

## Turfgrass Disease Management Report 1988-89

Department of Botany & Plant Pathology and Pesticide Research Center  
Michigan State University, East Lansing, MI

J.M. Vargas, Jr., R. Detweiler, R. Golembiewski, B. Melvin, M. Slater

## Snow Mold Fungicide Trial - 1988-89

Boyne Highlands Resort, Harbor Springs, MI

The 1988-89 snow mold fungicide studies were conducted at the Boyne Highlands Resort in Harbor Springs, MI on an irrigated Penncross (*Agrostis palustris*)/annual bluegrass (*Poa annua*) fairway which was mowed at  $\frac{1}{2}$ " height of cut. Treatments were applied preventively to 6' x 9' plots in three replications of a random block design on November 2, 1988. Liquid applications were made with a CO<sub>2</sub> small-plot sprayer at 30 PSI and 48 gal/A (except as noted on data table). Granular treatments were pre-weighed and applied by hand.

The plots were rated as soon as the snow cover melted off on April 5, 1989.

Several commercially available fungicides once again managed snow mold in northern Michigan (Table 1). They included Calo-clor, Calo-gran, Scotts FF II, and Daconil 2787 + Chipco 26019. Terrachlor 50 DF, Terrachlor 75 WP, and Chipco 26019 also worked this season, but we have experienced erratic results with these fungicides over the years. It would appear the mercury fungicides will face a tough time in the up-coming EPA re-registration hearings. This may be a good time to start experimenting with alternative fungicides for snow mold management in case cancellation of the mercury fungicide does occur.

No phytotoxicity was observed at the time of the rating.

## Kentucky Bluegrass Melting-Out Fungicide Study - 1989

Hancock Turfgrass Research Center

The 1989 melting-out (*Dreschlera poae*) fungicide trial was conducted at the Hancock Turfgrass Research Center on the MSU campus in E. Lansing, Mi, on irrigated Kenblue Kentucky bluegrass (*Poa pratensis*) turf maintained at  $1\frac{1}{2}$ " height of cut. The study was set up in three replications of a random block design with a 3'x6' plot size. All treatments were applied with a CO<sub>2</sub> small-plot sprayer at 30 PSI and a volume of 48 gal/A. The plot area was fertilized dormant in late 1988 (1 lb. N/1000 ft<sup>2</sup>) and at the rate of  $\frac{1}{2}$  lb. N/1000 ft<sup>2</sup> on 5/15 (except as noted on data table).

Table 1. Boyne Highlands Snow Mold Trial - 1988-89

Percent plot area diseased with gray snow mold (*Typhula incarnata*)  
Rating date - 4/5/89

Treatment <sup>c</sup>	Rate/1000 ft <sup>2b</sup>	I	II	III	AVE	DMR (.05) <sup>a</sup>
Terraclor 50 DF	1.5 lb	0	0	0	0.0	A
RH-3486	1 oz ai	0	0	0	0.0	A
RH-3486	1.5 oz ai	0	0	0	0.0	A
Calo-clor	3 oz	0*	0*	0	0.0	A
Terraclor 75W	1 lb	0	0	0.5	0.2	A
Calo-clor + Fert (18-5-9)	3 oz + 1 lb N	1	0	0	0.3	A
Ch 26019 (F) + Dac 2787	8fl oz + 8fl oz	2	0	0.5	0.8	A
CGA-169374 (EC)	16 gm ai	1	2	0	1.0	A
Scotts FF II	2X	2	1	0	1.0	A
Calo-gran	6 lbs	3	0	0	1.0	A
Scotts FF II	1X	0	3	1	1.3	A
RH-3486	.75 oz ai	5	0	1	2.0	A
Dac 2787 + Ch 26019 (F)	8 fl oz + 2fl oz	2	0	5	2.3	A
Ch 26019 (F)	12 fl oz	0	1	8	3.0	A
ICIA 523 + X-77	8 gm ai + 0.5%ov/v 0	1	10	3.7	AB	
Dac 2787 + T1991	8 fl oz + 2 oz	10	1	2	4.3	ABC
S-2385	1X	2	20	0	7.3	ABCD
S-2385	2X	1	1	20	7.3	ABCD
Dac 2787 + T1991 + Calo-clor	4 fl oz + 1 oz + 1 oz	2	0	20	7.3	ABCD
Spotless	.25 lb ai/A	3	4	20	9.0	ABCD
PMAS	2 fl oz	20	0	10	10.0	ABCD
G696	1 lb	5	15	10	10.0	ABCD
Spotless	1 lb ai/A	5	10	25	13.3	ABCD
Spotless	.125 lb ai/A	20	20	0.5	13.5	ABCD
Spotless	0.5 lb ai/A	2	7	35	14.7	ABCD
CGA-16937 (EC)	8 gm ai	15	6	25	15.3	ABCD
G 696	2 lb	0	3	45	16.0	ABCD
G 696	lb	13	25	40	26.0	ABCD
Terraguard	4 oz	0	30	50	26.7	ABCD
CGA 169374 (G)	8 gm ai	20	10	50	26.7	ABCD

Terraguard	8 oz	10	10	75	31.7	BCD
Fore	6.4 oz ai	20	16	61	32.3	CD
EXP10002B	0.2 fl oz	5	5	95	35.0	D
Banner	16 gm ai	20	25	60	35.0	D
Control	--	65	30	95	63.3	E

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

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