**Plant Disease Management**

**Definition**
- Anything that you can do to reduce the impact of disease
- Integrated with other types of management

**Plant Disease Management**

**Diagnosis**
- First step in successful management
- Recognition that something is wrong
- Detective work to figure out what happened and why something happened

**Plant Disease Management**

**R-E-P-E-A-T**
- Resistance
- Exclusion
- Protection
- Eradication
- Avoidance
- Therapy

**Plant Disease Management**

**Resistance**
- Using a plant's natural ability to fend off disease

**Resistance**
- Resistance is NOT universal!
Resistance is NOT immunity!

Resistance can depend on plant “age” and plant part!

Resistance effectiveness can depend on the weather!

Resistance may not be equally effective in all locations!

Resistance is sometimes NOT forever!

Resistance is not everything you may need in a plant!
Plant Disease Management

**Resistance**
- Resistance is not always good!

**Exclusion**
- Preventing introduction of pathogens into your garden

**Exclusion**
- Buy healthy plants!

**Exclusion**
- Buy healthy seeds!

**Exclusion**
- Limit soil movement!

**Exclusion**
- Limit other pathogen introductions!
Plant Disease Management

**Exclusion**
- Decontaminate, decontaminate, decontaminate!

**Protection**
- Applying materials to prevent infections by pathogens from occurring

**Protection**
- Use as a last resort!
- Read pesticide labels!
- Use proper rates!
- Apply at the right times!
- Wear appropriate clothing!
- Alternate active ingredients!
- Get training!

**Eradication**
- Getting rid of pathogens once they have arrived in your garden

**Eradication**
- Do good fall clean-up!
- Prune diseased branches!
Plant Disease Management

**Eradication**

- Remove entire plants!

- Control alternate hosts!

- Control weeds!

- Rotate, rotate, rotate!

- Decontaminate, decontaminate, decontaminate!

- Manipulating how you grow your plants to prevent conditions favorable for disease
Plant Disease Management Avoidance

- DO NOT plant susceptible plants where a known disease exists!

- DO NOT plant too early or too deeply!

- DO NOT plant too densely!

- DO NOT water too much!

- DO NOT use sprinklers to water!

- DO NOT water, heat or nutrient stress plants!
**Plant Disease Management**

**Therapy**

- Eliminating pathogens from infected plants

**Putting It All Together**

- Figure out what diseases you have
- Figure out what management techniques work
- Integrate your disease management with other management needs
- DO NOT expect perfection
- Enjoy your garden (including the diseases)

**Where to Go for Help**

Plant Disease Diagnostics Clinic
Department of Plant Pathology
University of Wisconsin-Madison
1630 Linden Drive
Madison, WI 53706-1598
(608) 262-2863
pddc@wisc.edu
http://pddc.wisc.edu
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