

## Anthracnose - Nitrogen Fertility Timing and Carrier Study - 1980

Burroughs Farms Golf Course, Brighton, MI

The long term disease-fertility plots were established on an irrigated 5/8 inch mowed annual bluegrass fairway. All fertilizer applications were made as indicated in Tables 15 and 16. The anthracnose (Colletotrichum graminicola) ratings were taken on the same plots on September 23, 1980. No fungicides were applied on these plots.

### Results and Conclusions

#### Sulfur Coated Urea Timing - Anthracnose Study

There were no significant differences among treatments. The no nitrogen control plots unfortunately received a 1-1/2 lb/1000 sq ft application of Milorganite on June 11, 1980.

#### Nitroform - Urea - Anthracnose Study

The plots receiving most of their nitrogen in the early spring and late summer treatment had more anthracnose than those receiving their nitrogen primarily in the summer and dormantly.

Table 15. Sulfur Coated Urea Timing - Anthracnose Study - 1980.  
 Burroughs Farms Golf Course, Brighton, MI  
 Percent area infected with anthracnose - 9/23/80

Treatment	Replication			AVE	DMR (5%)
	I	II	III		
1. Sulfur Coated Urea (Special)	2	20	5	9	A
5. Check	20	4	20	15	A
4. Sulfur Coated Urea	20	20	8	16	A
3. Sulfur Coated Urea	25	10	20	18.3	A
2. Sulfur Coated Urea	25	25	25	25	A

Notes:

Treatments 1 & 2: June '80 1/2 lb. N.  
 July '80 1/2 lb. N.  
 Aug. '80 1/2 lb. N.  
 Sept. '80 1 lb. N.  
 Nov. '79 1 lb. N.

Treatment 3: April '80 1/2 lb. N.  
 May '80 1/2 lb. N.  
 June '80 1/2 lb. N.  
 Sept. '80 1/2 lb. N.

Treatment 4: April '80 1 lb. N.  
 May '80 1 lb. N.  
 June '80 1 lb. N.  
 Sept. '80 1 lb. N.

Treatment 5: No nitrogen (Mistakenly treated with 1-1/2 lb. Milorganite/1000 ft<sup>2</sup> on June 11, 1980).

Table 16. Nitroform - Urea - Anthracnose Study 1980.  
 Burroughs Farms Golf Course, Brighton, MI  
 Percent area infected with anthracnose - 9/23/80.  
 No fungicides applied.

Treatment No.	Replication				AVE	DMR*
	I	II	III	IV		
2	20	25	10	5	15	A
3	30	20	30	20	25	AB
1	30	35	35	15	28.8	B

Treatment 1: May '80 - 1 lb. nitrogen (1/2 lb. powder blue (nitroform), 1/2 lb. urea).  
 June '80 - 1 lb. nitrogen (3/4 lb. powder blue (nitroform), 1/4 lb. urea).  
 Sept. '80 - 2 lbs. nitrogen (1 lb. powder blue (nitroform), 1 lb. urea).

Treatment 2: Nov. '79 - 1 lb. nitrogen (Urea).  
 June '80 - 1/2 lb. nitrogen (1/4 lb. powder blue (nitroform), 1/4 lb. urea).  
 Aug. '80 - 1/2 lb. nitrogen (1/4 lb. powder blue (nitroform), 1/4 lb. urea).  
 Sept. '80 - 1 lb. nitrogen (1/2 lb. powder blue (nitroform), 1/2 lb. urea).

Treatment 3: No nitrogen.

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