

## Acti-dione TGF - Daconil 2787 WP Combination Dollarspot Study - 1980

This efficacy, phytotoxicity and compatibility study was conducted on a dollarspot (Sclerotinia homoeocarpa) infected Toronto creeping bentgrass green on the Crops and Soils Field Laboratory, Michigan State University, East Lansing, MI. The green received 1/2 lb. nitrogen/1000 sq. ft. for the season 2 weeks from the initiation of the study. The green was mowed at a 1/4 inch height three times a week and irrigated on an as needed basis.

The study was replicated three times in a random block design with treatments being applied curatively on September 3, September 12, September 19 and September 29. The treatments were applied to 3 feet x 6 feet plots with a CO<sub>2</sub> small-plot sprayer at a volume of 40 gal./acre. Disease pressure was moderately heavy throughout the duration of the study. The plots were rated on September 16, following the second application and on October 8, following the fourth application.

### Results and Conclusions

The results in Table 8 show that after 2 applications (9 days apart) all treatments gave significant control over the untreated check although not complete control. Table 9 shows that after four fungicide applications, with the longest application interval being 10 days, all treatments again gave significant control over the untreated check with Acti-dione TGF 1 oz, Acti-dione TGF 2 oz, Daconil 2787 WP 2 oz, and Bayleton .125 oz ai, all completely eliminating the disease.

Table 8. Acti-dione TGF - Daconil 2787 WP Combination Dollarspot Study  
MSU Crops and Soils Field Laboratory  
Disease Rating - 1, no disease; 9, severe disease. 9/16/80.

Treatment	Rate/1000 ft <sup>2</sup>	Replication			AVE	DMR (5%)
		I	II	III		
Acti-dione TGF*	1 oz.	2	2	2	2	A
Bayleton	.125 oz. ai.	2	2	2	2	A
Acti-dione TGF + Daconil 2787 WP*	1 oz. + 1 oz.	2	3	2	2.3	AB
Daconil 2787 WP	2 oz.	2	3	3	2.7	AB
Acti-dione TGF*	2 oz.	2	3	3	2.7	AB
Daconil 2787 WP	1 oz.	3	3	3	3	B
Acti-dione TGF + Bayleton	1 oz. + .125 oz. ai.	3	3	3	3	B
Check	-	8	9	7	8	C

Notes: Treatments followed by the same letter are not significantly different from each other at the 5% level.

\*Phytotoxicity observed on Acti-dione TFG plots at 1 oz. and 2 oz. rates, as well as in combination with Daconil 2787 WP. No phytotoxicity observed in combination with Bayleton.

No compatibility problems were encountered.

Table 9. Acti-dione TGF - Daconil 2787 WP Combination Dollarspot Study  
MSU Crops and Soils Field Laboratory  
Disease Rating - 1, no disease; 9, severe disease. 10/8/80.

Treatment	Rate/1000 ft <sup>2</sup>	Replication			AVE	DMR (5%)
		I	II	III		
Acti-dione TGF*	1 oz.	1	1	1	1	A
Acti-dione TGF*	2 oz.	1	1	1	1	A
Daconil 2787	2 oz.	1	1	1	1	A
Bayleton	.125 oz. ai.	1	1	1	1	A
Acti-dione TGF + Bayleton	1 oz. + .125 oz. ai.	1	2	2	1.7	AB
Acti-dione TFG + Daconil 2787 WP*	1 oz. + 1 oz.	1	2	2	1.7	AB
Daconil 2787 WP	1 oz.	1	2	3	2	B
Check	1	7	6	7	6.7	C

Notes: Treatments followed by the same letter are not significantly different from each other at the 5% level.

\*Phytotoxicity observed on Acti-dione TFG plots at 1 oz. and 2 oz. rates, as well as in combination with Daconil 2787 WP. No phytotoxicity observed in combination with Bayleton.

No compatibility problems were encountered.