

Brown Patch Control Strategies

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Brown patch caused by *Rhizoctonia solani* is a foliar pathogen that can damage large areas of turfgrass when managed improperly. The disease appears as brown patches a few inches to several feet in size. The damage caused by the patches can range in severity from thinning to a complete loss of the turfs foliage if left unchecked. Golf course greens, tees, and fairways are all sites that should be monitored for the development of brown patch. The disease often occurs during the hottest periods in summer when daytime temperatures reach 80F coupled with high humidity, and nighttime temperatures that remain above 70F. *R. solani* survives very well on organic matter in the soil where it slowly develops over the course of the summer. Once conditions are optimal for infection, the fungus attacks the above leaves thus destroying a large patch of grass. Perhaps the most important cultural practice for minimizing the severity of brown patch is to reduce nitrogen inputs when conditions favor disease. Fungicides used on a preventive basis are the best means of managing this disease.

Today's tour stop will highlight several standard control products and strategies for managing brown patch on a creeping bentgrass green. Also highlighted at this stop will be an introduction of some new fungicide chemistries and an evaluation of these. The following is a list of treatments in this study.

	Treatment	Rate/1000 sq ft	Interval (Days)
1	Prostar	2.2 oz	14
2	Insignia 20WG	0.5 oz	14
3	Insignia 20WG	0.9 oz	28
4	Insignia alt / Chipco	0.5 oz / 4.0 oz	14 alt
5	Honor	0.2 oz	14
6	Chipco 26 GT	4 fl oz	14
7	TD 2390	6 oz	
8	WAC79	5 fl oz	14
9	Spectro 90 WDG	4 oz	14
10	WAC79 5 fl oz + Spectro 90 WDG 4 oz		14
11	Endorse	4 oz	14
12	Endorse	6 oz	14
13	SysStar WDG	3 oz	21
14	SysTec	1.5 oz	14
15	Heritage	0.2 oz	14
16	Dac Ultrex	3.2 oz	10
17	Control		

Plot plan(N)

	A	B	C	D	E	F	G
1	1	14	X	X	9	5	X
2	2	13	15	7	X	X	3
3	3	12	X	2	16	18	12
4	4	11	16	15	10	1	6
5	5	10	17	4	13	8	17
6	6	9	18	11	9	6	3
7	7	8	X	15	14	17	13
8	9	5	11	5	7	1	8
9	3	15	X	7	18	11	16
10	18	12	2	16	X	4	10
11	13	1	17	14	2	X	X
12	6	8	10	4	14	12	X