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Lawn Disease Quick Reference

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Snow Molds (Microdochium nivale and Typhula spp.)

Occurrence: Early to late spring

Favorable Conditions: Cold wet weather with periods of prolonged snow cover over unfrozen ground often leading to the most severe damage Hosts: Kentucky bluegrass, tall fescue, perennial ryegrass

Symptoms: Circular, matted, gray to strawcolored patches ranging from a few inches to a foot or more in diameter

Management: Remove leaf litter from lawns. Mow lawns until dormant in the fall. Avoid heavy fertilizer applications (greater than 0.5 lb. N/1,000 sq. ft.) late in the year. Rake and lightly fertilize damaged areas in the spring to encourage recovery. Reseed lawns as needed.



Necrotic Ring Spot (Ophiosphaerella korrae)

Occurrence: Spring, summer and fall

Favorable Conditions: Cool (soil temperatures of 55 to 65°F) and wet conditions for infection, followed by heat and drought stress for symptom development; most severe when soil compaction limits rooting

Host: Kentucky bluegrass

Symptoms: Circular, straw-colored patches usually less than 12 inches in diameter; regrowth often occurring in the center of patches, creating a "frog-eye" appearance; most common in newly sodded lawns, but also occurring in seeded lawns Management: Reduce soil compaction and improve lawn drainage. Maintain proper fertility.



Fairy Rings (many mushroom-forming fungi)

Occurrence: Anytime

Favorable conditions: Warm, wet weather; significant thatch accumulation

Hosts: All cool-season lawn grasses

Symptoms: <u>Type I</u>: a ring or arc (up to several feet in diameter) of lush, dark green grass bordered by a band of dead turf, with or without mushrooms; <u>Type II</u>: a ring or arc of lush dark green grass with no band of dead turf, with or without mushrooms; <u>Type III</u>: a ring or arc of mushrooms with no band of lush green turf or dead turf

Management: Lightly fertilize and routinely core aerate lawns.







Summer Patch (Magnaporthe poae)

Occurrence: Summer

Favorable conditions: Hot, moist conditions;

alkaline (i.e., high) soil and thatch pH Hosts: Kentucky bluegrass, fine fescues

Symptoms: Ring-like patches of wilted turf up to 3 inches in diameter, similar to those of necrotic ring spot (see above), and with rings often merging into larger irregular patches

Management: Avoid excessive watering during hot periods. Core aerate to promote root growth and reduce compaction. Use acidifying fertilizers to lower thatch pH to below 6.5.

Dollar Spot (Sclerotinia homoeocarpa)

Occurrence: Summer

Favorable conditions: High humidity; low

nitrogen fertility

Hosts: Kentucky bluegrass, perennial ryegrass,

fine fescues

Symptoms: Bleached patches ranging from a few inches to a foot in diameter, with leaf blades (inset) having bleached, hourglass-shaped areas Management: Water deeply and infrequently early in the morning to minimize prolonged periods of leaf wetness. Apply nitrogen to alleviate symptoms.





Red Thread (Laetisaria fuciformis)

Occurrence: Spring through fall

Favorable conditions: Wet, cool conditions Hosts: Kentucky bluegrass, perennial ryegrass,

fine fescues

Symptoms: Irregular beige patches ranging from a few inches to a few feet in diameter (oftentimes merging into irregular patterns) with red, threadlike filaments among the grass blades

Management: Collect clippings when disease is active. Maintain adequate nitrogen fertility.

Rust (Puccinia spp., Uromyces spp.)

Occurrence: Summer and fall

Favorable conditions: High humidity, low soil

moisture, low nitrogen fertility, shade

Hosts: Kentucky bluegrass, perennial ryegrass Stand Symptoms: Reddish-brown, powdery areas (masses of fungal spores) that can discolor

clothing and equipment

Management: Maximize light and airflow in lawns by pruning and thinning surrounding landscape

plants. Water and lightly fertilize.

For more information on lawn diseases: See University of Wisconsin Garden Facts XHT1145, and XHT1150 (available at http://hort.uwex.edu), UW-Extension Bulletin A3187 (available at http://learningstore.uwex.edu), contact the UW-Madison Turfgrass Diagnostic Lab (see http://tdl.wisc.edu) or contact your county Extension agent.

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