

**Evaluation of fungicides for control of dollar spot of fairway height creeping bentgrass in Kansas, 2012.**

Fungicides were evaluated on an established stand of creeping bentgrass on Chase silt loam at the Rocky Ford Turfgrass Research Center in Manhattan, KS. The area was mowed three times per week at 0.625-in., and irrigated for 10 min each night. Fungicides were either applied preventatively at approximately a 21- or 28-day interval beginning on 14 May, or curatively at the first sign of disease on 28 May and on a 21-day interval thereafter. Fungicides were applied using a hand-held CO<sub>2</sub>-powered sprayer equipped with two TeeJet 8004VS flat spray nozzles at 30 psi. Plots were 4 ft × 9 ft and arranged in a randomized complete block design with four replications. Dollar spot severity was assessed every other week by visually estimating the percentage of each plot affected by blight symptoms. Data were subject to the analysis of variance and treatment means were separated using pairwise comparisons with Tukey’s HSD ( $\alpha_{FER}=0.05$ ). Dollar spot data were log (y + 1) transformed for analysis and back-transformed for presentation.

Dollar spot pressure was very low throughout the season. Symptoms were first observed on 5 Jul. Disease was most severe on 1 Aug when untreated plots averaged only 3.0% blight from dollar spot symptoms. All treatments reduced disease compared to the untreated controls. None of the fungicides were phytotoxic to turf at the rates evaluated.

Treatment and rate 1,000 ft <sup>-2</sup>	Application timing <sup>z</sup>	Dollar spot severity <sup>y</sup>						
		22 Jun	5 Jul	18 Jul	1 Aug	17 Aug	30 Aug	14 Sep
Untreated.....		0.0	1.8 a <sup>x</sup>	1.0	3.0 a	0.8	1.3 a	0.0
Interface 2.27SC 3.0 fl oz.....	ACEGHI	0.0	0.5 ab	0.0	0.0 b	0.0	0.0 b	0.0
Interface 2.27SC 4.0 fl oz.....	ACEGHI	0.0	0.5 ab	0.0	0.0 b	0.3	0.0 b	0.0
Honor 28WG 0.83 oz.....	ACEGHI	0.0	0.3 ab	0.0	0.0 b	0.3	0.0 b	0.0
Iprodione Pro 2SE 4 fl oz.....	ACEGHI	0.0	0.5 ab	0.0	0.0 b	0.0	0.0 b	0.0
Encartis 749.2SC 3.0 fl oz.....	BDFGHI	0.0	0.5 ab	0.0	0.0 b	0.3	0.3 ab	0.0
Xzemplar 300SC 0.26 fl oz.....	BDFGHI	0.0	0.0 b	0.0	0.0 b	0.5	0.0 b	0.0
Emerald 70WG 0.18 oz.....	BDFGHI	0.0	1.0 ab	0.0	0.0 b	1.5	0.0 b	0.0
Velista 50WDG 0.5 oz.....	BDFGHI	0.0	0.3 ab	0.0	0.0 b	0.8	0.0 b	0.0
Velista 50WDG 0.5 oz +	BDFGHI							
Daconil Ultrex 82.5WG 3 oz...		0.0	0.5 ab	0.0	0.5 b	0.3	0.0 b	0.0

<sup>z</sup> Treatment dates: A = 14 May, B = 28 May, C = 4 June, D = 18 June, E = 2 July, F = 9 July, G = 30 July, H = 20 Aug, I = 10 Sep.

<sup>y</sup>Dollar spot severity was determined by visually estimating the percentage of each plot affected by blight symptoms.

<sup>x</sup>Means within columns followed by the same letter are not significantly different according to Tukey’s HSD ( $\alpha_{FER}=0.05$ ).