

CREEPING BENTGRASS
 (*Agrostis stolonifera* 'Crenshaw-Cato')
 Dollar Spot; *Sclerotinia homoeocarpa*
 Brown patch; *Rhizoctonia solani*

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Preventative fungicide applications for control of dollar spot and brown patch on creeping bentgrass in Kansas, 2009.

Fungicides were evaluated on an established stand of a 'Crenshaw-Cato' blend of creeping bentgrass on a sand-based putting green at the Rocky Ford Turf Research Center, Manhattan KS. The turf was mowed to a height of 0.156-in. and irrigated daily for 15 min. The area was fertilized biweekly with 0.5 lb nitrogen (N)/1000 ft² during Mar through Jun and 0.33 lb N/1000 ft² during Jul through Nov. Fungicide applications were made at 14 or 21-d intervals beginning 28 May with the final application on 20 Aug. Fungicides were applied with a CO₂-powered boom sprayer equipped with two XR Tee Jet 8004VS nozzles at 30 psi in water equivalent to 2.0 gal/1000 ft². Plots were 4 ft × 5 ft and arranged in a randomized complete block design with four replications. Plots were rated periodically by visually estimating the percentage of each plot affected by dollar spot or brown patch symptoms.

Dollar spot severity remained less than 10% from late Jun through early Aug then steadily increased from mid-Aug into Sep. All materials provided reduced dollar spot to zero except for a trace amount in the Emerald 0.18 oz treatment on 19 Jun. Brown patch symptoms were visible on only one rating date at low levels, and all fungicides reduced disease to zero. No phytotoxic effects were observed.

Treatment and rate/1000 ft ² *	Spray interval (days)	Dollar Spot Severity**					Brown Patch Severity**	
		19 Jun	17 Jul	12 Aug	28 Aug	10 Sep	17 Jul	
Untreated control.....	--	7.0 a	4.3 a	14.5 a	20.0 a	42.5 a	2.3 a	
Honor 28WG 0.55 oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Insignia 20WG 0.5 oz +	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Trinity 1.69SC 1.0 fl oz.....								
Emerald 70WG 0.13 oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Emerald 70WG 0.18 oz.....	21	1.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Honor 28WG 0.83 oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Honor 28WG 1.1 oz.....	21	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	

*14-day interval application calendar dates were 28 May, 10 and 25 Jun, 7 and 21 Jul, and 5 and 20 Aug. 21-day interval application calendar dates were 28 May, 17 Jun, 7 Jul and 29 Jul, and 20 Aug.

** Values represent the average percentage of plot area blighted by dollar spot or brown patch symptoms. Means within columns followed by the same letter are not significantly different according to Tukey's pairwise comparisons (family error rate P=0.05).