

**Understanding Summer Stress on Annual Bluegrass and Creeping Bentgrass**

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Summer Stress Syndrome has been associated with thinning and dying of turf during the warm summer months. It is especially a problem on low cut turf growing in poor environments. This includes greens growing in shaded areas or where there is limited air movement. Fungicide combinations applied on a preventive basis have been shown to prevent this decline from occurring. These fungicide combinations not only managed disease problems, but also seem to make the turf have a more dense appearance.

Summer Decline on Annual Bluegrass 2001		
	Treatment and Rate/1000 sq ft	Interval (Days)
1	Chipco Signature 4 oz + Ch 26 GT 4 fl oz	14
2	Chipco Signature 4 oz + Daconil Ultrex 3.2 oz	14
3	Heritage 0.2 oz	14
4	Chipco Signature 4 oz + Triton 1 oz	14
5	Chipco Signature 4 oz + Prostar 2.2 oz	14
6	TS-LF300 2.5 gal/A	14
7	TS-LF300 2.5 gal/A + Dac. Ultrex 3.2 oz	14
8	Heritage 0.2 oz + Banner Maxx 1 fl oz	21
9a	Dac. Ultrex 3.2 oz + Primo Maxx 0.25 fl oz	21 (6/13)
9b	Dac. Ultrex 3.2 oz + Banner Maxx 1 fl oz + Primo Maxx 0.25 fl oz	21 (7/3)
9c	Heritage 0.2 oz + Banner Maxx 1 fl oz + Primo Maxx 0.25 fl oz	21 (7/24)
9d	Heritage 0.2 oz + Dac. Ultrex 3.2 oz + Primo Maxx 0.25 fl oz	21 (8/14)
9e	Banner Maxx 1 fl oz + Primo Maxx 0.25 fl oz	21 (9/4)
10	Dac. Ultrex 3.2 oz	14
11	Macrosorb 2 fl oz	14
12	Dac. Ultrex 1 oz	14
13	Macrosorb 2 fl oz + Dac. Ultrex 1 oz	14
14	Quelant-CA 2 oz	14
15	MKP 5#/A	14
16	MKP 5#/A + Dac. Ultrex 1.5 oz	14
17	Dac. Ultrex 1.5 oz	14
18	Untreated Control	---

Summer Decline on Creeping Bentgrass 2001		
	Treatment and Rate/1000 sq ft	Interval (Days)
1	Chipco Signature 4 oz + Ch 26 GT 4 fl oz	14
2	Chipco Signature 4 oz + Daconil Ultrex 3.2 oz	14
3	Heritage 0.2 oz	14
4	Chipco Signature 4 oz + Triton 1 fl oz	14
5	Chipco Signature 4 oz + Prostar 2.2 oz	14
6	TS-LF300 2.5 gal/A	14
7	TS-LF300 2.5 gal/A + Dac. Ultrex 3.2 oz	14
8	Heritage 0.2 oz + Banner Maxx 1 fl oz	21
9a	Dac. Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	14 (6/14)
9b	Dac. Ultrex 3.2 oz + Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz	14 (6/28)
9c	Heritage 0.2 oz + Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz	14 (7/12)
9d	Heritage 0.2 oz + Dac. Ultrex 3.2 oz + Primo Maxx 0.125 fl oz	14 (7/26)
9e	Banner Maxx 1 fl oz + Primo Maxx 0.125 fl oz	14 (8/9)
10	Dac. Ultrex 3.2 oz	14
11	Macrosorb 2 fl oz	14
12	Dac. Ultrex 1 oz	14
13	Macrosorb 2 fl oz + Dac. Ultrex 1 oz	14
14	Quelant-CA 2 oz	14
15	MKP 5#/A	14
16	MKP 5#/A + Dac. Ultrex 1.5 oz	14
17	Dac. Ultrex 1.5 oz	14
18	Untreated Control	---

**Bentgrass Summer Decline – 2001**

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	A	B	C	D	E	F	G	H
1	1	20	17	8	7	15	19	4
2	2	19	4	13	11	1	8	13
3	3	18	11	10	3	5	7	11
4	4	17	6	1	19	18	6	16
5	5	16	20	12	14	16	14	9
6	6	15	9	15	10	4	2	X
7	7	14	2	5	6	17	20	X
8	8	13	18	19	18	8	10	X
9	9	12	16	14	1	13	3	X
10	10	11	3	12	20	2	12	X
11	X	X	7	5	9	15	17	X

# Annual Bluegrass Summer Decline – 2001



	A	B	C	D	E	F	G	H
<b>1</b>	X	X	X	1	6	15	X	8
<b>2</b>	5	4	3	2	12	18	3	13
<b>3</b>	X	6	7	X	X	5	9	X
<b>4</b>	X	X	8	X	X	X	14	4
<b>5</b>	X	11	10	9	19	X	X	11
<b>6</b>	12	13	14	X	2	X	X	1
<b>7</b>	X	16	15	X	X	X	7	16
<b>8</b>	17	18	19	20	10	X	20	17
<b>9</b>	9	15	12	7	3	14	X	10
<b>10</b>	16	X	18	X	X	9	17	X
<b>11</b>	3	11	X	2	X	4	11	2
<b>12</b>	14	20	5	13	X	X	X	20
<b>13</b>	X	1	17	10	8	18	1	7
<b>14</b>	6	X	8	4	5	13	16	X
<b>15</b>	19	X	X	X	15	19	6	12