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Management of Blight



- Resistant species and cultivars
- Maintain plant vigor
- Protect trees from winter injury and insect damage
- Prune, remove, and destroy diseased portions
- Proper spacing
- Fungicide application

CAES

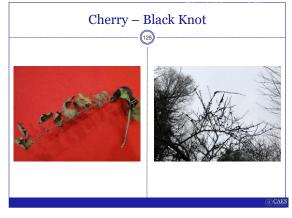
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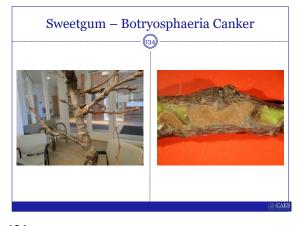




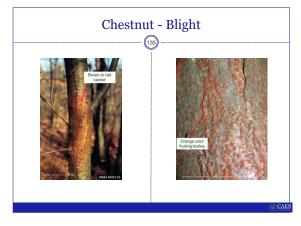
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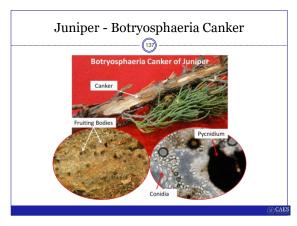




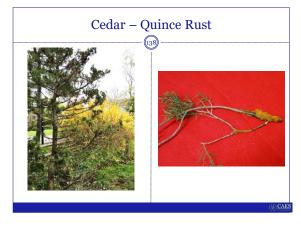
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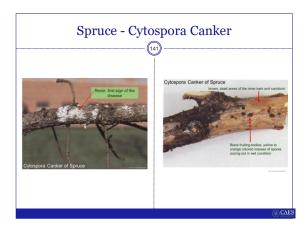
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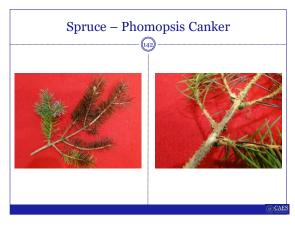






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Development of Canker Diseases



- Locally infected
- Stems or branches
- Weak parasites
- Infect through injury (frost, pruning wounds, broken branches, and insect injury)
- Overwinter on infected trees (perennial)
- Transmitted through water splash, insect, and pruning tools

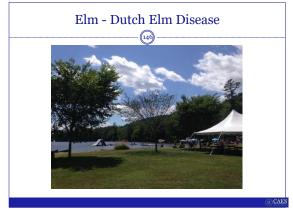
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Management of Canker Diseases



- No effective fungicide treatments
- Prune and destroy symptomatic branches
- Avoid wounds and pay careful attention to pruning techniques
- Maintain tree vigor by managing water and nutrients





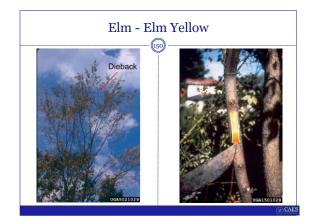
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Development of Vascular Diseases



- Systemic diseases
- Infected through wounds on roots, stems, or branches
- Survive and overwinter in infected trees and soil
- Transmitted via soil, insect, pruning tools, or root grafts

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Management of Vascular Diseases



- Plant resistant species/varieties when possible
- Maintain plant vigor by cultural practices
- Select appropriate planting sites
- Prune/remove affected branches/limbs (DED)
- · Avoid pruning trees in late spring and summer
- · Disinfect pruning tools
- Control insects
- · Apply fungicides by using injections

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Forsythia – Phytophthora Root Rot



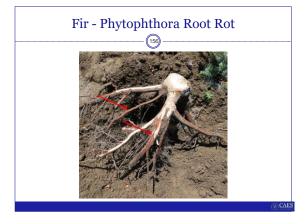


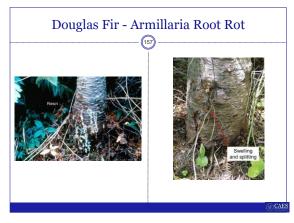
(A)CAI

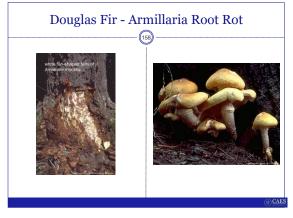




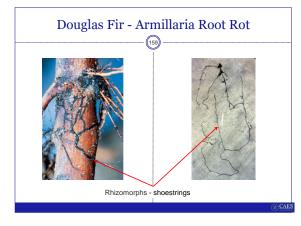
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Development of Root Rot Diseases



- Overwinter in diseased roots and soil
- Transmitted via soil, running water, insects
- Favored by poorly drained compacted soil

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Management of Root Rot Diseases



- No cures once infected
- Avoid soil moisture extremes (drought or wet)
- Maintain tree vigor
- Remove and destroy affected trees
- Use resistant species
- Fungicide injection or drench

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