Mistaken Identities

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Random plant inspections

Scouting Techniques

Use of Sticky Cards



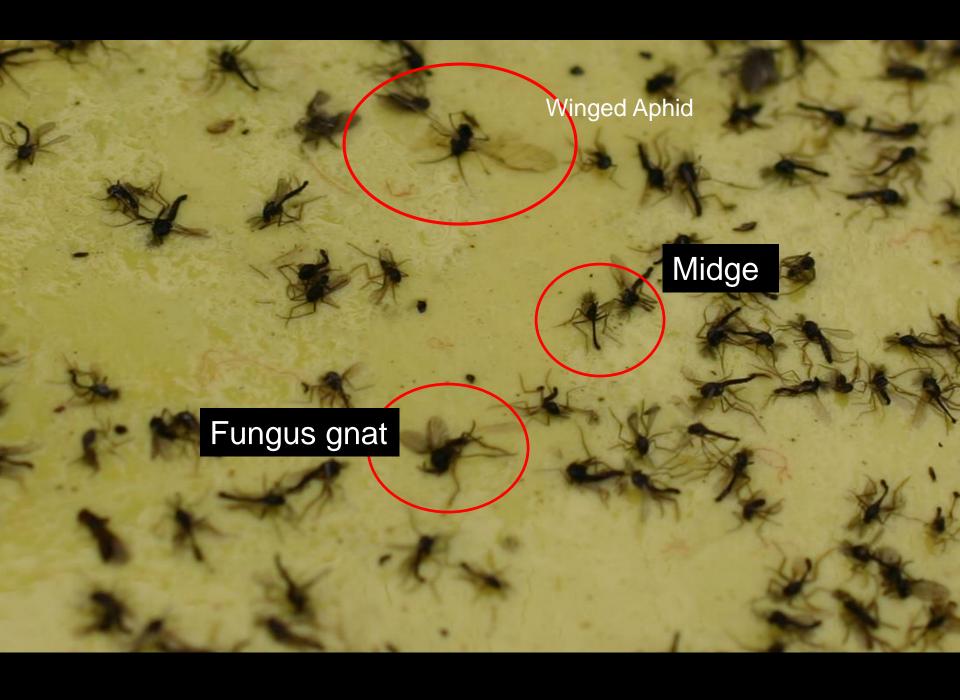
Impaired Roots & Stems





1/4 inch long, opaque to white, black headed legless larva that feeds on young roots.





Shore Flies



Shore Flies



Hunter Fly





Hunter flies have clear wings with no spots and are about twice the size of shore flies.

Drain or Moth Flies





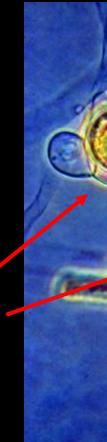
Pythium Root Rot- Poinsettia



Diagnostic Characteristics of Pythium



Root infected with *Pythium*





Oospores

S. Douglas



Black Root Rot

Pythium





Pythium





Anthracnose (Colletotrichum)

Fruiting Structures



Black Root Rot

Wash off roots to see black streaks



Black Root Rot



Thick walled overwintering spores (chlamydospores) resemble "tootsie-rolls" when viewed under the microscope.



High salts







Impatiens Necrotic **Spot Virus**

Agdia Immuno Strip Test

SEB1, Sample extract pouch Contains SEB1. Store at +4° C. agdia" FOR TESTING USE **Control line= test working** Line = positive test L. Pundt, UConn

Tests can be completed in your office in as little as 20 minutes. www.agdia.com

Web Blights



Rhizoctonia web blight

Sclerotium Crown Rot









Rhizoctonia



Diagnostic right angled branching of *Rhizoctonia* viewed under the microscope.



Sclerotium Crown Rot

Sclerotia



Spots on Leaves



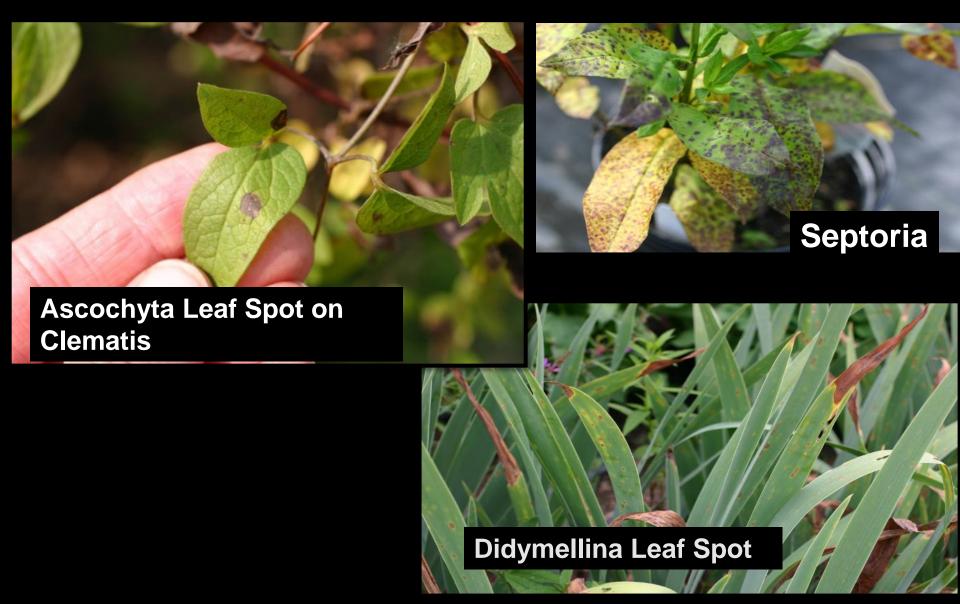
Four Lined Plant Bug Damage

Red headed Flea Beetle Damage





Fungal Leaf Spots









Bacterial Leaf Spot on *Heuchera*

Foliar Nematode Injury On *Heuchera*



Mildews



Downy Mildew



Powdery Mildew



Rob Wick images

Downy Mildew



Argyranthemum





Botrytis



Downy Mildew on Lamium

Foliar Nematodes





Downy Mildew





Chasmothecia – found outdoors that help powdery mildew overwinter



Powdery Mildew

Spray Damage



Distorted Leaves



Aphids









Shiny light yellowish green aphid with dark green patches at the base of the cornicles, and black markings on legs & antennae.



Aphids feeding on the underside of basil leaves.

Green Peach Aphid

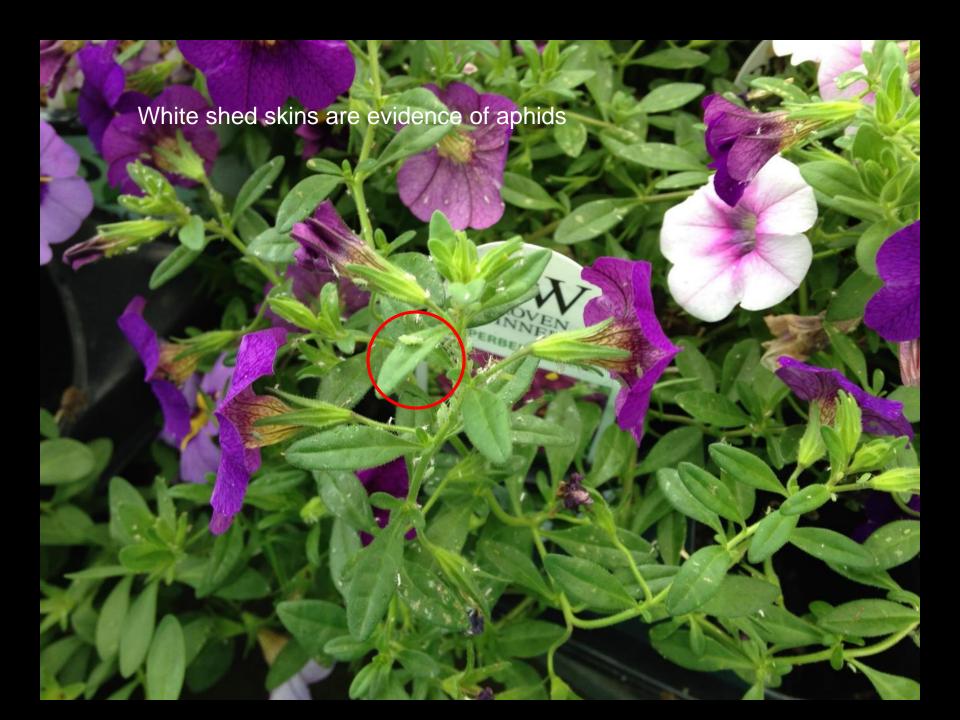


Look for a pronounced indentation between the base of the antennae, with protusions that aim toward each other.

Melon Aphids



Light green, dark green to yellow to dark olive melon aphids have short, entirely black cornicles.











Broad Mites

No Broad Mites found





Broad Mites

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Boron Deficiency



Outer leaf edges turn downward. Broad mite's toxic saliva causes twisted, hardened, distorted tip growth.



Use a dissecting microscope to look for the very small, broad mites.

Note: the elliptical, translucent, colorless eggs are covered with whitish bumps

Speckled Leaves



Iron Manganese Toxicity

Spider Mites





Spider Mites

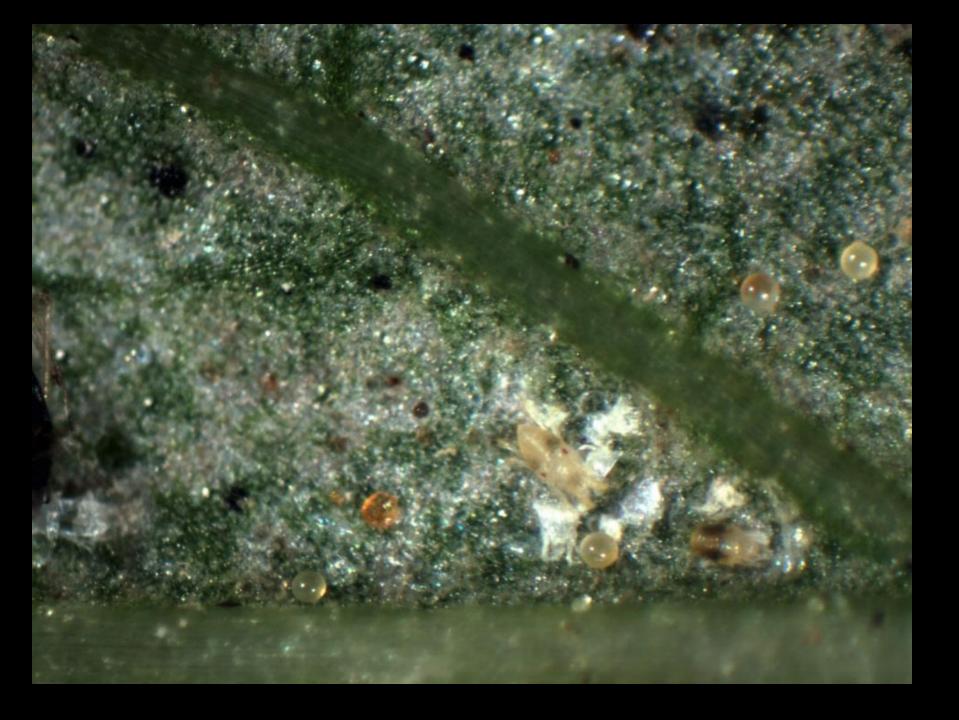
Oedema













Webbing develops with High populations of spider mites



Diagnostic Laboratories in CT

- CT Ag Experiment Station
- http://www.ct.gov/caes/site/default.asp
- New Haven: 203-974-8601
- Windsor: 860-683-4977
- UConn Plant Diagnostic Laboratory, Storrs, CT
- http://plant.lab.uconn.edu/
- 860-486-6740

What's Working?

- Rutgers IR 4 program searchable database for reports
- http://ir4.rutgers.edu/
- Chase Agricultural Consulting
- http://chaseagri.com/
- E-Gro Alerts: http://e-gro.org/index.php
- 2016 Guide to Ornamental Fungicides (Syngenta)

In Summary

- Look closely
- Don't jump to conclusions
- Obtain proper diagnosis
- Mistakes cost time and money!

