

## Helminthosporium (Melting-Out) Fungicide Study - 1980

The 1980 Helminthosporium melting-out (*Helminthosporium vagans*) fungicide study was conducted at the MSU Soils Research Farm on Park Kentucky bluegrass maintained at a 1-1/2 inch height of cut. Fungicide treatments were applied on a bi-weekly schedule on May 6, May 19 and June 4, except as noted on the data charts. All materials were applied with a CO<sub>2</sub> small-plot sprayer at a volume of 40 gal/acre.

The plots were 3 feet x 6 feet and were replicated three times in a randomized block design. The plots were rated on June 10.

### Results and Conclusions

There was severe Helminthosporium melting-out disease pressure during the spring of 1980. Many fungicides which normally have ratings of 1 and 2 had much higher ratings. Only four chemicals under this severe pressure gave significant control compared to the untreated check: Chipco 26019 at the 2 oz rate, CGA-64251 at the 12 and 8 gm ai (active ingredient) rate and Acti-dione RZ at the .55 oz rate.

Table 4. MSU Soils Farm Helminthosporium Melting-Out - Fungicide Study Disease Infection Rating - Scale 1-9 (1, no disease; 9, severe disease).  
Rating Taken - 6/10/80

Treatment	Rate/1000 ft <sup>2</sup>	Replication			AVE	DMR
		I	II	III		
Chipco 26019	2 oz.	3	2	4	3	A
CGA 64251	8 gm. ai.	2	3	4	3	A
CGA 64251	12 gm. ai.	4	4	2	3.3	A
Acti-dione RZ	.55 oz.	3	4	4	3.7	AB
Daconil 500	6 fl. oz.	5	4	3	4	ABC
Daconil 500	3 fl. oz.	5	3	6	4.7	ABC
KL 589-05-80 + Biofilm*	7.6 gm. + 7 fl. oz./100 gal.	2	8	4	4.7	ABC
KL 591-05-80* Biofilm*	7.6 gm. 7 fl. oz./100 gal.	3	8	6	5.7	ABC
Acti-dione TGF	.69 oz.	8	3	7	6	ABC
Hydrated Lime + Powder Blue	1 lb. + 2 lb.	8	7	3	6	ABC
KL 589-05-80*	7.6 gm.	8	8	4	6.7	ABC
KL 591-05-80 + Biofilm*	7.6 gm. + 7 fl. oz./100 gal.	9	8	5	7.3	BC
Check	-	9	8	6	7.7	C

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

\*Received only 2 treatments, on May 19 and June 4.