What's Bugging You?

Jim Jacobi
Extension Plant Pathologist

First Identify the Problem

Slime Mold (Fuligo septica) Japanese Maple (May 21, 2018)

Integrated Pest Management (IPM)

• Combines multiple strategies for controlling insect pests and disease
• IPM always begins with accurate pest identification. Good bug or bad bug?

Integrated Pest Management (IPM)

• Use pesticides only if nonchemical controls aren't effective.
• If pesticides are needed, use least toxic products first (soaps, oils, microbial such as Bt and spinosad).
• Less toxic to beneficial organisms.

'Knock Out' Rose

'Knock Out' Rose
Rose Sawfly (aka Rose Slug)

"Knock Out" Rose

April 18, 2018

Eriophid Mites are the Vector for the Rose Rosette Virus

Spread of Rose Rosette

Rose Rosette Disease

Infected roses should be removed immediately to prevent rapid spread and loss of all roses in a planting.
Bigleaf Hydrangea Leaf Spot

- Provide adequate plant spacing for good air circulation
- Avoid watering late in the day
- Remove fallen leaves
- Apply fungicide at first sign of disease
- Spectricide Immunox Garden Tech Daconil, Ortho Garden Disease Control

Leyland Cypress
October 31, 2017
Passalora Needle Blight Control Options

- Remove and dispose of infected branches or heavily disease trees
- Fungicides: Spectricide Immunox Garden Tech Daconil, Ortho Garden Disease Control
- Begin Fungicide applications by July 1 continue through October. Every 7-14 days
Weeping Conk (*Inonotus dryadeus*)

Water Oak
November 14, 2017

Willow Oak
September 11, 2018

Blackjack Oak
August 10, 2018

Blackjack Oak
August 10, 2018

Blackjack Oak
August 10, 2018

Blackjack Oak
August 10, 2018
Emerald Ash Borer

- Small insect – 1/2" long x 1/16" wide
- Wing covers, abdomen and head are iridescent green
- Coppery purple/red body under the wings

Photo from https://datcpservices.wisconsin.gov/eab

EAB Larvae

- Tunnels beneath bark
- Distinct, S-shaped paths
- Larval galleries filled with frass
- D-shaped exit holes

D-Shaped Exit Holes

Southern Magnolia
Landscape Mulch
August 30, 2018

Landscape Mulch
April 3, 2018

Asian Pear
May 23, 2018

Cedar-Quince Rust

Hawthorn

Crape Myrtle

Crape Myrtle
Asian or Granulate Ambrosia Beetle

Basil

Basil

Downy Mildew
Use less susceptible varieties,
Plant early,
Removed affected plants,
Difficult to control with fungicides

Sooty Mold
Crape Myrtle Aphids

Crape Myrtle
11/14/2018

Sooty Mold
Asian Wooly Hackberry Aphids

Crape Myrtle Bark Scale
New Pest

Crape Myrtle Bark Scale

Tea Scale
Henry anise-tree (Illicium henryi)
Tea Scale

- Most common on camellia, holly, and anise
- Horticultural oil targeting crawlers during growing season
  - First crawler emergence is April-May (2-3 generations/yr.)
- Bonide Systemic Insect Control (acephate)
- Acetamiprid (Ortho Flower, Fruit, and Vegetable Insect Killer) Translaminar Systemic
- Ortho Tree & Shrub Insect Control (Dinotefuran)

Questions?