

Stop #1: 2013 Turf Disease Trials: Anthracnose

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Anthracnose

Twenty eight fungicide treatments were evaluated for their ability to control anthracnose preventatively on an annual bluegrass green. Inoculation was achieved through core aeration and dragging in order to spread the existing inoculum. The plot was originally established in 2007 from seed with 'Peterson's Creeping' annual bluegrass. The study was set up as a randomized complete block experiment with four replications. Fungicide treatments were initiated on 18 June 2013 before disease symptoms were present. For fertility the plot received 0.3 lb N/1000ft² on 13 June 2013 and again on 9 August 2013. The plot was top dressed on 31 July 2013.

Results:

- ✓ Overall, anthracnose disease pressure and distribution were moderate.
- ✓ The cool early summer, heavy rain events, and hot humid late summer created an abnormal anthracnose presence making detection variable from week to week.
- ✓ Several fungicides or fungicide programs reduced disease severity compared to the untreated control.

Notes:

Treatment list

Trt No.	Type	Treatment Name	Rate	Rate Unit	Appl Code
1	CHK	control			
2	FUNG	Xzemplar	0.26	fl oz/1000 ft2	ABDEFHI
3	FUNG	Xzemplar	0.26	fl oz/1000 ft2	ABDEFHI
	FUNG	Trinity	1	fl oz/1000 ft2	ABDEFHI
4	FUNG	Lexicon	0.34	fl oz/1000 ft2	ABDEFHI
5	FUNG	Secure	0.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
6	FUNG	Secure	0.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
7	FUNG	Medallion L	1	fl oz/1000 ft2	ABDEFHI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
8	FUNG	Medallion L	1	fl oz/1000 ft2	ABDEFHI
	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
9	FUNG	Heritage	0.4	oz wt/1000 ft2	A
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDFI
	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
	FUNG	Briskway	0.5	fl oz/1000 ft2	DEH
10	FUNG	Secure	0.5	fl oz/1000 ft2	FI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	AFHI
	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
11	FUNG	Briskway	0.5	fl oz/1000 ft2	BDE
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ADFI
	FUNG	Appear	6	fl oz/1000 ft2	ADFI
12	FUNG	A20744	0.5	oz wt/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Appear	6	fl oz/1000 ft2	ADFI
13	FUNG	A20744	0.3	oz wt/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Appear	6	fl oz/1000 ft2	ADFI
14	FUNG	A20744	0.5	oz wt/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ADFI
	FUNG	Appear	6	fl oz/1000 ft2	ADFI
15	FUNG	A20744	0.3	oz wt/1000 ft2	BEH
	FUNG	Secure	0.5	fl oz/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ADFI
16	FUNG	Appear	6	fl oz/1000 ft2	ADFI
	FUNG	Briskway	0.5	fl oz/1000 ft2	BEH
	FUNG	A20744	0.3	oz wt/1000 ft2	ADFI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
17	FUNG	Appear	6	fl oz/1000 ft2	ADFI
	FUNG	Briskway	0.5	fl oz/1000 ft2	BEH
	FUNG	Secure	0.5	fl oz/1000 ft2	ADFI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	BEH
18	FUNG	Briskway	0.5	fl oz/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABDEFHI
	FUNG	Appear	6	fl oz/1000 ft2	ADFI
19	FUNG	Briskway	0.5	fl oz/1000 ft2	BEH
	FUNG	A12531	3.6	fl oz/1000 ft2	ADFI
	FUNG	Chipco Signature	4	oz wt/1000 ft2	ADFI
20	FUNG	A20581	0.472	fl oz/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ADFI
	FUNG	Appear	6	fl oz/1000 ft2	ADFI
21	FUNG	A15457	0.236	fl oz/1000 ft2	BEH
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABEHI
	FUNG	Secure	0.5	fl oz/1000 ft2	DF
22	FUNG	Briskway	0.62	fl oz/1000 ft2	DF
	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
	FUNG	Daconil Action	3.5	fl oz/1000 ft2	ABEHI
23	FUNG	Appear	6	fl oz/1000 ft2	ABDEFHI
	FUNG	Briskway	0.5	fl oz/1000 ft2	BEF
	FUNG	Secure	0.5	fl oz/1000 ft2	DH
24	FUNG	Tourney	0.37	oz wt/1000 ft2	ADH
	FUNG	Insignia	0.9	fl oz/1000 ft2	BE
	FUNG	Signature	4	oz wt/1000 ft2	F
	FUNG	Daconil 1000	3.2	oz wt/1000 ft2	F
25	FUNG	Encartis	3	fl oz/1000 ft2	ACEG
26	FUNG	Encartis	4	fl oz/1000 ft2	ADF
27	FUNG	Triton Flo	0.75	oz wt/1000 ft2	AH
	FUNG	Daconil Ultrex	3.2	oz wt/1000 ft2	BDEF
	FUNG	Insignia	0.9	fl oz/1000 ft2	BE
	FUNG	Chipco Signature	4	oz wt/1000 ft2	DF
28	FUNG	Disarm C	6	fl oz/1000 ft2	ABDEFHI
	FUNG	Torque	0.6	fl oz/1000 ft2	ADFI
	FUNG	Legend	3	fl oz/1000 ft2	ADFI
	FUNG	Affirm	0.9	oz wt/1000 ft2	BEH
29	FUNG	Spectro	3.6	oz wt/1000 ft2	BEH
	FERT	NH4SO4	0.2	lb/1000 ft2	ABDEFHI

Application Code: All of the treatments were put down every 14 days except for treatments 24 and 25 which went down on 21 day and 28 day intervals respectively.

Anthracnose Study Plot Map
North/Trees

12	24	11	21	7	24	9	28	9	27
11	23	23	17	28	29	6	19	12	29
10	22	2	24	13	17	20	4	14	3
9	21	X	X	X	X	X	X	X	X
8	20	22	7	25	11	X	23	1	X
7	19	19	26	29	13	25	26	18	X
X	X	18	9	6	15	2	7	4	23
6	18	1	4	X	21	14	21	15	28
5	17	29	15	10	1	10	26	11	10
4	16	28	12	20	8	27	16	13	8
3	15	27	16	8	18	22	19	17	5
2	14	26	5	27	16	3	25	2	6
1	13	25	14	3	5	12	22	24	20
Road									

Stop #1: 2013 Turf Disease Trials: Dollar Spot

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Dollar Spot

Fifteen fungicide treatments and one nitrogen treatment were evaluated for their ability to control dollar spot (*Sclerotinia homoeocarpa*) preventatively on a creeping bentgrass/annual bluegrass green, established in 2005 from sod. Beginning in May 2013, nitrogen was reduced on the turf followed by inoculation with the fungus on June 14, 2013. Inoculation was achieved by spreading dollar spot infested grain evenly across the study area. The inoculum was allowed four days to colonize on the turfgrass, and then all treatments were started on June 18, 2013.

Spray Record:

Timing	A	B	C
Date	18 June 2013	2 July 2013	16 July 2013
Time	6am	6am	6am
Temperature	69.2 F	68.9 F	61.4 F
Wind	Calm	Calm	Calm
Conditions	Sunny	Overcast	Overcast

Timing	D	E	F
Date	30 July 2013	13 August 2013	27 August 2013
Time	6am	6am	6am
Temperature	60.6 F	60 F	71.5 F
Wind	Calm	Calm	Calm
Conditions	Sunny	Sunny	Cloudy

Results:

- ✓ Overall, dollar spot disease pressure was good, reaching 53% on untreated plots, and 56% on nitrogen treated plots by late July.
- ✓ Most all fungicides or fungicide programs provided effective control of dollar spot throughout the study period.
- ✓ No fungicide treatments showed signs of phytotoxicity during the study period.

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Notes:

2013 Turf Disease Trials: Dollar Spot

No.	Treatment	Company	Rate (oz/M)	Timing (d)
1	Control	--	--	--
2	Daconil Action	Syngenta	3.5	14
3	Daconil Action	Syngenta	7.0	14
4	Daconil Action Appear	Syngenta	3.5 6.0	14
5	Daconil Action Appear	Syngenta	7.0 6.0	14
6	Daconil Ultrex A9180	Syngenta	3.2 0.008	14
7	Daconil Ultrex A9180	Syngenta	6.4 0.016	14
8	Daconil Ultrex A9180 Appear	Syngenta	3.2 0.008 6.0	14
9	Daconil Ultrex A9180 Appear	Syngenta	6.4 0.016 6.0	14
10	Chipco Signature A12531	Syngenta	4.0 3.6	14
11	Chipco Signature A12531	Syngenta	8.0 7.2	14
12	Honor	BASF	6.0	14
13	Encartis	BASF	6.0	14
14	Xzemplar	BASF	6.0	14
15	Lexicon	BASF	4.0	14
16	NH ₄ SO ₄	--	6.0	14

2013 Turf Disease Trials: Dollar Spot

Plot Map:

North

X	13	6	14	13
7	8	7	15	12
3	9	5	16	11
1	11	15	12	10
16	10	1	11	9
8	12	3	8	8
13	4	2	3	7
10	14	14	10	6
11	16	16	2	5
6	2	7	9	4
4	5	4	5	3
12	9	15	13	2
15	14	1	6	1