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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

<i>Active ingredient(s)</i>	<i>Product name(s)</i>
chlorothalonil*	Daconil Ultrex, Thalonil, Manicure Ultrex
mancozeb	Formec 80, Protect T/O, Fore Rainshield, Dithane T/O Rainshield, Lescro Mancozeb
maneb	Pentathlon
myclobutanil	Eagle
propiconazole	Banner MAXX
thiophanate-methyl	Cleary's 3336, Fungo, Cavalier
triadimefon	Accost, Bayleton, Lescro Granular Turf Fungicide
trifloxystrobin	Compass
chlorothalonil + fenarimol	TwoSome Flowable Fungicide
chlorothalonil + thiophanete-methyl	Spectro 90
mancozeb + copper hydroxide	Junction

*No longer registered for residential turf.

Home Lawn Products

<i>Active ingredient(s)</i>	<i>Product name(s)</i>
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
triadimefon	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.

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