

Anthracnose Fungicide Study - 1983
Hancock Turfgrass Research Center, MSU.

Establishment:

The 1983 Anthracnose (Colletotrichum graminicola) study was established at the Hancock Turfgrass Research Center in East Lansing on an irrigated, moderately fertilized annual bluegrass (Poa annua) simulated fairway area. 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 a volume of 40 gal/acre. Granular treatments were pre-weighed and applied by hand. The area was mowed regularly at 1/2" height of cut.

Initial applications were made preventatively on July 8 with succeeding applications being made at the intervals cited on the data tables. When the first reading was taken (Aug. 24), the 10 day treatments had been applied 5 times, the 14 day treatments 4 times, the 21 day treatments 3 times, and the 30 day treatments twice. When the second rating was taken (Sept 15), the 10 day treatments had received 2 additional applications, and the 14, 21, and 30 day treatments had received 1 additional application.

As the data tables indicate, disease infection in our plots reached only moderate levels this year, despite the hot summer we experienced.

Table 9. Hancock Annual Bluegrass Anthracnose Fungicide Study - 1983.
Hancock Turfgrass Research Center, MSU. Rating Scale: 1 (no
disease) - 9 (90% infection or greater). Rating date - 8/24/83.

Treatment	Rate ¹ /1000 ft ² + Interval	Repetition				
		I	II	III	AVE	DMR
Banner	2 fl. oz. (21 day sch.)	1	1	1	1	A
Banner	1 fl. oz. (21 day sch.)	1	1	1	1	A
Daconil 2787 FL	16 fl. oz. (21 day sch.)	1	1	1	1	A
CGA 71818	8 gm. ai. (21 day sch.)	1	1	1	1	A
CGA 71818	16 gm. ai. (21 day sch.)	1	1	1	1	A
Bayleton	2 oz. (21 day sch.)	1	1	1	1	A
Bayleton	1 oz. (21 day sch.)	1	1	1	1	A
Tersan 1991	2 oz. (21 day sch.)	1	1	1	1	A
Tersan 1991	1 oz. (21 day sch.)	1	1	1	1	A
Bayleton T.O.	2 oz. (30 day sch.)	1	1	1	1	A
Bayleton T.O.	1 oz. (14 day sch.)	1	1	1	1	A
Daconil 2787 FL	12 fl. oz. (21 day sch.)	1	2	1	1.3	A
BRC 227	.2 lb ai./A (21 day sch.)	2	1	1	1.3	A
Duosan	3 oz. (21 day sch.)	2	1	1	1.3	A
Daconil 2787 FL	6 fl. oz. (14 day sch.)	1	2	1	1.3	A
Daconil 2787 FL	3 fl. oz. (10 day sch.)	1	2	1	1.3	A
Daconil 2787 FL	8 fl. oz. (21 day sch.)	1	2	2	1.7	AB
Cl. 3336	2 oz. (21 day sch.)	2	2	1	1.7	AB
Banner	.5 fl. oz. (21 day sch.)	1	1	3	1.7	AB
Fungo 50	1 oz. (21 day sch.)	1	1	3	1.7	AB
Daconil 2787 FL	1.47 fl. oz. (10 day sch.)	2	2	2	2	ABC
Bayleton .5% Gr.	6.25 lbs. (30 day sch.)	2	2	2	2	ABC
Fungo 50	2 oz. (21 day sch.)	2	3	2	2.3	ABCD
NC 28410	2 oz. ai. (14 day sch.)	2	2	3	2.3	ABCD
Daconil 2787 FL	2 fl. oz. (10 day sch.)	2	2	3	2.3	ABCD
Daconil 2787 FL	6 fl. oz. (10 day sch.)	1	2	4	2.3	ABCD
Daconil 2787 FL	3 fl. oz. (14 day sch.)	1	4	2	2.3	ABCD
MF 654	1.5 oz. (21 day sch.)	5	2	2	3	BCDE
Cl. 3336	1 oz. (21 day sch.)	4	2	3	3	BCDE
BRC 227	.1 lb. ai./A (21 day sch.)	4	3	3	3.3	CDEF
MF 654	1 oz. (21 day sch.)	4	4	3	3.7	DEF
NC 28410	4 oz. ai. (14 day sch.)	2	5	5	4	EF
Check	-	3	7	4	4.7	F

¹ Rates indicate formulation, except as otherwise noted.

² Treatments followed by the same letter are not significantly different from each other at the 5% level.

Table 10. Hancock Annual Bluegrass Anthracnose Fungicide Study - 1983.
 Hancock Turfgrass Research Center, MSU. Rating scale: 1 (no
 disease) - 9 (90% infection or greater). Rating date - 9/15/83.

Treatment	Rate ¹ /1000 ft ² + Interval	Repetition			AVE	DMR ²
		I	II	III		
Bayleton T.O.	2 oz. (30 day sch.)	1	1	1	1	A
Bayleton T.O.	1 oz. (14 day sch.)	2	1	1	1.3	AB
Bayleton	2 oz. (21 day sch.)	2	1	1	1.3	AB
Daconil 2787 FL	12 fl. oz. (21 day sch.)	1	2	1	1.3	AB
Banner	2 fl. oz. (21 day sch.)	1	1	2	1.3	AB
Banner	1 fl. oz. (21 day sch.)	1	2	1	1.3	AB
BRC 227	.2 lb ai./A (21 day sch.)	2	1	2	1.7	ABC
Bayleton 5% Gr.	6.25 lbs/A (30 day sch.)	2	2*	1	1.7	ABC
Bayleton	1 oz. (21 day sch.)	1	3	1	1.7	ABC
Daconil 2787 FL	6 fl. oz. (14 day sch.)	2	2	1	1.7	ABC
Daconil 2787 FL	16 fl. oz. (21 day sch.)	1	3	2	2	ABCD
Banner	.5 fl. oz. (21 day sch.)	1	1	4	2	ABCD
Daconil 2787 FL	3 fl. oz. (10 day sch.)	1	3	2	2	ABCD
Daconil 2787 FL	6 fl. oz. (10 day sch.)	1	2	3	2	ABCD
CGA 71818	16 gm. ai. (21 day sch.)	2	2	2	2	ABCD
Cl. 3336	1 oz. (21 day sch.)	3	2	2	2.3	ABCD
Tersan 1991	2 oz. (21 day sch.)	2	3	2	2.3	ABCD
CGA 71818	8 gm. ai. (21 day sch.)	1	3	3	2.3	ABCD
Daconil 2787 FL	3 fl. oz. (10 day sch.)	4	2	1	2.3	ABCD
Duosan	3 oz. (21 day sch.)	2	2	3	2.3	ABCD
Daconil 2787 FL	3 fl. oz. (14 day sch.)	1	4	3	2.3	ABCD
Tersan 1991	1 oz. (21 day sch.)	2	1	4	2.3	ABCD
DAconil 2787 FL	8 fl. oz. (21 day sch.)	3	3	2	2.7	ABCDE
Daconil 2787 FL	2 fl. oz. (10 day sch.)	3	1	4	2.7	ABCDE
NC 28410	2 oz. ai. (14 day sch.)	1	4	3	2.7	ABCDE
Fungo 50	1 oz. (21 day sch.)	2	3	4	3	ABCDE
MF 654	1 oz. (14 day sch.)	4	3	3	3.3	BCDE
NC 28410	4 oz. ai. (14 day sch.)	2	4	4	3.3	BCDE
MF 654	1.5 oz. (21 day sch.)	5	4	2	3.7	CDE
Fungo 50	2 oz. (21 day sch.)	3	5	3	3.7	CDE
Cl. 3336	2 oz. (21 day sch.)	4	4	4	4	DE
BRC 227	.1 lb. ai./A (21 day sch.)	3	4	5	4	DE
Check	-	4	7	3	4.7	E

¹ Rates indicate formulation, except as otherwise noted.

² Treatments followed by the same letter are not significantly different from each other at the 5% level.

* Mild yellowing.