Dollar Spot Fungicide Trials - 1989

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

The 1989 curative dollar spot (Moellerodiscus sp., Lanzia sp.) fungicide trial was conducted on an irrigated Emerald creeping bentgrass (Agrostis palustris huds.) putting green at the Hancock Turfgrass Research Center on the MSU campus. The green was maintained at ¼" height of cut and fertilized at ½# N/mo. Treatments were applied curatively to 3' X 6' plots in three replications of a random block design on 14, 21 and 28 day intervals as indicated on the data tables. The initial treatments were applied on August 1. All liquid treatments were applied with a CO_2 small-plot sprayer at 30 PSI and 48 gal/A. The granular treatments were pre-weighed and applied by hand. Following the initial application (8/1), the 14 day treatments were reapplied on 8/14,8/28 and 9/11, the 21 day treatments were reapplied on 8/23 and 9/11 and the 28 day treatments were reapplied on 8/28. The plots were rated for percent plot area infected on 8/14, 8/28, 9/11 and 9/19 (Table 5).

The plot area where the dollar spot fungicide trial was conducted has a benzimidazole-resistant strain of dollar spot so Tersan 1991 (and another benzimidazole fungicide, Fungo) failed to control the disease. As the data tables show, however, many experimental compounds (SDS 66518, SDS 66811, SAN 619F, SAN 832, Lynx 2F, BAS 4800, etc.) and many standard fungicides (Dac. 2787, Banner, Vorlan, Ch. 26019, Bayleton, etc.) gave good control of dollar spot this year.

Although no phytotoxicity was observed throughout the course of this study, it is interesting to note the large number of compounds (SAN 619, Banner, ICIA 523, Bayleton, SAN 832) which seemed, at some point, to produce a "greening response" in the turf.

Red Thread Fungicide Trial - 1989

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

The 1989 red thread (*Laetisaria fuciformis*) fungicide trial was conducted on already-infected perennial ryegrass (Loretta) at the Hancock Turfgrass Research Center on the campus. The study was laid out in three replicates of a random block design utilizing a plot size of 3'/x6'. Treatments were applied foliarly with a CO_2 small-plot sprayer at 30 PSI and a volume of 48 gal/A. The first applications were made on June 17 with subsequent applications being made on 14, 21 or 28 day schedules.

At the time of the first disease rating (7/13) (Table 6), the 14 day treatments had been applied twice (6/17,6/30), and the 21 and 28 day treatments had been applied once (6/17). When the second rating was taken

Table 5. Dollar Spot Fungicide Trial -1989

Hancock Turfgrass Research Center
Michigan State University, East Lansing, MI
Rated 9/11/89 - Percent plot area infected with dollar spot

Treatment[c]	Rate/1000 ft[2b]	Applic. date	I	II	III	AVE	DMR (.05)[a]
ICIA 523 + X-77	3gm ai +.05%v/v	21 days	0^{G}	0^{G}	0^{G}	0.0	G
Ch 26019 (F)	.75 oz ai	21 days	0	0	0	0.0	G
SDS66811	.015 oz ai	28 days	0	0	0	0.0	G
SDS66811	.03 oz ai	28 days	0	0	0	0.0	G
SDS66811	.06 oz ai	28 days	0	0	0	0.0	G
Dac 2787	6 fl oz	14 days	0	0	0	0.0	G
SDS66518 (90%)	3.5 oz	14 days	0	0	0	0.0	G
San 619F	1.89 gm ai	28 days	0^{G}	0^{G}	0	0.0	G
San 619F	2.84 gm ai	28 days	0^{GG}	0^{GG}	0^{G}	0.0	G
San 832	56.69 gm ai	28 days	0	0^{G}	0	0.0	G
Vorlan	2 oz	21 days	0	0	0	0.0	G
Vorlan + Fungo	2 oz + 2 oz	21 days	0	0	0	0.0	G
Banner 1.1EC	4 gm ai	21 days	0^{G}	0^{G}	0	0.0	G
Banner 1.1ME	4 gm ai	21 days	0^{G}	0^{G}	0^{G}	0.0	G
Banner 1.1E Improved	4 gm ai	21 days	0	0	0	0.0	G
Banner 1.1EC	4 gm ai	28 days	0^{G}	0^{G}	0	0.0	G
Lynx 2F	.0625 oz ai	14 days	0	0	0	0.0	G
Bayleton	.25 oz ai	28 days	0	0	0	0.0	G
BAS 48000F	.06 lb ai/A	21 days	0	0	0^{G}	0.0	G
Chipco 26019 (F)	4 oz	21 days	0	0	0	0.0	G
Lesco 017530	3 lbs	28 days	0	0	0	0.0	G
ICIA 523 + X-77	6gm ai +.05%v/v	21 days	0^{GG}	1^{G}	0^{GG}	0.3	G
Rubigan	1.5 fl oz	28 days	0	1	0	0.3	G
Lesco 011092	3 fl oz	21 days	0	0	1	0.3	G
Vorlan + Fungo	1 oz + 1 oz	21 days	2	0	0	0.7	G
BAS 48000F	.03 lb ai/A	21 days	0	1	1	0.7	G
Rubigan	.75 fl oz	21 days	0	2	1	1.0	G
Lynx 2F	.125 oz ai	28 days	2	1	1	1.3	FG
Dac 2787	3 fl oz	14 days	1	2	-	1.5	FG
Prochloraz	1.88 oz ai	21 days	3	1	3	2.3	FG
SDS 66518 (85%)	1.85 oz	14 days	10	2	3	5.0	EFG
CGA 455	14 gm ai	28 days	10	5	2	5.7	EFG

SDS 66518 (75%)	2 oz	14 days	10	7	3	6.7	EFG
EXP 10069A	5 lbs	21 days	10	10	15	11.7	DEFG
EXP 10072A	5 lbs	21 days	30	5	2	12.3	DEF
CGA 455	7 gm ai	14 days	20	5	20	15.0	DE
SDS 66518	1.75 oz	14 days	2	35	10	15.7	DE
CGA 455	7 gm ai	21 days	25	25	7	19.0	D
Banner 1GR	4 gm ai	21 days	35	40	20	31.7	C
Banner 50 (WP)	4 gm ai	21 days	25	50	35	36.7	BC
Tersan 1991	2 oz	14 days	50	35	-	28.3	AB
	Control	----	----	60	60	35	51.7A

[a]Treatments followed by the same letter are not significantly different from each other at the 5% level.
[b]Rates listed as formulation unless listed as active ingredient (ai).
[c]Blanked out treatments are proprietary.
[G]Mild greening of turf observed.
[GG]Strong greening of turf observed.