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### Lawn Disease Quick Reference

P.J. Liesch, UW-Madison Plant Pathology; Vijai Pandian, UW-Extension Brown County; and Jim Kerns, formerly of UW-Madison Plant Pathology





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 straw-colored 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.



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# Summer Patch (Magnaporthiopsis 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 (Clarireedia jacksonii)

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, thread-like 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:** Contact the University of Wisconsin Turf Diagnostic Lab (TDL) at (608) 845-2535 or <a href="https://doi.org/10.2016/ncbc/heart-10.2016/ncbc/">https://doi.org/10.2016/ncbc/</a>.

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Thanks to Diana Alfuth, Doug Soldat and Karen Schleis for reviewing this document.

A complete inventory of UW Plant Disease Facts is available at the University of Wisconsin-Madison Plant Disease Diagnostics Clinic website: <a href="https://pddc.wisc.edu">https://pddc.wisc.edu</a>
Submit additional lawn, landscape, and gardening questions at <a href="https://hort.extension.wisc.edu/ask-a-gardening-question/">https://hort.extension.wisc.edu/ask-a-gardening-question/</a>.