

Dollar Spot Fungicide Studies - 1983
Hancock Turfgrass Research Center, MSU

Establishment:

Two dollar spot (Sclerotinia homeocarpa) studies were conducted this year. One was established on an annual bluegrass (Poa annua) fairway area and a second trial was established on a creeping bentgrass green. Liquid applications were made with a CO₂ small plot sprayer at a volume of 40 gal/acre and granular treatments were pre-weighed and applied by hand. Both studies were laid out with three replications in a random block design. The bentgrass plots were 3' x 6' while the annual bluegrass plots were 6' x 9'.

Annual Bluegrass Study

The annual bluegrass dollar spot study was established on an irrigated, simulated fairway area which was mowed at 1/2" height of cut and received moderate fertility. All treatments were applied preventatively on July 8 with subsequent applications being made at the intervals cited on the data table. When the rating was taken (Aug. 24) all 10 day treatments had received 5 applications, the 14 day treatments had 4 applications, the 21 day treatments had 3 applications, and the 30 day treatments had been applied twice.

Creeping Bentgrass Study

The creeping bentgrass dollar spot study was established on an irrigated Penneagle bentgrass green. The treatments were applied curatively on August 2 with subsequent applications being made at the intervals cited on the data table. When the ratings were taken (Sept. 2), the 10 day treatments had been applied 4 times; the 14 day treatments, 3 times; the 21 day treatments, twice; and the 30 day treatments, twice. Disease incidence in the plot area was low when the study was initiated, but it increased steadily and reached a peak around September 2, when the rating was taken.

Table 7. Hancock Annual Bluegrass Dollar Spot Fungicide Study - 1983.
 Hancock Turfgrass Research Center, MSU. Rating scale: 1 (no disease) - 9 (90% infection or greater). Rating date - 9/2/83.

Treatment	Rate ¹ /1000ft ² + Interval	Repetition					DMR ²
		I	II	III	AVE		
Fungo 50	1 oz. (21 day sch.)	3	2	2	2.3	A	
CGA 71818	6 gm. ai. (21 day sch.)	3	2	2	2.3	A	
Daconil 2787 FL	16 fl. oz. (21 day sch.)	3	3	2	2.7	AB	
Tersan 1991	1 oz. (21 day sch.)	5	1	2	2.7	AB	
Tersan 1991	2 oz. (21 day sch.)	4	2	2	2.7	AB	
Banner	1 fl. oz. (21 day sch.)	4	3	2	3	ABC	
Banner	2 fl. oz. (21 day sch.)	3	3	3	3	ABC	
Cl. 3336	2 oz. (21 day sch.)	4	4	4	3	ABC	
Banner	.5 fl. oz. (21 day sch.)	4	2	3	3	ABC	
Duosan	3 oz. (21 day sch.)	4	3	2	3	ABC	
Fungo 50	2 oz. (21 day sch.)	4	3	2	3	ABC	
Bayleton	2 oz. (21 day sch.)	3	4	3	3.3	ABC	
Bayleton	1 oz. (21 day sch.)	3	5	2	3.3	ABC	
BRC 227	2 lb. ai./A (21 day sch.)	5	3	2	3.3	ABC	
Cl. 3336	1 oz. (21 day sch.)	5	3	2	3.3	ABC	
Bayleton T.O.	2 oz. (30 day sch.)	5	2	3	3.3	ABC	
Daconil 2787 FL	6 fl. oz. (10 day sch.)	3	5	3	3.7	ABC	
Daconil 2787 FL	12 fl. oz. (21 day sch.)	4	4	3	3.7	ABC	
Daconil 2787 FL	8 fl. oz. (21 day sch.)	4	6	2	4	ABC	
CGA 71818	8 gm. qi. (21 day sch.)	3	6	3	4	ABC	
Bayleton T.O.	1 oz. (14 day sch.)	6	3	5	4.7	BCD	
Bayleton 5% Gr.	6.25 lbs (30 day sch.)	6	4	4	4.7	BCD	
Daconil 2787 FL	6 fl. oz. (14 day sch.)	5	5	4	4.7	BCD	
BRC 227	.1 lb ai./A (21 day sch.)	7	4	4	5	CDE	
Daconil 2787 FL	3 fl. oz. (10 day sch.)	7	4	4	5	CDE	
Daconil 2787 FL	1.47 fl. oz. (10 day sch.)	6	6	6	6	DEF	
Daconil 2787 FL	3 fl. oz. (14 day sch.)	7	7	5	6.3	DEF	
MF 654	1.5 oz. (21 day sch.)	8	6	5	6.3	DEF	
Daconil 2787 FL	2 fl. oz. (10 day sch.)	7	7	5	6.3	DEF	
NC 28410	4 oz. ai. (14 day sch.)	8	5	7	6.7	EF	
NC 28410	2 oz. ai. (14 day sch.)	7	8	5	6.7	EF	
Check	-	8	8	6	7.3	F	
MF 654	1 oz. (21 day sch.)	9	8	6	7.7	F	

¹ Rates indicate formulation, except as otherwise noted.

² Treatments followed by the same letter are not significantly different from each other at the 5% level.

Table 8. Hancock Bentgrass Dollar Spot Fungicide Study - 1983. Hancock Turfgrass Research Center, MSU. Rating scale: 1 (no disease) - 9 (90% infection or greater). Rating date - 9/2/83.

Treatment	Rate/l/1000 ft ² + Interval	Repetition				
		I	II	III	AVE	DMR ²
Vorlan	1 oz. (14 day sch.)	0	0	0	0	A
Vorlan	2 oz. (14 day sch.)	0	0	0	0	A
Duosan	3 oz. (14 day sch.)	0	0	0	0	A
MF 690	1.5 oz. (14 day sch.)	0	0	0	0	A
MF 690	3 oz. (14 day sch.)	0	0	0	0	A
MF 691	1.5 oz. (14 day sch.)	0	0	0	0	A
DPX 965-4L	.5 oz. ai. (14 day sch.)	0	0	0	0	A
DPOX H6573	.25 oz. ai. (14 day sch.)	0	0	0	0	A
DPX H6573	.5 oz. ai. (14 day sch.)	0	0	0	0	A
Tersan 1991	1 oz. (14 day sch.)	0	0	0	0	A
Daconil 2787 FL	6 fl. oz. (10 day sch.)	0	0	0	0	A
Daconil 2787 FL	8 fl. oz. (21 day sch.)	0	0	0	0	A
Daconil 2787 FL	12 fl. oz. (21 day sch.)	0	0	0	0	A
Daconil 2787 FL	16 fl. oz. (21 day sch.)	0	0	0	0	A
Bayleton T.O.	1 oz. (14 day sch.)	0	0	0	0	A
Banner	.5 fl. oz. (21 day sch.)	0	0	0	0	A
Banner	1 fl. oz. (21 day sch.)	0*	0	0*	0	A
Banner	2 fl. oz. (21 day sch.)	0*	0	0	0	A
Fungo 50	1 oz. (14 day sch.)	0	0	0	0	A
Cl. 3336	1 oz. (14 day sch.)	0	0	0	0	A
Bayleton	.5 oz. (14 day sch.)	0	0	0	0	A
Ad-TGF + Baylton	1 oz. + .5 oz. (14 day sch.)	0***	0**	0***	0	A
MF-691	3 oz. (14 day sch.)	0	8	0	2.7	A
Daconil 2787 FL	6 fl. oz. (14 day sch.)	10	0	0	3.3	A
Daconil 2787 FL	3 fl. oz. (10 day sch.)	0	12	0	4	A
AD-TGF + Daconil 2787 FL	1 oz. + 2.5 fl. oz. (14 day sch.)	13**	2***	0***	5	A
BRC 227	.2 lb ai./A (14 day sch.)	0	0	19	6.3	A
AD-TGF	1 oz. (14 day sch.)	4**	0**	20**	8	A
Chipco 26019	1.5 oz. (21 day sch.)	56	0	0	18.7	AB
Bayleton T.O.	2 oz. (30 day sch.)	38	22	14	24.7	ABC
BRC 227	.1 lb ai./A (14 day sch.)	44	26	17	29	ABc
Bayleton	2 oz. (30 day sch.)	30	38	60	42.7	ABCD
Daconil 2787 FL	3 fl. oz. (14 day sch.)	52	75	10	45.7	ABCD
Daconil 2787 FL	1.47 fl. oz. (10 day sch.)	73	6	115	64.7	BCD
Bayleton	1 oz. (30 day sch.)	40	119	75	75	CDE
Daconil 2787 FL	2.5 fl. oz. (14 day sch.)	52	125	57	78	DE
NC 28410	2 oz. (14 day sch.)	150	73	65	96	DE
Daconil 2787 FL	2 oz. (10 day sch.)	175	100	90	121.7	E
Bayleton Gr.	6.25 lbs. (30 day sch.)	250	86	40	125.3	E
NC 28410	4 oz. (14 day sch.)	200	195	155	183.3	F
Check	-	225	275	200	233.3	G

¹ Rates indicate formulation, except as otherwise noted.

² Treatments followed by the same letter are not significantly different from each other at 5% level.

* Indicates a visible greening effect.

** Indicates a mild phytotoxicity (brown tinge)

*** Indicates a moderate phytotoxicity (obvious browning of plot)