

NOTE: THE FOLLOWING INFORMATION IS OFFERED AS A GUIDE FOR PROSPECTIVE CHALLENGES TO MANAGING SEASHORE PASPALUM. ALL TURFGRASSES ARE SUBJECTED TO INSECT, DISEASE, AND WEED PRESSURES. PROPER MANAGEMENT IS THE KEY TO SUCCESS. YOU MUST CHECK ALL LABELS OF THE PESTICIDES TO BE USED ON THIS GRASS FOR LEGAL AND PROPER USE. MENTION OF A PARTICULAR PRODUCT IS NOT AN ENDORSEMENT OF THAT PRODUCT BUT REFLECTS WHAT IS KNOWN AT THE PRESENT TIME. ENVIRONMENTAL INTERACTIONS, INCLUDING SALINITY THAT IMPACT SPECIFIC SITES, MAY GIVE VARIABLE RESULTS IN THE USE OF SOME PRODUCTS.

DOLLAR SPOT

FALSE\$DOLLAR SPOT

CREAMY BLIGHT

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Dollar spot

[Clarireedia monteithiana--warm season grasses; C. jacksonii and C bennettii--cool season grasses; C. homoeocarpa--Festuca rubra grasses]. (Old genus+species: *Sclerotinia homeocarpa*)

Symptoms: lesions are light tan with a reddish-brown border; water-soaked and wilted look, mycelium present when dew is on grass; round spots. Usually occurs between 60-80°F.

Cultural control: remove excess thatch

keep nitrogen fertility levels adequate

avoid light, frequent watering

aerate compacted soils

mow frequently at recommended heights

avoid dry soil conditions with high humidity

Suggested Fungicides:

Note: there is documented evidence that the benzimidazoles (thiophanate-methyl), DMIs ('conazoles, myclobutanil, triademefen, fenarimol), dicarboximides (iprodione, vinclozolin), and SDHIs (flutolanil, boscalid, penthiopyrad, fluxayroxad, fluopyram, isofetamid, pydiflumetofen) chemistries and mode-of-action products have produced resistant fungal pathotypes. Dual chemistry and dual mode-of-action products should be applied when treating for dollar spot disease attacks on turf. The Qols ('strobins') can be combined with other mode-of-action chemistries. Follow-up chemistries can include chlorothalonil, thiram, mancozeb, and fluazinam products. Banol and terrazole applications may be needed at curative rates when dollar spot reoccurs in the same general areas.

iprodione (Chipco 26019, Chipco 26GT, Iprodione Pro, Raven™ 26GT, Tazz™, Eclipse ETQ)

isofetamid (Kabuto)

isofetamid + tebuconazole (Tekken)

cyproconazole (Sentinel, Alto)

maneb, mancozeb (Fore, Protect, Dithane, WingMan, Manzate, Formec)

PCNB (Engage, Penstar, Revere, Terraclor, Turfside, Turfgo, Autilus)

PCNB + tebuconazole (Oreon or Premion)

thiophanate methyl (Cleary's 3336+26/36, Topsin, Fungo, Systec 1998, Cavalier, T-Bird®, 'Systemic Fungicide')

vorlan/vinclozolin (Curalan, Touche)

myclobutanil (Eagle, Siskin®, Myclobutanil 20EW, Golden Eagle™, Systane, Laredo, Nova, Rally)

chlorothalonil (Daconil, Evade, Prograde, Echo Ultimate, Count Down, Pegasus™, Concord, Previa, Chlorosel Pro, Legend, Echo Dyad ETQ, Enclave™)
ADD FERROUS SULFATE TO EXTEND EFFICACY UP TO 5 ADDITIONAL DAYS.

chlorothalonil + acibenzolar-S-methyl (Daconil Action includes protein booster to stimulate systemic acquired resistance)

chlorothalonil + tebuconazole (E-Scape ETQW)

triadimefon (Bayleton, Fungicide VII™)

propiconazole (Banner MAXX+GL, Kestrel®, Echo Propiconazol EC, Spectator, Propensity, Prophesy™, Tilt, PropiMax)

mancozeb + copper hydroxide (Junction)

mandestrobin (Pinpoint)

azoxystrobin (Heritage)***Heritage Action (acibenzolar-s-methyl for stress tolerance inducement)

azoxystrobin (Heritage)+ thiamethoxam (Meridian)

azoxystrobin + difenoconazole (Briskway)

Solatenol®+difenoconazole+azoxystrobin+propiconazole (Contend)

trifloxystrobin (Compass)***

pyraclostrobin (Insignia)***

pyraclostrobin + triticonazole (Pilar G)

fluoxastrobin (Disarm/Evito/Fame) ***

fluoxastrobin + chlorothalonil (Disarm C and M/Fame + C)

fluoxastrobin + tebuconazole (Fame + T)

fludioxonil (Medallion)***

difenoconazole + fludioxonil (Instrata Elite)

fluazinam (Secure biofungicide; Rotator)

fluazinam + tebuconazole Traction

boscalid (Emerald)

EcoGuard biofungicide

fenarimol (Rubigan)

thiram (Spotrete, Tersan, Defiant)

trifloxystrobin + triadimefon (Tartan, Armada)

azoxystrobin + propiconazole (Headway, Quilt)

azoxystrobin + cyproconazole (Quadris Xtra)

chlorothalonil + thiophanate methyl (Spectro 90, Peregrine, Tee-1-Up, ConSyst, Broadcide)

propiconazole + chlorothalonil + fludioxonil (Instrata)

Pseudomonas aureofaciens strain TX-1 microbial biofungicide (Spot-Less)

Bacillus subtilis strain GB03 biofungicide (Companion)

trifloxystrobin + triadimefon (Armada, Tartan)

triticonazole (Trinity, Chipco Triton FLO)

tebuconazole (Mirage™, Lynx, Torque, Muscle®, ArmorTech TEB360, Clearscape ETQ, Skylark™)

tebuconazole + PCNB (Oreon or Premion)

tebuconazole + azoxystrobin (ZOXY-T; Strobe T)

Zn + Mn ethylene-bisdithiocarbamate/mancozeb (Pentathalon)

Banner + Daconil (Concert)

triticonazole + chlorothalonil (Reserve™)

propiconazole (Echo Propiconazole EC, Prophecy, Strider, Kestrel®)

metconazole (Tourney) Do not apply to bermudagrass.

PCNB (ParFlo, Autilus) (*pentachloronitrobenzene*) [mix with Torgue]

Heritage (azoxystrobin) + Daconil (chlorothalonil) (Renown)

ammonium chlorides (Agrisan 20, Pro-Tech)

iprodione + thiophanate-methyl (Dovetail)

iprodione + trifloxystrobin (Interface™)

potassium phosphate + chlorothalonil (Vitalonil)

pyraclostrobin + boscalid (Pageant, Honor)

pyraclostrobin + triticonazole (Pillar G)

penthiopyrad (Velista)

pydiflumetofen (Posterity)

isofetamid (Kabuto)

isofetamid + tebuconazole (Tekken)

fluxapyroxad (Xzemplar)

mandestrobin (Pinpoint)

fluxapyroxad + pyraclostrobin (Lexicon)

flurprimidol + trinexapac-ethyl + paclobutrazol (Musketeer)**PGR
suppression**

fluopyram + trifloxystrobin (Exteris Stressgard)

azoxystrobin + tebuconazole (AzTeb Select™)

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False\$Spot

{caused by *Poculum henningsianum*, an anamorph of *Sclerotinia homoeocarpa* (Bennett)}.

Documented: G.T. Cooper and P. Harmon. 2009. Characterization of unknown fungus associated with symptoms similar to dollar spot on warm-season turfgrass in Florida. *Phytopathology* 99(6 supplement): S24.

Symptoms: resemble initially typical dollar spot but larger in size with mycelium during the early morning hours; has a whitish appearance and small sclerotial-like structures embedded in plant tissue. Coalesces into larger areas resembling initial fairy ring symptoms. Normal dollar spot fungicides are not consistently effective—apply dual chemistry fungicides. Monitor the damaged grass areas for secondary and tertiary fungal attack, especially root borne pathogens. This pathotype is insensitive to most dollar spot fungicides.

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Creamy Blight

Limonomyces spp.

Low nitrogen disease similar to dollar spot. Often found in roughs with turf appearing grayish white. Causes diffuse white to light pink elongated foliar lesions that often start at the leaf edge or tip and extend down or across the leaf. Occurs during cool wet late summer or early fall weather conditions. Leaves in the patches are matted together with cream-colored mycelium.

Cultural strategies: balanced fertility program; nitrate applications; adjust irrigation schedule

Suggested Fungicides: (ROTATE MODE-OF-ACTION CHEMISTRIES)

chlorothalonil (Chlorosel, Pegasus, Daconil, Echo Ultimate, Evade, Countdown, Concord, Legend, Echo Dyad ETQ, Enclave™)

chlorothalonil + acibenzolar-S-methyl (Daconil Action)

vinclozolin/vorlan (Curalan, Touche)

iprodione (Chipco 26GT, 26019, Raven™ 26GT, Tazz™, Eclipse ETQ)

triadimefon (Bayleton, Fungicide VII™)

fenarimol (Rubigan)

propiconazole (Banner Maxx, Spectator, Kestrel®, Tenacity, Propensity, Prophesy™, Tilt, Strider, PropiMax)

Heritage (azoxystrobin) + Daconil (chlorothalonil) (Renown)

Azoxystrobin (Heritage)+ thiamethoxam (Meridian)

potassium phosphate + chlorothalonil (Vitalonil)

iprodione + trifloxystrobin (Interface)

fluazinam (Secure biofungicide; Rotator)

fluxapyroxad (Xzemplar)

fluxapyroxad + pyraclostrobin (Lexicon)

Isofetamid (Kabuto)

isofetamid + tebuconazole (Tekken)

tebuconazole (Mirage™ StressGard™, Torque, Lynz 25C, Muscle®, Skylark™, Clearscape ETQ, ArmorTech TEB360)

azoxystrobin + tebuconazole (ZOXY-T; Strobe T)

fluopyram + trifloxystrobin (Exteris Stressgard)