

Daconil-Ronilan Combination Dollarspot Study - 1980

The Daconil 2787 FL - Ronilan combination dollarspot (Sclerotinia homeocarpa) study was conducted at the Crops and Soils Field Laboratory in East Lansing, MI, on an irrigated Toronto creeping bentgrass putting green. The plot was laid out in three replications of a random block design. The entire plot area was uniformly infected with dollarspot at the time of treatment. Treatments were applied curatively to 3 feet x 6 feet plots on August 18, September 3, September 15 and September 29. All treatments were applied with a CO₂ small-plot sprayer at a volume of 40 gal./acre.

The ratings were taken on October 8 (Table 10).

Results and Conclusions

All treatments gave significant control compared to the untreated check. Ronilan alone or in combination with Daconil 2787 ranked higher than Daconil 2787 alone. The 15, 12, and 14 day spray intervals under the severe disease pressure probably accounted for Ronilan's higher ranking.

Daconil 2787 FL Gallonage Study - 1980

The Daconil 2787 FL gallonage study was conducted on an irrigated Toronto creeping bentgrass putting green at the MSU Crops and Soils Field Laboratory in East Lansing, MI. The plot area was uniformly infected with dollarspot (Sclerotinia homeocarpa) prior to treatment. Treatments were applied curatively to 3 feet x 6 feet plots in three replications of a random block design. Treatments were made on August 14, August 28, September 13 and September 24 using a CO₂ small-plot sprayer.

The ratings were taken on September 30 (Table 11).

Results and Conclusions

All rate and gallonages gave significant control compared to the untreated control. The 6 oz/1000 sq ft rate gave better, if not always significant, control at the 5% level than the 3 oz/1000 sq ft rates. The only treatment giving significant control over all of the 3 oz Daconil 2787 rates was Daconil 2787 6 oz/1000 sq ft rate in 1 gal of water. Approximately 2 week intervals were used in this study which pushed Daconil 2787 to its limits under the severe dollar spot pressure, but under such stress there is a trend that indicates Daconil 2787 at the 6 oz/1000 sq ft rate is more effective when applied with lower water gallonage. All treatments gave significant control compared to the untreated check.

This study was initiated earlier than the Acti-dione - Daconil - Bayleton study (Table 9) and received the same number of treatments, the major difference being the longer interval between application in this study (16, 12 and 11 days) versus the shorter (9, 7 and 10 days) intervals in the Acti-dione - Bayleton - Daconil study. Daconil 2787 gave control at the 1 + 2 oz/1000 sq ft rate at shorter intervals (Table 9) comparable to the 3 and 6 oz/1000 sq ft at longer intervals (Table 11). The longer intervals in the Daconil - Ronilan study show similar results with Daconil 2787 (Table 10). All studies were conducted on the same green.

Table 10. Daconil 2787 FL - Ronilan Combination Dollarspot Study
 MSU Crops and Soils Field Laboratory
 Disease Rating - 1, no disease; 9, severe disease.
 10/8/80

Treatment	Rate/1000 ft ²	Replication			AVE	DMR (5%)
		I	II	III		
Ronilan	2 oz.	1	1	1	1	A
Ronilan + Daconil 2787 FL	1 oz. + 2 fl. oz.	1	1	1	1	A
Ronilan	1 oz.	1	1	2	1.3	AB
Ronilan + Daconil 2787 FL	1 oz. + 3 fl. oz.	1	1	2	1.3	AB
Daconil 2787 FL	6 fl. oz.	2	1	3	2	B
Daconil 2787 FL	3 fl. oz.	3	4	4	3.7	C
Check	-	9	9	8	8.7	D

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

Table 11. Daconil 2787 FL Gallonage Dollarspot Study
 MSU Crops and Soils Field Laboratory
 Disease Rating - 1, no disease; 9, severe disease.
 9/30/80.

Treatment	Rate/1000 ft ²	Replication			AVE	DMR (5%)
		I	II	III		
Daconil 2787 FL	6 fl. oz./1 gal.	1	1	1	1	A
Tersan 1991	1 oz./1 gal.	1	1	1	1	A
Daconil 2787 FL	6 fl. oz./2 gal.	1	1	2	1.3	AB
Daconil 2787 FL	6 fl. oz./4 gal.	1	2	2	1.7	AB
Daconil 2787 FL	6 fl. oz./6 gal.	2	1	2	1.7	AB
Daconil 2787 FL	6 fl. oz./8 gal.	2	1	3	2	ABC
Daconil 2787 FL	3 fl. oz./2 gal.	1	4	5	3.3	BCD
Daconil 2787 FL	3 fl. oz./4 gal.	3	3	4	3.3	BCD
Daconil 2787 FL	3 fl. oz./6 gal.	5	3	4	4	CD
Daconil 2787 FL	3 fl. oz./1 gal.	2	7	7	5.3	DE
Daconil 2787 FL	3 fl. oz./8 gal.	5	8	8	7	E
Check	-	9	9	9	9	F

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