

**Tour Stop #1: Summer Stress in Creeping Bentgrass and Annual Bluegrass 2010**

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Summer Stress Syndrome has been associated with thinning and dying of turf during the warm summer months when turf goes under stress. It is especially problematic on low cut turf growing in poor environments. This includes greens growing in shaded areas or where there is limited air movement. Fungicides applied alone and in combination with other products on a preventive basis have been shown to prevent this decline from occurring. These fungicide combinations not only manage disease problems, but also seem to create a more dense appearance and better color.

This summer has been highly stressful for turfgrass with plenty of hot humid weather. Under such warm conditions, several diseases (dollar spot, brown patch, anthracnose) have appeared in the study this year at various times. Differences in turfgrass density and color can readily be seen among treatments.

**2010 Summer Stress on Creeping Bentgrass**

Trt No.	Treatment Name	Rate	Unit	Application Interval
1	Untreated Control			
2	QP Fosetyl-Al	4	oz/1000 ft <sup>2</sup>	14 days
3	Foursome	16	fl oz/acre	14 days
4	QP Fosetyl-Al	4	oz/1000 ft <sup>2</sup>	14 days
4	Foursome	16	fl oz/acre	14 days
5	QP Fosetyl-Al	4	oz/1000 ft <sup>2</sup>	14 days
5	Foursome	16	fl oz/acre	14 days
5	QP Chlorothalonil DF	3.2	oz/1000 ft <sup>2</sup>	14 days
6	QP Fosetyl-Al	4	oz/1000 ft <sup>2</sup>	14 days
6	Foursome	16	fl oz/acre	14 days
6	New QP Chlorothalonil DF	3.2	oz/1000 ft <sup>2</sup>	14 days
7	Honor	1.1	oz/1000 ft <sup>2</sup>	14 days
8	Insignia SC	0.7	fl oz/1000 ft <sup>2</sup>	14 days
9	Signature	4	oz/1000 ft <sup>2</sup>	14 days
9	Chipco 26GT	4	fl oz/1000 ft <sup>2</sup>	14 days
10	Signature	4	oz/1000 ft <sup>2</sup>	14 days
10	Daconil Ultrex	3.2	oz/1000 ft <sup>2</sup>	14 days
22	FP 747	8	fl oz/100 gal	14 days
22	Astron	2	fl oz/1000 ft <sup>2</sup>	14 days
22	Echo 6F ETQ	3.7	fl oz/1000 ft <sup>2</sup>	14 days
22	Knife Plus	2	fl oz/1000 ft <sup>2</sup>	14 days
22	PK Fight	3	fl oz/1000 ft <sup>2</sup>	14 days
22	Power 12-6-0	10	fl oz/1000 ft <sup>2</sup>	14 days
22	Protesyn	3	fl oz/1000 ft <sup>2</sup>	14 days

**Note: Treatments 11-21 and 23-28 are proprietary and will not be shown during field day.**

### Creeping bentgrass green plot map

NORTH						
	A	B	C	D	E	F
1	1	18		23		12
2			26			24
3					26	
4	2	16		28		5
5	3	10		15	7	17
6	4	15	20	6	2	1
7	5	14	21	3	10	
8			24		22	
9	6		23		19	27
10		13	22	20	21	16
11	7	12	25	8	18	25
12	8	11	19	17	11	9
13	9		27	14	13	
14	19		28		4	3
15	15		26		24	
16	4	25	21	19	12	2
17	24		20	17	21	25
18	5	2	9		23	
19	9	13	1	14	20	10
20		28		26		11
21	7	14	10	27	13	5
22	23		17	22	15	16
23	1	22	6		28	
24	16	12	11	7	4	8
25	27	8	18	3	18	6

### 2010 Summer Stress on Annual Bluegrass

Trt No.	Treatment Name	Rate	Unit	Application Interval
1	Untreated Control			
2	Reserve	2.5	fl oz/1000 ft <sup>2</sup>	7 days
3	Reserve	3.2	fl oz/1000 ft <sup>2</sup>	14 days
4	Reserve	3.5	fl oz/1000 ft <sup>2</sup>	14 days
5	Honor	1.1	oz/1000 ft <sup>2</sup>	14 days
6	Interface	3	fl oz/1000 ft <sup>2</sup>	14 days
7	Interface	4	fl oz/1000 ft <sup>2</sup>	14 days
8	Interface	5	fl oz/1000 ft <sup>2</sup>	14 days
9	Iprodione Pro 2SE	4	fl oz/1000 ft <sup>2</sup>	14 days
10	Emerald	0.13	oz/1000 ft <sup>2</sup>	14 days
11A	Honor	0.83	oz/1000 ft <sup>2</sup>	14 days, 2 apps ALT
11B	Iprodione Pro 2SE	4	fl oz/1000 ft <sup>2</sup>	14 days, 1 app
24	Insignia SC	0.7	fl oz/1000 ft <sup>2</sup>	14 days
25	OGS9010	3	fl oz/1000 ft <sup>2</sup>	7 days
33	FP 747	8	fl oz/100 gal	7 days
33	Astron	1.5	fl oz/1000 ft <sup>2</sup>	7 days
33	Echo 6F ETQ	2.2	fl oz/1000 ft <sup>2</sup>	7 days
33	PK Fight	2.5	fl oz/1000 ft <sup>2</sup>	7 days
33	Power 12-6-0	10	fl oz/1000 ft <sup>2</sup>	7 days
33	Protesyn	3	fl oz/1000 ft <sup>2</sup>	7 days
33A	Astron	2	fl oz/1000 ft <sup>2</sup>	14 days ALT
33B	Renaissance	2	fl oz/1000 ft <sup>2</sup>	14 days
34	FP 747	8	fl oz/100 gal	7 days
34	Astron	1.5	fl oz/1000 ft <sup>2</sup>	7 days
34	Echo 6F ETQ	2.2	fl oz/1000 ft <sup>2</sup>	7 days
34	Knife Plus	2	fl oz/1000 ft <sup>2</sup>	7 days
34	PK Fight	3	fl oz/1000 ft <sup>2</sup>	7 days
34	Power 12-6-0	9	fl oz/1000 ft <sup>2</sup>	7 days
34	Protesyn	3	fl oz/1000 ft <sup>2</sup>	7 days
35	Signature	4	oz/1000 ft <sup>2</sup>	14 days
35	Chipco 26GT	4	fl oz/1000 ft <sup>2</sup>	14 days
36	Signature	4	oz/1000 ft <sup>2</sup>	14 days
36	Daconil Ultrex	3.2	oz/1000 ft <sup>2</sup>	14 days
44	OGS9010	3	fl oz/1000 ft <sup>2</sup>	14 days
44	Daconil Ultrex	1.6	oz/1000 ft <sup>2</sup>	14 days
45A	OGS9010	3	fl oz/1000 ft <sup>2</sup>	14 days, 1 app FB
45B	OGS9010	1.5	fl oz/1000 ft <sup>2</sup>	14 days
45	Daconil Ultrex	3.2	oz/1000 ft <sup>2</sup>	14 days

Note: Treatments 12-23, 26-32, and 37-43 are proprietary and will not be shown during field day.

Note: Treatments 33 and 34 do not receive supplemental fertilizer.

**Annual bluegrass green plot map**

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