

Nitroform-Urea Fertility-Anthracnose Study - 1979

This study was established in May, 1979 as part of an on-going investigation to determine the effect of the nitrogen fertility on anthracnose (Colletotrichum graminicola) development. The study was conducted on a 3/4" irrigated Poa annua fairway at the Burroughs Farms Golf Course in Brighton, MI.

Nitroform fertilizer (Powder-Blue) and urea combinations were applied on May 9, June 7, July 2, July 30, and September 19 (Tables 12 and 13).

On August 3, one-half of the plot area received a 2 oz/1000 ft² application of Tersan 1991. Anthracnose pressure was moderately severe at the time the application was made.

The anthracnose ratings which follow were taken on August 21.

Results: Nitroform-Urea Fertility-Anthracnose Study

There were no significant differences among treatments within each study. However, all treatments that received one application of Tersan 1991 had less disease than the corresponding plots which received no fungicide. This shows the importance of a good nitrogen-fertility fungicide combination program and the importance of nitrogen fertility during the summer months. A season with greater anthracnose pressure will be required before significant differences among treatments can be seen.

Table 12.

Nitroform-Urea-Anthracnose Study - 1979
 Burroughs Farms Golf Course, Brighton, MI
 % Area Infected With Anthracnose
 Tersan 1991 Applied on August 8

Treatment No.	Replication				AVE	DMR*
	I	II	III	IV		
1	0	5	0	0	1.3	A
2	10	10	0	2	5.5	A
3	10	5	2	5	5.5	A

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

Treatment 2: June - 1/2 lb nitrogen (Urea)
 July - 1/2 lb nitrogen (Urea)
 Aug. - 1/2 lb nitrogen (Urea)
 Sept. - 1 lb nitrogen (Urea)

Treatment 3: No nitrogen

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

Table 13.

Nitroform-Urea-Anthraco-nose Study - 1979
 Burroughs Farms Golf Course, Brighton, MI
 % Area Infected With Anthracnose
 No Fungicides Applied

Treatment No.	Repetition				AVE	DMR*
	I	II	III	IV		
2	20	15	25	10	17.5	A
1	5	30	30	10	18.8	A
3	15	30	40	15	25.0	A

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

Treatment 2: June - 1/2 lb nitrogen (Urea)
 July - 1/2 lb nitrogen (Urea)
 Aug. - 1/2 lb nitrogen (Urea)
 Sept. - 1 lb nitrogen (Urea)

Treatment 3: No nitrogen

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