Resources for scouting and how to find them

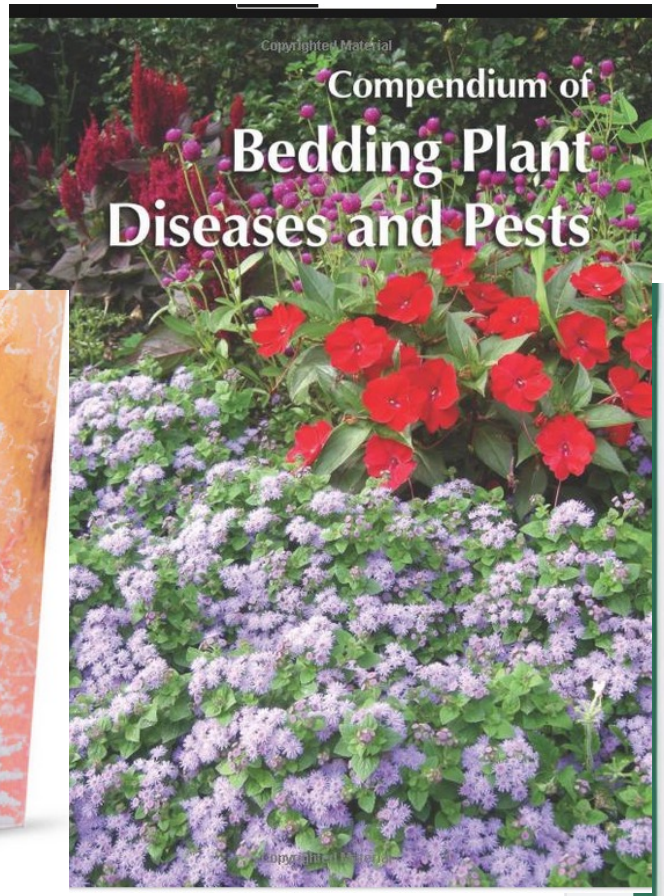
Week 3 Greenhouse Scout School

Elizabeth Lamb

New York State Integrated Pest Management Program
Cornell University Cooperative Extension
Cornell Cooperative Extension provides equal program and employment opportunity.

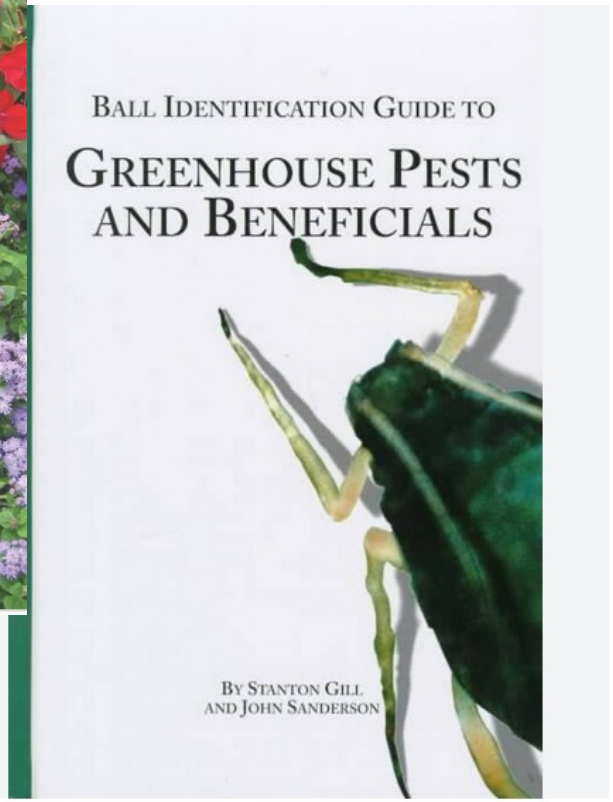
A few good books

Koppert



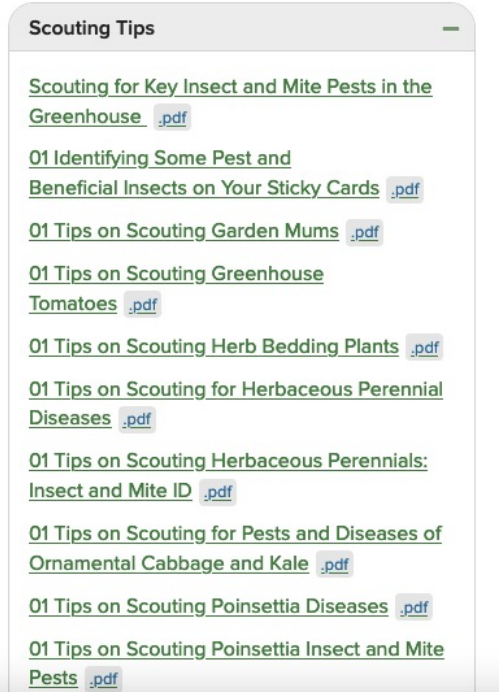
American
Phytopathological Society

Ball Publishing



University websites

https://www.uvm.edu/~entlab/Greenhouse%20IPM/Scouting.html



There is lots of poor quality information on the internet. Look for .edu websites

https://ipm.cahnr.uconn.edu/greenhouse-publications/

Fact sheets

https://ag.umass.edu/greenhouse-floriculture/fact-sheets/diagnosing-plant-diseases-of-floricultural-crops

Center for Agriculture, Food, and the Environment

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UMass Extension Greenhouse Crops and Floriculture Program

Floriculture Home | About | Fact Sheets | Greenhouse Updates | Publications & Resources | Research | Education & Events | Make a Gift

Fact Sheets

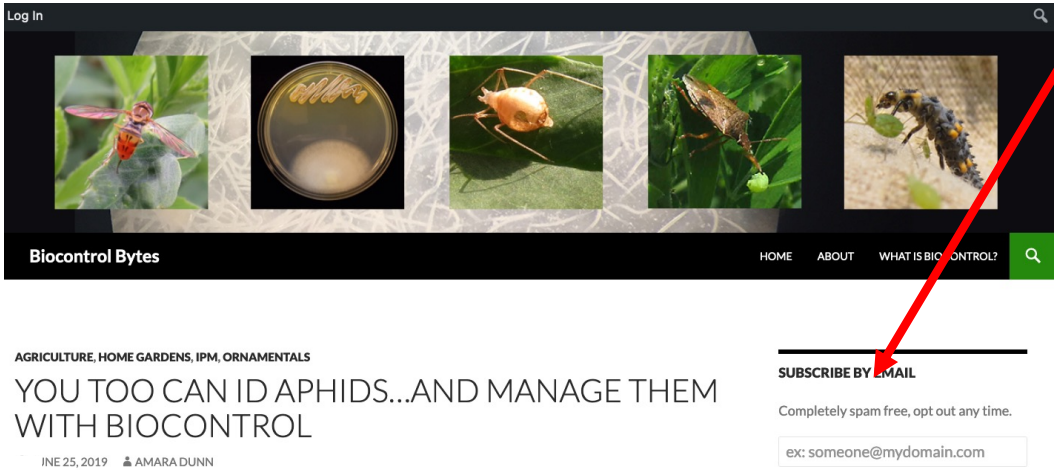
- Business Management
- Crops
- Diseases
- Energy
- Greenhouse Management
- Greenhouse Engineering
- Insects and Mites
- Integrated Pest Management
- Plant Nutrition
- Weeds
- Wildlife Management
- En Español

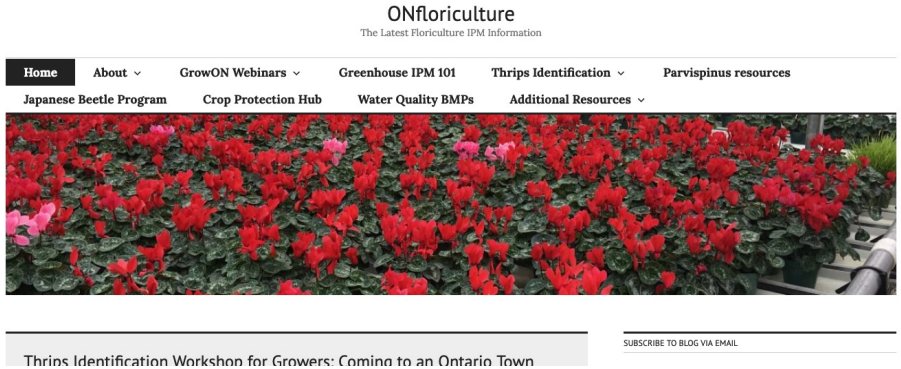
Diagnosing Plant Diseases of Floricultural Crops

An accurate diagnosis of disease is important for successful implementation of an IPM program. Different pathogens are controlled by different fungicide chemistries. Bacterial diseases are not controlled with fungicides, and some bacterial diseases are easily mistaken for fungal diseases. Some fungicides have a narrow spectrum of activity. Abiotic factors such as high soluble salts, nutrient imbalances, or chemcial injury can mimic the symptoms of plant pathogens. In addition, if you know the disease, you can usually find information regarding the environmental conditions necessary for disease development. You could also find out if the pathogen is seed-borne, soil-borne, and whether other crops in the greenhouse are susceptible.

The ability to make an accurate diagnosis on-site is dependent on a disease that has unique symptoms. Also, the grower needs to have previously identified the problem, or have a good illustration or written description. There are a number of diseases that can be easily identified on-site, and there are many that can only be diagnosed in a lab. If you are a Massachusetts commercial flower grower and are unsure of the cause of symptoms, you can send a specimen to the UMass Extension Plant Diagnostic Lab.

Blogs and newsletters and things you can subscribe to



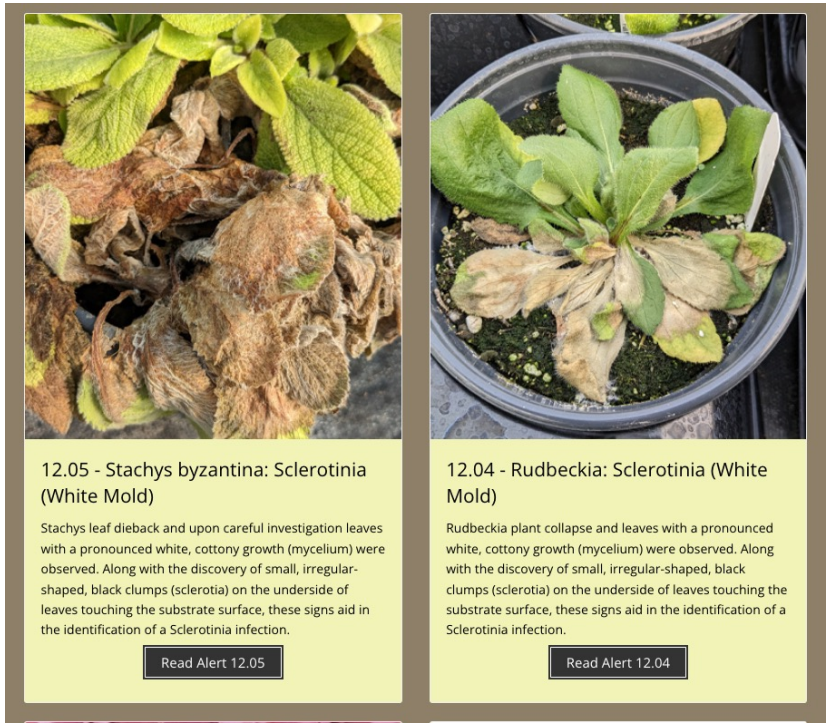


Up to date information

e-GRO
Electronic Growers Resources Online

Fact sheets
Pest alerts

https://www.e-gro.org/



Trade journals and newsletters

On-line or in your mailbox

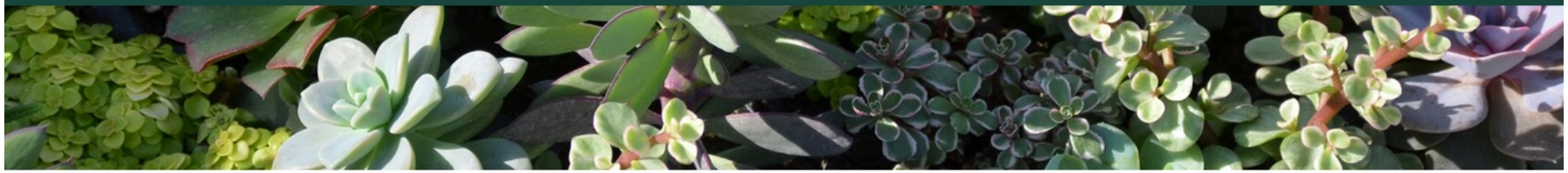
GrowerTalks
GPN
Greenhouse Canada
Ball Hort newsletters

Webinars

- Grow-ON
- E-GRO

- Sometimes they are archived on the website

https://onfloriculture.com/



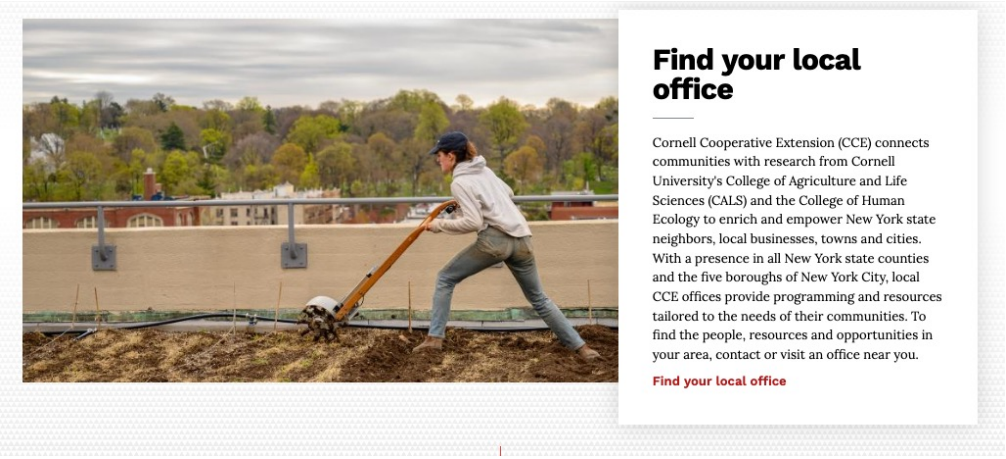
New educational video series on Greenhouse Biological Control released by MSU Extension

Jeremy Jubenville and Heidi Lindberg, Michigan State University Extension - March 11, 2025

> Start your journey toward effective biological control today!

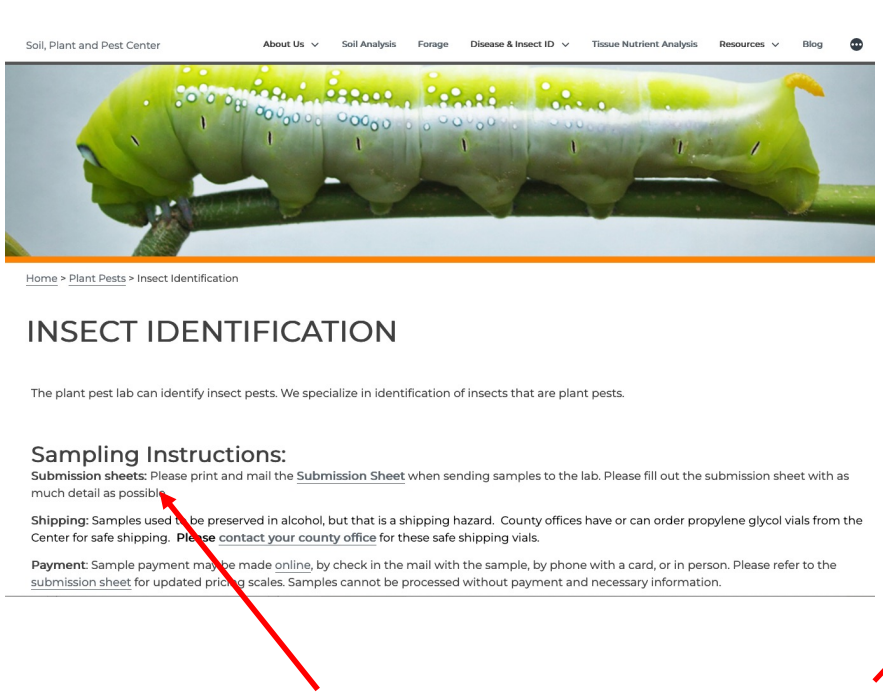
But I want to actually talk to someone!

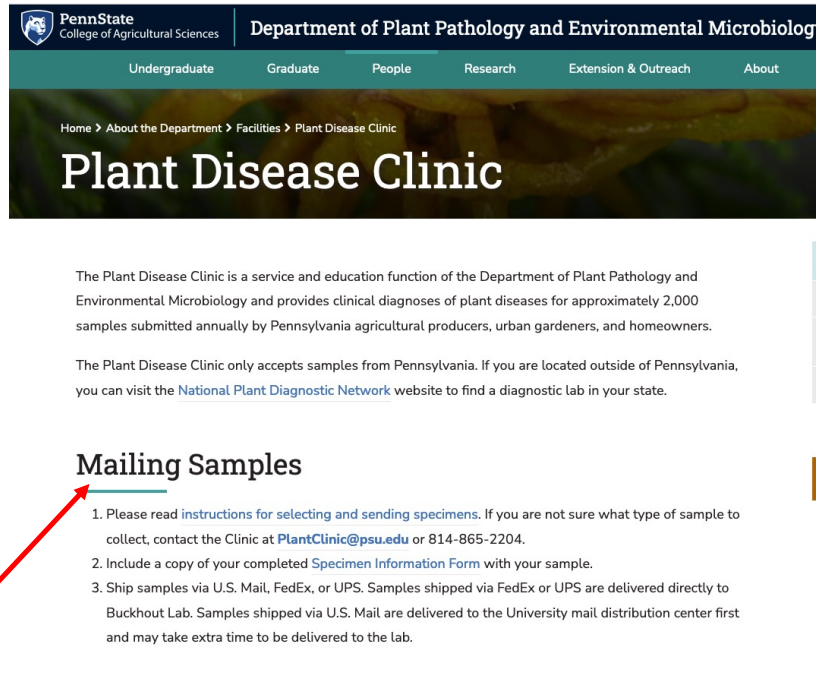
- Cooperative Extension
  - Depending on the state, there may be an office in each county
  - They may or may not have someone who specializes in greenhouse production
  - But they can usually help you find someone
- University faculty who work on the organism or production system
  - Doesn’t have to be your state



Getting an accurate diagnosis

- University or private plant disease and insect diagnostic labs





What's this?

Taking good pictures

- There are a lot of websites out there with suggestions on smartphone photography
- There are some tricks
- Take more pictures than you think necessary
- Take pictures of the whole plant/whole greenhouse, etc. to get an idea of the spread of the damage and patterns

https://olddesignshop.com/2014/06/seroco-camera-free-vintage-clip-art/

From Perennial Pulse – Paul Pilon

Plant sample diagnosis

Plant Diagnostic Sample Submission

Developed by: Incubed
Countries: Canada,US
Languages: English

☆☆☆☆☆

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