

Early Season Preventative Fungicide Applications for the Delay of Dollar Spot Symptom Development

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OBJECTIVE

To determine length and degree of efficacy of different fungicides and fungicide combinations in preventing dollar spot caused by the fungus *Sclerotinia homoeocarpa*.

MATERIALS AND METHODS

This study was performed at the OJ Noer Turfgrass Research and Education Facility in Verona , WI on ‘Penneagle’ creeping bentgrass maintained at 0.5 inches. The individual plots measured 3 x 10 ft and were arranged in a randomized complete block design with four replications. All treatments were applied on May 7th at a growing degree day 50 rating of 140. Fungicide treatments were applied at a rate of 2 gallons per 1000 ft² using a CO₂ pressurized boom sprayer (40 psi) equipped with XR Teejet 8004 VS nozzles. The number of dollar spot infection centers per plot were visually assessed and the data subjected to an analysis of variance to determine statistical differences between treatments.

RESULTS AND DISCUSSION

Dollar spot was slow to develop on this plot at the OJ Noer Facility in 2009, and when it did it developed fairly evenly across most treatments. Dollar spot did develop at a slightly faster pace in the untreated controls compared to all fungicide treatments. Chipco 26GT provided the best control of dollar spot on July 14th, limiting dollar spot to an average of 3.0 infection centers per 3 X 10 ft plot a full nine weeks after the fungicide application. Protection from all fungicides broke down by the July 27th rating.



Photos for this report
Turfgrass Diagnostic Laboratory Home

Table 1. Mean number of dollar spot infection centers per treatment at the OJ Noer Turfgrass Research and Education Facility in 2009.

Treatment	Rate	Application Interval	Dollar Spot Disease Severity* (Number of dollar spots per plot)			
			July 6	July 14	July 27	
1	Non-treated control		7.5a	14.5a	22.0a	
2	Tourney	0.28 OZ/1000 FT2	Once	8.3a	8.5ab	33.3a
3	Tourney	0.37 OZ/1000 FT2	Once	4.3a	10.8ab	18.5a
4	Emerald	0.13 OZ/1000 FT2	Once	6.0a	6.0ab	25a
5	V-10190	0.4 OZ/1000 FT2	Once	3.5a	5.3ab	17.3a
6	V-10190	0.6 OZ/1000 FT2	Once	3.8a	6.0ab	13.3a
7	Banner MAXX	2.0 FL OZ/1000 FT2	Once	5.5a	7.5ab	16.8a
8	Trinity	1.5 FL OZ/1000 FT2	Once	5.3a	10.0ab	23.3a
9	Triton Flo	0.86 FL OZ/1000 FT2	Once	4.5a	9.8ab	22.5a
10	Chipco 26GT	4.0 FL OZ/1000 FT2	Once	3.5a	3.0b	10.3a

*Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)