

CREEPING BENTGRASS (*Agrostis stolonifera* 'A4')
 Dollar Spot; *Sclerotinia homoeocarpa*
 Brown patch; *Rhizoctonia solani*

M. Kennelly and C. Thompson
 Department of Plant Pathology and Department of
 Horticulture, Forestry, and Recreation Resources
 Kansas State University
 Manhattan, KS 66506-5502

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 'A4' 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-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 × 10 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 was present on several rating dates but never exceeded 10% severity. All materials provided reduced dollar spot to zero except for a trace amount in the Reserve 2.8 fl oz treatment on 17 Jul and 12 Aug. Brown patch symptoms were visible on only one rating date, and all fungicides reduced brown patch to zero. A slight blue-green color typical of DMI fungicide growth-regulator effects was visible in the Banner Maxx and Concert treatments on most rating dates.

Treatment and rate/1000 ft ² *	Spray interval (days)	Dollar Spot Severity**				Brown Patch Severity**	
		19 Jun	17 Jul	12 Aug	27 Aug	17 Jul	
Untreated control	--	5.5 a	4.8 a	7.8 a	8.8 a	5.8 a	
Triton Flo 3.1SC 0.5 fl oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Triton Flo 3.1SC 0.75 fl oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Triton Flo 1.0 fl oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Banner Maxx 2.0 fl oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Reserve 4.8SC 2.8 fl oz	14	0.0 b	0.3 b	0.3 b	0.0 b	0.0 b	
Reserve 4.8SC 3.2 fl oz	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Reserve 4.8SC 3.6 fl oz	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Reserve 4.8SC 4.5 fl oz	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	
Concert 4.3SE 5.0 fl oz.....	14	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b	

*Application dates were 28 May, 10 and 25 Jun, 7 and 21 Jul, and 5 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).