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### COVER STORY

Turfgrass Diseases: DOLLAR SPOT

By Fereshteh Shahoveisi, Ph.D. Assistant Professor, University of Maryland All photos by the author

During the second secon

### Causal Agent

Dollar spec disease is caused by several species of a fungal pathogen (Claritoredia top), with C, alcohonit and C. montethistan being the most common species on root season and special spectra of the spectra of the spectra of the special spectra of the spectra of the spectra of the pathogen survival sensitivity of the spectra of the spectra by forming dark-colored survival structures known as stroma.

10 MIC TURF NEWS

Solits and symptoms produce symptomic targets on the traffyrin and hands which is visible on the carry filter and hands which is visible on the carry filter model of the symptoms are the formation and any symptoms are the formation and and any symptoms are the formation of the filter of the symptoms and the symptoms of the symptoms and the symptoms are the filter data and the filter of the symptoms and allow data are built and data are put linear data datas which match datas are put linear datas datas and datas and datas and the symptoms line datas are shown and the symptoms and the linear datas and datas and the symptoms of the symptoms and the symptoms and the linear datas and datas and the symptoms of the symptoms and the symptoms and the symptoms of the symptoms and the symptoms and the symptoms of the symptoms and the symptoms of the symptoms and the symptoms and the symptoms and the symptoms of the symptoms and the symptoms and the symptoms and the symptoms of the symptoms and the symptoms and the symptoms and the symptoms of the symptoms and the symptoms and the symptoms and the symptoms of the symptoms and the symptoms and the symptoms and the symptoms and the symptoms of the symptoms and the symptoms an

#### avorable Environment

c pulsoges is most active when the temperatures are between F and SSP (1GC and 3OC) and the calculation of the direct set of the set the tabers SO(3). However, some other diseases such as hown such as the set of SO(3) and SO(3) and the set of the set of SO(3)set of SO(3). The set of SO(3) are associated as the set of SO(3)set of SO(3) and SO(3) and SO(3) and SO(3) and SO(3)set of SO(3) and SO(3) and SO(3) and SO(3) and SO(3)set of SO(3) and SO(3) and SO(3) and SO(3) and SO(3)set of SO(3) and SO(3) and SO(3) and SO(3) and SO(3)set of SO(3) and SO(3) and SO(3) and SO(3) and SO(3) and SO(3)set of SO(3) and SO

### Disease Management

nurfgrass cultivars have better dollar spot tolerance levels, oranne, everpting bengrass cultivars Oakley, Coho, Dochn, Fjøer, and 0072. Lave chown promising dollar use to toex. More information about improved cultivars is available to National Turfgrass Evaluation Program (NTEP) website www.nep.org.

#### Cultural practices are an important component of an post management program for dollar spot disease. Impire aduced precisions can help network or reduce f

f the diseases Proper Imjutions: Proper irrigation is critical for preventin dollar spot disease. Irrigation should be timed to avoid pre longed periods of leaf warness, which promote the growth of th pathogens. Early morning irrigation is preferable to evening in warness however is allower the artiferance to dry and dimite the dd Ferrilizy Management: Proper ferrility can help prevent dollar spot disease by premoting healthy turfgrass growth. Turfgrass should be ferrilized according to soil test realts to source the appropriate annuars of phospheron and preasuant. Perform through the theory in lane queliquidy, summer rehaming the source of the interaction of the source context has been reaches in these management early growth and reduce the risk of dollar spot outbreaks. Hence refer to Maryland nurrier management guidelines.

 Messing Practices: Proper mowing can help prevent dollar spot disease by promoting healthy turfgrass prowsh. Turfgrass should be moved at the appropriate height for the species and maintained at a consistem height. Mowers with sharp blades will reduce the tearing of the turfgrass blades, thereby promoting

Hing, Tophraving, and Dark Bensouth Researchers (Medipin State University nore that add) sightingle colling (4 to 5 times per seeek) can significantly use the security of dollar spot on pointing greens, and as sum one consistent at robusing dollar spot appli course liarway compared to robusing. Regular we removal can also reduce the disease secrety do will allow cettended implicities application ceredus. It is important to note that other factors has sweather conditions and implicit efficiency on the as weather conditions and implicit efficase or an other secrets. The secret has a secret the conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret to conditions and implicit efficiency on the secret has a secret the conditions and implicit efficiency on the secret has a secret the conditions and implicit efficiency on the secret has a secret the conditions and implicit efficiency on the secret has a secret the conditions and implicit efficiency on the secret has a secret the conditions and implicit efficiency on the secret has a secret the conditions and implicit efficiency on the secret has a secret the conditions and implicit the secret term of term of the secret term of term of term of term of term of term

**Satch Management:** Extensive thatch accumution, which adversely affects air exchange, water filtration and terrilizer utilization, can create an invironment conducive to dellar spot disease develpment. Thatch should be managed through core cration and topplerssing to encourage the breakdown doubt and anonerone beildw util structure.

Soil Management: Relieving soil compaction in critical for preventing dollar spot disease. Soil com paction should be reduced through core acration, and drainage should be impeoved in areas where wates tends to accumulate.

FIGURE 1. Mycelium of the pathogen on gulf course farway height bufgrass. FIGURE 2. The initial symptom of dollar spot disease on gaf course farmay height bufgrass. FIGURE 3. Dollar spot lesion on perennal ryspass on



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