

Preventative control of brown patch on creeping bentgrass, 2004.

Tests were conducted on a Bridgehampton silt loam located at the Skogley Memorial Turfgrass Research Facility at the University of Rhode Island. The turf was maintained at a 0.13 inch mowing height, irrigated as needed and a total of 4 lbs N was applied in four separate applications throughout the course of the season as a slow release formulation. Plots measured 5 ft x 5 ft with no borders, and were arranged in a randomized complete block design with three replicates on an original mixture of 83% ‘Penncross’ and 17% ‘Penneagle’ creeping bentgrass with minimal *Poa annua* invasion. Fungicides were applied using a CO₂-pressurized hand held sprayer fitted with TeeJet 8004VS Visiflow flat fan nozzles delivering 3.2 gal/1000 sq ft at 40 psi. All treatments were first applied on 7 Jun before brown patch started to appear. All other sprays were made on approximately a 14 day interval (21 Jun, 5 and 19 Jul, 3 and 19 Aug) with the exception of one Insignia treatment, which was approximately every 28 days, following 7 Jun (5 Jul and 3 Aug). Artificial inoculum was not employed in this experiment.

While measurable disease was not observed during the first rating, significant disease was observed on the second and third rating dates. Control plots had an average of 18% disease during the most intense period of disease activity, on 3 Aug. All chemicals applied resulted in statistically similar results, however, results from the Bayer Northern program may not have been esthetically acceptable at 2.7% disease.

Treatment and rate per 1000 sq ft	% brown patch		
	14 Jun *	15 Jul	3 Aug
Control	0.0 a	6.0 a	18.0 a
Signature 80WDG 4 oz + Compass 50WDG 0.15 oz	0.0 a	0.0 b	0.0 b
EXP 0357 0.157G 5 lbs	0.0 a	0.0 b	0.7 b
EXP 0357 0.157G 10 lbs	0.0 a	0.0 b	1.3 b
Compass 50WDG 0.2 oz	0.0 a	0.0 b	0.0 b
Bayer Northern Program **	0.0 a	0.0 b	2.7 b
Insignia 20WG 0.5 oz	0.0 a	0.0 b	0.0 b
Insignia 20WG 0.9 oz (28 Day)	0.0 a	0.0 b	0.0 b
Iprodione Pro 2SE 4 fl oz	0.0 a	0.0 b	0.0 b

* Plots were rated based on the percentage of symptomatic plot area. Means within a column followed by the same letter are not significantly different, according to the Waller-Duncan k-ratio t-test (k=100, $P \leq 0.05$).

** Bayer Northern Program: 7 Jun, Signature 80WDG 4 oz + 26GT 2SC 4 fl oz. 21 Jun, Bayleton 50WSP 1 oz + Compass 50WDG 0.2 oz. 5 Jul, Signature 80WDG 4 oz + Daconil Ultrex 82.5WDG 3.2 oz + Banol 6S 2 fl oz. 19 Jul, Signature 80 WDG 4 oz + 26GT 2SC 4 fl oz. 3 Aug, Signature 80WDG 4 oz + Daconil Ultrex 82.5WDG 3.2 oz + Banol 6S 2 fl oz. 19 Aug, Signature 80 WDG 4 oz + 26GT 2SC 4 fl oz.