

Turfgrass Disease Management Report - 1987
 J.M. Vargas, Jr, R. Detweiler, S. Beiber,
 R. Golembiewski, and T. McNally

Snow Mold Fungicide Trial - 1986-1987

Boyne Highlands Resort, Harbor Springs, MI

The 1986-87 snow mold fungicide studies were conducted at the Boyne Highlands Resort in Harbor Springs, MI on irrigated Penncross creeping bentgrass (Agrostis palustris) fairways which were mowed at ½" height of cut. Treatments were applied preventively to 6' x 9' plots in three replications of a random block design on November 2, 1986. The sprayable formulations were applied with a CO₂ small-plot sprayer at a volume of 48 gal/acre and 30 PSI. The granular treatments were pre-weighed and applied by hand. MF756 was applied only at the 2 highest rates due to a shortage of material. The plots were rated for disease on March 22, 1987 immediately following snow cover melt-off.

As can be seen from the controls (Table 1), disease pressure was very severe this year. There was, however, a good deal of variation in disease pressure within some of the listed treatments. The standard treatments (Calo-Clor, Calo-Gran, PMAS, Scotts F + F II, Daconil 2787 + Tersan 1991), continued to show consistently effective control of all three snow mold organisms (Typhula incarnata, Typhula ishkariensis, Fusarium nivale).

No phytotoxicity was observed.

Kentucky Bluegrass Melting-Out Fungicide Trail-1987

Hancock Turfgrass Research Center

The 1987 Dreschlera poae (formerly Helminthosporium vagans) fungicide studies were 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 1½ height of cut. The study was set up in three replications of a random block design with a 3' x 6' plot size and buffer alleys between the plots. All treatment were applied with a CO₂ small-plot sprayer at 30 PSI at a volume of 48 gal/acre.

Treatments were initiated curatively on May 1 with subsequent applications being made on 14 and 21 day schedules as indicated on the data table (Table 2). The plots were rated on June 15 at which time the 10-14 day treatments had been applied 4 times (5/1, 5/13, 5/26, 6/10) and the 21 day treatments had been applied 3 times (5/1, 5/20, 6/10). Disease levels were low this year because of unusually warm and dry weather during May and June. Daconil 2787 and both formulations of Chipco 26019 continued to work well for control of melting-out, as did a new compound, RH 3486.

No phytotoxicity was observed.

Table 2. Kentucky Bluegrass Melting-Out Fungicide Trial-1987

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

Disease rating scale: 1(no disease) -9 (90% infection or greater)

Plots rated 6/15/87

TREATMENT	RATE/1000 ft ²	INTERVAL	REP			AVE	DMR ¹
			I	II	III		
Chipco 26019 (W)	2 oz	21 days	1	1	1	1.0	A
RH-3486	3 oz ai	"	1	1	2	1.3	AB
Rizolex + Chipco 26019 (W)	2 oz ai + 1 oz ai	"	1	1	2	1.3	AB
Chipco 26019 (F)	4 fl oz	"	1	2	2	1.6	AB
Dac 2787 (F)	6 fl oz	"	1	2	2	1.6	AB
PP523 (SC) + CH 26019 (W) + X-77	6 gmai + 2 oz + .05% v/v	"	2	1	2	1.6	AB
Chipco 26019 (W)	.5 oz ai	"	2	2	2	2.0	ABC
Chipco 26019 (F)	.5 oz ai	"	2	2	2	2.0	ABC
Dac 2787 (F) + SDS 66533	3 fl oz + .5 fl oz	10-14 days	2	2	2	2.0	ABC
Dac 2787 (F) + SDS 66533	6 fl oz + 1 fl oz	21 days	1	2	3	2.0	ABC
RH-3486	.75 oz ai	"	1	2	3	2.0	ABC
PP523 (SC) + Dac. 2787 (F)	6 gmai + 6 fl oz	"	2	2	2	2.0	ABC
Rizolex	2 oz ai	"	2	2	2	2.0	ABC
Dac 2787 (F)	3 fl oz	14 days	2	2	3	2.3	ABCD
RH-3486	1.5 oz ai	21 days	2	2	3	2.3	ABCD
Rizolex	1 oz ai	"	2	2	3	2.3	ABCD
Rizolex	3 oz ai	"	2	3	2	2.3	ABCD
PP523 (SC) + Dithane M-45	6 gm ai + 4 oz	"	2	3	2	2.3	ABCD
Dithane M-45	4 oz	"	2	3	2	2.3	ABCD
DPX-H6573 + Tersan 1991	.125 oz ai + 1 oz ai	"	2	2	4	2.6	BCD
DPX-H6573 + Tersan 1991	.5 oz ai + 1 oz ai	"	2	3	3	2.6	BCD
DPX-H6573	.5 oz ai	"	2	3	3	2.6	BCD
Rizolex + Ditek	2 oz ai + .5 oz ai	"	2	3	3	2.6	BCD
Rizolex + Ditek	2 oz ai + 1 oz ai	"	2	3	3	2.6	BCD
Ditek	1 oz ai	"	2	4	3	3.0	CD
PP523 (SC)	6 gm ai	"	3	2	5	3.3	CD
DPX-H6573 + DPX 965	.125 oz ai + 1 oz ai	"	2	3	6	3.6	D
DPX-H6573 + Tersan 1991	.25 oz ai + 1 oz ai	"	2	4	5	3.6	D
Control	-	-	3	4	3	3.6	D

¹Treatments followed by same letter are not significantly different from each other at 5% level of significance.