

Dollarspot Fungicide Studies 1982
Hancock Turfgrass Research Center, MSU

Two dollarspot (Sclerotinia homoeocarpa) studies were conducted this year. One was established preventatively on an Emerald creeping bentgrass green and another was established curatively on an annual bluegrass area. Liquid applications were made with a CO₂ small plot sprayer at a volume of 40 gal./acre (except as noted on data sheets). Granular formulations were applied by hand.

Emerald Creeping Bentgrass Study

Treatments were applied preventatively to three replications of 3' x 6' plots in a random block design on an Emerald bentgrass green which was irrigated and fertilized as needed. This area was mowed daily at 1/4" height and clippings were removed.

All treatments were applied on August 3 with subsequent applications being made at the intervals indicated following each treatment on the data table. The last treatments were applied on September 16, at which time the 10 day treatments had been applied 5 times, the 14 day treatments - 4 times, the 21 day treatments - 3 times, the 28 day treatments - twice, and 30 day treatments - twice. The rating was taken on September 23. (Table 5)

Annual Bluegrass Study

Treatments were applied curatively to three replications of 6' x 6' plots in a random block design on an annual bluegrass (Poa annua) plot area which was irrigated and fertilized as needed. This area was mowed three times a week at 5/8" height of cut with clippings returned.

All treatments were applied on August 26 with subsequent treatments being applied at the intervals indicated on the data table. The last treatments were applied on September 14 with the 10 day treatments being applied three times, the 14 and the 21 day treatments - twice, and the 28 and 30 day treatments - once. The ratings were taken on September 23 and on September 29. (Tables 6 and 7)

Anthracnose Fungicide Study - 1982
Glen Gary Golf Club, Sylvania, Ohio

The 1982 anthracnose (Colletotrichum graminicola) fungicide studies were established in two locations, one at Glen Gary Country Club in Sylvania, Ohio, on an irrigated Poa annua (annual bluegrass) fairway mowed at 1/2" height of cut. The study was laid out in three repetitions of a random block design, utilizing 6' x 9' plots. All liquid applications were made with a CO₂ small-plot sprayer, while granular formulations were applied by hand.

Applications were made curatively on July 7 with subsequent applications being made at the intervals indicated on the data chart. The last applications were made on August 5 at which time the 10 day treatments had 4 applications, the 14 day treatments had 3 applications, and the 21 and 30 days treatments had received 2 applications.

The plots were rated on August 5 and August 17. (Tables 8 and 9)

Table 5

Creeping Bentgrass Dollar Spot Fungicide Study - 1982
 Hancock Turfgrass Research Center, MSU
 Disease rating - number of dollar spots/plot
 9/23/82

Treatment	Rate/1000 ft ² + Interval	Repetition				DMR
		I	II	III	AVE	
Chipco 26019	1.5 oz. (14 day sch.)	0	0	0	0	A
F-9648R	1X (14 day sch.)	0	0	0	0	A
F-9648R	2X (14 day sch.)	0	0	0	0	A
BAS 43603F	.21 oz. ai. (14 day sch.)	0	0	0	0	A
BAS 43603F	.28 oz. ai. (14 day sch.)	0	0	0	0	A
BAS 43603F	.62 oz. ai. (14 day sch.)	0	0	0	0	A
Rizolex	.5 gm. ai./m ² (14 day sch.)	0	0	0	0	A
Rizolex	1 gm. ai./m ² (14 day sch.)	0	0	0	0	A
Rizolex	2 gm. ai./m ² (14 day sch.)	0	0	0	0	A
Vorlan	1 oz. (14 day sch.)	0	0	0	0	A
Vorlan	2 oz. (14 day sch.)	0	0	0	0	A
Tersan 1991	1 oz. (14 day sch.)	0	0	0	0	A
Fungo 50	1 oz. (14 day sch.)	0	0	0	0	A
Cleary 3336	1 oz. (14 day sch.)	0	0	0	0	A
CGA-64250 (1.125 EC)	2 fl. oz. (14 day sch.)	0	0*	0*	0	A
CGA-64250 (1.125 EC)	4 fl. oz. (14 day sch.)	0	0*	0*	0	A
CGA-64250 (1.125 EC)	8 fl. oz. (14 day sch.)	0*	0*	0	0	A
CGA-64250 (3.6 EC)	2 fl. oz. (14 day sch.)	0**	0*	0*	0	A
CGA-64250 (3.6 EC)	4 fl. oz. (14 day sch.)	0*	0*	0**	0	A
CGA-64250 (3.6 EC)	8 fl. oz. (14 day sch.)	0**	0**	0***	0	A
CGA-64250 (1.125 EC)	.5 fl. oz. (14 day sch.)	0	0	0	0	A
Daconil 2787 FL + Tersan 1991	3 fl. oz. + 1 oz. (21 day sch.)	0	0	0	0	A
CGA-64250 (1.125 EC)	4 fl. oz. (21 day sch.)	0*	0*	0*	0	A
CGA-64250 (1.125 EC)	8 fl. oz. (21 day sch.)	0	0**	0*	0	A
CGA-64250 (1.125 EC)	16 fl. oz. (21 day sch.)	0**	0**	0**	0	A
CGA-64250 (1.125 EC)	1 fl. oz. (21 day sch.)	0	0	0	0	A
Bayleton	1 oz. (30 day sch.)	0	0	0	0	A
Bayleton	2 oz. (30 day sch.)	0	0	0	0	A
Bayleton	6.25 lbs. (GR) (30 day sch.)	0	0	0	0	A
Daconil 2787 FL	6 fl. oz. (14 day sch.)	0	0	1	.3	A
Daconil 2787 FL	2 fl. oz. (10 day sch.)	24	8	8	13.3	A
Chipco 26019	1.5 oz. (28 day sch.)	46	36	10	30.7	A
Daconil 2787 FL	3 fl. oz. (14 day sch.)	32	34	32	32.7	A
Prochloraz ¹	1.5 oz. ai. (14 day sch.)	0	23	160	61	AB
BTS 41661 ¹	1.5 oz. ai. (14 day sch.)	12	280	42	111.3	B
BTS 41661 ¹	3 oz. ai. (14 day sch.)	40	300	400	246.7	C
Acti-dione TGF	.34 oz. (14 day sch.)	350	180	260	263.3	C
Check	-	360	320	230	303.3	C

*Light phytotoxicity

**Moderate phytotoxicity

***Severe phytotoxicity

¹Applied in 2X water rate.

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

Table 6

Annual Bluegrass Dollar Spot Fungicide Study -1982
 Hancock Turfgrass Research Center, MSU
 Disease rating scale - 1(no disease)-9(90% infection or greater)
 Rated 9/23/82

<u>Treatment</u>	<u>Rate/1000 ft² + Inverval</u>	<u>Repetition</u>				DMR
		I	II	III	AVE	
Daconil 2787 + Tersan 1991	3 fl. oz. + 1 oz. (21 day sch.)	1	1	1	1	A
F-9648R	2X (14 day sch.)	2	1	1	1.3	AB
Bayleton	2 oz. (30 day sch.)	2	1	1	1.3	AB
Prochloraz**	1.5 oz. ai. (14 day sch.)	2	1	1	1.3	AB
CGA-64250 (1.125 EC)	.5 fl. oz. (14 day sch.)	3	1	1	1.7	ABC
F-9648R	1X (14 day sch.)	2	1	2	1.7	ABC
Bayleton	1 oz. (30 day sch.)	1	2	2	1.7	ABC
Bayleton (GR)	6.25 lbs. (30 day sch.)	1	2	3	2	ABCD
Daconil 2787 FL	6 fl. oz. (14 day sch.)	3	1	2	2	ABCD
Tersan 1991	1 oz. (14 day sch.)	2	3	1	2	ABCD
Vorlan	2 oz. (14 day sch.)	3	1	2	2	ABCD
Fungo 50	1 oz. (14 day sch.)	1	3	2	2	ABCD
BAS 43603F	.21 oz. ai. (14 day sch.)	3	2	1	2	ABCD
BAS 43603F	.28 oz. ai. (14 day sch.)	3	1	2	2	ABCD
Chipco 26019	1.5 oz. (14 day sch.)	3	3	1	2.3	ABCD
Vorlan	1 oz. (14 day sch.)	4	2	2	2.7	ABCD
CGA-64250 (1.125 EC)	1 fl. oz. (21 day sch.)	2	3	3	2.7	ABCD
BAS 43603F	.62 oz. ai. (14 day sch.)	4	1	3	2.7	ABCD
Cleary 3336	1 oz. (14 day sch.)	5	2	2	3	BCD
Daconil 2787 FL	3 fl. oz. (14 day sch.)	5	4	1	3.3	CD
Chipco 26019	1.5 oz. (28 day sch.)	3	3	4	3.3	CD
Daconil 2787 FL	2 fl. oz. (10 day sch.)	4	5	2	3.7	DE
AD-TGF + AD-RZ	.34 oz. + .55 oz. (14 day sch.)	4	4	3*	3.7	DE
BTS 41661**	3 oz. ai. (14 day sch.)	6	5	5	5.3	EF
BTS 41661**	1.5 oz. ai. (14 day sch.)	5	7	6	6	F
Check	-	9	8	7	8	G

*Yellowing evident.

**Applied in 2X water rate.

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

Table 7

Annual Bluegrass Dollar Spot Fungicide Study -1982
 Hancock Turfgrass Research Center, MSU
 Disease rating scale - 1(no disease)-9(90% infection or greater)
 Rated 9/29/82

<u>Treatment</u>	<u>Rate/1000 ft² + Inverval</u>	<u>Repetition</u>				DMR
		I	II	III	AVE	
Chipco 26019	1.5 oz. (14 day sch.)	1	1	1	1	A
F-9648R	1X (14 day sch.)	1	1	1	1	A
F-9648R	2X (14 day sch.)	1	1	1	1	A
Bayleton	2 oz. (30 day sch.)	1	1	1	1	A
BAS 43603F	.28 oz. ai. (14 day sch.)	1	1	1	1	A
Prochloraz**	1.5 oz. ai. (14 day sch.)	1	1	1	1	A
Vorlan	1 oz. (14 day sch.)	1	1	1	1	A
Fungo 50	1 oz. (14 day sch.)	1	1	1	1	A
CGA-64250 (1.125 EC)	1 fl. oz. (21 day sch.)	1	1	1	1	A
Bayleton	1 oz. (30 day sch.)	2	1	1	1.3	AB
Bayleton (GR)	6.25 lbs. (30 day sch.)	2	1	1	1.3	AB
BAS 43603F	.62 oz. ai. (14 day sch.)	2	1	1	1.3	AB
Daconil 2787 FL	6 fl. oz. (14 day sch.)	2	1	1	1.3	AB
Tersan 1991	1 oz. (14 day sch.)	2	1	1	1.3	AB
CGA-64250 (1.125 EC)	.5 fl. oz. (14 day sch.)	2	1	1	1.3	AB
Daconil 2787 + Tersan 1991	3 fl. oz. + 1 oz. (21 day sch.)	2	1	1	1.3	AB
BAS 43603F	.21 oz. ai. (14 day sch.)	3	1	1	1.7	AB
Vorlan	2 oz. (14 day sch.)	2	1	2	1.7	AB
Cleary 3336	1 oz. (14 day sch.)	3	1	1	1.7	AB
Chipco 26019	1.5 oz. (28 day sch.)	2	2	2	2	AB
Daconil 2787 FL	3 fl. oz. (14 day sch.)	5	2	1	2.7	BC
Acti-dione TGF	.34 oz. (14 day sch.)	4*	3	4	3.7	CD
Daconil 2787 FL	2 fl. oz. (10 day sch.)	5	6	2	4.3	D
BTS 41661**	1.5 oz. ai. (14 day sch.)	7	8	5	6.7	E
BTS 41661**	3 oz. ai. (14 day sch.)	7	7	6	6.7	E
Check	-	9	8	7	8	F

*Yellowing evident.

**Applied in 2X water rate.

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