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Evaluation of Fungicides for Control of Brown Patch in Creeping Bentgrass, 2007

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Trials were conducted at the WOI greens of Veenker Memorial Golf Course in Ames, Iowa. Creeping bentgrass (cv. Washington) was maintained at 0.16-inch cutting height. Fungicides selected for activity against brown patch were applied using a backpack sprayer at 30 psi and a dilution rate of 5 gal per 1000 sq ft. The experimental design was a randomized complete block with four replications. All plots measured 4 ft x 5 ft. Spray applications were initiated on 8 Jun, followed by re-applications at recommended intervals until 9 Aug. Visual estimates of disease severity were made at approximately 14-day intervals starting on 12 Jul with a qualitative scale of 0-5 for brown patch, where 0 = no disease; 1 = 1-5%; 2 = 6-10%; 3 = 11-25%; 4 = 26-50%; 5 = >50% plot symptomatic. Data were analyzed using the GLM procedure in SAS and mean separations were determined using Fisher's protected LSD at $P \leq 0.05$.

Disease pressure was moderate. Most of the tested products suppressed brown patch significantly ($P \leq 0.05$) in comparison to the unsprayed check. No phytotoxicity symptoms were observed during the trial.

Products and rates per 1000 sq ft	Interval (days)	Brown patch (0-5 scale) ²		
		12 Jul	26 Jul	9 Aug
Unsprayed check.....	---	4.33 a	4.50 a	4.00 a
3336 F Plus 4 oz + CLEXP-13 0.5 v/v	21 d	1.00 b	3.75 ab	4.50 a
Emerald 0.13 oz.....	14 d	1.00 b	3.00 bc	1.00 bc
3336 F Plus 2 oz + CLEXP-14 0.125 v/v	21 d	1.00 b	2.50 c	2.25 b
3336 F 2 oz.....	21 d	1.50 b	2.50 c	4.75 a
3336 Plus 4 oz.....	21 d	0.50 b	1.25 de	3.75 a
Headway 1.3 MEC 0.75 fl oz.....	28 d	0.25 b	0.50 ef	1.25 c
V-10116 50 WD 0.37 oz.....	14 d	0.25b	00.0 f	0.00 c
V-10116 50 WD 0.18 oz.....	14 d	0.25b	00.0 f	0.00 c
Trinity 1.0 oz.....	14 d	0.00 b	00.0 f	0.00 c
Insignia 0.5 oz.....	14 d	1.00 b	00.0 f	0.00 c
Tartan SC 1 fl oz.....	14 d	0.25 b	00.0 f	0.00 c
Tartan SC 1.5 fl oz.....	14 d	0.00 b	00.0 f	0.00 c
Lynx SC 1.0 oz.....	14 d	0.25 b	00.0 f	0.00 c
Lynx SC 2.0 oz.....	14 d	0.00 b	0.00 f	0.00 c
Headway 1.3 MEC 0.75 fl oz.....	14 d	0.00 b	0.00 f	0.00 c
Headway 1.3 MEC 0.75 fl oz.....	21 d	0.50 b	0.00 f	0.5 c
LSD (0.05) ^x	---	1.58	1.12	1.31

²Disease rating scale 0 = no disease; 1 = 1-5%; 2 = 6-10%; 3 = 11-25%; 4 = 26-50%; 5 = >50% plot symptomatic.

^x Means followed by the same letter are not significantly different within column according to Fisher's protected LSD at $P \leq 0.05$.