

### 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 8. Glen Gary Annual Bluegrass Anthracnose Fungicide Studies 1984.  
Glen Gary Golf Course, Holland, Ohio. Rating Scale - Percent  
Plot Area Infected. Rating Date 8/23/84

Treatment	Rate/1000 ft <sup>2</sup>	Interval	Repetition			Ave.	DMR
			I	II	III		
S-640	1.1 fl oz	14 day	0	0	0	0	A
S-640	2.2 fl oz	14 day	0	0	0	0	A
DPX H6573	.25 oz ai	21 day	0	0	0	0	A
DPX H6573	.5 oz ai	21 day	0	0	0	0	A
DPX H6573	2 oz ai	21 day	0	0	0	0	A
BAS 45406 F	4.2 fl oz	21 day	0	0	0	0	A
Prochloraz	3 oz ai	21 day	0	0	0	0	A
XE-779	.0078 lb ai	21 day	0	0	0	0	A
XE-779	0.031 lb ai	21 day	0	0**	0	0	A
Fungo + Vorlan	2 oz + 2 oz	21 day	0	0	0	0	A
Manzate 200	2.6 oz	21 day	0	0	0	0	A
Fungo	2 oz	21 day	0	0	0	0	A
DPX H6573	1 oz ai	21 day	0	2	0	.7	A
CGA-448	24 gm ai	21 day	0	0	2	.7	A
Banner	1 fl oz	21 day	0	0	2	.7	A
Banner/ Chlorothalonil	3 oz	21 day	0	2	0	.7	A
BAS 45406 F	2.8 fl oz	21 day	0	0	2	.7	A
Bayleton .5G	.25 oz ai	28 day	0	2	0	.7	A
Cl 3336	1 oz	21 day	0	2	0	.7	A
Banner	2 oz	21 day	0	2	0	.7	A
CGA 71818	16 gm ai	21 day	2	0	0	.7	A
Bayleton	1 oz	21 day	0	2	2	1.3	A
CGA-448	12 gm ai	21 day	0	5	0	1.7	A
Banner/Manzate	1.33 fl oz + 2.66 oz	21 day	0	0	5	1.7	A
CGA-71818	8 gm ai	21 day	0	5	0	1.7	A
XE 779*	.0625 lb ai	21 day	0	0	5**	1.7	A
Tersan 1991	1 oz	21 day	0	10	2	4	AB
Bayleton TOF	.125 oz ai	14 day	5	5	7	5.7	AB
Bayleton TOF	.25 oz ai	28 day	0	20	0	6.7	AB
Bayleton .5G	.125 oz ai	14 day	5	15	0	6.7	AB
BAS 45406F	1.4 fl oz	21 day	5	25	0	10	AB
Fungo + Vorlan	1 oz + 1 oz	21 day	0	5	25	10	AB
XE-779	0.0156 lb ai	21 day	30	2	0	10.7	AB
Vorlan	2 oz	21 day	5	25	2	10.7	AB
Prochloraz	1.5 oz ai	21 day	0	0	50	16.7	ABC
Fungo	1 oz	21 day	40	10	0	16.7	ABC
Vorlan	1 oz	21 day	10	20	50	26.7	BC
Dac 2787	1.5 oz	21 day	0	2	80	27.3	BC
Check	---	---	15	20	80	38.3	C

\* Applied once only due to phytotoxicity

\*\*Greening effect noted

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