Hort 375: Planting for a Greener World

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

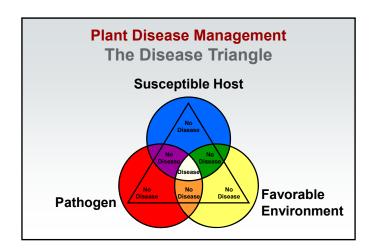
- · First step in successful management
- · Recognition that something is wrong





 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 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!





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 Resistance

· Resistance is not always good!





Plant Disease Management Exclusion

• Preventing introduction of pathogens into you garden









Plant Disease Management Exclusion

• Buy healthy plants!











Plant Disease Management Exclusion

Buy healthy seeds!







Limit soil movement!





Plant Disease Management

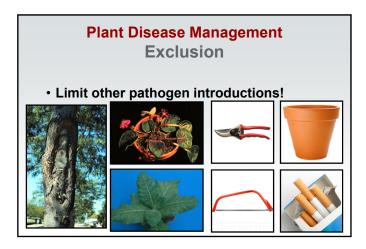
Exclusion











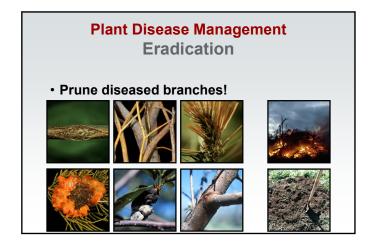


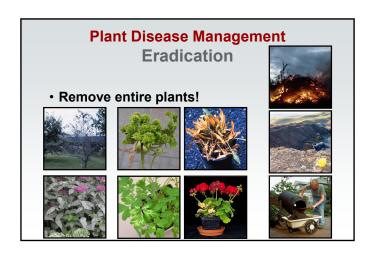


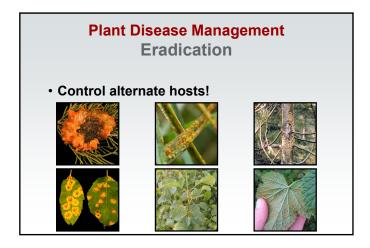


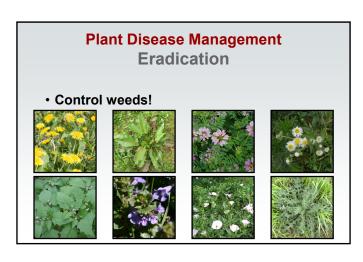


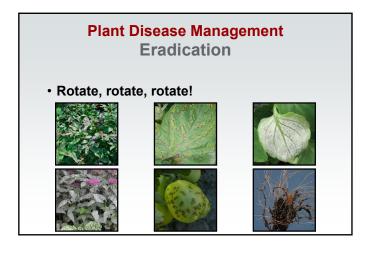














Plant Disease Management Avoidance

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



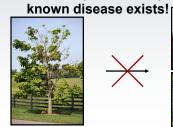






Plant Disease Management Avoidance

• 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 growing your plants (including the diseases)

Plant Disease Management Where to Go for Help

Plant Disease Diagnostics Clinic
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