

PLANT AND PEST DIAGNOSTIC CLINIC

CFAES

**THE OHIO STATE UNIVERSITY
COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES**

Ohio State University, CFAES Wooster Campus
Plant & Pest Diagnostic Clinic, 234 Selby Hall 1680
Madison Ave, Wooster OH, 44691

PHONE: 330-263-3721

E-MAIL: ppdc@osu.edu; rotondo.11@osu.edu

WEBSITE: <http://ppdc.osu.edu>

Office Use Only

Sample # _____

Date Rec. _____

Date Comp. _____

Diag. Fee _____

SEND RESULTS TO:

Email Phone Other _____

To Share Results with your County Extension Educator:

Extension Educator: _____

Educator County: _____

Client/ Grower Information:

Name: _____

Company: _____

Address: _____

City, State, Zip: _____

County: _____

Email: _____

Submitter information:

Name: _____

Address: _____

City, State, Zip: _____

County: _____

Email: _____

Submitter:

- Grower/ farmer
- OSU Extension
- Crop consultant
- Home gardener
- Master gardener
- Agribusiness
- Nursery/Greenhouse
- Landscaping/ tree lawn care
- Public Gardens/Arboreta
- Golf Course

BILL TO ADDRESS, if different:

Sample information:

Crop: _____ Varieties: _____

Planting date/ age: _____ Collection date: _____

Production System:

- Open field
 - High tunnel
 - Greenhouse
- If hydroponic, specify the system:

Material submitted:

Entire plant Roots/Bulbs/Rhizomes Twigs Leaves Fruits Flowers Cuttings

Other: _____

Conventional

Organic

Describe problem, symptoms, disease distribution, and other relevant information

When did the symptoms first appear? _____

Did the problem occur before? If yes, when? _____

If yes, previous crop? _____

Treatments applied (Fertilizer, Fungicide, Insecticide, Herbicide, Other):

<u>Material</u>	<u>Rate</u>	<u>Application date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Soil: Clay Sandy Loam Potting mix

Weather conditions: High wind Heavy rain Hail Drought Frost High ozone level

Acres: _____

Number of Plants: _____

Plants affected:
_____ %

Overall leaf area diseased _____ %

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Instructions to collect and submit plant samples to OSU Plant and Pest Diagnostic Clinic

- Carefully examine your plants to accurately assess symptoms and distribution
- Collect a representative symptomatic sample that fully describes the observed problem
- Usually, the entire plant is needed for the most accurate diagnosis. This is especially important with vascular and root rot pathogens. It is important to look at roots and lower stem to have whole picture of the problem.
- Digging out the plant helps to preserve the integrity of the root system
- Submit a generous amount of plant material. If the plants are small (i.e. seedlings), send several plants
- Collect sample early in the day and week
- Do not send dried or dead plants.
- A mixture of living tissue and necrotic tissue is needed to isolate the pathogen and diagnose the disease

For vegetable and ornamental plant samples:

- Place the sample in plastic bag (i.e. Ziploc bag)
- Maintain sample freshness by wrapping the roots with moist (not wet) paper towels
- Leaf samples do not need to be wrapped in paper towels, but should still be in a sealed bag
- For multiple pots or samples, provide sample-packing material so that plants do not topple or soil does not spill out
- Samples from different plant species should be bagged separately
- Label each sample clearly using a waterproof marker or pen

For fruit tree, tree samples:

- For entire plant samples, bag (plastic) the roots and seal at the soil line with a twist tie or a rubber band. Do not cut the root ball off the above-ground plant parts.
- Cover the top plant growth with a second plastic bag.
- For leaf or stem tissue, place the sample in a zip-seal bag as soon as it is collected. Do not use paper bags.
- Separate fruit (i.e. berries, apples, peaches) samples from roots and top growth material. Fruit with tender skin (strawberries, blueberries, currants, raspberries, peaches etc.) should be placed in a paper bag as soon as it is collected. Fruit with a tough skin (grapes, apples, plums, etc.) can be placed in zip-seal bags.

- Place the sample/samples in a box and mail it to our laboratory using next-day or two-day shipping option or deliver the sample in-person
- The box will preserve the integrity of the sample, by preventing it from being crushed
- Rapid shipping options will minimize damage from cold or heat and allow the sample to arrive fresh
- Write “Live plant Sample” on the outside of the box

Our addresses are:

OSU Plant and Pest Diagnostic Clinic
ATTN: Francesca Rotondo
Department of Plant Pathology
Selby Hall – Room 234
1680 Madison Avenue
Wooster, OH, 44391

For **turf** samples:

The Ohio Turfgrass Foundation (OTF) Facility
C/O Todd Hicks
2710 North Star
Columbus, Ohio 43221

For **Nematode Soil Analysis** samples:

OSU Soybean Pathology and Nematology Laboratory
Attn: Horacio Lopez-Nicora
110 Kottman Hall
2021 Coffey Rd.
Columbus, Ohio 43210
lopez-nicora.1@osu.edu

Further information can be found at the following links:

<https://u.osu.edu/fruitpathology/diagnostics/>

<https://u.osu.edu/vegetablepathologylab/diagnostic-submission/>

<https://ppdc.osu.edu/submit-sample>