

Table 2. Boyne Highlands Snowmold: Fertility-Fungicide Study 1977  
& area infested

Treatment	Rate/1000 ft <sup>2</sup>	Rep.			Average (DMR)	
		I	II	III		
Calo Clor + Urea	4 oz + 1/2 lb.	5	0	0	1.7	A
Calo Clor + IBDU	4 oz + 1/2 lb.	0	5	1	1.7	A
Calo Clor + IBDU	4 oz + 1 lb.	5	0	0	1.7	A
Calogran + Urea	8 lbs. + 1/2 lb.	5	0	0	1.7	A
Calogran + Urea	8 lbs. + 1 lb.	5	1	1	2.3	A
Calo Clor	4 oz	10	0	0	3.3	A
Calo Clor + Urea	4 oz + 1 lb.	10	0	5	5	A
Calogran + IBDU	8 lbs. + 1/2 lbs.	5	10	0	5	A
Calogran	8 lbs.	5	10	5	6.7	A
Calogran + IB	8 lbs. + 1 lb.	5	10	10	8.3	A
Urea	1 lb.	100	70	95	88.3	B
IBDU	1 lb.	100	80	90	90	B
Check	-	80	90	100	90	B
IBDU	1/2 lb.	100	50	100	93.3	B
Urea	1/2 lb.	100	90	95	95	B

Note: Treatments followed by the same letter are not significantly different at the 5% level.

#### Common Dollar Spot Study

The common (benzimidazole sensitive dollar spot (*Sclerotinia homeocarpa*) study was conducted on the MSU crop science research farm on an intensively maintained Toronto bentgrass green. The 3X6 ft plots were laid out in three replications in a randomized block design. All liquid fungicide applications were made with a CO<sub>2</sub> small-plot sprayer at a volume of about 40 gallons/acre. All dry fungicides were applied with a Scotts 3-foot drop-type spreader. The dollar spot infestation was allowed to spread freely until the first applications were made on July 21. Subsequent applications were made on a bi-weekly basis. Cleary's flowable thiram was applied weekly.

On August 19 the commercial Acti-dione RZ was replaced with an experimental Acti-dione RZ. Fe SO<sub>4</sub> was replaced with chelated iron. The low rate of Acti-dione TGF was also replaced with the experimental Acti-dione RZ. The reading was taken on August 19.

Table 3. Common Dollar Spot-Fungicide Study - 1977.

Treatment	Rate/1000 ft <sup>2</sup>	Number of Spots/plot				(DMR)
		I	II	III	AVE	
Tersan 1991 + Daconil 2787	1 oz + 6 oz	0	0	0	0	a
Tersan 1991 + RP 26019	1 oz + 2 oz	0	0	0	0	a
Tersan 1991 + Tersan 75	1 oz + 6 oz	0	0	0	0	a
Tersan 1991 + DPX 4424	2 oz + 2 oz	0	0	0	0	a
DPX 4424	2 oz	0	0	0	0	a
DPX 4424	4 oz	0	0	0	0	a
RP 26019	1.5 oz	0	0	0	0	a
RP 26019	2 oz	0	0	0	0	a
Lesco 1644	4 oz	0	0	0	0	a
Lesco 2833	3 oz	0	0	0	0	a
Lesco 2887	3 oz	0	0	0	0	a
Bromosan	6 oz	0	0	0	0	a
Fungo 50	1 oz	0	0	0	0	a
Cleary 3336	1 oz	0	0	0	0	a
EL 222	.4 oz	0	0	0	0	a
EL 222	.8 oz	0	0	0	0	a
GA-1-105	2.5 gm (ai)	0	0	0	0	a
GA-1-105	5 gm (ai)	0	0	0	0	a
BFN 7544*	10 oz (f1)	0	0	0	0	a
DPX 4424 (monthly)	4 oz	0	0	0	0	a
RP 26019 (monthly)	2 oz	0	0	0	0	a
Tersan 1991	1 oz	0	0	1	.33	ab
EL 222 (monthly)	8 oz	0	2	0	.67	ab
Daconil 2787	6 oz	0	3	0	1	ab
BFN 7544	5 oz (f1)	0	3	0	1	ab
Tersan 1991 (monthly)	1 oz	0	0	5	1.67	ab
Acti-dione TGF	2 oz	0	12	2	4.67	ab
Acti-dione TGF + Ferrous Sulfate	1 oz + 1 oz	0	14	0	4.67	ab
Acti-dione RZ + Ferrous Sulfate	1.2 oz + 1 oz	0	4	11	5	ab
Acti-dione-Thiram	2 oz	0	3	17	6.67	abc
Acti-dione RZ	1.2 oz	29	0	0	9.67	abc
Daconil 2787 (wp)	6 oz	25	0	6	10.33	abc
Acti-dione TFG + Ferrous Sulfate	2 oz + 2 oz	33	0	1	11.33	abc
Clearys Thiram (flo) weekly	6 oz	0	0	37	12.33	abc
Daconil 2787 (monthly)	6 oz	0	29	9	12.67	abc
BFN 7544 (monthly)*	10 oz (f1)	0	42	11	17.67	abc
Acti-dione TGF	1 oz	2	2	56	20	abc
F-8197	1 oz (ai)	1	5	63	23	abc
Acti-dione Thiram + Ferrous Sulfate	2 oz + 2 oz	0	31	46	25.67	abc
F-8197	.5 oz (ai)	0	83	15	32.67	abc
F-8197 (monthly)	1 oz (ai)	0	38	64	34	abc
Tersan 75	6 oz	22	19	66	35.67	abc
Form-A-Turf*	5 oz	55	10	69	44.67	abc

Table 3 (Continued)

F-8272	1 oz (ai)	0	22	115	45.67	abc
F-8272	.5 oz (ai)	0	0	140	46.67	abc
F-8272 (monthly)	1 oz (ai)	16	69	104	63	bc
BFN 7544 (monthly)	5 oz (fl)	0	42	162	68	c
Check	-	2	300	170	157.33	d

\* Phytotoxicity observed

## Results

The results show that all treatments gave significant control when compared to the untreated check. Tersan 1991 + Daconil 2787 1 + 6 oz, Tersan 1991 + RP 26019 1 + 2 oz, Tersan 1991 + Tersan 75 1 + 6 oz, Tersan 1991 + DPX 4424 2 + 2 oz, DPX 4424 4 oz, RP 26019 1.5 oz, RP 26019 2 oz, Lesco 1644 4 oz, Lesco 2833 3 oz, Bromosan 6 oz, Fungo 50 1 oz, Cleary's 3336 1 oz, EL 222 .4 oz, EL 222.8 oz, GA-1-105 2.5 oz (ai), GA-1-105 5 gms (ai), BFN 10 oz, DPX 4424 4 oz (monthly), and RP 26019 2 oz (monthly) showed no disease at all after two treatments. There are several new experimental fungicides which have potential as turfgrass fungicides for the control of common dollar spot, in addition to the many good fungicides available.

## Benzimidazole-Resistant Dollar Spot Study

### Introduction

The benzimidazole-resistant dollar spot study was conducted on the MSU soils farm research area on an intensively maintained Toronto creeping bentgrass green. The plots were 3 X 6 ft and the treatments were replicated three times in a random block design. The treatments were applied on August 4 and 17. The liquid treatments were applied with a CO<sub>2</sub> small-plot sprayer at a volume of 40 gallons/acre. The granular treatments were applied with an O. M. Scotts drop type spreader. The readings were taken on September 1.