

Dollar Spot Fungicide Trial - 1995

Hancock Turfgrass Research Center
Michigan State University, E. Lansing, MI

The 1995 dollar spot (*Sclerotinia homoeocarpa*) fungicide trial was conducted on an irrigated Emerald creeping bentgrass green at the Hancock Turfgrass Research Center on the MSU campus in E. Lansing, MI. The green was maintained at 1/4" height of cut and was fertilized at 1/2 lb N./mo. Treatments were initially applied to mildly diseased 2' x 9' plots in four replications of a random block design on 7, 14, 21, or 28 day schedules as indicated on the data tables (Tables 9 & 10), beginning on 7/29/95. By the last rating date (10/28/95), the 7 day treatments had been applied 9 times, the 14 day treatments had been applied 5 times, the 21 day treatments had been applied three times, and the 28 day treatments were applied three times. The dollar spot strains in this test location are benzimidazole-resistant.

As data tables 9 and 10 indicate, most treatments gave statistically significant dollar spot control, compared to the fertilized and unfertilized controls. By the latest rating data (9/28/95), most of the standard dollar spot fungicides exhibited none, or very little disease, and were statistically insignificant from each other.

No phytotoxicity was observed in this study this year.

Table 9. Dollar Spot Fungicide Study - 1995
Hancock Turfgrass Research Center
Michigan State University, East Lansing, MI

Rating Scale:	0 = no disease, 10 = 100% of plot diseased. (10) = best quality, (0) = worst quality, (7.5) = acceptable quality							
Rating Date:	9/4/95							
Treatment	Rate/1000 ft ^{2b}	Interval	I ^d	II	III	IV	Avg	
Ch. 26019 (WP)	2.0 oz	14 days	0(8)	0(8)	0(8)	0(8)	0(8.0)	
RCO1	0.15 oz ai	14 days	0(7)	0(8)	0(8)	0(8)	0(7.8)	
RCO2	0.30 oz ai	14 days	0(7)	0(8)	0(7)	0(8)	0(7.5)	
Lynx + Dac. Ultrex	0.5 oz + 1.84 oz	14 days	0(8)	0(8)	0(9)	0(8)	0(8.3)	
Bayleton + Dac. Ultrex	0.5 oz + 1.84 oz	14 days	0(8)	0(8)	0(8)	0(8)	0(8.0)	
6.0 fl oz	14 days	0(8)	0(8)	0(9)	0(9)	0(8.5)	I	
2.75 fl oz	14 days	0(8)	0(8)	0(8)	0(8)	0(8.0)	I	
4.0 fl oz	14 days	0(8)	0(8)	0(8)	0(9)	0(8.3)	I	
6.0 fl oz	14 days	0(9)	0(9)	0(9)	0(8)	0(8.8)	I	
2.7 lb ai/A	21 days	0(7)	0(8)	0(7)	0(7)	0(7.3)	I	
Eagle alternated with Ch. 26019 (WDG)	0.6 oz & 2.0 oz	21 days	0(7)	0(7)	0(7)	0(7)	0(7.0)	
EXP10682A	7.0 oz	21 days	0(7)	0(8)	0(8)	0(8)	0(7.8)	
Dac. 2787	6.0 fl oz	14 days	0(8)	0(8)	0(8)	1C(8)	0.3(8.0)	
Banner (GL) + Ch. 26019 (FLO)	0.3 fl oz + 2.0 fl oz	21 days	0(7)	0(8)	0(7)	1C(8)	0.3(7.5)	
Banner (MC) + Ch. 26019 (FLO)	5.0 fl oz + 1.0 oz	21 days	0(8)	1 ^c (8)	0(8)	0(8)	0.3(8.0)	

5.0 fl oz + 1.0 oz	21 days	0(7)	0(8)	1 ^c (7)	0(8)	0.3(7.5)	HI
5.0 fl oz + 0.75 oz	21 days	0(8)	1 ^c (8)	0(9)	0(9)	0.3(8.5)	HI
3.5 oz	21 days	0(8)	1 ^c (8)	0(7)	0(8)	0.3(7.8)	HI
3.8 oz	14 days	0(7)	1 ^c (9)	1 ^c (7)	0(8)	0.5(7.8)	GHI
3.5 oz	14 days	0(8)	1 ^c (7)	1 ^c (8)	1 ^c (7)	0.7(7.5)	F-I
1.35lb. ai/A + 2.7lb. ai/A	21 days	1 ^c (7)	1(6)	0(9)	1 ^c (8)	0.7(7.5)	F-I
0.9 fl oz + 1.25 oz	21 days	1(7)	1 ^c (8)	0(7)	1 ^c (8)	0.7(7.5)	F-I
3.0 fl oz	21 days	1 ^c (8)	1 ^c (7)	1 ^c (7)	0(7)	0.7(7.3)	F-I
1.0 oz	21 days	1 ^c (7)	1(7)	1 ^c (7)	0(7)	0.7(7.0)	F-I
2.0 oz	21 days	1 ^c (7)	1 ^c (8)	1 ^c (8)	0(7)	0.7(7.5)	F-I
Sentinel	0.167 oz	28 days	1 ^c (7)	0(7)	1 ^c (8)	1 ^c (7)	0.7(7.3)
Spectro C	5.0 oz	14 days	1 ^c (8)	1 ^c (8)	1(7)	1 ^c (7)	1.0(7.5)
S-6115	1.33 lb	14 days	1(7)	1(6)	1(7)	1(6)	1.0(6.5)
S-6128	1.25 lb	14 days	1(7)	1(6)	1 ^c (7)	1(7)	1.0(6.8)
Lynx + Prostar	1.0 oz + 2.0 oz	21 days	1 ^c (8)	1(6)	1(7)	1 ^c (7)	1.0(7.0)
1.35lb. ai/A + 4lb. ai/A	21 days	1 ^c (7)	1(6)	1 ^c (7)	1 ^c (7)	1.0(6.8)	E-I
0.3 fl oz	21 days	1(7)	1(7)1	1 ^c (7)	1 ^c (7)	1.0(7.0)	E-I
0.31 oz	21 days	1(6)	1(6)	1(7)	1(6)	1.0(6.3)	E-I
0.31 oz + 1.25 oz	21 days	1 ^c (7)	1(7)	1 ^c (7)	1(7)	1.0(7.0)	E-I

100 GENERAL SESSION

0.6 oz	21 days	1 ^c (7)	1(7)	1 ^c (7)	1(7)	1.0(7.0)	E-I
)	
21 days	1 ^c (8)	1 ^c (8)	1 ^c (7)	1 ^c (7)	1.0(7.5)	E-I	
)		
21 days	1(7)	1 ^c (7)	1(6)	1(7)	1.0(6.8)	E-I	
)		
21 days	1(7)	1(6)	1(6)	1(7)	1.0(6.5)	E-I	
)		
21 days	1(6)	1(6)	1 ^c (7)	1 ^c (8)	1.0(6.8)	E-I	
)		
21 days	1 ^c (8)	1 ^c (7)	1 ^c (8)	1 ^c (7)	1.0(7.5)	E-I	
)		
21 days	1 ^c (7)	1 ^c (7)	1 ^c (7)	1 ^c (8)	1.0(7.3)	E-I	
)		
21 days	1(7)	2(6)	1(7)	1(7)	1.3(6.8)	E-I	
)		
21 days	2(6)	1 ^c (7)	1(7)	1 ^c (7)	1.3(6.8)	E-I	
)		
21 days	2(6)	1(7)	1 ^c (8)	1 ^c (7)	1.3(7.0)	E-I	
)		
14 days & monthly	1(7)	2(7)	1 ^c (7)	1(7)	1.3(7.0)	E-I	
)		
7 days	4(5)	1(6)	1 ^c (7)	1(6)	1.8(6.0)	D-I	
)		
7 days	3(5)	1(6)	1(6)	2(5)	1.8(5.5)	D-I	
)		
21 days	2(6)	2(5)	2(6)	1(6)	1.8(5.8)	D-I	
)		
14 days	2(6)	2(5)	2(5)	2(6)	2.0(5.5)	C-I	
)		
21 days	2(5)	2(6)	2(5)	3(5)	2.3(5.3)	B-H	
)		
21 days	2(5)	3(5)	3(5)	1 ^c (7)	2.3(5.5)	B-H	
)		
21 days	3(6)	2(5)	2(6)	3(5)	2.5(5.5)	A-G	
)		
21 days	3(5)	4(4)	2(5)	2(6)	2.8(5.0)	A-F	

21 days	2(5)	6(3)	2(6)	2(6)	3.0(5.0)	A-E	
21 days	2(4)	3(6)	5(3)	3(5)	3.3(4.5)	A-E	
---	3(5)	4(5)	5(3)	3(5)	3.8(4.5)	A-D	
---	4(4)	5(3)	3(5)	3(4)	3.8(4.0)	A-D	
monthly	4(4)	7(2)	2(5)	3(4)	4.0(3.8)	ABC	
Prostar	3.0 oz	21 days	5(3)	6(4)	4(5)	3(4)	4.5(4.0)

*Treatment disease averages followed by same letter are not significantly different from each other at the 5% level (Tukeys Honestly Significant Differences Test).

^bRates are formulation unless indicated as active ingredient (ai) or otherwise.

^cPlot has fewer than 10 small dollar spots.

^dRatings in parentheses indicate turf quality.

Table 10. Dollar Spot Fungicide Study - 1995
Hancock Turfgrass Research Center
Michigan State University, E. Lansing, MI

Rating Scale: 0 = no disease, 10 = 100% of plot diseased
(10) = best quality, (0) worst quality. (7.5) = acceptable quality
Rating Date: Sept. 28, 1995

Treatment	Rate/1000 ft ^{2b}	Interval	I ^d	II	III	IV
Ch. 26019 (FLO)	3 fl oz	21 day	0(7)	0(7)	0(7)	0(8)
Ch. 26019 (WDG)	2 oz	21 day	0(8)	0(8)	0(8)	0(8)
EXP 10682A	3.5 oz	21 day	0(7)	0(8)	0(8)	0(8)
EXP 10682A	7 oz	21 day	0(7)	0(8)	0(8)	0(8)
Curalan	1 oz	21 day	0(8)	0(7)	0(8)	0(8)
Twosome	3 fl oz	21 day	0(8)	0(8)	0(8)	0(7)
Thalonil(F) + Lynx	5 fl oz + 0.75 oz	21 day	0(8)	0(8)	0(9)	0(8)
Thalonil(F) + Bayleton	5 fl oz + 0.75 oz	21 day	0(7)	9(8)	0(7)	0(8)
Thalonil(F) + Banner	5 fl oz + 0.5 fl oz	21 day	0(8)	0(8)	0(8)	0(8)
Banner(MC) + Ch. 26019(FLO)	0.9 fl oz + 2 fl oz	21 day	0(8)	0(8)	0(8)	0(8)
Banner(GL) + Ch. 26019(FLO)	0.3 fl oz + 2 fl oz	21 day	0(7)	0(8)	0(8)	0(8)
Curalan	2.7 lb ai/A	21 day	0(8)	0(7)	0(8)	0(8)
Dac. 2787	6 fl oz	14 day	0(9)	0(9)	0(9)	0(9)
Ch. 26019 (WP)	2 oz	14 day	0(8)	0(8)	0(8)	0(8)
RC01	0.15 oz ai	14 day	0(7)	0(8)	0(8)	0(8)
RC02	0.3 oz ai	14 day	0(7)	0(8)	0(8)	0(8)
Lynx + Dac. Ultrex	0.5 oz + 1.84 oz	14 day	0(9)	0(8)	0(9)	0(8)
Bayleton + Dac. Ultrex	0.5 oz + 1.84 oz	14 day	0(8)	0(8)	0(8)	0(8)
Thalonil (4L)	6 fl oz	14 day	0(9)	0(9)	0(9)	0(8)
IB 11924	2.75 fl oz	14 day	0(8)	0(8)	0(8)	0(9)
IB 10222	4 fl oz	14 day	0(8)	0(9)	0(8)	0(9)
Dac. Ultrex	3.8 oz	14 day	0(8)	0(9)	0(8)	0(8)
IB 11521	6 fl oz	14 day	0(9)	0(9)	0(9)	0(8)
Spectro C	5 oz	14 day	0(8)	0(8)	0(8)	0(8)
Dac. 2787 & Primo	6 fl oz + 0.09 lb ai/A	14 days & monthly	0(8)	0(8)	0(9)	0(8)
Thalonil(DF)	3.5 oz	14 days	0(9)	0(8)	1 ^c (9)	0(8)

Curalan + Dac. Ultrex	1.35 lb ai/A + 4 lb ai/A	21 days	0(7)	1 ^c (8)	0(8)	0(8)
Banner(MC) + Dac. Ultrex	0.9 fl oz + 1.25 oz	21 days	0(7)	0(9)	0(8)	1 ^c (8)
Eagle alternated w/ Ch. 26019(WDG)	0.6 oz & 2 oz	21 days	0(0)	1 ^c (7)	0(7)	0(8)
Curalan + Fungo 85	1.35 lb ai/A + 2.7 lb ai/A	21 days	1 ^c (7)	1 ^c (9)	0(8)	0(8)
EXP 10702A	3 fl oz	21 day	0(8)	1 ^c (9)	1 ^c (8)	0(8)
Sentinel	0.167 oz	28 day	1 ^c (7)	1 ^c (7)	0(9)	1 ^c (8)
Rubigan AS	1.5 fl oz	21 day	1 ^c (7)	1 ^c (7)	0(7)	1 ^c (8)
Banner(GL) + Dac. Ultrex	0.3 fl oz + 1.25 oz	21 day	1 ^c (6)	0(8)	1 ^c (7)	1 ^c (7)
S-6115	1.33 lb	14 day	1(6)	1(6)	1(7)	1 ^c (7)
S-6128	1.25 lb	14 day	1(7)	1 ^c (7)	1 ^c (7)	1 ^c (7)
Banner(GL)	0.3 fl oz	21 day	1(7)	1 ^c (7)	1 ^c (7)	1 ^c (8)
Banner (WP)	0.31 oz	21 day	1(6)	1 ^c (6)	1(7)	1(7)
Banner(WP) + Dac. Ultrex	0.31 oz + 1.25 oz	21 day	1 ^c (7)	1 ^c (7)	1 ^c (7)	1 ^c (7)
Eagle	0.6 oz	21 day	1 ^c (7)	1 ^c (7)	1(7)	1 ^c (7)
Bayleton + Prostar	1 oz + 2 oz	21 day	1 ^c (8)	1(7)	1 ^c (7)	1 ^c (7)
Rubigan AS	0.75 fl oz	21 day	1(7)	1(7)	1 ^c (6)	1 ^c (7)
Rubigan AS+ Prostar	0.75 fl oz + 2 oz	21 day	1(6)	1(6)	1(6)	1 ^c (7)
Rubigan AS + Prostar	1.5 fl oz + 2 oz	21 day	1 ^c (7)	1(7)	1 ^c (7)	1 ^c (7)
Lynx + Prostar	1 oz + 2 oz	21 day	1 ^c (7)	2(6)	1(6)	1 ^c (7)
Banner(MC)	0.9 fl oz	21 day	2(6)	1(7)	1 ^c (7)	1 ^c (7)
V-10028	27.3 gm.	7 day	4(5)	1(6)	1 ^c (7)	1(6)
NAF-53	1.5 fl oz	21 day	2(6)	3(5)	2(6)	0(8)
V-10028	54.7 gm.	7 day	3(5)	1(6)	2(5)	3(5)
NAF-53	0.75 fl oz	21 day	2(5)	2(5)	2(6)	3(5)
Dac. Ultrex	1.25 oz	21 day	3(5)	2(5)	1(6)	3(6)
Rubigan AS + Prostar	0.38 fl oz + 1 oz	21 day	3(6)	3(5)	2(6)	2(6)
NAF-53	0.38 fl oz	21 day	3(4)	3(4)	2(5)	2(6)
Cleary 3336	2 oz	14 day	3(5)	3(5)	3(5)	3(5)
Prostar	2 oz	21 day	3(5)	2(6)	5(3)	4(4)
Primo	0.09 lb ai/A	monthly	4(4)	5(3)	3(5)	4(4)
Control(fert.)	--	--	4(3)	4(5)	5(3)	3(5)
Prostar	3 oz	21 day	5(3)	5(3)	4(3)	5(3)

104 GENERAL SESSION

Control (unfert.)

--

--

5(3)

6(3)

4(3)

5(4)

^aTreatment disease rating averages followed by same letter are not significantly different from each other at the 5% level.

^bRates are formulation per 1000 ft² unless indicated as active ingredient (ai) or otherwise.

^cPlot has fewer than 10 small dollar spots.

^dRatings in parentheses indicate turf quality.

Compounds Tested in 1994-95 Season

<u>Product Trade Name</u>	<u>formulation</u>	<u>Manufacturer</u>
Aliette WDG	80 WDG	Rhone-Poulenc
AMV 6	NA	Amvac Chem. Co
AMV 30	NA	Amvac Chem. Co
ANDFG 176 - ANDFG 190	NA	The Andersons
Banner	1.1 EC	Ciba Geigy Corp.
Banner (GL)	NA	Ciba Geigy Corp.
Banner (MC)	NA	Ciba Geigy Corp.
Banner (WP)	NA	Ciba Geigy Corp.
Bayleton	25 DF	Miles Corp.
Calo-Clor	90 WP	O.M. Scotts & So
Calo-Gran	2.7 G	O.M. Scotts & So
CGA-0173506	NA	Ciba Geigy Corp.
Chipco 26019 FLO	25 F	Rhone Poulenc
Chipco 26019 WDG	50 WDG	Rhone Poulenc
Chipco 26019 (WP)	50 WP	Rhone Poulenc
Cleary 3336	50 WP	WP.A. Cleary Ch
Consyst	67 WP	Regal Chemical C
Curalan	50 DF	BASF Corp.
Cutless	50 W	Dow Elanco
Daconil 2787	4.17 F	ISK Biotech
Daconil Ultrex	82.5 WDG	ISK Biotech
Defend	2 F	WP.A. Cleary Ch
Dithane M-45	80 WP	Rohm & Haas
Eagle	40 WP	Rohm & Haas

106 GENERAL SESSION

Embark	2 S	PBI/Gordon
EXP 10452A	NA	Rhone Poulenc
EXP 10682A	NA	Rhone Poulenc
EXP 10702A	NA	Rhone Poulenc
EXP 10704A	NA	Rhone Poulenc
Fluazinam 500	500 F	ISK Biotech
Fore	80 W	Rohm & Haas
Fungo 85	85 DF	O.M. Scotts & So
Herbruck's Fertilizer	10-2-10	Herbrucks
Heritage	50 WDG	Zeneca Ag Prods.
IB 10222	NA	ISK Biotech
IB 11521	NA	ISK Biotech
IB 11924	NA	ISK Biotech
Latron CS-7	Surfactant	Rohm & Haas
Lesco R100002-Lesco R100012	NA	Lesco
Lynx	25DF	Miles, Inc.
Menafee Humate	Soil conditioner	Earthgreen Prods.
NAF-53	2 EC	Dow Elanco
Panasea Plus	N/A	Emerald Isle
PCNB	75 WP	Amvac Chem. Co
Primo	1 EC	Ciba Geigy Corp.
Prostar	50 WP	Nor-Am
RC01	NA	Regal Chemical C
RC02	NA	Regal Chemical C
Revere	75 WDG	Lesco

RH-0611	62.3 WP	Rohm & Haas
Rizolex	75 WP	Sandoz Agro, Inc.
Rubigan AS	1.1 F	Dow Elanco
Rubigan (WP)	50 WP	Dow Elanco
S-6115	NA	O.M. Scotts & So
S-6128	NA	O.M. Scotts & So
Scotts Fertilizer & Fungicide II (FF II)	14-3-3 fert., 15.4% PCNB	O.M. Scotts & So
Sentinel	40 WDG	Sandoz Agro, Inc.
Spotrete	75 WDG	W.A. Cleary Che
Subdue	2E	Ciba Geigy Corp.
Terraclor	75 WP	Uniroyal Chem.
Thalonil (DF)	90 DF	Terra
Thalonil (F)	4 F	Terra
Turfcide 10 G	10 GR	Uniroyal Chem.
Turfcide 400	4 F	Uniroyal Chem.
Turf Enhancer	2 SC	O.M. Scotts & So
UBI 9249	NA	Uniroyal Chem.
UBI 9250	NA	Uniroyal Chem.
V-10028	NA	Valent
Vigoro 94-292-1-GS, etc.	NA	Vigoro
Vorlan	50 DF	O.M. Scotts & So