Lac Courte Oreilles Ojibwa College

Growing Healthy PlantsBasics 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

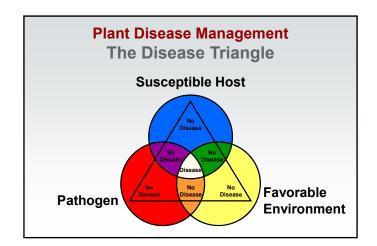
- · First step in successful management
- · Recognition that something is wrong





 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 disease











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!



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Plant Disease Management

Resistance

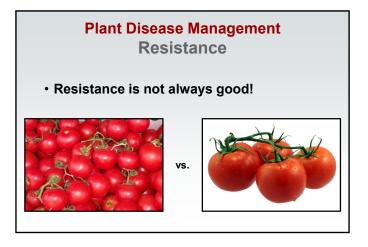
· Resistance is sometimes NOT forever!





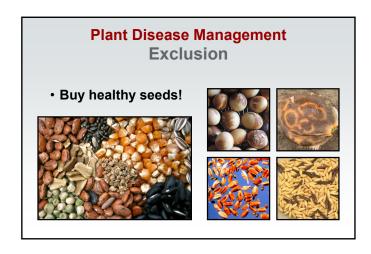


Plant Disease Management Resistance • Resistance is not everything you may need in a plant!

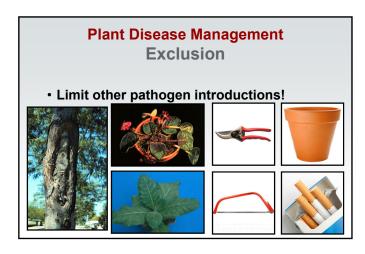








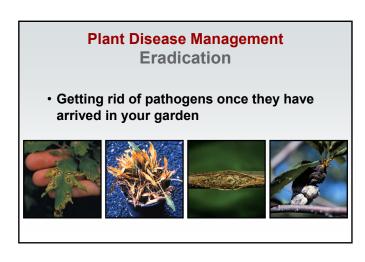




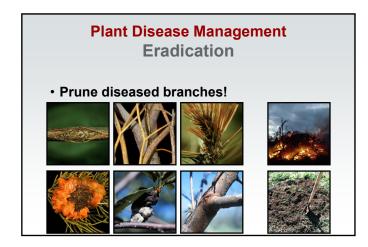


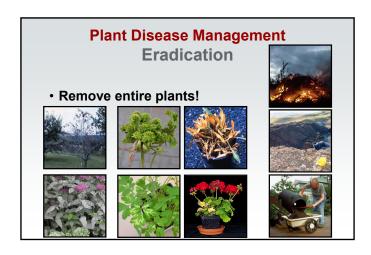


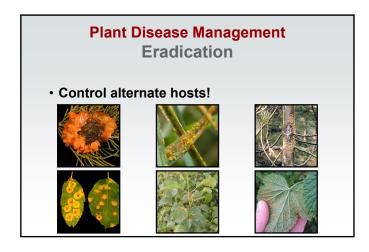


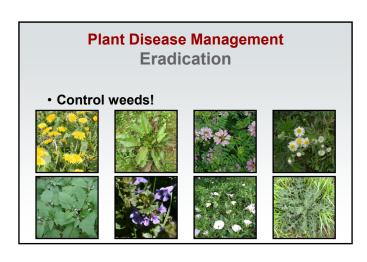


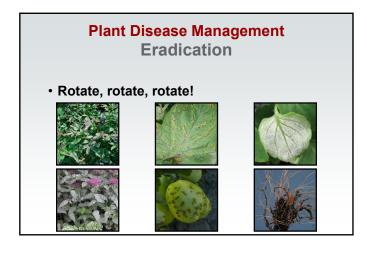














Plant Disease Management Avoidance

 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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