

Fusarium Blight Study - 1979

The 1979 Fusarium blight (Fusarium roseum) study was conducted on a commercial lawn area at the Riviera Tool and Die Company in Grand Rapids, MI on an irrigated Merion Kentucky bluegrass turf which had severe Fusarium blight attacks in previous years. The plots were 6 ft x 9 ft and were replicated three times in a randomized block design. The turf was maintained at a two-inch height of cut.

The study consisted of fungicides and nematicides, as well as a number of experimental combination materials. The treatments were applied on July 3 and July 23, except as noted on the data charts. The non-granular materials were applied as drenches, using sprinkling cans, while the granular materials were applied with a Scotts 3 ft drop-type spreader. The entire area was irrigated prior to the applications and all treatments were drenched into the root zone except where noted. The ratings were taken on August 23 (Table 10).

Only F. 9262, DPX 4424, F. 9178, F. base, F. 8178 and F. 7161 gave significant control when compared to the untreated check. The area in general remained in poor condition all season long. A 1/2 lb of nitrogen per 1000 sq ft was added on August 24 to try and encourage growth, but this did little to improve turfgrass quality. The poor condition of the turf would account for the low rankings of many of the fungicides. Without good recuperative potential the previously infected spots would not have filled in, even though the fungicides may have eradicated the disease or prevented new infections from occurring.

Table 10.

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Number of rings/plot

Treatment	Rate/1000 ft ²	Replication				
		I	II	III	AVE	DMR
F. 9262	1 oz	0	0	0	0	A
DPX 4424	4 oz	0	0	.5	.2	AB
F. 9178	.25 oz	0	.5	0	.2	ABC
F. base	.9 lbs	0	0	1	.3	ABC
F. 8178	1 oz	1	.5	0	.5	ABC
F. 7161	1 oz	0	0	1.5	.5	ABC
F. 9262	.5 oz	1	1.5	0	.8	ABCD
Vydate FL	12 fl oz	1.5	1	0	.8	ABCD
BFN 8099	6.3 fl oz	3	0	0	1	ABCD
F. 8411	.5 oz	1.5	0	3	1.5	ABCDE
Tersan 1991 + Bayleton 50 WP	2 oz + 2 oz	.5	1.5	3	1.7	ABCDE
Baycor 25 WP	4 oz ai	1	4	0	1.7	ABCDE
BFN 8099	.63 fl oz	2	0	3	1.7	ABCDE
F. 8411	.75 oz	2.5	2	1	1.8	ABCDE
Tersan 1991	4 oz	0	4.5	2	2.2	ABCDE
F. 9177	.25 oz	2.5	.5	3.5	2.2	ABCDE
Tersan 1991 + Bayleton 50 WP	1 oz + .5 oz	2	2	3	2.3	ABCDE
Bayleton 25 WP	1/2 oz ai	2	1.5	3.5	2.3	ABCDE
Chipco 26019	2 oz ai (foliarly)	5	0	2	2.3	ABCDE
CGA-64251	8 gm ai	0	3	4.5	2.5	ABCDE
F. 7498	1 oz	1	1.5	5	2.5	ABCDE
F. 84 12	1.5 oz	0	4	3.5	2.5	ABCDE
Tersan 1991	8 oz	3	.5	4.5	2.7	ABCDE
F. 8412	1 oz	1	4	3	2.7	ABCDE
BFN 8099	2.5 fl oz	3.5	5	0	2.8	ABCDE
DPX 4424	2 oz	3	1	4.5	2.8	ABCDE
CGA 64251	16 gm ai	1	3	5	3	ABCDE
Chipco 26019	4 oz ai (foliarly)	5	4	0	3	ABCDE
Fungo 50	8 oz	4	1	4	3	ABCDE
U.C. 21865	10 lbs ai	0	7	2.5	3.2	ABCDE
Chipco 26019*	2 oz ai (foliarly)	1	3	6	3.3	ABCDE
Bayleton 25 WP	1 oz ai	3	3	4	3.3	ABCDE
Fungo 50	4 oz	2	4.5	4	3.5	ABCDE
DPX 4424	1 oz	3	6	2	3.7	BCDE
Cleary 3336 FL	8 fl oz	5	1.5	4.5	3.7	BCDE
Chipco 26019	3 oz ai (foliarly)	7	1	3.5	3.8	CDE
Check	-	3	4	6	4.3	DE
Tersan 1991 + Bayleton 50 WP	1 oz + 1 oz	5	4	5	4.7	E
Cleary 3336 FL	4 fl oz	3.5	4	7	4.8	E

*Received 3 applications, 7/3, 7/23 and 8/15.