

Cooperative Extension---The Pennsylvania State University

## *Plant Disease Facts*

Department of Plant Pathology  
University Park, PA 16802

# REFERENCE MATERIAL FOR FLORICULTURAL CROP DISEASES

Gary W. Moorman, Professor of Plant Pathology

It is very helpful to know where information can be obtained to diagnose and learn more about plant diseases.

### THE PENNSYLVANIA STATE UNIVERSITY PUBLICATIONS

Penn State Publication Distribution Office, 112 Ag. Admin. Bldg., University Park, PA 16802

Disease and arthropod management in greenhouses.

This guide covers the biology of the pests and diseases and lists specific chemical and nonchemical control recommendations.

### PENNSYLVANIA DEPARTMENT OF AGRICULTURE PUBLICATION

Regulatory Horticulture. Commonwealth of Pennsylvania, Pennsylvania Department of Agriculture, 2301 N. Cameron St., Harrisburg, PA 17110

### GENERAL PLANT PATHOLOGY REFERENCES

Trigiano, R. N., Windham, M. T., and Windham, A. S. Plant Pathology concepts and laboratory exercises. 2<sup>nd</sup> Ed. CRC Press, Boca Raton. 558 pp.

Agrios, G. N. 1997. Plant pathology. Academic Press, New York. 635 pp.

Barnett, H. L. and B. B. Hunter. 1998. Illustrated genera of imperfect fungi. APS Press. 3340 Pilot Knob Rd., St. Paul, MN 55121 (1-800-328-7560; <http://www.shopapspress.org/>) (For use if you have a microscope.)

### HERBACEOUS PLANT DISEASE REFERENCES

Gleason, M. L., Daughtrey, M. L., Chase, A. R., Moorman, G. W., and Mueller, D. S. 2009. Diseases of herbaceous perennials. APS Press, St. Paul, MN. 281 pp (over 700 color photographs).

Forsberg, J. L. 1979. Diseases of ornamental plants. Special Publication No. 3. University of Illinois at Urbana-Champaign. 222 pp.

Pirone, P. P. 1978. Diseases and pests of ornamental plants. John Wiley & Sons, NY. 566pp.

Diseases of Floral Crops. 1985. D. L. Strider, editor. Praeger Publishers, 521 Fifth Ave., New York, NY 10175. Volumes I, 638 pages and II, 579 pages.

APS Press, 3340 Pilot Knob Rd., St. Paul, MN 55121 (1-800-328-7560; <http://www.shopapspress.org/>)

Jarvis, W. R. 1992. Managing diseases in greenhouse crops. APS Press, St. Paul, MN. 288 pp.

Compendia of diseases of:

Flowering Potted Plants

Rose Diseases

Ornamental Foliage Plants

Chrysanthemums

Rhododendron and azaleas  
Ornamental Palm Diseases and Disorders  
CDs of the photos found in these compendia can be purchased also.

### **WORLD WIDE WEB REFERENCES**

#### **Penn State Plant Pathology ornamental and flower disease fact sheets**

Go to the Penn State home page: <http://www.psu.edu/>  
and search the Penn State Web using key words such as 'poinsettia diseases'

#### **Ohio State University**

<http://www.ag.ohio-state.edu/~plantdoc/>

#### **American Phytopathological Society**

<http://www.scisoc.org/>

### **PLANT DISEASE CLINICS**

#### **Pennsylvania**

Plant Disease Clinic  
Penn State University, Dept. of Plant Pathology  
218 Buckhout Lab.  
University Park, PA 16802-4507

Obtain a diagnosis form and envelop from your County Cooperative Extension office. Fill in the form and mail the sample on a day when it will reach University Park promptly without sitting in a post office over a weekend. Or, send the sample via overnight delivery service. General diagnoses are done at no charge. If forwarded to a commercial lab for virus or other specialized testing, the cost of that testing is passed on to the client.

Pennsylvania Department of Agriculture, Bureau of Plant Industry, 2301 N. Cameron St., Harrisburg, PA 17120.  
Contact your local nursery inspector for a diagnosis or to have a sample submitted to the lab.

#### **New York**

Plant Disease Diagnostic Lab  
321 Plant Science Building, Dept. PPATH  
Cornell University  
Ithaca, NY 14853-4203  
607-255-7850  
All samples require a fee for processing.

#### **New Jersey**

Rutgers Plant Diagnostic Laboratory and Nematode Detection Service  
Samples can be mailed to:  
Plant Diagnostic Laboratory  
Rutgers Cooperative Extension  
P. O. Box 550  
Milltown, NJ 08850-0550  
Delivery services should go to:  
Plant Diagnostic Laboratory  
Rutgers Cooperative Extension  
Bldg. 6020, Dudley Road  
Cook College  
New Brunswick, NJ 08903  
All samples require a fee for processing.

#### **Ohio**

The C. Wayne Ellett Plant and Pest Diagnostic Clinic  
2021 Coffey Rd., Room 110, Kottman Hall  
The Ohio State University  
Columbus, Ohio 43210  
All samples require a fee for processing.

#### **Maryland**

Maryland Cooperative Extension Plant Diag. Lab  
Department of Entomology  
University of Maryland, College Park, MD 20742  
All samples require a fee for processing.

The Maryland Department of Agriculture has both entomology and pathology labs that support the state nursery inspection program.

**West Virginia**

\*Plant Disease Diagnostic Clinic  
401 Brooks Hall, Downtown Campus  
West Virginia University  
Morgantown, WV 26506

304-293-3911

Samples are generally submitted through a county agent but can be sent directly to the clinic at no charge.

**COMMERCIAL DIAGNOSTIC SERVICES and DIAGNOSTIC KITS**  
(contact each to determine what tests are available and the cost per test)

Agdia, Inc. 1-800-622-4342  
30380 County Road 6 e-mail <testing@agdia.com>  
Elkhart, IN 46514 World Wide Web site <<http://www.agdia.com>>  
Samples are tested or the client can purchase kits to do virus and bacteria diagnoses.

Hydros, Inc. 508-540-2229  
230 Jones Road e-mail <[hydros@capecod.net](mailto:hydros@capecod.net)>  
Falmouth, MA World Wide Web site [www.capecod.net/hydros](http://www.capecod.net/hydros)  
Can purchase kits to do virus and bacteria diagnoses.

**DIAGNOSIS EQUIPMENT and SUPPLIES**

Magnifying glasses, pH meters, conductivity meters, field microscopes:

Cole-Parmer Instrument Co 1-800-323-4340  
625 East Bunker Court  
Vernon Hills, IL 60061-1844

Magnifying glasses, pH meters, conductivity meters, field microscopes, clipboards, GPS instruments, data recording supplies, plant presses for drying plant specimens, Riker mounts for displaying flat specimens:

Forestry Supplies, Inc. 1-800-647-5368  
P.O. Box 8397  
Jackson, MS 39284-8397

Ben Meadows Co. 1-800-241-6401  
3589 Broad St. World Wide Web <[www.benmeadows.com](http://www.benmeadows.com)>  
Atlanta, GA 30341 Internet <[mail@benmeadows.com](mailto:mail@benmeadows.com)>

**PESTICIDE REFERENCE MANUAL**

Farm Chemicals Handbook Internet <[fchb\\_circ@meisterpubl.com](mailto:fchb_circ@meisterpubl.com)>  
Meister Publishing Co. 216-942-2000  
37733 Euclid Avenue  
Willoughby, OH 44094-5992

**THE PENNSYLVANIA STATE UNIVERSITY COURSE**

PPATH 300, Diseases of Horticultural Crops, is a completely online 3 credit course available through Penn State University during the Fall semester each year.

NOTICE: THE USER OF THIS INFORMATION ASSUMES ALL RISKS FOR PERSONAL INJURY OR PROPERTY DAMAGE. WARNING! PESTICIDES ARE POISONOUS. READ AND FOLLOW ALL DIRECTIONS AND SAFETY PRECAUTIONS ON LABELS. HANDLE CAREFULLY AND STORE IN ORIGINAL LABELED CONTAINERS OUT OF THE REACH OF CHILDREN, PETS, AND LIVESTOCK. DISPOSE OF EMPTY CONTAINERS RIGHT AWAY, IN A SAFE MANNER AND PLACE. DO NOT CONTAMINATE FORAGE, STREAMS OR PONDS.

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