



2011-2012 Pink Snow Mold Control Evaluation OJ Noer Center – Verona, WI

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OBJECTIVES

To evaluate fungicides for the control of *Microdochium* patch caused by the fungus *Microdochium nivale*.

MATERIALS AND METHODS

This evaluation was conducted at the OJ Noer Turfgrass Research and Educational Facility in Verona, WI on an 'Alpha' creeping bentgrass (*Agrostis stolonifera*) plot maintained at a height of 0.5 inches. Individual plots measured 3 ft x 5 ft (15 ft²), and were arranged in a randomized complete block design with four replications. Individual treatments were applied at a nozzle pressure of 40 p.s.i using a CO₂ pressurized boom sprayer equipped with two XR Teejet 8004 VS nozzles. All fungicides were agitated by hand and applied in the equivalent of 2 gallons of water per 1000 ft². Exceptions were the granular Headway G and FeDCON, which was applied in 2.5 gallons of 1000 ft². Early applications were applied on November 7th, 2011 and late applications were applied on December 1st, 2011. The experimental plot area was inoculated with *M. nivale* infested rye grain and covered with an evergreen cover on December 8th. Snow cover was sporadic throughout the winter. Disease severity and turf quality were recorded on March 15th, 2012. Disease severity was visually rated as percent area affected and turfgrass quality was visually rated on a 1-9 scale with 6 being acceptable. Data was subjected to an analysis of variance and means were separated using the Waller Duncan test. Means for disease severity and turf quality for individual treatments are presented in the following tables.

RESULTS AND DISCUSSION

Despite inoculating with *M. nivale*, and covering with an evergreen cover there was minimal snow mold development in the experimental area. All treatments provided acceptable turfgrass quality, including the nontreated control. Treatments containing Stressgard formulation technology displayed higher turfgrass quality, most likely a result of greener color. FeDCON also provided a slightly higher quality due to a darker green color in the spring, likely the result of iron present in the product.

Snow Mold and Quality Ratings Recorded on March 15th, 2012 at the OJ Noer

Treatment	Rate	Timing ^a	Dis Severity ^b	Quality ^c
1 Non treated Control			1.3 a	7.0 c
2 Headway G	4.0 LB/M	Early/Late	0.0 a	7.0 c
3 Tourney	0.37 OZ/M	Late	0.0 a	7.0 c
3336 Plus	4.0 FL OZ/M	Late		
4 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
5 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
Daconil Ultrex	5.0 OZ/M	Late		
Chipco 26GT	4.0 FL OZ/M	Late		
6 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
Daconil Ultrex	5.0 OZ/M	Late		
Heritage	0.7 OZ/M	Late		
7 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
Daconil Ultrex	5.0 OZ/M	Late		
Banner MAXX II	2.0 FL OZ/M	Late		
8 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
Daconil Ultrex	5.0 OZ/M	Late		
3336 Plus	2.0 FL OZ/M	Late		
9 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
Daconil Ultrex	5.0 OZ/M	Late		
10 Velista	0.7 OZ/M	Late	0.0 a	7.0 c
Medallion	0.25 OZ/M	Late		
Banner MAXX II	2.0 FL OZ/M	Late		
11 Interface	5.0 FL OZ/M	Late	0.0 a	7.5 b
12 Interface	4.0 FL OZ/M	Late	0.0 a	8.0 a
Daconil Ultrex	3.2 OZ/M	Late		
13 Heritage TL	2.0 FL OZ/M	Late	0.0 a	7.0 c
14 Chipco 26GT	4.0 FL OZ/M	Late	0.0 a	7.0 c
15 Chipco 26GT	4.0 FL OZ/M	Late	0.0 a	7.0 c
Daconil Wstik	5.5 FL OZ/M	Late		
16 Daconil WStik	5.5 FL OZ/M	Late	0.0 a	7.0 c
17 Daconil Action	5.4 FL OZ/M	Late	0.0 a	7.0 c
18 A9898A	1.3 FL OZ/M	Late	0.0 a	7.0 c
19 A7087F	0.5 FL OZ/M	Late	0.0 a	7.0 c
20 A9898A	1.3 FL OZ/M	Late	0.0 a	7.0 c
A7087F	0.5 FL OZ/M	Late		
21 Daconil Action	5.4 FL OZ/M	Late	0.0 a	7.0 c
A9898A	1.3 FL OZ/M	Late		
22 FeDCON	12.0 FL OZ/M	Late	0.0 a	8.0 a
23 FeDCON	8.0 FL OZ/M	Late	0.0 a	8.0 a
24 FeDCON	8.0 FL OZ/M	Late	0.0 a	8.0 a
Chipco 26GT	4.0 FL OZ/M	Late		

Means followed by same letter do not significantly differ (P=.05, Waller Duncan)

^aEarly and late fungicide treatments were applied on Nov. 7th and Dec. 1st 2011, respectively

^bMean % diseased area

^cQuality was visually rated on a scale of 1-9 where 1 = dead, 6 = acceptable, 9 = dark green