

		Clip (inch)		
		0.100	0.126	0.149
HOC (inch)	0.080	1	4	7
	0.110	2	5	8
	0.140	3	6	9

In an attempt to determine the “ideal quality of cut” data collection includes:

- Green speed data (obtained weekly)
- Turfgrass surface temperature reading (obtained weekly)
- TDR readings (obtained weekly)
- Turfgrass color (obtained weekly)
- Clipping weights (obtained every 2 weeks)
- Pest counts (if displayed)
- Turf quality (disease/fungal pressure)

Stop 4. Anthracnose on *Poa annua*

Nancy Dykema, Dr. Joe Vargas, Jr., and Ron Detweiler

Anthracnose, caused by *Colletotrichum cereale*, is a devastating disease that attacks annual bluegrass, and occasionally bentgrass. It can be a problem on golf course greens, tees, and fairways. Low fertility, low mowing heights, and droughty conditions that lead to stressed turf can be a precursor for this disease. Excess moisture, such as from heavy irrigation or heavy rainfall, followed by a period of hot weather can also contribute to this problem. When infection occurs on fairways, it usually affects the foliage of the plants causing the turf to look brown and wilted. Upon close examination of infected tissue, one might be able to identify tiny, dark fungal structures called acervuli, which can be diagnostic for this disease. The pathogen can also infect the crowns of plants, turning them a charcoal black color, particularly on greens height turf. If there is damage to the crown of the plant, recovery is often quite slow. Foliar infections typically recover more quickly than infections that occur in the crown of the plant.

Crown Rot Anthracnose Study on Annual Bluegrass Green – 2012

Trt #	Treatment Name	Rate	Rate Unit	Application Interval
1	Untreated Control			
2	QP Enclave	3	fl oz/1000 ft2	14 days
2	Foursome	0.4	fl oz/1000 ft2	14 days
3	QP Enclave	4	fl oz/1000 ft2	21 days
3	Foursome	0.4	fl oz/1000 ft2	21 days
4	QP Enclave	3	fl oz/1000 ft2	14 days
4	QP Fosetyl-Al	4	oz/1000 ft2	14 days
4	Foursome	0.4	fl oz/1000 ft2	14 days
5	QP Enclave	4	fl oz/1000 ft2	21 days
5	QP Fosetyl-Al	4	oz/1000 ft2	21 days
5	Foursome	0.4	fl oz/1000 ft2	21 days
6	Insignia Intrinsic	0.7	oz/1000 ft2	14 days
6	Par	0.37	fl oz/1000 ft2	14 days
7	Honor Intrinsic	1.1	oz/1000 ft2	14 days
7	Par	0.37	oz/1000 ft2	14 days
8	Insignia Intrinsic	0.7	oz/1000 ft2	14 days
9	Honor Intrinsic	1.1	oz/1000 ft2	14 days
10	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
10	Appear 4.1 SL	6.0	fl oz/1000 ft2	14 days
11	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
11	Appear 4.1 SL	4.0	fl oz/1000 ft2	14 days
12	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
12	Appear 4.1 SL	3.0	fl oz/1000 ft2	14 days
13	Concert II 4.3 SE	4	fl oz/1000 ft2	14 days
13	Appear 4.1 SL	6	fl oz/1000 ft2	14 days
14	Briskway	0.62	fl oz/1000 ft2	14 days
14	Appear 4.1 SL	6	fl oz/1000 ft2	14 days
15	EXC948	3.6	fl oz/1000 ft2	14 days
15	Chipco Signature 80 WG	4	oz/1000 ft2	14 days
16	Daconil Ultrex 82.5 WG	3.2	oz/1000 ft2	14 days
16	Chipco Signature 80 WG	4	oz/1000 ft2	14 days
17	Briskway	0.62	fl oz/1000 ft2	14 days
17	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
18A	Briskway 2.71 SC	0.62	fl oz/1000 ft2	14 days ALT
18B	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
19A	Briskway 2.71 SC	0.5	fl oz/1000 ft2	14 days ALT
19B	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
24	Tourney	0.1	oz/1000 ft2	14 days
24	Civitas	8	fl oz/1000 ft2	14 days
24	Harmonizer	0.5	fl oz/1000 ft2	14 days
25	Briskway 2.71 SC	0.5	fl oz/1000 ft2	14 days
25	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
26	Tartan	2	fl oz/1000 ft2	14 days

27	Alude	10	fl oz/1000 ft2	14 days
27	Civitas	8	fl oz/1000 ft2	14 days
27	Harmonizer	0.5	fl oz/1000 ft2	14 days
28	Secure 4.17 SC	0.5	fl oz/1000 ft2	14 days
29	Daconil Action 6.11 SC	3.5	fl oz/1000 ft2	14 days
30	Heritage TI 0.8 ME	1	fl oz/1000 ft2	14 days
31	Secure 4.17 SC	0.5	fl oz/1000 ft2	14 days
31	Heritage TL 0.8 ME	1	fl oz/1000 ft2	14 days
32	Floratine Program:			
32	FP 747	8	fl oz/100 gal	7 days
32	Astron	1.5	fl oz/1000 ft2	7 days
32	Echo Dyad	2	fl oz/1000 ft2	7 days
32	Groom	0.1	fl oz/1000 ft2	7 days
32	Knife Plus	2	fl oz/1000 ft2	7 days
32	PK Fight	2.5	fl oz/1000 ft2	7 days
32	Power 12-6-0	10	fl oz/1000 ft2	7 days
32A	Protesyn	3	fl oz/1000 ft2	14 days ALT
32B	Floradox Pro	3	fl oz/1000 ft2	14 days ALT
36A	Torque	0.6	fl oz/1000 ft2	14 days ALT
36A	Spectro 90WDG	3.75	oz/1000 ft2	14 days ALT
36B	Affirm	0.9	oz/1000 ft2	14 days
36B	Spectro 90WDG	3.75	oz/1000 ft2	14 days
37	Banner Maxx	1	fl oz/1000 ft2	14 days
38	Banner Maxx	2	fl oz/1000 ft2	14 days
39	Trinity	1	fl oz/1000 ft2	14 days
40	Triton Flo	0.5	fl oz/1000 ft2	14 days
41	Triton Flo	0.5	fl oz/1000 ft2	14 days
41	Primo	0.2	fl oz/1000 ft2	14 days
42	Reserve	3.5	fl oz/1000 ft2	14 days
42	Primo	0.2	fl oz/1000 ft2	14 days
43	Tourney	0.37	oz/1000 ft2	14 days
44	Tourney	0.37	oz/1000 ft2	14 days
44	Primo	0.2	fl oz/1000 ft2	14 days
45	Reserve	2	fl oz/1000 ft2	7 days
46	Torque	0.6	fl oz/1000 ft2	14 days
46	Primo	0.2	fl oz/1000 ft2	14 days
47	Torque	0.6	fl oz/1000 ft2	14 days
48	Torque	0.2	fl oz/1000 ft2	14 days
48	Civitas	8	fl oz/1000 ft2	14 days
48	Harmonizer	0.5	fl oz/1000 ft2	14 days
49	Civitas	8	fl oz/1000 ft2	14 days
49	Harmonizer	0.5	fl oz/1000 ft2	14 days
49A	Reserve	3.2	fl oz/1000 ft2	14 days
49B	Tourney	0.18	oz/1000 ft2	14 days
49C	Alude	5	fl oz/1000 ft2	14 days
49D	Trinity	0.5	fl oz/1000 ft2	14 days

49E	Endorse	11	lb/a	14 days
50	Civitas	8	fl oz/1000 ft ²	14 days
50	Harmonizer	0.5	fl oz/1000 ft ²	14 days
50B	Reserve	3.2	fl oz/1000 ft ²	28 days ALT
50C	Alude	5	fl oz/1000 ft ²	28 days ALT
50D	Trinity	0.5	fl oz/1000 ft ²	28 days ALT
50E	Torque	0.2	fl oz/1000 ft ²	28 days ALT
51A	Reserve	3.2	fl oz/1000 ft ²	14 days
51B	Tourney	0.1	oz/1000 ft ²	14 days
51C	Alude	5	fl oz/1000 ft ²	14 days
51D	Trinity	0.5	fl oz/1000 ft ²	14 days
51E	Endorse	11	lb/a	14 days

Note: Treatments not listed are proprietary and will not be shown during field day.

Note: Treatment 32 does not receive supplemental fertilizer.

Crown Rot Anthracnose Study on Annual Bluegrass Green - 2012

	A	B	C	D	E	F	G	H	I	
1	1	38	39		12	8	45	3	24	1
2	2	37	40		52			65	7	2
3	3	36	41	69	26	17	47	14	61	3
4	4	35	49	68	6	57	11	50	28	4
5	5	34	43	67	10	35		21	30	5
6	6		44	66	44	15		23	18	6
7	7	33	45	65	20	54	19		69	7
8	8	32		64	16	13	32	59	29	8
9	9	31		63	60	42	56	4	67	9
10	10	30		62	51	1		39	46	10
11		29	46	61	22	66	33	68	9	11
12	11	28	47	60	64	55	27	41	62	12
13	12	27	48	59	25	48	53		34	13
14	13		42	58	43	5	63	2	37	14
15	14	26	50	57	38	49		36	58	15
16	15	25	51	56	31	40				16
17	16	24	52		3				69	17
18	17	23		55					39	18
19	18	22	53		57	28	45	62		19
20	19	21	54		15					20
21	20	4	11	40	2	24	10	42	65	21
22	43	30	68	59	8	67		52	16	22
23			37	3	38	48	18		54	23
24			53	34	64	26	44	50	20	24
25	23	56			45	33	61	5	68	25
26	17	27	60	21	24		32	37	14	26
27	47	9	31	65	13	7	12	55	63	27
28		46	69	33	66	46	36	1	29	28
29	51	41	14	49	6	30	58	19	60	29
30	5	25	50	28	67	38	11	47	25	30
31	44	2	10	63	39	23	56	9	64	31
32		15	52	16	61			40	35	32
33	22	42	29	62	26	59	22	49	6	33
34	55	20	18	12	58	34	4	31	41	34
35	7	35	1	54	32	21	43	13	51	35
36	57	8	48	36	19	66	17	53	27	36

NORTH
↑