

Because we experienced a cool summer, no disease developed in the study area, so no data are available.

Anthrachnose (*Colletotrichum graminicola*)

A foliar anthracnose study was set up on an annual bluegrass fairway at the Hancock Turfgrass Research Center in E. Lansing, MI. It was mowed at 0.5". The design was a randomized complete block with 4 replicates of each treatment. Plots were 6' x 6'. Treatments were applied using a CO₂ backpack sprayer with a double 8002E flat fan TeeJet nozzle boom at 100 GPA and 36 PSI. Plots were fertilized at about 1/4#N/1000 ft²/month. The study was inoculated with *Colletotrichum graminicola* grown on sand/cornmeal on June 2 and July 7. Treatments were applied as listed in Table 8. Plots were rated by visual estimation of percent area with anthracnose. Data are shown in Table 8 and represent the percent plot area with anthracnose. Data were analyzed using ANOVA and means were separated with LSD (p=0.05).

Disease developed in the study area in mid-July and was complicated by a summer patch outbreak. Pressure waned after the initial outbreak, and disease development was not uniform in the study area. As can be seen in Table 8, several treatments provided significant disease control compared to the untreated control plots, including a program treatment using several fungicides in combination with Primo Maxx, Cleary's 3336, Heritage, T-Storm, and combinations of Signature Aliette with both Secure and Compass. Most treatments provided acceptable turf quality, with the Primo Maxx program providing good quality throughout the study. No phytotoxicity was observed in this study this year, except as noted in Table 8.

A basal rot anthracnose study was set up on an annual bluegrass green using the same parameters as above. However, disease did not develop in the study area, so no data are available.

Table 8. Anthracnose Study

Location: Hancock Turfgrass Research Center, E. Lansing, MI

Rating Date: July 22, 2004

Rating Scale: Mean percent area infected with anthracnose.

Treatment and Rate/1000 sq ft (unless noted otherwise)	Interval (Date)	Mean^a	LSD
Banner Maxx 2 fl oz + Daconil Ultrex 1.8 oz + Primo Maxx 0.125 fl oz +	27-May	0.1	E
Heritage 0.4 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz +	15-Jun		
Medallion 0.25 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz +	25-Jun		
Heritage 0.4 oz + Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz +	8-Jul		
Medallion 0.25 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz +	22-Jul		
Heritage 0.4 oz + Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz +	5-Aug		
Medallion 0.25 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	19-Aug		
3336 6 oz	7/8, 7/22, 8/5, 8/19	1.4	DE
Heritage 6.1 g/100 m2	7/8, 7/22, 8/5, 8/19	2.3	DE
Signature Aliette 122 g + Secure 32 ml/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	2.5	DE
T-Storm flowable 2.5 fl oz	7/8, 7/22, 8/5, 8/19	2.8	DE
Signature Aliette 122 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	3.3	DE
Signature Aliette 122 g + Compass 50WP 1.9 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	3.4	DE
Signature Aliette 122 g + Compass 50WP 7.6 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	4.5	C-E

Signature Aliette 92 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	5.8	B-E
CPR 6 fl oz + NRTF NPK 3 fl oz + NRTF N-Ca 3 fl oz + NRTF Si 3 fl oz	7/8, 7/22, 8/5, 8/19	5.8	B-E
26/36 3.8 fl oz	7/8, 7/22, 7/29, 8/5, 8/19	6.1	B-E
Signature Aliette 122 g + Secure 64 ml/100 m2 ^b	7/8, 7/22, 7/29, 8/5, 8/19	7.0	A-E
Signature Aliette 122 g + Secure 16 ml/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	7.8	A-E
Signature Aliette 122 g + Compass 50WP 3.8 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	8.9	A-E
Secure 64 ml/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	9.3	A-E
Endorse 4 oz	7/8, 7/22, 8/5, 8/19	10.0	A-E
Signature Aliette 61 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	10.5	A-E
Banner Maxx 51 ml/100 m2	7/8, 7/29, 8/19	10.5	A-E
CPR 6 fl oz + NRTF NPK 6 fl oz + NRTF Si 3 fl oz	7/8, 7/22, 8/5, 8/19	10.6	A-E
Endorse DF 0.9 oz	7/8, 7/22, 8/5, 8/19	11.0	A-E
Compass 50WP 3.8 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	11.8	A-E
Spectro 4 oz	7/8, 7/22, 8/5, 8/19	12.0	A-E
Endorse 4 oz + Rubigan 1.5 fl oz	7/8, 7/22, 8/5, 8/19	13.0	A-E
26/36 2.6 fl oz	7/8, 7/22, 7/29, 8/5	14.0	A-E
Endorse 4 oz + Rubigan 0.75 fl oz	7/8, 7/22, 8/5, 8/19	14.3	A-E
Compass 50WP 7.6 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	15.0	A-E
Banner Maxx 2 fl oz	7/8, 7/22, 8/5, 8/19	15.5	A-E
Insignia 0.5 oz + Propiconazole Pro 1 fl oz	7/8, 7/22, 8/5, 8/19	16.8	A-D
Compass 50WP 1.9 g/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	19.5	A-C
Control	---	20.5	AB
Secure 32 ml/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	20.8	AB
Secure 16 ml/100 m2	7/8, 7/22, 7/29, 8/5, 8/19	21.3	AB
26/36 5 fl oz	7/8, 7/22, 7/29, 8/5, 8/19	22.5	A
Alude 5.5 fl oz + Protect 8 oz	7/8, 7/22, 8/5, 8/19	25.3	A-C

^a Means followed by the same letter do not significantly differ (LSD, $p=0.05$).

^b Mild phytotoxicity noted in early August. Plots exhibited slight blighting.