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NF01-470 Turf Disease Fact Sheet No. 10: Management Program for Rust Diseases

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Turf Disease Fact Sheet No. 10 Management Program for Rust Diseases

by John E. Watkins, Extension Plant Pathologist

Cause, Host and Occurrence

Rust Diseases: Cause: Puccinia graminis and Puccinia coronata

Primary hosts: Bluegrasses, Perennial ryegrass, Zoysia

Occurrence: July - October

Key Symptoms and Signs

- Affected turf takes on a reddish, orange to yellow cast.
- Orange rust pustules on infected leaf blades.
- Presence of orange spores on shoes, pant legs and mowing equipment.

Cultural/Maintenance Practices

- Provide sufficient nitrogen to maintain moderate growth rate through the season.
- Irrigate to maintain plant vigor and avoid drought stress.
- Irrigate in the early morning hours.
- Remove dew from the turf.
- Mow regularly through the growing season.
- Prevent compaction by core aeration in spring and/or fall.
- Over seed rust-prone turf in August with a blend of rust-resistant cultivars.

Fungicide Program

• On rust-prone turfs, use a preventive fungicide program beginning in mid-July and continuing at 14- to 28-day intervals through September.

Products reported to provide fair to excellent control of rusts include:

Commercial Products

Active ingredient(s) Product name(s)

chlorothalonil* Daconil Ultrex, Thalonil, Manicure Ultrex

mancozeb Formec 80, Protect T/O, Fore Rainshield, Dithane T/O

Rainshield, Lesco Mancozeb

maneb Pentathlon

myclobutanil Eagle

propiconozole Banner MAXX

thiophanate-methyl Cleary's 3336, Fungo, Cavalier

triadimefon Accost, Bayleton, Lesco Granular Turf Fungicide

trifloxystrobin Compass

chlorothalonil +

fenarimol

TwoSome Flowable Fungicide

chlorothalonil +

thiophanete-methyl

Spectro 90

mancozeb + copper

hydroxide

Junction

Home Lawn Products

Active ingredient(s) $Product\ name(s)$

mancozeb Green Light Broad Spectrum Mancozeb Fungicide

maneb Acme Maneb Tomato and Vegetable Dust

propiconazole ferti-lome Liquid Systemic Fungicide

thiophanate-methyl Dragon Systemic Fungicide 3336 WP

Green Light Fung-Away Systemic Lawn Fungicide,

Bonide Lawn Fungicide with Bayleton

Fungicides listed represent the best information available. No criticism is intended of products not listed, nor is endorsement by the University of Nebraska given to those listed. Read and follow all product label directions for mixing and application.

File NF01-470 under PLANT DISEASES F-11, Turf Issued April 2001

^{*}No longer registered for residential turf.

with the U.S. Department of Agriculture. Elbert C. Dickey, Dean and Director of Cooperative Extension, University of Nebraska, Institute of Agriculture and Natural Resources.

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