

Treatment	Rate/1000 ft <sup>2b</sup>	Application Interval	I	II	III	Avg	Tukeys(.05)a
Bayleton	2 oz.	75° + 30 days	0	0	3	1.0	BC
Banner + Astron	1 fl. oz. + 2 fl. oz.	75° + 30 days & monthly	0	1	3	1.3	BC
Rubigan	4 fl. oz.	75° + 30 days	5	0	0	1.7	BC
Sentinel	0.25 oz.	65° + 30 days	2	2	1	1.7	BC
Ch. 26019 (WDG)	6 oz.	65° + 30 days	2	3	1	2.0	BC
Fluazinam	2 fl. oz.	65° + 30 days	2	1	3	2.0	BC
ASC 67098-Z	3.6 fl. oz.	65° + 30 days	0	5	2	2.3	BC
Bayleton	2 oz.	65° + 30 days	5	1	1	2.3	BC
Fluazinam	1 fl. oz.	65° + 30 days	1	7	3	3.7	BC
Ringer Turf Restore Fert.	0.5 lb. N.	monthly	3	3	10	5.3	BC
Ch. 26019 (WDG)	4 oz.	65° + 30 days	5	5	7	5.7	BC
Sustane	0.5 lb. N.	monthly	5	7	5	5.7	BC
Control (unfert.)	--	--	7	7	3	5.7	BC
Herbruck's Fert.	0.5 lb. N.	monthly	7	7	5	6.3	BC
Astron	2 fl. oz.	monthly	5	10	5	6.7	BC
Banner	1 fl. oz.	75° + 30 days	0	1	20	7.0	BC
Thatch X	3 lbs.	monthly	5	5	15	8.3	ABC
Panasea Plus	4 fl. oz.	monthly	15	10	10	11.7	ABC
Ringer Amm. Sulf.	0.5 lb. N.	monthly	10	10	15	11.7	ABC
Ocean Organics 5044	4 fl. oz.	monthly	3	25	10	12.7	AB
Control (fertilized)	0.5 lb. N.	monthly	20	25	15	20.0	A

<sup>a</sup>Treatments followed by the same letter are not significantly different from each other at the 5% level.

<sup>b</sup>Rates are formulation, unless listed as a.i. (active ingredient).

## Dollar Spot Fungicide Trial - 1994

### Hancock Turfgrass Research Center, MSU, E.Lansing, MI

The 1994 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 East Lansing, MI. The green was maintained at 1/4" height of cut and was fertilized at 1/4 # N/mo. Treatments were applied preventively to 2' X 9' plots in three replications of a random block design on 7,14,21 and 28 day schedules as indicated on the data tables (Tables 5, 6 and

7), beginning on 8/16/94. By the last rating date (Oct. 14), 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 3 times and the 28 day treatments had been applied twice. The dollar spot strain in this plot area is benzimidazole-resistant but DMI-sensitive.

As data Table 5 indicates, most treatments gave statistically significant control of dollar spot compared to the fertilized controls. These differences persisted throughout the rest of the season as disease pressure increased. It should be noted that Banner, Bayleton, and Rubigan are excellent dollar spot fungicides, however, the 28 day re-treatment interval used in this study was too long.

The treatments induced various turfgrass responses, from yellowing and greening to mild phytotoxicity, as noted in the data Table 5.

<sup>f</sup>Mild turf yellowing.

<sup>i</sup>Dramatic turf greening.

**Table 5. Dollar Spot Fungicide Study - 1994**

**Hancock Turfgrass Research Center  
Michigan State University, East Lansing, MI**

Rating Scale: 0 = no disease, 10 = 100% of plot disease

Rating Date: September 30, 1994

Treatment	Rate/1000ft <sup>2b</sup>	Interval	I	II	III	Avg	Tukeys (.05) <sup>a</sup>
CGA 173506	0.25 oz.	7 day	0	0	0	0	F
Banner + CGA 173506	0.5 oz. + 0.25 oz.	14 day	0	0	0	0	F
Banner + CGA 173506	1 oz. + 0.25 oz.	14 day	0	0	0 <sup>c</sup>	0	F
Bayleton + D.2787	0.5 oz. + 3 fl. oz.	14 day	0	0	0	0	F
TRA 0028	6 oz.	14 day	0	0	0	0	F
Sentinel	0.25 oz.	28 day	0 <sup>c</sup>	0	0	0	F
Fluazinam	0.5 oz.	28 day	0	0	0	0	F
Fluazinam	1 fl. oz.	21 day	0	0	0	0	F
ASC 66825	.67 oz.	21 day	0	0	0	0	F
ASC 66825	1 oz.	21 day	0	0	0	0	F
Curalan	2 oz.	21 day	0	0	0	0	F
Chipco 26019 (WDG)	1.5 oz.	14 day	0	0	0	0	F
Chipco 26019 (WDG)	2 oz.	14 day	0	0	0	0	F
Ch. 26019	4 fl. oz.	14 day	0	0	0	0	F
ANDFG 156	4 lbs.	14 day	0	0	0	0	F
ASC 67098-Z	3.6 fl. oz.	21 day	0	0	0	0	F
D. 2787	3 fl. oz.	14 day	1 <sup>c</sup>	0	0	.3	EF

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Treatment	Rate/1000ft <sup>2b</sup>	Interval	I	II	III	Avg	Tukeys (.05) <sup>a</sup>
Exp 80318 A	0.25 oz.	14 day	1	0	0	.3	EF
ANDFG 155	4 lbs.	14 day	0 <sup>e</sup>	1 <sup>ce</sup>	0	.3	EF
Chipco 26019	2 fl. oz.	14 day	1 <sup>c</sup>	0	0	.3	EF
Banner	0.5 oz.	7 day	1	1 <sup>c</sup>	0	.7	DEF
CGA 264501	.44 oz.	7 day	1 <sup>c</sup>	1 <sup>c</sup>	0	.7	DEF
Bayleton	1 oz.	28 day	1	0	1 <sup>c</sup>	.7	DEF
ICIA 5504 + D. 2787	.4 oz. + 3 fl. oz.	14 day	1 <sup>c</sup>	1 <sup>c</sup>	0	.7	DEF
ICIA 5504 + D. 2787 + Chipco 26019	4 oz. + 3 fl. oz. + 2 oz.	21 day	1	1 <sup>c</sup>	0	.7	DEF
ICIA 5504 + Chipco 26019	.4 oz. + 2 oz.	14 day	1	0	1	.7	DEF
Thalonil	3.5 oz.	14 day	1 <sup>c</sup>	1 <sup>c</sup>	0	.7	DEF
D. 2787	6 fl. oz.	14 day	1 <sup>c</sup>	1 <sup>c</sup>	0	.7	DEF
Dac 825	3.8 oz.	14 day	0	1 <sup>c</sup>	1 <sup>c</sup>	.7	DEF
S-4404	2x	14 day	0	1 <sup>c</sup>	1 <sup>c</sup>	.7	DEF
Eagle	.6 oz.	28 day	0 <sup>e</sup>	1 <sup>ce</sup>	1	.7	DEF
Eagle + D.2787	.6 oz. + 3 fl. oz.	28 day	1 <sup>ce</sup>	0	1 <sup>c</sup>	.7	DEF
Exp 10452A	1.2 oz.	14 day	1 <sup>c</sup>	1	0	.7	DEF
Exp 10452A	.34 oz.	14 day	0	1 <sup>ce</sup>	1 <sup>c</sup>	.7	DEF
Exp 80318A	0.5 oz.	14 day	1	0	1 <sup>c</sup>	.7	DEF
Exp 80318A	1 oz.	14 day	0	1 <sup>c</sup>	1	.7	DEF
ANDFG 149	4 lbs.	7 day	1 <sup>f</sup>	1 <sup>ef</sup>	0 <sup>f</sup>	.7	DEF
ANDFG 150	4 lbs.	7 day	1 <sup>f</sup>	1 <sup>c</sup>	0	.7	DEF
ANDFG 161	4 lbs.	14 day	1 <sup>ci</sup>	1 <sup>ci</sup>	0 <sup>i</sup>	.7	DEF
ANDFG 163	2 lbs.	14 day	0 <sup>i</sup>	1 <sup>ce</sup>	1 <sup>i</sup>	.7	DEF
ANDFG 164	2 lbs.	14 day	1 <sup>ce</sup>	0	1 <sup>ce</sup>	.7	DEF
ANDFG 151	2 lbs.	21 day	1 <sup>eh</sup>	1 <sup>e</sup>	1 <sup>ce</sup>	1	C-F
Bayleton	0.5 oz.	14 day	1 <sup>c</sup>	1	1 <sup>c</sup>	1	C-F
Bayleton & Prostar	1 oz. + 2 oz.	28 day	1 <sup>c</sup>	1 <sup>c</sup>	1 <sup>c</sup>	1	C-F

Treatment	Rate/1000ft <sup>2b</sup>	Interval	I	II	III	Avg	Tukeys (.05) <sup>a</sup>
S-6044	1x	14 day	1 <sup>ce</sup>	1 <sup>ce</sup>	1 <sup>e</sup>	1	C-F
ANDFG 148	4 lbs.	7 day	1	1	1 <sup>e</sup>	1	C-F
ANDFG 152	2 lbs.	21 day	1 <sup>eh</sup>	1 <sup>e</sup>	1 <sup>eh</sup>	1	C-F
ANDFG 153	4 lbs.	21 day	2 <sup>e</sup>	0 <sup>i</sup>	1 <sup>chi</sup>	1	C-F
ANDFG 159	5 lbs.	21 day	1 <sup>f</sup>	1 <sup>f</sup>	1 <sup>ef</sup>	1	C-F
ANDFG 162	4 lbs.	14 day	1 <sup>ce</sup>	1 <sup>e</sup>	1 <sup>ce</sup>	1	C-F
Banner	2 fl. oz.	28 day	1	1 <sup>e</sup>	1	1	C-F
ICIA-5504 + D. 2787	.4 oz. + 3 fl. oz.	21 day	2	1	1	1.3	B-F
ICIA 5504 + Chipco 26019	.4 oz. + 2 oz.	21 day	2	1	1 <sup>e</sup>	1.3	B-F
ICIA 5504 + Chipco 26019	.4 oz. + 2 oz.	28 day	1	1	2	1.3	B-F
S-4404	1x	14 day	1	2	1	1.3	B-F
Rubigan(W)	1.25 oz.	14 day	1	1 <sup>e</sup>	2	1.3	B-F
ANDFG 158	3.33 lbs.	21 day	2 <sup>f</sup>	1 <sup>i</sup>	1 <sup>f</sup>	1.3	B-F
ANDFG 160	5 lbs.	21 day	2 <sup>j</sup>	1 <sup>i</sup>	1 <sup>f</sup>	1.3	B-F
Rubigan	1.5 fl. oz.	28 day	1	1 <sup>e</sup>	2	1.3	B-F
ICIA 5504 + D.2787	.4 oz. + 3 fl. oz.	28 day	2	1 <sup>e</sup>	2	1.7	B-F
ANDFG 147	3 lbs.	7 day	2	2 <sup>f</sup>	1 <sup>e</sup>	1.7	B-F
ANDFG 154	4 lbs.	21 day	2	2	1 <sup>eh</sup>	1.7	B-F
Control (unfertilized)	--	--	2	2	2	2.0	B-E
ANDFG 157	3.3 lbs.	21 day	2	2	2	2.0	B-E
ANDFG 166	27.9 L	7 day	1	3	3	2.3	A-D
ICIA 5504	0.4 oz.	14 day	3	3	2	2.7	ABC
ANDFG 165	18.7 L	7 day	2	4	3	3.0	AB
Control (fertilized)	0.25 lb. N.	28 day	4	4	4	4.0	A

<sup>a</sup>Treatments followed by the same letter are not significantly different from each other at the 5% level.

<sup>b</sup>Rates are formulation.

<sup>c</sup>Plot has fewer than 10 very small dollar spots, indicating very recent control breakdown.

<sup>e</sup>Mild turf greening.

<sup>f</sup>Mild turf yellowing.

<sup>g</sup>Mild phytotoxicity.

<sup>h</sup>Turf mottled.

<sup>i</sup>Dramatic turf greening.

<sup>j</sup>Dramatic turf yellowing.