

Turfgrass Disease Management Report, 1980-81

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Snow Mold Fungicide Trials - 1980-81

Establishment

The 1980-81 snow mold fungicide trials were conducted at the Boyne Highlands Resort on Penncross creeping bentgrass mowed at 1/2". Treatments were applied to 6' x 9' plots in three replications of a random block design on November 4, 1980. The wettable powders and flowables were applied with a small-plot CO₂ sprayer at a volume of 40 gal/acre. The granular applications were made with a 3' drop-type Scotts spreader. The plot ratings were made on April 11, 1981 (Table 1).

Results

All fungicides except MF 563 and Tersan 1991 2 oz. gave significant snow mold management when compared to the untreated control. Those giving the best management in order were ProTurf F + F II 2X, MF 647 + Calo-clor 4 oz. + 3 oz., Calo-gran 6 lbs., Calo-clor 3 oz., Daconil 2787 fl. 8 oz. plus Ronilan 4 oz., Actidione RZ 8 oz., ProTurf Broad Spectrum 2X, CGA 64251 20 gm ai, Tersan SP 9 oz., MF 647 8 oz., CGA-64251 10 gm ai, Bayleton 4 oz., Daconil fl. 8 oz., and Tersan SP 13 oz. (large nozzle application). It should be noted there were high levels of Fusarium patch present where the ergosterol inhibiting fungicides CGA 64251 and Bayleton were used.

Table 1. Boyne Highlands Snow Mold Study. Percent area infected with snow mold (Typhula blight - Typhula ishikarensis). Ratings taken 4/11/81.

Treatment	Rate/1000 ft ²	Replication			AVE	DMR
		I	II	III		
ProTurf F + FII	2X	0	0	0	0	A
MF647 + Calo-Clor	4 oz. + 3 oz.	0	1	0	.3	A
Calo-Gran	6 lbs.	1	1	2	1.3	A
Calo-Clor	3 oz.	2	2	2	2	A
Daconil 2787 Fl. + Ronilan	8 fl. oz. + 4 oz.	2	2	5	3	A
Acti-dione RZ	8 oz.	10	0	2	4	AB
Pro-Turf - Broad Spect.	2X	5	2	5	4	AB
CGA 64251	20 gm. ai.	20	5*	20*	15	ABC
Tersan SP	9 oz.	7	35	7	16.3	ABC
MF 647	8 oz.	20	10	30	20	ABC
CGA 64251	10 gm. ai.	20	40*	30*	23.3	ABC
Bayleton	4 oz.	10	20*	40*	23.3	ABC
Daconil 2787 Fl.	8 fl. oz.	40	25	10	25	ABCD
Tersan SP (large nozzle)	13 oz.	20	20	40	26.7	ABCD
MF 647	4 oz.	20	40	30	30	BCD
Bayleton	2 oz.	40*	40*	20*	33.3	CD
Tersan 1991 + Daconil 2787 Fl.	2 oz. + 8 fl. oz.	50	50	1	33.7	CD
MF 653	3 lbs.	60	20	70	50	DE
MF 653	6 lbs.	70	20	60	50	DE
Control		60	80*	60	66.7	EF
Tersan 1991	2 oz.	90	70	70	76.7	F

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

*Plots showing infection by Fusarium patch (Fusarium nivale) as well as Typhula blight.