

show significant differences. The results can be seen in Table 7. The treatments ranking the highest were Pro Turf Fert + DSB 1X, Tersan 1991 2 oz, Tersan 1991 + RP 26019 1 oz + 2 oz, Tersan 1991 + DPX 4424 1 oz + 2 oz, Tersan 1991 + Daconil 2787 1 oz + 6 oz, Tersan 1991 + Tersan 75 1 oz + 6 oz, Lesco 1644 4 oz, Lesco 2833 3 oz, Lesco 2887 3 oz, GA-1-105 5 gm (ai) and BFN 7544 5 oz.

Where turfgrass quality was concerned, those treatments showing significantly better quality than the check (Table 8) included, Tersan 1991 2 oz, Tersan 1991 + Daconil 2787 1 oz + 6 oz, Tersan 1991 + RP 26019 1 oz + 2 oz, Tersan 1991 + Tersan 75 1 oz + 6 oz, Tersan 1991 + DPX 4424 1 oz + 2 oz, Lesco 2833 3 oz, Lesco 2887 3 oz, Tersan 1991 0 oz, Pro-Turf Fert. + DSB 1X, Lesco 1644 4 oz, RP 26019 2 oz, RP 26019 1 oz, DPX 4424 2 oz, Daconil 2787 6 oz, GA-1-105 2.5 gm (ai), BFN 7544 5 oz, BFN 7544 10 oz, Daconil 2787 (wp) 6 oz, GA-1-105 5.0 gm (ai), Acti-dione - TGF + Ferrous Sulfate .34 oz + 1 oz, Acti-dione TGF + RZ .34 oz + .55 oz, and Acti-dione RZ + Ferrous Sulfate .55 oz + 1 oz.

Anthracnose Nitrogen Fertility Study

Introduction

The 1977 Anthracnose-fertility study was conducted at the Dearborn Country Club in Dearborn, Michigan on an irrigated annual bluegrass fairway mowed at a 1/2 inch height of cut. There were 2 separate studies involved. In study A, the fertilizer was applied once on May 26. It consisted of a quick release nitrogen, urea, and two slow release nitrogen carriers, IBDU and Uramite. The plots were read on September 12.

In Study B commercial fertilizers were used. Some contained only nitrogen, some nitrogen and phosphorus, and some nitrogen, phosphorus and potassium. Phosphorus and potassium without nitrogen was also included. The treatments were applied on May 16, June 20, July 18 and August 16. The plots were read on September 12.

Results

In both study A and B, no treatment gave significant control compared to the untreated control. It would seem that fertility alone will not control anthracnose during the years of severe disease pressure. What is needed is combined programs of fertilizer and fungicides to control anthracnose at the least possible costs.

Table 9. Anthracnose Study, 1977-Single Fertilizer Application % Anthracnose in nitrogen fertility study where treatments were applied one time on May 16 and read on September 12.

Treatment	Actual lbs N/ 1000 sq ft	% Area Infected			AVE (DMR)
		I	II	III	
Urea	1/2	0	30	0	10.0 a
Urea	1 1/2	20	15	10	15.0 a
Check	-	40	5	0	15.0 a
IBDU	1 1/2	60	10	0	23.3 a
Uramite	1 1/2	20	50	10	26.7 a
IBDU	3/4	60	40	10	33.3 a
Uramite	3/4	40	60	5	35.0 a
Urea	3/4	60	50	10	50.0 a

Table 10. Anthracnose Study, 1977 - Monthly Fertilizer Applications % Anthracnose in nitrogen fertility study where treatments were applied 5/16, 6/20, 7/18, and 8/16 and plots read on 9/12.

Treatment	Actual lbs N/ 1000 sq ft	% Area Infected			AVE (DMR)
		I	II	III	
Lebanon "Country Club" 18-5-9		70	10	5	28.3 a
Free Flow - 18-5-9	1 lb.	40	40	5	28.3 a
Milorganite - 6-4-0	1 lb.	30	40	30	33.3 ab
Free Flow - 30-3-10	1/2 lb.	60	30	10	33.3 ab
Milorganite - 6-4-0	1/2 lb.	15	5	85	35.0 ab
Par Ex - 24-4-12	1/2 lb.	80	5	20	35.0 ab
Scotts Pro-Turf Fairway Fert. - 30-3-10	1/2 X	40	15	50	35.0 ab
Lakeshore 27-0-0	1 lb.	40	5	60	35.0 ab
Scotts Pro-Turf Fairway Fert. - 30-3-10	1X	15	90	10	38.3 ab
Free Flow 18-5-9	1/2 lb.	30	50	50	43.3 ab
Check	-	10	70	60	46.7 ab
Murlate of Potash 0-0-61 + Phosphorus 0-20-0	1/2 lb. + 1/2 lb.	80	15	50	48.3 ab
Vertagreen "Tournament Plus" 19-5-9	1 lb.	60	35	70	55.0 ab
Free Flow - 30-0-10	1 lb.	20	80	80	60.0 ab
Lebanon "Country Club" 18-5-9	1/2 lb.	80	80	20	60.0 ab
Lakeshore 27-0-0	1/2 lb.	70	60	70	66.7 ab
Vertagreen "Tournament Plus" 19-5-9	1/2 lb.	80	80	40	66.7 ab
Murlate of Potash 0-0-61 + Phosphorus 0-20-0	1 lb/ + 1 lb.	80	80	70	76.7 ab
Par Ex 24-4-12	1 lb.	90	90	80	86.7 b