

# **Evaluation of Fungicide Combinations for the Control *Poa annua* Summer Stress**

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## **INTRODUCTION**

To evaluate chemical combinations effects on *Poa annua* turf quality maintained at 0.125" mowing height.

## **EXPERIMENTAL METHODS**

Individual plots, 3 ft x 10 ft, were arranged in a randomized complete block design with four replications. Treatments were applied with a CO<sub>2</sub>-powered boom sprayer, using XR Teejet 8005 VS nozzles, at 30 psi, in water equivalent to 2 gal per 1000 sq. ft. Applications were initiated on June 14, 2000. Follow-up applications were applied based on their applications interval. Turf quality and disease incidence ratings were taken on July 16, and August 15, 2000. The area received 3 pounds of nitrogen from Feed Grade Urea (46-0-0) during the growing season. One pound applications were applied on both April 24 and May 25, 2000. Two 1/2# applications were made on July 8 and July 25, 2000. Data obtained was subjected to analysis of variance and LSD was used to determine significant differences between treatment means.

## **DISCUSSION**

While all the combinations performed better then their components individually, the treatments with Chipco Signature on a 14-day schedule performed the best. The additive properties of these chemicals significantly reduce the amount of damage caused by dollar spot and anthracnose in comparison to the individual treatments and the check. Turf quality also benefited from the combination of the fungicides, with the best combination being Daconil Ultrex + Chipco Signature.

## Quality and Disease Ratings

#	Treatment	Form.	Rate	Unit	Interval	% Damage		<sup>1/2</sup> Turf Quality		<sup>1/2</sup> Turf Quality	
						7-16-00		7-16-00		8-15-00	
1	Heritage	50 WDG	0.4	Oz/1000 ft <sup>2</sup>	28 Day	7.5	CD	6.75	AB	7.13	AB
	Daconil Ultrex	82.5 WDG	3.2	Oz/1000 ft <sup>2</sup>	14 Day						
2	Chipco Signature	80 WDG	4.0	Oz/1000 ft <sup>2</sup>	14 Day						
	Heritage	50 WDG	0.4	Oz/1000 ft <sup>2</sup>	28 Day	16.3	B	5.13	CD	6.25	BC
3	Daconil Ultrex	82.5 WDG	3.2	Oz/1000 ft <sup>2</sup>	14 Day						
	Chipco Signature	80 WDG	4.0	Oz/1000 ft <sup>2</sup>	14 Day	5.0	CD	6.88	A	7.75	A
4	Daconil Ultrex	82.5 WDG	3.8	Oz/1000 ft <sup>2</sup>	14 Day						
	Chipco Signature	80 WDG	4.0	Oz/1000 ft <sup>2</sup>	28 Day	3.8	D	6.63	AB	6.63	BC
5	Heritage	50 WDG	0.4	Oz/1000 ft <sup>2</sup>	28 Day						
	Daconil Ultrex	82.5 WDG	3.2	Oz/1000 ft <sup>2</sup>	14 Day						
6	Heritage	50 WDG	0.4	Oz/1000 ft <sup>2</sup>	28 Day	16.3	B	5.0	BCD	6.13	BC
	Daconil Ultrex	82.5 WDG	3.2	Oz/1000 ft <sup>2</sup>	14 Day	16.3	B	4.88	CD	6.25	CD
7	Chipco Signature	80 WDG	4.0	Oz/1000 ft <sup>2</sup>	14 Day	16.3	B	5.63	A-D	5.88	BC
	Chipco Signature	80 WDG	4.0	Oz/1000 ft <sup>2</sup>	28 Day	10.0	C	6.00	ABC	6.25	CD
9	Check					25.0	A	4.50	D	4.88	D
	LSD (P=0.05)					5.11		1.304		1.221	

<sup>1</sup> Percent damage means followed by the same letter do not significantly differ, (LSD 0.05)

<sup>2</sup> Turf quality scale: 0-9, 4.5 acceptable, 9 = Best, 0 = Dead