

Fertility Application Timing Study

Recent research at MSU suggests that melting-out (Drechslera poae) severity can be reduced through the application of fertilizer dormantly and in the spring. This study was established to further test this hypothesis. Urea was applied foliarly as described above at the times indicated in Tables 6 and 7. The dormant application was made on February 24. The plots were rated for disease level and overall turf quality on June 1, 1984.

ANTHRACNOSE FUNGICIDE STUDY - 1984

Glen Gary Golf Course, Holland, Ohio

The Glen Gary anthracnose (Colletotrichum graminicola) fungicide study was established on a moderately fertilized annual bluegrass (Poa annua) fairway. The study was set up in three replications of a random block design with a 6' x 9' plot size. All liquid applications were made with a CO₂ small-plot sprayer at 30 PSI and 48 gal/acre. Granular treatments were pre-weighed and applied by hand. The area was mowed regularly at approximately 1/2" height of cut.

Initial applications were made on June 28 with subsequent applications being made according to the intervals cited in Table 8. When the rating was taken (August 23) the 14 day treatments had been applied 4 times. The 21 day treatments had been applied 3 times, and the 28 day treatments had been applied twice.

As Table 8 indicates, disease infection reached only moderate levels this year.

DOLLAR SPOT FUNGICIDE STUDY - 1984

Hancock Turfgrass Research Center

The 1984 dollar spot (Moellerodiscus sp., Lanzia sp.) fungicide study was established on an irrigated Emerald creeping bentgrass green. The study was established in three replicates of a random block design with a 3' X 6' plot size. All liquid applications were made with a CO₂ small plot sprayer at 30 psi and 48 gal/acre. Granular treatments were pre-weighed and hand applied. Treatments were applied curatively beginning on August 16. By the time of the enclosed rating (Sept. 26), the 10 day treatments had been applied 4 times, the 14 day treatments were applied 3 times, the 21 day treatments had been applied twice and the 28 day treatments were applied twice.

As can be seen from Table 9, this was a moderate disease year on our bentgrass research area, as well as elsewhere in the Michigan area.

Table 9. Hancock Bentgrass Dollar Spot Fungicide Study - 1984. Hancock Turfgrass Research Center, MSU. Rating Scale: number of dollar spots/plot. Rating date: 9/26/84.

Treatment	Rate/1000 ft ²	Interval	Repetition			Ave.	DMR
			I	II	III		
CGA-448	12 gm ai	21 day	0	0	0	0	A
BAS-45406F	1.4 fl oz	21 day	0	0	0	0	A
BAS-45406F	4.2 fl oz	21 day	0	0	0	0	A
MF 690	2 oz	21 day	0	0	0	0	A
Chipco 26019	2 oz	21 day	0	0	0	0	A
XE 779	.0625 lb	21 day	0*	0**	0	0	A
Daconil 2787	3 fl oz	10 day	0	0	0	0	A
Chipco 26019	1.5 oz	21 day	1	0	0	.3	A
XE-779	.0078 lb	21 day	1	0	0	.3	A
DPX-H6573	.5 oz ai	21 day	0	1	0	.3	A
Bayleton WP	.5 oz	14 day	0	1	1	.7	A
CGA-71818	8 gm ai	21 day	0	2*	0	.7	A
Banner + Manzate	1.33 fl oz + 2.66 oz	21 day	3	0	0	1	A
Vorlan	1 oz	14 day	2	0	1	1	A
Vorlan	2 oz	14 day	3	0	0	1	A
Prochloraz	2.5 oz ai	21 day	0	3	0	1	A
Prochloraz + Tersan 1991	1 oz ai 1 oz	21 day	3	0	0	1	A
Clearys 3336	1 oz	14 day	3	0	0	1	A
DPX-H6573	1 oz ai	21 day	0*	3	0	1	A
Banner + Chlorothalonil	3 oz	21 day	0	2	2	1.3	A
MF 690	2 oz	14 day	0	4	0	1.3	A
Vorlan	2 oz	21 day	4	0	0	1.3	A
Tersan 1991	1 oz	14 day	2	2	0	1.3	A
XE-779	.0156 lb ai	21 day	0	3	1	1.3	A
DPX-H6573	.25 oz ai	21 day	0	5	0	1.7	A
Fungo	1 oz	14 day	0	5	0	1.7	A
DPX-H6573	2 oz ai	21 day	0*	5**	0**	1.7	A
Prochloraz	1.25 oz ai	21 day	0	3	4	2.3	A
Bayleton TOF	.125 oz ai	14 day	0	0	8	2.7	A
BAS 45406 F	2.8 fl oz	21 day	0	0	8	2.7	A
CGA-448	24 gm ai	21 day	0	0	10	3.3	A
Tersan 1991	1 oz	21 day	9	0	2	3.7	A
Daconil 2787	3 fl oz	14 day	10	0	2	4	A
Bayleton WP	1 oz	21 day	0	12	0	4	A
Bayleton GR	.25 oz ai	28 day	14	0	0	4.7	A
MF 690	1 oz	14 day	0	13	1	4.7	A
Daconil 2787	6 fl oz	14 day	0	10	5	5	A
CGA-71818	16 gm ai	21 day	0*	15**	0	5	A
Bayleton GR	.125 oz ai	14 day	13	4	0	5.7	A
XE-779	.031 lb ai	21 day	0	47	1*	16	AB
Bayleton TOF	.25 oz ai	28 day	6	44	0	16.7	AB
Manazate 200	2.66 oz	21 day	64	17	6	29	B
Daconil 2787	1.5 oz	21 day	22	71	7	33.3	BC
Check	--	--	10	29	113	50.7	C

* Indicates slight phytotoxicity

**Indicates moderate phytotoxicity

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