county agent. Please use the sample submission form found at www.flfirstdetector.org.

All samples can then be submitted to:

Lyle Buss

University of Florida Insect ID Lab

970 Natural Area Drive

Gainesville, FL 32611

More information on the lab can be found at:

<http://entnemdept.ufl.edu/insectid/index.html>



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Sample Submission Exception

Giant African Land Snail

1. Do not collect live suspect samples.
2. Call the FDACS-DPI Hotline-
888-397-1517



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Collaborating Agencies

- U.S. Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS)
- Cooperative Agricultural Pest Survey Program (CAPS)
- Florida Department of Agriculture and Consumer Services (FDACS)
- National Plant Diagnostic Network (NPDN)
- Sentinel Plant Network (SPN)
- Protect U.S.
- University of Florida Institute of Food and Agricultural Sciences (UF-IFAS)



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