

KENTUCKY BLUEGRASS MELTING-OUT FUNGICIDE STUDY - 1991

Hancock Turfgrass Research Center

The 1991 melting-out (*Dreschlera poae*) fungicide trial was conducted at the Hancock Turfgrass Research Center on the MSU campus at East Lansing, MI, on irrigated Kenblue Kentucky bluegrass (*Poa pratensis*) turf maintained at 1½" height of cut. The plot area was fertilized dormant in 1990 (fall) at the rate of 1#N/1000 ft² and at the rate of ¼# N/1000 ft² on April 23, 1991.

Treatments were applied preventively on May 3, with subsequent treatments being applied at 14, 21, or 28 day intervals as indicated in Table 2. Disease pressure was mild this year, with the controls exhibiting approximately 30% of maximum disease levels.

As the data indicates (Table 2), a number of standard fungicides (Vorlan, Daconil 2787, etc.) and experimental fungicides (ASC 66518, ASC 66608, etc.) exhibited excellent disease control this year. Most treatments gave statistically significant disease control compared to the untreated control plots, and no phytotoxicity was noted.

ANTHRACNOSE FUNGICIDE TRIAL - 1991

Oak Pointe Golf Club, Brighton, MI

The 1991 Anthracnose (*Colletotrichum graminicola*) fungicide trial was conducted on an irrigated, annual bluegrass fairway on the Oak Pointe Golf Club in Brighton, MI. Applications were initiated preventively on June 28. Treatments were applied on 14, 21, or 28 day intervals through September 13. Fertility was applied at the rate of ½ lb N/1000 ft² throughout the study duration.

Despite establishment on a *Poa annua* fairway which is traditionally not sprayed with fungicides, this study failed to develop significant anthracnose this year. Infection was spotty and rarely affected more than 2-3% of the plot area. Therefore, no anthracnose data was generated this year. Dollar spot (*Sclerotinia homoeocarpa*) did move into the study by August and is reported on the following table (Table 3). As the table indicates, all anthracnose treatments gave statistically significant control of the dollar spot which invaded the study, compared to the untreated controls, and no phytotoxicity was noted.

SUMMER PATCH FUNGICIDE STUDIES - 1991

Fungicide studies for the preventive control of summer patch (*Magnaporthe poae*) disease on annual bluegrass were initiated when soil temperatures reached an afternoon temperature of 65°F at a 2" depth for 2 consecutive days. Studies were established on irrigated, annual bluegrass fairways on two golf courses in Michigan where disease was present in previous years. The fairways were maintained at ½" height of cut and were fertilized at ½ lb. N/Mo (except treatments which included fertilizer). These areas were treated for weed and insect pests and no fungicides, other than those tested, were applied to the studies. Application intervals and frequencies were altered from contract protocols in order to conform to a preventive, 2 application format.

Table 2. Kentucky Bluegrass Melting-Out Fungicide Trial - 1991

Hancock Turfgrass Research Center
 Michigan State University, East Lansing, MI
 Disease rating scale:
 1 (no disease) - 9 (90% or more of leaves infected)
 Plots rated 6/24/91

Treatment	Rate/1000 ft ^{2b}	Interval	I	II	III	AVE	DMR ^a
ASC 66518	1.9 oz	14 day	1	1	1	1.0	E
ASC 66518	3.8 oz	14 day	1	1	1	1.0	E
ASC 66791	5.6 oz	14 day	1	1	1	1.0	E
ASC 66608	3.75 oz	14 day	1	1	1	1.0	E
ASC 66608	7.5 oz	14 day	1	1	1	1.0	E
D. 2787 (WDG)	3.5 oz	14 day	1	1	1	1.0	E
ASC 66825	2.5 oz	21 day	1	1	1	1.0	E
ASC 66900	2.1 fl oz	14 day	1	1	1	1.0	E
D. 2787 (F)	3 fl oz	14 day	1	1	1	1.0	E
D. 2787 (F)	6 fl oz	14 day	1	1	1	1.0	E
Vinclozolin (DF)	2 oz	21 day	1	1	1	1.0	E
Vorlan	2 fl oz	21 day	1	1	1	1.0	E
Broadway	5.25 fl oz	14 day	1	1	1	1.0	E
Vorlan	1 fl oz	21 day	1	1	1	1.0	E
RH-0611	4 oz	7 day	1	1	1	1.0	E
Touché	1 fl oz	14 day	2	1	1	1.33	DE
Fore	6.4 fl oz	14 day	2	1	1	1.33	DE
Duosan	6 oz	21 day	1	2	1	1.33	DE
Fungo/Vorlan Premix	4 oz	21 day	1	1	2	1.33	DE
Touché	2 fl oz	28 day	2	1	1	1.33	DE
Vinclozolin (F)	2 fl oz	21 day	1	2	1	1.33	DE
ASC 66825	4 oz	21 day	1	2	1	1.33	DE
ASC 66825	1.5 oz	21 day	1	1	2	1.33	DE
D. 2787 (WDG)	1.75 oz	14 day	2	1	1	1.33	DE

Table 2. Kentucky Bluegrass Melting-Out Fungicide Trial - 1991 (cont.)

Treatment	Rate/1000 ft ^{2b}	Interval	I	II	III	AVE	DMR ^a
ASC 66791	2.8 oz	14 day	2	1	1	1.33	DE
Eagle	1.25 oz	21 day	1	1	2	1.33	DE
A-499-10	1 lb N	monthly	1	2	2	1.67	CDE
Terraclor (F)	15 fl oz	1 app (4/23)	2	2	1	1.67	CDE
Terraclor (F)	10 fl oz	1 app (4/23)	3	1	2	2.0	BCD
Terraclor (W)	10 oz	1 app (4/23)	2	2	2	2.0	BCD
Regenerate/Rejuvenate	1 lb N	monthly	2	2	2	2.0	BCD
Lustre Lawn	1 lb N	monthly	2	2	2	2.0	BCD
Duosan	4 oz	21 day	2	2	2	2.0	BCD
Fungo/Vorlan Premix	2 oz	21 day	2	2	2	2.0	BCD
RH-0611	4 oz	14 day	2	2	2	2.0	BCD
Terraclor (F)	5 fl oz	1 app (4/23)	3	2	2	2.33	ABC
PDC (MSU)	1 lb N	monthly	3	3	2	2.67	AB
Control	---	---	4	3	2	3.0	A

^aTreatments followed by same letter are not significantly different at 5% level.

^bRates listed are formulation unless listed as "ai" (active ingredient).