

SUMMER STRESS IN CREEPING BENTGRASS AND ANNUAL BLUEGRASS – 2006**Joseph M. Vargas, Jr. and Nancy M. Dykema**

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. Differences in turfgrass density and color can be seen between treatments.

2006 Summer Bentgrass Decline

#	Treatment and Rate/1000 sq ft	Interval (Days)
1	Signature 4 oz	14
4	Signature 8 oz	14
9	Signature 4 oz + Daconil Ultrex 3.2 oz	14
10	Chipco 26GT 4 fl oz	14
11	Signature 4 oz + Tartan 2 fl oz	14
19	Signature 4 oz + Chipco 26GT 4 fl oz	14
20	Quali-Pro Iprodione 4 fl oz + Signature 4 oz	14
21	Quali-Pro Chlorothalonil 3.2 oz + Signature 4 oz	14
22	Control	
23	Floratine Program #1: Astron 2 fl oz + Carbon Power 20-0-4 5 fl oz + PK Fight 4 fl oz + ProteSyn 3 fl oz + Renaissance 1.5 fl oz + Echo Ultimate 3.2 oz	14
24	Floratine Program #2: Astron 2 fl oz + Carbon Power 20-0-4 4 fl oz + P-48 0.1 lbs + PK Fight 4 fl oz + ProteSyn 3 fl oz + Renaissance 1.5 fl oz + Echo Ultimate 3.2 oz	14
25	Floratine Program #3: Astron 1 fl oz + Carbon Power 20-0-4 3 fl oz + Echo Ultimate 1.5 oz + P-48 0.06 lbs + PK Fight 2.5 fl oz + ProteSyn 2 fl oz + Renaissance 0.75 fl oz	7

Creeping bentgrass green.

	A	B	C	D	E	F	G	H	I	J	K
1	1	2	3	4	5	6	9	20	18	13	16
2	12	11	10	9	8	7	14	x	10	7	23
3	13	14	15	16	17	18	25	19	1	15	21
4	23	22	21	x	19	24	3	12	2	4	17
5	24	25	20	26	23	26	11	22	6	8	5
6	4	2	8	13	5	19	7	10	9	14	
7	1	17	18	21	11	15	20	16	5	23	
8	22	10	12	7	3	1	13	3	4	6	
9	15	6	20	24	19	25	18	17	11	24	26
10	25	26	14	9	16	2	22	21	8	12	

Annual bluegrass fairway.

	A	B	C	D	E	F	G	H	I	J	K
1	1	2	3	4	5	6	24	13	9	18	17
2	12	11	10	9	8	7	15	2	7	14	20
3	13	14	15	16	17	18	22	4	19	12	21
4	23	22	21	20	19	25	1	6	x	x	3
5		24	25	26	23	10	8	16	5	26	11
6	16	23	5	21	12	24	4	20	13	10	24
7	19	15	11	3	18	22	14	7	9	6	2
8	4	8	13	17	6	26	8	19	3	1	22
9	x	1	7	20	10	17	x	12	21	18	15
10	x	25	2	14	9		16	23	5	11	25
11	x	x	26								