

Deciduous Tree Leaf Disease Quick Reference

Brian Hudelson, UW-Madison Plant Pathology



Anthracnose

Hosts: Most trees, commonly ash, maple and oak

Pathogens: Gloeosporium spp. as well as other fungi

Signs/Symptoms: Blotchy dead areas on leaves

For more information see: UW Garden Facts XHT1001a/b/c



Purple-Bordered Leaf Spot

Host: Amur, Japanese, red, silver and sugar maple

Pathogen: Phyllosticta minima

Signs/Symptoms: Discrete, circular leaf spots with purple borders

For more information see: UW Garden Facts XHT1149



Tubakia (Actinopelte) Leaf Spot

Hosts: Oak

Pathogen: Tubakia spp. (Actinopelte spp.)

Signs/Symptoms: Discrete circular, or irregular blotchy dead areas on leaves

For more information see: UW Garden Facts XHT1104



Scab

Hosts: Apple, crabapple, pear, mountain-ash

Pathogen: Venturia inaequalis

Signs/Symptoms: Circular, black leaf spots with feathery edges; eventual leaf loss

For more information see: UW Garden Facts XHT1007a/b



Cedar-Apple Rust

Hosts: Apple, crabapple, hawthorn

Pathogens: Gymnosporangium spp.

Signs/Symptoms: Bright yellow-orange, circular leaf spots

For more information see: UW Garden Facts XHT1009a/b



Powdery Mildew

Hosts: Most deciduous trees

Pathogens: Several genera of powdery mildew fungi

Signs/Symptoms: Uniform/blotchy powdery white areas on upper and lower leaf surfaces

For more information see: UW Garden Facts XHT1005



Downy Leaf Spot

Hosts: Hickory, walnut

Pathogen: *Microstroma juglandis*

Signs/Symptoms: Discrete powdery white areas on lower leaf surfaces



Chlorosis

Hosts: Oak, red maple

Cause: Iron or manganese deficiency, often induced by high soil pH

Signs/Symptoms: Yellow leaves with dark green veins

For more information see: UW Garden Facts XHT1002



Scorch

Hosts: Most deciduous trees

Cause: Water stress induced by drought, high soil salt content, or other water-limiting factors

Signs/Symptoms: Dead tissue on leaf margins



Tatters

Hosts: Most deciduous trees, but commonly oak

Cause: Possible early season cold injury

Signs/Symptoms: Lacy, tattered-looking leaves

For more information see: UW Garden Facts XHT1141

For more information on deciduous tree leaf diseases: See University of Wisconsin Garden Facts XHT1001a/b/c, XHT1002, XHT1005, XHT1007a/b, XHT1009a/b, XHT1104, XHT1141, and XHT1149, or contact your County Extension agent.