

## Stop 9

### **Crown rot anthracnose on *Poa annua***

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

Crown rot anthracnose, caused by *Colletotrichum graminicola*, is a devastating disease that attacks annual bluegrass, and occasionally bentgrass. Traditionally, it has been a problem on annual bluegrass fairways, but recently has emerged as a disease on greens as well. The pathogen infects the crowns of plants, turning them a charcoal black color and, as a result of the damage to crowns, recovery of infected plants is often slow. Low fertility, low mowing heights, and excess moisture contribute to this problem. The pathogen can also infect foliage where tiny, black, spiny structures can sometimes be observed with the naked eye. The foliar infections normally recover more quickly than the basal rot infections.

At this stop, preventive and curative treatment options will be discussed. Differences in disease control between treatments will be observed. In addition, participants will have the opportunity to observe infected plants microscopically.

#### **Anthracnose 2005**

	<b>Treatment and Rate/1000 sq ft</b>	<b>Int. (Days)</b>
1	Aliette 80WP 61 g/100 m <sup>2</sup>	14
2	Aliette 80WP 92 g/100 m <sup>2</sup>	14
3	Aliette 80WP 122 g/100 m <sup>2</sup>	14
4	Signature 80WP 61 g/100 m <sup>2</sup>	14
5	Signature 80WP 92 g/100 m <sup>2</sup>	14
6	Signature 80WP 122 g/100 m <sup>2</sup>	14
7	Compass 50WP 1.9 g/100 m <sup>2</sup>	14
8	Compass 50WP 3.8 g/100 m <sup>2</sup>	14
9	Compass 50WP 7.6 g/100 m <sup>2</sup>	14
10	Aliette 80WP 122 g/100 m <sup>2</sup> + Compass 50WP 1.9 g/100 m <sup>2</sup>	14
11	Aliette 80WP 122 g/100 m <sup>2</sup> + Compass 50WP 3.8 g/100 m <sup>2</sup>	14
12	Aliette 80WP 122 g/100 m <sup>2</sup> + Compass 50WP 7.6 g/100 m <sup>2</sup>	14
13	Heritage 40WP 6 g/100 m <sup>2</sup>	14
14	Banner Maxx 2 fl oz	14
20	Insignia 0.9 oz	14
21	Insignia 0.5 oz + Propiconazole Pro 1 fl oz	14
22	Cleary 3336F 6 fl oz	14
23	3336 Plus 6 fl oz	14
24	CL-EXP-4 1 oz	14
25	CL-EXP-4 1 oz + Alude 5.5 fl oz	14
26	CL-EXP-6 4 oz	14

	<b>Treatment and Rate/1000 sq ft</b>	<b>Int. (Days)</b>
27	Spectro 4 oz	14
28	Spectro 4 oz + Alude 5.5 fl oz	14
29	Gary's Green 6 fl oz + UltraPlex 3 fl oz + EXPGB05BSU 1 fl oz	14
30	Quali-Pro TM/C WDG 3 oz	21
31	Lynx WP 0.3 oz	21
32	Lynx WP 0.6 oz	21
33	Lynx SC 0.5 fl oz	21
34	Lynx SC 1 fl oz	21
35	<i>Curative</i> Lynx SC 2 fl oz	CUR (21)
36	<i>Curative</i> Lynx WP 1.2 oz	CUR (21)
37a	Syngenta Program: Banner Maxx 2 fl oz + Daconil Ultrex 1.8 oz + Primo Maxx 0.125 fl oz	5/21
37b	Heritage TL 2 fl oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	6/3
37c	Medallion 0.25 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	6/16
37d	Heritage TL 2 fl oz + Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz	7/2
37e	Medallion 0.25 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	7/14
37f	Heritage TL 2 fl oz + Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz	7/28
37g	Medallion 0.25 oz + Daconil Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	8/11
38	Chipco 26GT 2 fl oz	14
39	Chipco 26GT 4 fl oz	14
40	Chipco 26GT 6 fl oz	14
41	Chipco 26GT 4 fl oz + Aliette 4 oz	14
46	Heritage 0.4 oz	28
47	TM 473 480 SC 0.2 fl oz	14
48	Spectator 0.37 fl oz	14
49	Spectator 0.72 fl oz	28
50	Control	

**Crown Rot Anthracnose on Annual Bluegrass Green**

	A	B	C	D	E	F	G	H	I
1	1	2	3	4	x	5	6	7	8
2	23	14R2	41	14	13	12	11	10	9
3	33	28	20	21	22	x	24	x	25
4	32	31	30	x	29	x	x	27	x
5	x	34	35	x	36	x	x	37	38
6	46	45	44	43	42	x	x	40	39
7	47	48	49	50	47	3	26	6	33
8	11	x	27	x		30	x	29	13
9	25	23	x	38	44	12	1	x	35
10	9	5	x	32	8	x	x	22	2
11	28	43	39	42	40	x	x	x	46
12	37	21	7	41	26	36	4	34	10
13	49	24	x	x	45	x	x	20	37
14	12	30	36	23	28	x	31	x	50
15	3	22	10	x	5	x	x	9	39
16	40	33	20	x	x	x	x	x	
17	37	13		x	2	x	x	x	7
18		11	35	x	x	x	32	x	x
19	48	38	4	29	44	x	6	x	34
20	14	46	42	31	x	37	24	41	48
21	27	50	25	8	43	x	21	1	45
22	34	20	39	12	22	28	47	x	49
23	x	32	2	30	46	44	x	42	26
24	x	10	x		13	50		27	4
25	47	x	x	x	x	x	x	48	14
26	x	36	49	33	45	x	x	x	x
27	x	31	7	35		37	23	8	43
28	x	1	41	6	24	40	9	11	29
29	x	x	21	x	38	3	x	5	x
30		x	x	x	x	x	x	x	x
31	x	x	x	x	25	x	x	x	x
32	x	26	x		x	x	x	x	x

### Foliar Anthracnose on Annual Bluegrass Fairway

	A	B	C	D	E	F	G	H	I	J
1	x	x	x	x	x	1	2	3	4	5
2	x	x	x	x	x	10	9	8	7	6
3	x	x	x	x	x	11	12	13	14	
4	x	x	x	x	x	20				
5	x	x	x	x	x	21	22	23	24	25
6	x	34	33	32	31	30	29	28	27	26
7	x	36	37	38	39	40	41	42	43	44
8	7	21		35		49	48	47	46	45
9	27	1	23	14		46	50R1	31	11	x
10	10		45	5	25	x	6			x
11	2	50	35	x	20	9	x	37	30	32
12	39	12	29	3	24	13	42	34	8	28
13	48	22	41	26	47	36	49	4	38	40
14	20	40	30	11	28	32	23	44	33	43
15	44	8	42	46	6	2	x	36	12	48
16	25	x	38	34	41		13	39	10	27
17	33	3	4	31	29	45	21	7	47	50
18	24	x	14	49	x	x	x	x	26	35
19	43	9	x	37	x	x	x	5	22	1