

2. Helminthosporium Leaf Spot Study

The Helminthosporium leaf spot study was conducted at the M.S.U. Soils Farm on Park Kentucky Bluegrass maintained at a 2 inch height of cut. The plots were 6 x 6 ft. and replicated 3 times in a random block design. The liquid applications were made with a CO₂ hand held sprayer and the dry applications were made with a Scotts 3 ft. spreader. The treatments were applied on May 8, 15, 30 and June 12 except for Scotts F + F II which was applied only once on May 8 and Spectro and Cleary's 4223 which were applied twice on May 30 and June 12. The readings were taken on June 19. The plots were rated on a 0-9 scale with a 0 representing no spots present on the leaf blade and 9 representing 90% or more of the leaf blade surface covered with spots.

The results in Table 1 show that most of the fungicides at one or more rates gave significant control when compared to the untreated check. The noticeable exceptions being EL-222, Cleary's 4223, and Fungo. Those ranking highest in the study (giving the best control) were RP 26019, 2 + 4 oz., Dyrene 4, 5, 6, 8 oz., Daconil 2787 4, 6, 8 oz., Daconil 4 + 6 oz., plus Exhalt 800 1 pt/100 gal and Acti-dione RZ, 4 oz.

Table 1. Helminthosporium Leaf Spot Fungicide Trials

Treatment	Rate of ² 1000 ft ²		Ratings ²			Average ¹
			I	II	III	
RP 26019	2	oz.	2	1.5	1.5	1.7 a
RP 26019	4	oz.	1.5	2	1.5	1.7 a
Dyrene	4	oz.	2	2	2	2 a b
Dyrene	5	oz.	2	3	2	2.3 a b c
Dyrene	8	oz.	2	1.5	4	2.5 a b c d
Dyrene	6	oz.	2	3	3	2.7 a b c d
Daconil 2787	4	oz.	2	2	4	2.7 a b c d
Daconil 2787 Exhalt 800	4 1 pt/100 gal	oz.	2	2	4	2.7 a b c d
Daconil 2787 Exhalt 800	6 1 pt/100 gal	oz.	3	3	2	2.7 a b c d
Daconil 2787	6	oz.	3	3	4	3.3 a b c d e
Daconil 2787	8	oz.	2	4	4	3.3 a b c d e
Acti-dione RZ	4	oz.	4	3	3	3.3 a b c d e
Daconil 2787	5	oz.	5	2	4	3.7 b c d e f
DPX 164	4	oz.	3	5	4	4 c d e f g
MF 573	6	oz.	4	3	5	4 c d e f g
Scotts F+F II	1x		5	4	4	4.3 d e f g h
Bromosan	6	oz.	3	5	5	4.3 d e f g h

Table 1. (cont'd)

Tersan LSR	4.5 oz.	4	6	5	5	e f g h i
DPX 164	2 oz.	6	5	5	5.3	f g h i j
Terraclor	4 oz.	6	4	6	5.3	f g h i j
MF 573	4 oz.	6	4	6	5.3	f g h i j
Spectro	4 oz.	5	5	7	5.7	g h i j
Terraclor	2 oz.	6	4	7	5.7	g h i j
Actidione-Thiram	2 oz.	5	8	5	6	h i j
Actidione-Thiram	4 oz.	5	6	8	6.3	i j
Cleary's 4223	2 oz.	5	6	8	6.3	i j
EL 222	2 oz.	5	7	7	6.3	i j
Fungo	1.8 oz.	5	7	8	6.7	i j
Tersan LSR	3 oz.	8	5	7	6.7	i j
Actidione-RZ	2 oz.	7	7	7	7	j
Bromosan	3 oz.	8	5	8	7	j k
Cleary's 4223	4 oz.	7	7	7	7	j k
EL 222	4 oz.	7	9	6	7	j k
Spectro	2 oz.	6	7	8	7	j k
Fungo	1.2 oz.	6	8	8	7.3	k
Exhalt 800	1 pt/100 gal	7	7	8	7.3	k
Check	-	8	7	9	8	

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

2. 1-least disease; 9-most disease.

3. Sclerotinia Dollar Spot Study

The regular Sclerotinia dollar spot study was conducted on the M.S.U. Crop Science Farm. The plots were 3 x 6 ft. and the treatments were replicated 3 times in a random block design. All treatments gave significant control compared to the untreated control. The treatments ranking at the top can be seen in Table 2.