

Preventative control of large patch in St. Augustinegrass, 2004-2005.

Fungicides were evaluated for preventative control of large patch in St. Augustinegrass. This trial was conducted on a home lawn in Wilmington, NC established with 'Raleigh' St. Augustinegrass. Mowing was performed weekly at a height of 2 in. with clippings returned, and the site was irrigated to prevent drought stress. Plots were 5 ft x 6 ft and were arranged in a randomized complete block with four replications. Fungicides were applied in water equivalent to 3 gal per 1000 sq ft with a CO₂ powered sprayer at 40 psi using TeeJet 8004 nozzles. All treatments were initiated on 25 Aug 04, with selected treatments receiving a follow-up application on 7 Oct 04 as indicated in the table. The severity of large patch symptoms was assessed on 19 Nov 04 and 10 Dec 04, using a 1 to 9 scale (9=most severe, 5=acceptable). Turfgrass quality was also evaluated on 10 Dec 04 and 17 May 05, using a 1 to 9 scale (9=best, 5=acceptable) based on color, density, and uniformity. Data were subjected to analysis of variance and means separation using the Waller-Duncan k-ratio t-test (k=100).

Large patch symptoms were first observed in the experimental area on 19 Nov, but no fungicides significantly reduced large patch severity on this date. Heritage TL (2 fl oz, 2 applications) and Bayleton (2 oz, 1 application) significantly reduced large patch severity 10 Dec, but only Heritage TL increased turf quality on this date. One or two applications of Bayleton at the 1 oz rate did not reduce large patch severity. No symptoms of large patch were observed in the experimental area during Spring 2005, and fall fungicide applications had no significant effect on turf quality on 17 May.

Treatment and rate / 1000 sq ft	Spray interval (days)	Large patch severity ^z		Turf quality ^y	
		19 Nov 04	10 Dec 04	10 Dec 04	17 May 05
Insignia 20WG 0.9 oz	A ^x	0.3 b ^w	4.5 a-d	5.0 ab	5.8 a
Insignia 20WG 0.9 oz	AB	0.8 ab	4.8 a-d	5.8 ab	5.5 a
Heritage TL 2 fl oz	A	0.8 ab	3.8 a-d	5.3 ab	6.0 a
Heritage TL 2 fl oz	AB	0.8 ab	2.5 d	7.3 a	4.5 a
ProStar 70WP 3 oz	A	0.3 b	3.5 bcd	6.0 ab	4.3 a
ProStar 70WP 3 oz	AB	1.3 ab	3.3 cd	6.3 ab	6.0 a
Bayleton 50DF 1 oz	A	1.5 ab	6.8 a	4.0 b	4.3 a
Bayleton 50DF 2 oz	A	0.5 ab	2.3 d	5.8 ab	5.3 a
Bayleton 50DF 1 oz	AB	2.8 a	6.8 a	3.5 b	3.0 a
Banner Maxx 1.24ME 4 fl oz	A	1.3 ab	3.5 bcd	5.3 ab	4.0 a
Banner Maxx 1.24ME 4 fl oz	AB	1.0 ab	6.5 ab	3.8 b	5.3 a
SysStar 90WDG 3 oz	A	2.0 ab	5.0 a-d	5.3 ab	5.0 a
SysStar 90WDG 3 oz	AB	0.5 ab	3.3 cd	6.0 ab	5.0 a
Untreated Control	--	1.8 ab	5.8 abc	3.6 b	4.3 a

^zLarge patch severity on a 1 to 9 scale, where 0=no disease, 5 = moderate severity, and 9 = highest severity.

^yTurfgrass quality on a 1 to 9 scale, where 9=highest quality and 5=acceptable quality.

^xApplication code indicates the application date(s) for each treatment: A, 25 Aug 04; B, 7 Oct 04.

^wValues are means of four replicates. Means within columns followed by the same letter are not significantly different according to Waller-Duncan k-ratio t-test (k=100).