

Helminthosporium Melting-Out Acti-Dione Fungicide Study 1980
Hartland Glen Golf Course, Hartland, MI

The 1980 Up-John Acti-dione melting-out study was conducted on a Baron Kentucky bluegrass fairway at Hartland Glen Golf Course in Hartland, MI.

On May 2, the entire plot area, except for the check plots, was treated with a tank mix combination of Acti-dione RZ (12 oz/A) and Acti-dione TGF (15 oz/A).

In subsequent weeks, Acti-dione RZ (24 oz/A) was applied at weekly, bi-weekly, tri-weekly and monthly intervals in 3 replications each. These applications continued through June 4, at which time the weekly plots had received 5 Acti-dione RZ treatments, the bi-weekly plots had received 2 treatments, the tri-weekly plots had received 1 treatment, and the monthly plots had received 1 treatment. The three remaining Acti-dione RZ + Acti-dione TGF treated plots received no additional treatments after May 2. All treatments were applied with a CO₂ small-plot sprayer at a volume of 40 gal/A.

The plots were rated on June 13 (Table 5).

Results and Conclusions

The acti-dione RZ treatments all gave significant control over the untreated check except the Acti-dione monthly application which received one additional treatment after the initial Acti-dione RZ and Acti-dione TGF treatment on May 2. There appears to be merit in further investigation of this program on a more susceptible Kentucky bluegrass cultivar to see if there are greater differences among treatments.

Table 5. Hartland Glen Helminthosporium Melting-Out - Fungicide Study 1980
Disease Infection Rating - Scale 1-9 (1, no disease; 9, severe disease).
Rating Taken - 6/13/80

Treatment	Rate/acre	Replication			AVE	DMR
		I	II	III		
Acti-dione RZ (weekly)	24 oz./A	2	3	2	2.3	A
Acti-dione RZ (biweekly)	24 oz./A	3	3	5	3.7	AB
Acti-dione RZ + Acti-dione TGF (once only)	12 oz./A + 15 oz./A	3	3	6	4	AB
Acti-dione RZ (triweekly)	24 oz./A	4	6	3	4.3	AB
Acti-dione RZ (monthly)	24 oz./A	5	7	5	5.7	BC
Control	-	7	7	7	7	C

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