

# North Carolina State University

## Annual Bluegrass Control in an Overseeded Bermudagrass Fairway

Trial ID: 06-D03  
Location: Tobacco Road GC

Protocol ID: 06-D03  
Study Director: Travis Gannon  
Investigator: Fred Yelverton

### General Trial Information

**Study Director:** Travis Gannon      **Title:** Research Associate  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695      **E-mail:** travis\_gannon@ncsu.edu  
**Investigator:** Fred Yelverton      **Title:** Professor  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695      **E-mail:** fred\_yelverton@ncsu.edu

**Trial Location**

**City:** Sanford      **Trial Status:** Completed  
**State/Prov.:** NC  
**Postal Code:** 27332      **Initiation Date:** 08-01-05  
**Country:** USA

### Cooperator/Landowner

**Cooperator:** Morgan Stevenson      **Country:** USA  
**Organization:** Tobacco Road Golf Course      **Phone No:** 919.776.4943  
**Address 1:** 442 Tobacco Road  
**City:** Sanford  
**State/Prov:** NC  
**Postal Code:** 27332

### Crop Description

**Crop 1:** CYNDA Cynodon dactylon      Bermuda grass  
**BBCH Scale:** BGRM

**Crop 2:** LOLPE Lolium perenne      Ryegrass, perennial  
**Variety:** Formula I      **Description:** Stellar, Inspire, Gallery  
**BBCH Scale:** BGRM      **Planting Date:** 10-03-05  
**Planting Method:** Broadcast      **Rate, Unit:** 250 LB/A  
**Seed Bed:** Scalped  
**Soil Moisture:** Good      **Emergence Date:** 10-10-05

### Pest Description

**Pest 1 Type:** W      **Code:** POAAN Poa annua  
**Common Name:** Annual bluegrass

### Site and Design

**Plot Width, Unit:** 5 FT      **Site Type:** Golf Course Fairway  
**Plot Length, Unit:** 7 FT      **Tillage Type:** N/A  
**Replications:** 4      **Study Design:** Randomized Complete Block

### Soil Description

**% OM:** 0.56      **Texture:** Mineral  
**pH:** 5.9  
**CEC:** 6.8      **Fert. Level:** Good

### Moisture Conditions

**Overall Moisture Conditions:** Irrigated as Needed

### Application Description

	A	B
<b>Application Date:</b>	08-01-05	01-04-06
<b>Time of Day:</b>	11-12NOON	10-11 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	AUGUST 1	JAN 04
<b>Application Placement:</b>	SOIL	SOIL/FOL
<b>Applied By:</b>	T GANNON	T GANNON
<b>Air Temperature, Unit:</b>	83.4 F	51.4 F
<b>% Relative Humidity:</b>	58	80
<b>Wind Velocity, Unit:</b>	0.8 MPH	1.1 MPH
<b>Dew Presence (Y/N):</b>	N	Y
<b>Soil Temperature, Unit:</b>	77 F	51 F
<b>Soil Moisture:</b>	WET	WET
<b>% Cloud Cover:</b>	40	10

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## Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale:</b>	CYNDA BGRM	CYNDA BGRM
<b>Stage Scale Used:</b>	MOWED	DORMANT
<b>Height, Unit:</b>	0.5 IN	
<b>Crop 2 Code, BBCH Scale:</b>	LOLPE BGRM	LOLPE BGRM
<b>Stage Scale Used:</b>	PRE	BBCH
<b>Stage Majority, Percent:</b>		2 TILLER 10
<b>Stage Minimum, Percent:</b>		4 LEAF 10
<b>Stage Maximum, Percent:</b>		4 TILLER 10
<b>Height, Unit:</b>		0.5 IN
<b>Height Minimum, Maximum:</b>		0.5 0.5

## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Disc., Scale:</b>	POAAN W PRE	POAAN W
<b>Stage Majority, Percent:</b>		1 TILL 30
<b>Stage Minimum, Percent:</b>		3 LEAF 10
<b>Stage Maximum, Percent:</b>		3 TILL 10
<b>Height, Unit:</b>		0.4 IN
<b>Height Minimum, Maximum:</b>		0.3 0.5
<b>Coverage, Unit:</b>		20 %

## Application Equipment

	A	B
<b>Appl. Equipment:</b>	CO2 SPRAY	CO2 SPRAY
<b>Operating Pressure, Unit:</b>	25 PSI	25 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	VS8002XR	VS8002XR
<b>Nozzle Spacing, Unit:</b>	10 INCH	10 INCH
<b>Nozzles/Row:</b>	4	4
<b>Boom Length, Unit:</b>	40 INCH	40 INCH
<b>Boom Height, Unit:</b>	10 INCH	10 INCH
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	32.5 GPA	32.5 GPA
<b>Propellant:</b>	COMP CO2	COMP CO2

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## Annual Bluegrass Control in an Overseeded Bermudagrass Fairway

Trial ID: 06-D03  
Location: Tobacco Road GC

Protocol ID: 06-D03  
Study Director: Travis Gannon  
Investigator: Fred Yelverton

Pest Code							LOLPE	LOLPE	LOLPE	LOLPE	LOLPE	LOLPE
Crop Code							BGRM	BGRM	BGRM	BGRM	BGRM	BGRM
BBCH Scale							Ryegrass, p>	Ryegrass, p>	Ryegrass, p>	Ryegrass, p>	Ryegrass, p>	Ryegrass, p>
Crop Name							10-10-05	10-24-05	11-02-05	11-08-05	11-28-05	01-09-06
Rating Date							COVER	COVER	COVER	COVER	COVER	COVER
Rating Data Type							%	%	%	%	%	%
Rating Unit							70 70	84 84	93 93	99 99	119 119	161 5
Days After First/Last Applic.							70 DA-A	84 DA-A	93 DA-A	99 DA-A	119 DA-A	161 DA-A
Trt-Eval Interval												
Plant-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	1	2	3	4	5	6
1	Dimension Ultra	2	EW	0.25 lb ai/a	AUG 1	A	6.8 a	8.8 a	30.0 a	28.8 a	46.3 a	56.3 a
	Dimension Ultra	2	EW	0.25 lb ai/a	JAN 4	B						
2	Dimension Ultra	2	EW	0.375 lb ai/a	AUG 1	A	6.8 a	10.0 a	31.3 a	28.8 a	48.8 a	56.3 a
	Dimension Ultra	2	EW	0.375 lb ai/a	JAN 4	B						
3	Dimension Ultra	2	EW	0.5 lb ai/a	AUG 1	A	5.5 a	10.0 a	30.0 a	28.8 a	43.8 a	56.3 a
4	Dimension Ultra	1	EC	0.25 lb ai/a	AUG 1	A	6.3 a	12.5 a	32.5 a	32.5 a	48.8 a	57.5 a
	Dimension Ultra	1	EC	0.25 lb ai/a	JAN 4	B						
5	Dimension Ultra	1	EC	0.375 lb ai/a	AUG 1	A	5.5 a	10.0 a	32.5 a	31.3 a	47.5 a	57.5 a
	Dimension Ultra	1	EC	0.375 lb ai/a	JAN 4	B						
6	Dimension Ultra	1	EC	0.5 lb ai/a	AUG 1	A	8.0 a	11.3 a	31.3 a	31.3 a	48.8 a	56.3 a
7	Dimension Ultra	0.15	G	0.25 lb ai/a	AUG 1	A	6.3 a	8.8 a	31.3 a	27.5 a	37.5 a	53.8 a
	Dimension Ultra	0.15	G	0.25 lb ai/a	JAN 4	B						
8	Dimension Ultra	0.15	G	0.375 lb ai/a	AUG 1	A	4.8 a	8.8 a	32.5 a	28.8 a	45.0 a	55.0 a
	Dimension Ultra	0.15	G	0.375 lb ai/a	JAN 4	B						
9	Dimension Ultra	0.15	G	0.5 lb ai/a	AUG 1	A	6.8 a	12.5 a	35.0 a	32.5 a	47.5 a	57.5 a
10	Barricade	65	WG	0.5 lb ai/a	AUG 1	A	5.5 a	8.8 a	32.5 a	27.5 a	41.3 a	57.5 a
11	Barricade	0.2	GR	0.5 lb ai/a	AUG 1	A	4.8 a	7.5 a	30.0 a	26.3 a	37.5 a	51.3 a
12	Nontreated						7.5 a	10.0 a	31.3 a	30.0 a	46.3 a	53.8 a
LSD (P=.05)							5.12	4.30	5.18	6.27	12.65	6.41
Standard Deviation							3.54	2.98	3.59	4.34	8.76	4.44
CV							57.26	30.07	11.33	14.72	19.52	7.97
Bartlett's X2							1.635	3.801	3.23	7.205	12.247	7.201
P(Bartlett's X2)							0.999	0.924	0.975	0.782	0.345	0.706
Replicate F							0.559	1.000	1.294	1.946	1.942	0.520
Replicate Prob(F)							0.6456	0.4051	0.2927	0.1414	0.1420	0.6717
Treatment F							0.334	1.086	0.647	0.873	0.880	0.776
Treatment Prob(F)							0.9717	0.4019	0.7756	0.5743	0.5679	0.6610

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Crop Code	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
BBCH Scale	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Crop Name	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Rating Date	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Rating Data Type	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Rating Unit	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Days After First/Last Applic.	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Trt-Eval Interval	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Plant-Eval Interval	Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		Lolium perenne		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	7	8	9	10	11	12
1	Dimension Ultra	2	EW	0.25	lb ai/a	AUG 1	A	55.0 a	56.3 a	65.0 b-e	58.8 a	63.8 a	62.5 a
	Dimension Ultra	2	EW	0.25	lb ai/a	JAN 4	B						
2	Dimension Ultra	2	EW	0.375	lb ai/a	AUG 1	A	55.0 a	52.5 a	60.0 e	58.8 a	53.8 a	57.5 a
	Dimension Ultra	2	EW	0.375	lb ai/a	JAN 4	B						
3	Dimension Ultra	2	EW	0.5	lb ai/a	AUG 1	A	55.0 a	56.3 a	68.8 a-e	51.3 a	57.5 a	55.0 a
4	Dimension Ultra	1	EC	0.25	lb ai/a	AUG 1	A	57.5 a	52.5 a	62.5 cde	52.5 a	52.5 a	50.0 a
	Dimension Ultra	1	EC	0.25	lb ai/a	JAN 4	B						
5	Dimension Ultra	1	EC	0.375	lb ai/a	AUG 1	A	56.3 a	52.5 a	61.3 de	62.5 a	58.8 a	62.5 a
	Dimension Ultra	1	EC	0.375	lb ai/a	JAN 4	B						
6	Dimension Ultra	1	EC	0.5	lb ai/a	AUG 1	A	53.8 a	56.3 a	72.5 ab	60.0 a	63.8 a	61.3 a
7	Dimension Ultra	0.15	G	0.25	lb ai/a	AUG 1	A	55.0 a	61.3 a	68.8 a-e	55.0 a	53.8 a	56.3 a
	Dimension Ultra	0.15	G	0.25	lb ai/a	JAN 4	B						
8	Dimension Ultra	0.15	G	0.375	lb ai/a	AUG 1	A	60.0 a	63.8 a	70.0 a-d	55.0 a	61.3 a	57.5 a
	Dimension Ultra	0.15	G	0.375	lb ai/a	JAN 4	B						
9	Dimension Ultra	0.15	G	0.5	lb ai/a	AUG 1	A	55.0 a	62.5 a	75.0 a	61.3 a	62.5 a	58.8 a
10	Barricade	65	WG	0.5	lb ai/a	AUG 1	A	55.0 a	56.3 a	67.5 a-e	55.0 a	52.5 a	58.8 a
11	Barricade	0.2	GR	0.5	lb ai/a	AUG 1	A	53.8 a	58.8 a	63.8 b-e	51.3 a	52.5 a	51.3 a
12	Nontreated							56.3 a	58.8 a	71.3 abc	53.8 a	52.5 a	57.5 a
LSD (P=.05)				5.07				5.07	10.93	9.19	17.96	17.86	14.37
Standard Deviation				3.51				3.51	7.57	6.37	12.44	12.37	9.95
CV				6.31				6.31	13.21	9.48	22.12	21.67	17.34
Bartlett's X2				4.635				4.635	14.853	10.459	14.511	19.779	16.958
P(Bartlett's X2)				0.796				0.796	0.189	0.315	0.206	0.048*	0.109
Replicate F				1.185				1.185	0.643	2.719	1.086	1.007	0.510
Replicate Prob(F)				0.3306				0.3306	0.5930	0.0603	0.3688	0.4018	0.6780
Treatment F				0.969				0.969	1.029	2.190	0.389	0.582	0.625
Treatment Prob(F)				0.4919				0.4919	0.4445	0.0405	0.9509	0.8297	0.7943

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code							LOLPE	LOLPE	LOLPE	LOLPE	LOLPE	LOLPE
Crop Code							BGRM	BGRM	BGRM	BGRM	BGRM	BGRM
Crop Name							Ryegrass, p>	Ryegrass, p>	Ryegrass, p>	Ryegrass, p>	Ryegrass, p>	Ryegrass, p>
Rating Date							10-10-05	10-24-05	11-02-05	11-08-05	11-28-05	01-09-06
Rating Data Type							QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	QUALITY
Rating Unit							1-9	1-9	1-9	1-9	1-9	1-9
Days After First/Last Applic.							70 70	84 84	93 93	99 99	119 119	161 5
Trt-Eval Interval							70 DA-A	84 DA-A	93 DA-A	99 DA-A	119 DA-A	161 DA-A
Plant-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	13	14	15	16	17	18
1	Dimension Ultra	2	EW	0.25	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.00 a
	Dimension Ultra	2	EW	0.25	lb ai/a	JAN 4 B						
2	Dimension Ultra	2	EW	0.375	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.00 a
	Dimension Ultra	2	EW	0.375	lb ai/a	JAN 4 B						
3	Dimension Ultra	2	EW	0.5	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	5.88 a
4	Dimension Ultra	1	EC	0.25	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.13 a
	Dimension Ultra	1	EC	0.25	lb ai/a	JAN 4 B						
5	Dimension Ultra	1	EC	0.375	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.13 a
	Dimension Ultra	1	EC	0.375	lb ai/a	JAN 4 B						
6	Dimension Ultra	1	EC	0.5	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.00 a
7	Dimension Ultra	0.15	G	0.25	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	5.75 a
	Dimension Ultra	0.15	G	0.25	lb ai/a	JAN 4 B						
8	Dimension Ultra	0.15	G	0.375	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.00 a
	Dimension Ultra	0.15	G	0.375	lb ai/a	JAN 4 B						
9	Dimension Ultra	0.15	G	0.5	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.13 a
10	Barricade	65	WG	0.5	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.13 a
11	Barricade	0.2	GR	0.5	lb ai/a	AUG 1 A	7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	5.88 a
12	Nontreated						7.0 a	7.0 a	7.0 a	7.0 a	7.0 a	6.00 a
LSD (P=.05)							0.00	0.00	0.00	0.00	0.00	0.401
Standard Deviation							0.00	0.00	0.00	0.00	0.00	0.278
CV							0.0	0.0	0.0	0.0	0.0	4.63
Bartlett's X2							0.0	0.0	0.0	0.0	0.0	3.455
P(Bartlett's X2)							.	.	.	.	.	0.903
Replicate F							0.000	0.000	0.000	0.000	0.000	1.443
Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000	1.0000	0.2481
Treatment F							0.000	0.000	0.000	0.000	0.000	0.738
Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000	1.0000	0.6955

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# North Carolina State University

Pest Code	LOLPE		LOLPE		LOLPE		CYNDA		CYNDA			
Crop Code	BGRM		BGRM		BGRM		BGRM		BGRM			
BBCH Scale	Ryegrass, p>		Ryegrass, p>		Ryegrass, p>		Bermuda gra>		Bermuda gra>			
Crop Name	02-06-06		03-06-06		03-27-06		10-10-05		10-24-05			
Rating Date	QUALITY		QUALITY		QUALITY		QUALITY		QUALITY			
Rating Data Type	1-9		1-9		1-9		1-9		1-9			
Rating Unit	189 33		217 61		238 82		70 70		84 84			
Days After First/Last Applic.	189 DA-A		217 DA-A		238 DA-A		70 DA-A		84 DA-A			
Trt-Eval Interval												
Plant-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	19	20	21	22	23
1	Dimension Ultra	2	EW	0.25	lb ai/a	AUG 1	A	6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
	Dimension Ultra	2	EW	0.25	lb ai/a	JAN 4	B					
2	Dimension Ultra	2	EW	0.375	lb ai/a	AUG 1	A	6.00 a	6.8 a	7.0 a	7.0 a	7.0 a
	Dimension Ultra	2	EW	0.375	lb ai/a	JAN 4	B					
3	Dimension Ultra	2	EW	0.5	lb ai/a	AUG 1	A	6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
4	Dimension Ultra	1	EC	0.25	lb ai/a	AUG 1	A	6.13 a	7.0 a	7.0 a	7.0 a	7.0 a
	Dimension Ultra	1	EC	0.25	lb ai/a	JAN 4	B					
5	Dimension Ultra	1	EC	0.375	lb ai/a	AUG 1	A	6.13 a	7.0 a	7.0 a	7.0 a	7.0 a
	Dimension Ultra	1	EC	0.375	lb ai/a	JAN 4	B					
6	Dimension Ultra	1	EC	0.5	lb ai/a	AUG 1	A	6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
7	Dimension Ultra	0.15	G	0.25	lb ai/a	AUG 1	A	6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
	Dimension Ultra	0.15	G	0.25	lb ai/a	JAN 4	B					
8	Dimension Ultra	0.15	G	0.375	lb ai/a	AUG 1	A	6.13 a	7.0 a	7.0 a	7.0 a	7.0 a
	Dimension Ultra	0.15	G	0.375	lb ai/a	JAN 4	B					
9	Dimension Ultra	0.15	G	0.5	lb ai/a	AUG 1	A	6.13 a	7.0 a	7.0 a	7.0 a	7.0 a
10	Barricade	65	WG	0.5	lb ai/a	AUG 1	A	6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
11	Barricade	0.2	GR	0.5	lb ai/a	AUG 1	A	6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
12	Nontreated							6.00 a	7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)				0.212				0.21	0.00	0.00	0.00	0.00
Standard Deviation				0.147				0.14	0.00	0.00	0.00	0.00
CV				2.42				2.07	0.0	0.0	0.0	0.0
Bartlett's X2				0.0				0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)				0.001*				.	.	.	.	.
Replicate F				0.647				1.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				0.5904				0.4051	1.0000	1.0000	1.0000	1.0000
Treatment F				0.706				1.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				0.7240				0.4671	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



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Pest Code							POAAN	TURF	TURF	TURF
Crop Code										
BBCH Scale										
Crop Name										
Rating Date							05-08-06	04-17-06	05-01-06	05-08-06
Rating Data Type							CONTROL	QUALITY	QUALITY	QUALITY
Rating Unit							%	1-9	1-9	1-9
Days After First/Last Applic.							280 124	259 103	273 117	280 124
Trt-Eval Interval							280 DA-A	259 DA-A	273 DA-A	280 DA-A
Plant-Eval Interval							217 DP-2	196 DP-2	210 DP-2	217 DP-2
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	31	32	33	34
1	Dimension Ultra	2	EW	0.25	lb ai/a	AUG 1 A	51.3 ab	5.88 a	5.88 a	5.75 a
	Dimension Ultra	2	EW	0.25	lb ai/a	JAN 4 B				
2	Dimension Ultra	2	EW	0.375	lb ai/a	AUG 1 A	45.0 abc	5.63 a	5.25 a	5.38 a
	Dimension Ultra	2	EW	0.375	lb ai/a	JAN 4 B				
3	Dimension Ultra	2	EW	0.5	lb ai/a	AUG 1 A	27.5 de	5.38 a	5.25 a	5.25 a
4	Dimension Ultra	1	EC	0.25	lb ai/a	AUG 1 A	35.0 cde	5.50 a	5.63 a	5.25 a
	Dimension Ultra	1	EC	0.25	lb ai/a	JAN 4 B				
5	Dimension Ultra	1	EC	0.375	lb ai/a	AUG 1 A	57.5 a	5.75 a	5.63 a	6.00 a
	Dimension Ultra	1	EC	0.375	lb ai/a	JAN 4 B				
6	Dimension Ultra	1	EC	0.5	lb ai/a	AUG 1 A	43.8 abc	5.75 a	5.88 a	5.88 a
7	Dimension Ultra	0.15	G	0.25	lb ai/a	AUG 1 A	35.0 cde	5.13 a	5.25 a	5.50 a
	Dimension Ultra	0.15	G	0.25	lb ai/a	JAN 4 B				
8	Dimension Ultra	0.15	G	0.375	lb ai/a	AUG 1 A	41.3 bcd	5.50 a	5.50 a	5.75 a
	Dimension Ultra	0.15	G	0.375	lb ai/a	JAN 4 B				
9	Dimension Ultra	0.15	G	0.5	lb ai/a	AUG 1 A	55.0 ab	5.88 a	5.75 a	5.50 a
10	Barricade	65	WG	0.5	lb ai/a	AUG 1 A	46.3 abc	5.75 a	5.50 a	5.38 a
11	Barricade	0.2	GR	0.5	lb ai/a	AUG 1 A	25.0 e	5.00 a	5.13 a	5.13 a
12	Nontreated						0.0 f	5.50 a	5.25 a	5.50 a
LSD (P=.05)							15.56	1.080	0.906	0.746
Standard Deviation							10.77	0.748	0.628	0.517
CV							27.96	13.47	11.44	9.36
Bartlett's X2							22.894	17.444	14.246	9.817
P(Bartlett's X2)							0.011*	0.095	0.162	0.457
Replicate F							2.423	2.517	1.000	1.170
Replicate Prob(F)							0.0834	0.0752	0.4051	0.3359
Treatment F							8.592	0.558	0.705	1.099
Treatment Prob(F)							0.0001	0.8483	0.7246	0.3921

Means followed by same letter do not significantly differ (P=.05, LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Trial Comments