### 2026 PDDC Plant Disease Talks

Growing Healthy Plants
Basics in Plant Disease Management

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# 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

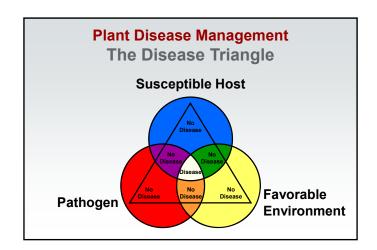
- · First step in successful management
- · Recognition that something is wrong





 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
...













# Plant Disease Management Resistance

• Resistance is NOT universal!











### Plant Disease Management

Resistance

Resistance is NOT immunity!





### Plant Disease Management

Resistance

 Resistance can depend on plant "age" and plant part!







### Plant Disease Management

Resistance

 Resistance effectiveness can depend on the weather!







### **Plant Disease Management**

Resistance

 Resistance may not be equally effective in all locations!





### **Plant Disease Management**

Resistance

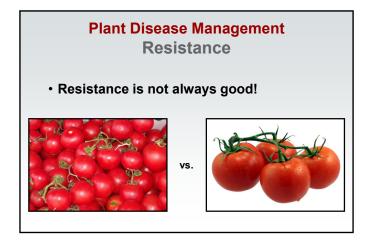
· Resistance is sometimes NOT forever!







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

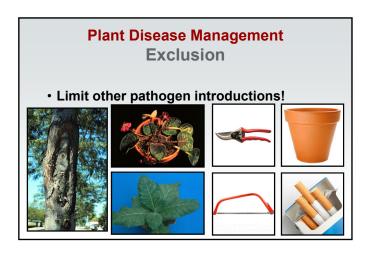


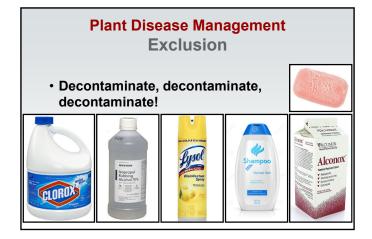












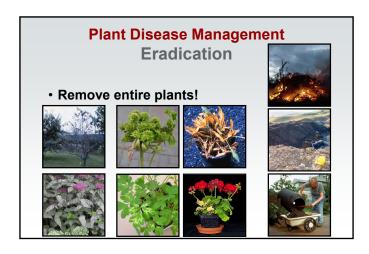


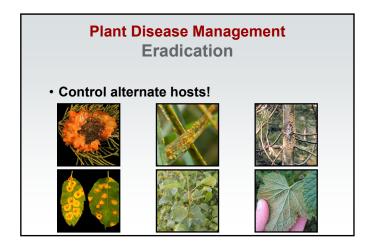


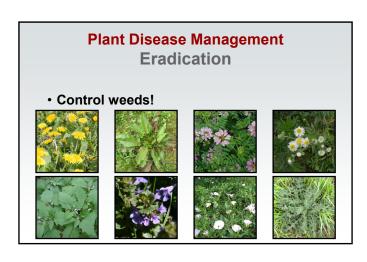


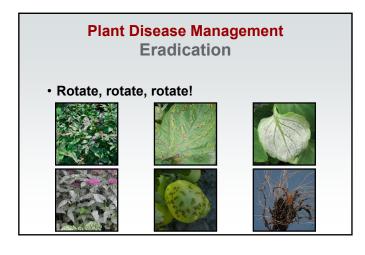














### **Plant Disease Management Avoidance**

 Manipulating how you grow your plants to prevent conditions favorable for disease









### **Plant Disease Management** Avoidance

• DO NOT plant susceptible plants where a













### **Plant Disease Management Avoidance**

• DO NOT plant too early or too deeply!





### **Plant Disease Management**

**Avoidance** 

• DO NOT plant too densely!







### **Plant Disease Management**

Avoidance

• DO NOT water too much!







### **Plant Disease Management Avoidance**

DO NOT use sprinklers to water!

















# Plant Disease Management Avoidance

DO NOT water, heat or nutrient stress plants!







# Plant Disease Management Therapy

 Eliminating pathogens from infected plants





# Plant Disease Management 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)

### **Plant Disease Management**

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 https://pddc.wisc.edu

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