

Common Plant Problems



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Damping-off

- Germinating seeds & seedlings
- Spring disease
- Wet conditions
- **Symptoms:**
 - Water-soaked lesion at soil-line
 - Top quickly wilts & dies



Slug Damage

- Feed on plants
- May eat entire seedling
- Leave slime trail



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Spider Mites



Leaf Spots

Fungal

- Dry appearance
- Tan or gray in color
- Dark “pimples”



Bacterial

- Dark green, water-soaked
- Yellow border



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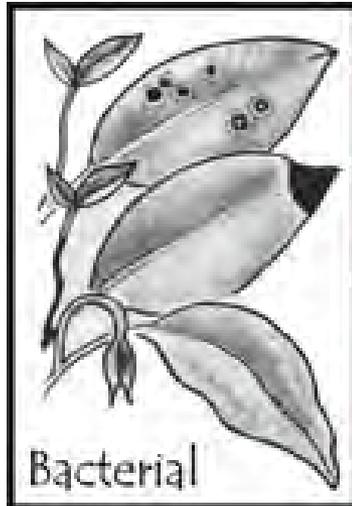
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Bacterial or Fungal?



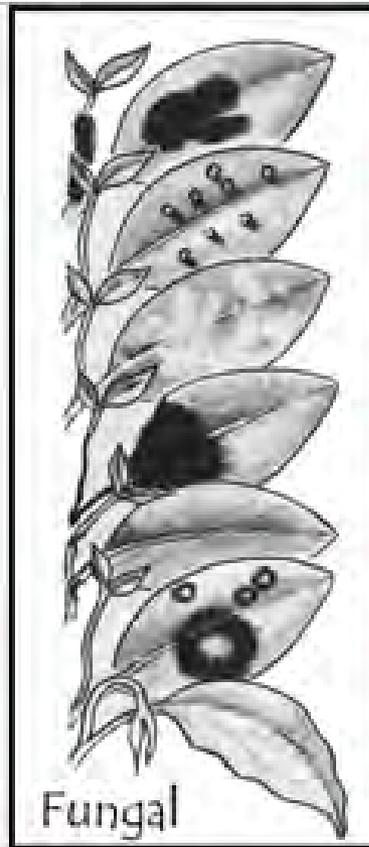
Who caused this leaf spot?



- ← spots
- ← soft spots
- ← wilts

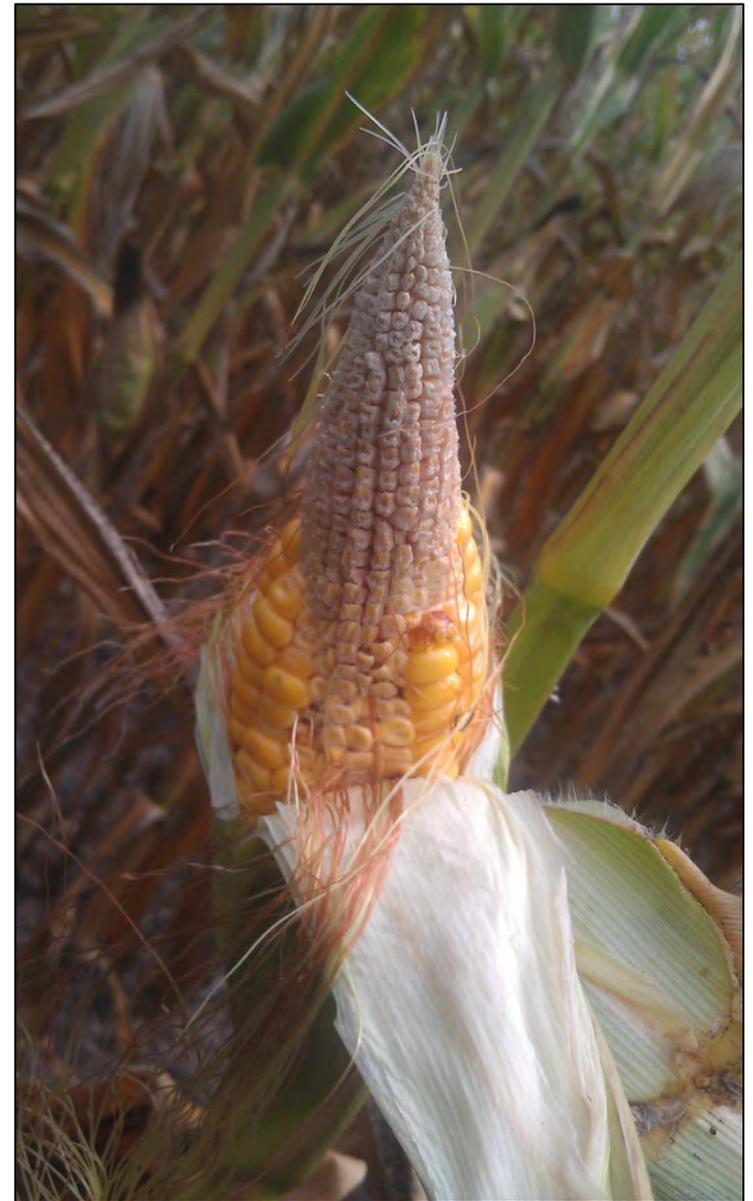


- ← mottling
- ← distortion
- ← dwarfing



- ← sooty molds
- ← rusts
- ← mildews
- ← rots
- ← cankers
- ← spots
- ← wilts

Poor Pollination



Herbicide Injury



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Sapsucker/Woodpecker



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Corn Smut



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Downy Mildew

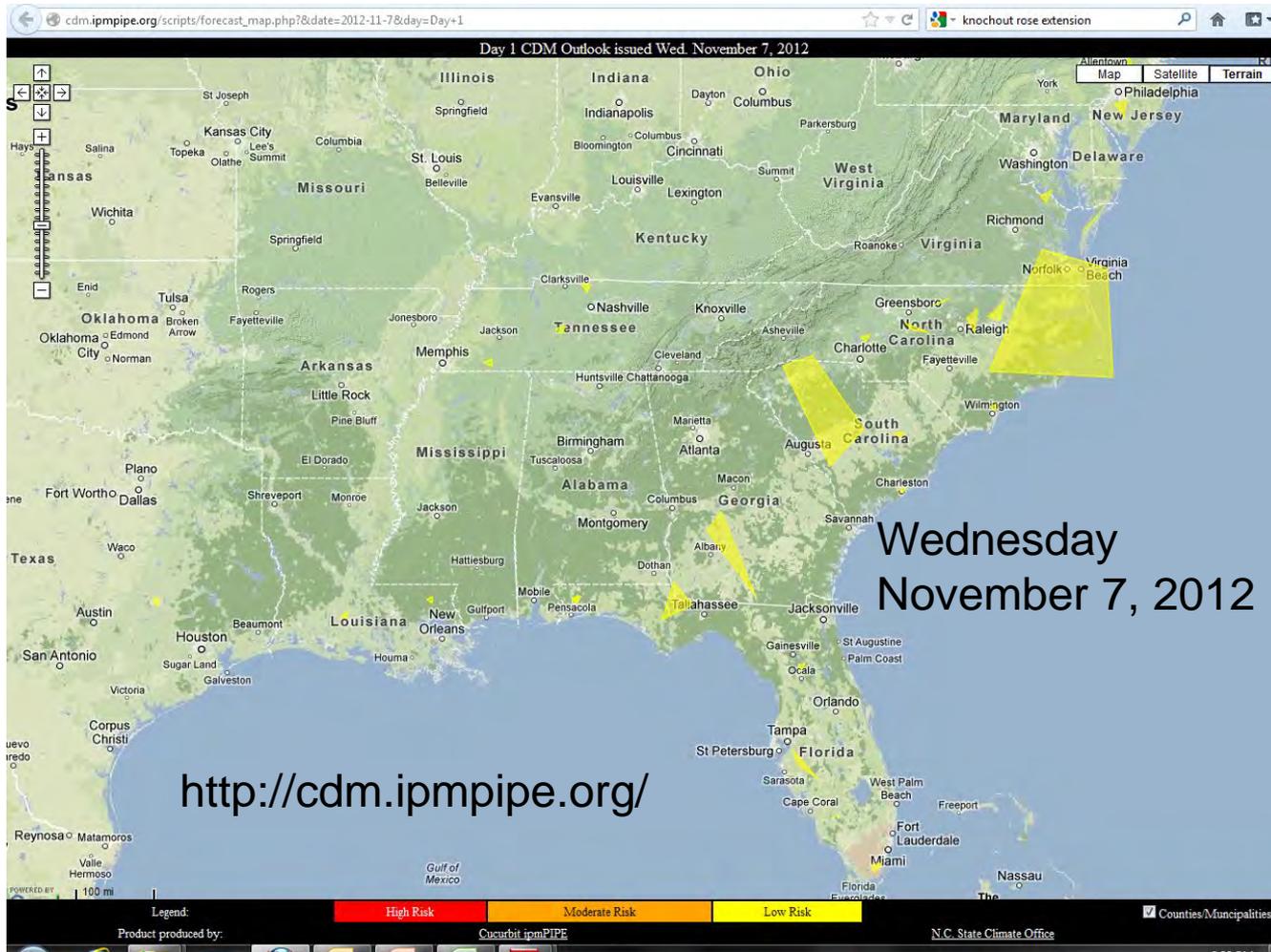


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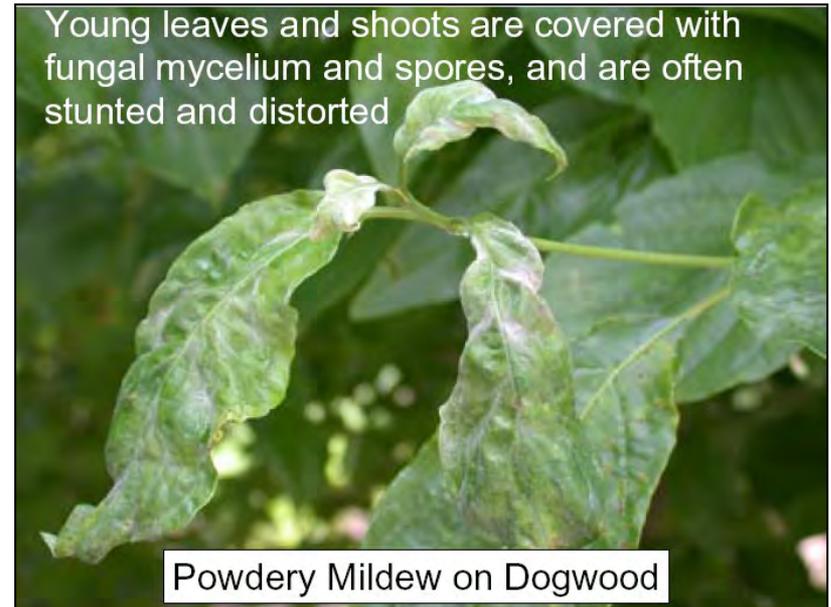
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Forecasting Downy Mildew



Powdery Mildew

- **Symptoms:** white powder on leaves, stunting, curling/drying of leaves, malformed buds



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Cucumber Beetle

- Attacks cucurbits, beans, corn, peanuts, potatoes, etc...
- **Damage:** seedling destruction, flower/foilage damage, root feeding, & disease transmission



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Squash Bugs

- Pest of cucurbits, esp. squash & pumpkins
- 2-3 generations/year
- Damage: vine wilt & death, disease transmission



Colorado Potato Beetle

- Major pest of nightshade family
- Overwinters in soil as adult
- Severe defoliation
- Control: crop rotation, insecticides



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Flea Beetles



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Blossom End Rot



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Sunscald



Brown Marmorated Stink Bug

- Native to Asia
- Found in VA in 2004
- Pest of tree fruits, vegetables & field crops



Stink Bug Damage



Rust

- Fungal
- Some require alternate host



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Hollyhock Rust



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Fire Blight

- Bacterial: *Erwinia amylovora*
- Rose family
- **Symptoms:** flame-scorched, shepherd's hook



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Codling Moth



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Brown Rot



Black Knot



Peach Tree Borer



Mechanical



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Root Damage



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Root Damage



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Sooty Mold



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Crown Gall

- Bacterial (*Agrobacterium tumefaciens*)
- Easily transmitted between plants
- **Symptoms:** abnormal growth



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Other Galls



Lichens



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Root Rots

- Many causal organisms (*Pythium*, *Phytophthora*,...)
- **Symptoms:** limp, soggy or dark-colored roots



Leafminer



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Juniper Twig Blight

- **Symptoms:** browning/dieback of young leaves and twigs
- Cool, moist conditions



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Entomosporium leaf spot



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Azalea Lace Bug



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Black Spot on Rose



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Rose Rosette



Questions?



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