

syngenta

Brown Patch

Rhizoctonia solani



Symptoms:

- Patches of blighted turf, tan-to-brown color and up to 3' in diameter.
- Irregularly shaped lesions on foliage, tan with a thin, dark-brown border.
- Mycelium may be present during very wet or humid weather.

Conditions Favoring Disease:

- Occurs on all cool-season turf species. Develops when night temperatures are consistently above 60°F combined with extended periods of leaf wetness.
- Poor soil drainage, over-irrigation and over- or under-fertilization may enhance the disease.

Recommended Fungicide:

¥H∈adway G

Additional Options: Heritage® G fungicide

Recommended Fungicide:

Velista

Fairy Ring

Additional Options: Headway® G fungicide

Heritage G fungicide

Symptoms:



- periods of warm, wet weather. • Distinct mushroom odor often present in the soil profile.
- Rings expand outward over time and may exceed 10' in diameter.

Conditions Favoring Disease:

- · Caused by many different mushroomforming fungi, which may be encouraged by different conditions.
- Warm, wet conditions from late spring through summer.
- Excessive thatch accumulation.
- Under-fertilized or drought-stressed turf.

Headway G fungicide

Large Patch

Gray Leaf Spot

Pyricularia grisea



Recommended Fungicides

\$\footnote{G}\$

Additional Options:

Symptoms:

- Initially appears as tan leaf spots with purple to dark-brown border.
- Leaf spots turn gray and fuzzy when canopy is wet or very humid.
- Leaf spots expand and coalesce to form irregularly shaped lesions followed by blighting of entire leaves.
- Severely affects strands collapse in irregular or widespread patterns.
- Symptoms from a distance may resemble Pythium blight or drought stress.

Conditions Favoring Disease:

- Develops when temperatures are greater than 80°F combined with wet or humid conditions.
- In cool-season grasses, outbreaks are most common from mid-summer to early fall. · On warm-season grasses, outbreaks occur
- from late spring through fall during hot, humid weather. Long periods of leaf wetness favor spore
- production and infection.
- Newly established turfgrasses are most prone to severe damage.
- High mowing heights and excessive nitrogen fertilization may enhance the disease.

Drechslera spp. and/or Bipolaris spp

Symptoms:

shriveled and blighted.

mowing height.

Purplish-brown to black spots with tan

centers on the leaf blade and sheath.

Severely affects strands collapse in

irregular or widespread patterns.

spots on cool-season turfgrasses.

Temperatures between 40°F and 80°F.

wetness for several consecutive days.

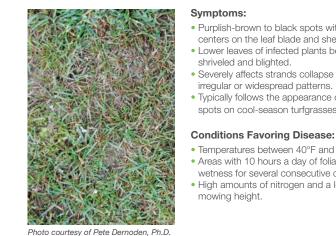
High amounts of nitrogen and a low

Areas with 10 hours a day of foliar

Lower leaves of infected plants become

Typically follows the appearance of leaf

Leaf Spot/Melting-Out



Recommended Fungicide:



Heritage G fungicide Velista® fungicide

Tools to Help You Grow

Like a lawn, your business needs the right tools to grow and thrive. Syngenta can provide free marketing materials to help educate your customers about certain lawn pests and the services you may offer.

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Multipaks are available all year and offer savings over individual product purchases for broad-spectrum disease control and plant growth regulation.

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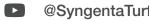
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Dollar Spot

Cool-season grasses — Clarireedia jacksonii Warm-season grasses — Clarireedia monteithiana



Symptoms:

- White-to tan-spots or patches from 2-6" in diameter.
- Foliar lesions are white-to-tan with a brown to reddish-brown border, often hourglass shaped and extend the full width of a leaf blade.
- White, fluffy mycelium may be present during very humid conditions.

Conditions Favoring Disease:

- consistently above 55°F combined with leaf wetness or high humidity.
- heavy dews.
- More severe in dry soils.

Recommended Fungicide:

SVelista 🖁

Additional Options: Headway G fungicide

Summer Patch

Magnaporthiopsis poae



Develops when night temperatures are

- Favored by warm days, cool nights and
- · Infects areas with low levels of nitrogen.

Recommended Fungicide: \$\text{Heritage*G}

Additional Options: Headway G fungicide

Symptoms:

- Appears as spots, rings or patches from 2" to 1.5' in diameter.
- Affected turf eventually turns tan to strawcolored and collapses to the ground, leaving sunken depressions in the turf
- Outer edge of patches may appear bronze to yellow-orange when active infection is occurrina.
- Roots, rhizomes and crowns are dark and rotten.

Conditions Favoring Disease:

- compaction, poor drainage, and soil pH greater than 6.5 enhance the disease.
- heights increase turf susceptibility to summer patch.

- Affected turf initially appears yellow, wilted and/or slowly growing.

- Above-ground symptoms appear during times of heat and/or drought stress. Excessive thatch accumulation, soil
- · Light, frequent irrigation and low mowing
- · Root infection begins in spring when soil temperatures reach 65°F and continues through summer.



Most active in fall and spring when soil

- overcast weather.
- accumulation may enhance the disease.

Rhizoctonia solani

Rings or patches of blighted turfgrass that measure up to 10' in diameter. Color of infected turf varies by turf species

- but may be tan, yellow or reddish-brown. · When disease is active, the outer edge of patches may be orange to red.
- Foliar lesions are typically absent, but reddish-brown to gray lesions may be evident on leaf sheaths.

Conditions Favoring Disease:

- temperatures are below 70°F.
- Poor soil drainage or excessive thatch

- Favored by prolonged periods of wet,

Recommended Fungicide:

SVelista*

Additional Options: Heritage G fungicide Headway G fungicide

Microdochium Patch (Pink Snow Mold)

Microdochium nivale

- Yellow, tan, or salmon-colored, watersoaked patches that measure 1" to 8" or more in diameter.
- Pale pink around the edges.
- Spores are produced in white or salmon-colored sporodochia that are found on the dead tissue.
- Blighting can occur in streaks from spores tracking on the equipment wheels.

Conditions Favoring Disease:

- Favors temperatures of less than 60°F. More severe where snow has fallen on
- unfrozen soil or in cold, rainy weather.

Recommended Fungicide:







Digital Tools Put You Ahead of Pests

Syngenta offers several digital tools to help you identify target pests and stay ahead of their development.

Soil Temperature Alerts

Growing Degree Day Alerts



Photo courtesy of N. Tisserat Recommended Fungicide:

Necrotic Ring Spot

Ophiosphaerella korrae



Additional Options: Heritage G fungicide

Symptoms:

- First appears as thinned yellow to light-green circular patches that are 3" to 15" in diameter.
- Can expand up to 3' in diameter. Eventually turn brown or straw-colored
- Roots and rhizomes of the affected turfgrass turn brown to black.
- "Frog-eye" a symptom where less susceptible grass species survive inside the diseased patch—can also occur.

Conditions Favoring Disease:

- Initiates in moist soil.
- More severe in higher temperatures (of up to 80°F) and drought conditions.
- Seeded sites, as well as sodded sites in newly cleared woodlands, are susceptible
- Found in areas with compacted soil and that are high in nitrogen during the spring and summer

Additional Options:

Heritage G fungicide Subdue Maxx® fungicide

Symptoms:

Pythium aphanidermatum, other Pythium species



Pythium Blight

Recommended Fungicide:

y H∈adway **G**

- Appears suddenly during hot, humid
- Greasy, brown circular spots that are initially about 34" to 2" in diameter.
- Rapidly enlarges in size.
- Water-soaked and dark-colored early in the morning
- Forms fluffy white masses of fungal mycelium (cottony blight) and can coalesce to form large, irregular areas of dead turf.
- Infected patches may appear bronzishorange in color.

Conditions Favoring Disease:

- Found in areas with poor drainage and air circulation as well as in locations that are high in salinity or nitrogen. Favors night temperatures of over 68°F.
- Occurs in areas that experience more than 10 hours a day of foliar wetness for several consecutive days.

Rusts: Crown, Leaf, Stem and Stripe

Crown—Puccinia coronata Leaf-Uromyces dactylidis Stem (Black) - Puccinia graminis Stripe (Yellow)—Puccinia striiformis



Recommended Fungicide:



Additional Options Headway G fungicide

Symptoms:

- · Light yellow flecks initially on the leaf blades and sheaths.
- · Flecks enlarge, elongate and turn
- Infected areas rise above the epidermis and then rupture, releasing spores that are yellowish-orange to reddish-brown.
- Severe infections can cause shoots to turn yellowish to reddish-brown and slow in growth.
- Turf may appear thin as individual shoots die.

Conditions Favoring Disease:

- Typically occur in early spring through fall, depending on the location of the
- Favors low-light areas.

Tips to Help Your Customers

Use an adequate level of nitrogen, particularly in

Irrigate turf deeply and as infrequently as possible

Apply contact and/or penetrant fungicides on a

Lightly fertilize turf in early spring to encourage

Increase the height of cut and mow at regular

Minimize the amount of shade.

the spring and early summer.

to avoid drought stress.

preventive basis.

Core aerify.

new growth.

Improve soil drainage.

- Depending on the species, rusts favor
- temperatures between 65°F and 86°F. Severe rust infections occur on slow-
- growing turfgrass, particularly those with low nitrogen levels and/or plant water stress.

- Controls more than 25 soil-borne and foliar turf diseases.

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0.8 oz./1.000 ft.2 covers 5.000 ft.2

0.4 oz./1,000 ft.2 covers 10,000 ft.3

- Protects turf from diseases like leaf spot, brown patch, gray leaf spot and more for up to 28 days.
- Systemically moves through the plant to protect new growth.

Acelepryn® insecticide Tenacity® herbicide Barricade® herbicide Primo Maxx® plant growth regulator



Syngenta Lawn **Fungicide Portfolio**





- Combines the effectiveness of a spray with the convenience of a granular with a highly water-soluble carrier for quick uptake
- Offers broad-spectrum control against major turf diseases including spring dead spot, large patch and brown patch.





- Protects turf from diseases like leaf spot, brown patch, gray leaf spot and more for up to 28 days.
- Can be used with Velista for exceptional summer patch control.







- Mixes clear in water and won't settle out in tank or clog filters.
- Leading-edge Maxx formulation technology.





 Broad-spectrum SDHI that protects against brown patch, large patch, fairy ring and spring dead spot.

- Can be used with Heritage brand fungicides for exceptional summer patch control.
- The water-dispersible granular (WDG) formulation allows for easy mixing and application.







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GreenCastOnline.com/AgronomicAlerts

Recommended Fungicide:



Additional Options: Headway G fungicide

- First appears on the leaves as individual
- tufts of fine, white mycelium. The tufts enlarge and coalesce, causing the leaves to have a grayish-white or powdery appearance.
- Severely infected turf turns yellow, then tan and brown in color.
- Stressed turf that is severely infected can Severely infected turf, especially in shaded

areas, can become thinned. Conditions Favoring Disease:

- Favored by humid, cloudy weather with temperatures between 60°F and 72°F.
- Occurs in areas under stress. Low light and high humidity.
- Common in areas with poor air circulation, but does not require a film of water to

Recommended Fungicide:



Headway G fungicide

Pink patch—Limonomyces roseipellis

Red Thread and Pink Patch

Red thread—Laetisaria fuciformis

and 1" to 4" in diameter up to 2'. Causes a gelatinous mass of pink mycelium with water-soaked leaves.

Conditions Favoring Disease:

presence of red thread.

 Temperatures between 40°F to 85°F and in locations that are low in nitrogen. Areas that experience more than 10

Patches that are reddish-brown in color

- consecutive days. Pink patch usually develops in the
- The two diseases often occur under the same conditions and at the same times.

Additional Options:



- hours a day of foliar wetness for several

Learn more at:

Reduce thatch by vertical cutting.

GreenCastOnline.com/LawnBestPractices