



# North Carolina State University

## Application Placement Equipment for PGR Applications on Bahiagrass Roadsides

Trial ID: 03-D11  
Location: US220 Montgomery Cty

Study Dir.: Travis Gannon  
Investigator: Fred Yelverton

Crop Code										PASNO	PASNO	PASNO	PASNO	
Rating Data Type										PHYTO	PHYTO	FOLIAR HT	FOLIAR HT	
Rating Unit										%	%	INCH	INCH	
Rating Date										7-29-03	8-27-03	7-29-03	8-27-03	
Trt-Eval Interval										47 DA-A	76 DA-A	47 DA-A	76 DA-A	
ARM Action Codes														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	Broadcast Application Plateau X-77	2	AS L	2 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	20 20	0.0 a	0.0 a	12.3 a	12.0 cde
2	Weed Bug Plateau X-77	2	AS L	2 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	12.7 a	14.7 a
3	Burch Wet Blade Plateau	2	AS	2 oz/a				JUNE 1 A	A	1	0.0 a	0.0 a	13.3 a	13.7 abc
4	Burch Wet Blade Plateau X-77	2	AS L	2 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	9.3 a	12.3 b-e
5	Broadcast Application Plateau X-77	2	AS L	3 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	20 20	0.0 a	0.0 a	13.0 a	10.7 e
6	Weed Bug Plateau X-77	2	AS L	3 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	13.7 a	13.0 a-d
7	Burch Wet Blade Plateau	2	AS	3 oz/a				JUNE 1 A	A	1	0.0 a	0.0 a	12.7 a	12.3 b-e
8	Burch Wet Blade Plateau X-77	2	AS L	3 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	6.7 a	0.0 a	9.7 a	11.3 de
9	Broadcast Application Plateau X-77	2	AS L	0.5 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	20 20	0.0 a	0.0 a	12.0 a	14.3 ab
10	Weed Bug Plateau X-77	2	AS L	0.5 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	13.7 a	13.0 a-d
11	Burch Wet Blade Plateau	2	AS	0.5 oz/a				JUNE 1 A	A	1	0.0 a	0.0 a	11.0 a	12.0 cde
12	Burch Wet Blade Plateau X-77	2	AS L	0.5 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	11.3 a	14.0 abc
13	Broadcast Application Oust X-77	75	DG L	0.5 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	20 20	6.7 a	0.0 a	12.3 a	13.0 a-d
14	Weed Bug Oust X-77	75	DG L	0.5 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	12.7 a	14.3 ab
15	Burch Wet Blade Oust	75	DG	0.5 oz/a				JUNE 1 A	A	1	0.0 a	0.0 a	10.3 a	13.7 abc
16	Burch Wet Blade Oust X-77	75	DG L	0.5 oz/a	% v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 a	10.3 a	13.3 a-d
17	Mowed Check										0.0 a	0.0 a	11.3 a	14.7 a
18	Nontreated										0.0 a	0.0 a	15.3 a	14.7 a
LSD (P=.05)											6.51	0.00	3.77	2.07
Standard Deviation											3.91	0.00	2.26	1.24
CV											527.2	0.0	18.74	9.41
Grand Mean											0.74	0.0	12.06	13.17
Bartlett's X2											0.0	0.0	17.464	10.411
P(Bartlett's X2)											1.00	.	0.423	0.844
Replicate F											0.486	0.000	3.962	0.579
Replicate Prob(F)											0.6195	1.0000	0.0284	0.5660
Treatment F											0.914	0.000	1.415	2.815
Treatment Prob(F)											0.5648	1.0000	0.1895	0.0050

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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Trial ID: 03-D11  
 Location: US220 Montgomery Cty

Study Dir.: Travis Gannon  
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										PASNO	PASNO	PASNO	PASNO		
										SD	HD	HT	SD	HD	HT
										INCH	INCH	#/0.7FT <sup>2</sup>	#/0.7FT <sup>2</sup>		
										7-29-03	8-27-03	7-29-03	7-29-03		
										47 DA-A	76 DA-A	47 DA-A	47 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume					
1	Broadcast Application Plateau X-77	2 L	AS	2 oz/a	% v/v			JUNE 1 A	A	20			0.0 e	0.0 d	
2	Weed Bug Plateau X-77	2 L	AS	2 oz/a	% v/v			JUNE 1 A	A	1	22.7 a	23.5 a	1.7 bcd	2.7 abc	
3	Burch Wet Blade Plateau	2 L	AS	2 oz/a	% v/v			JUNE 1 A	A	1	22.0 a	26.0 a	0.3 de	1.0 bcd	
4	Burch Wet Blade Plateau X-77	2 L	AS	2 oz/a	% v/v			JUNE 1 A	A	1		30.0 a	0.0 e	0.0 d	
5	Broadcast Application Plateau X-77	2 L	AS	3 oz/a	% v/v			JUNE 1 A	A	20			0.0 e	0.0 d	
6	Weed Bug Plateau X-77	2 L	AS	3 oz/a	% v/v			JUNE 1 A	A	1	26.0 a	26.0 a	2.7 ab	0.7 cd	
7	Burch Wet Blade Plateau	2 L	AS	3 oz/a	% v/v			JUNE 1 A	A	1			0.0 e	0.0 d	
8	Burch Wet Blade Plateau X-77	2 L	AS	3 oz/a	% v/v			JUNE 1 A	A	1		30.0 a	0.0 e	0.0 d	
9	Broadcast Application Plateau X-77	2 L	AS	0.5 oz/a	% v/v			JUNE 1 A	A	20	22.0 a		0.7 de	0.0 d	
10	Weed Bug Plateau X-77	2 L	AS	0.5 oz/a	% v/v			JUNE 1 A	A	1	25.0 a		1.7 bcd	3.0 ab	
11	Burch Wet Blade Plateau	2 L	AS	0.5 oz/a	% v/v			JUNE 1 A	A	1	24.0 a	25.3 a	2.3 abc	1.7 a-d	
12	Burch Wet Blade Plateau X-77	2 L	AS	0.5 oz/a	% v/v			JUNE 1 A	A	1	20.7 a		1.3 b-e	1.0 bcd	
13	Broadcast Application Oust X-77	75 L	DG	0.5 oz/a	% v/v			JUNE 1 A	A	20			0.0 e	0.0 d	
14	Weed Bug Oust X-77	75 L	DG	0.5 oz/a	% v/v			JUNE 1 A	A	1	25.7 a	28.0 a	1.0 cde	0.7 cd	
15	Burch Wet Blade Oust	75 L	DG	0.5 oz/a	% v/v			JUNE 1 A	A	1			0.0 e	0.0 d	
16	Burch Wet Blade Oust X-77	75 L	DG	0.5 oz/a	% v/v			JUNE 1 A	A	1	20.0 a	28.0 a	1.0 cde	0.0 d	
17	Mowed Check										26.7 a	33.7 a	3.3 a	3.3 a	
18	Nontreated										27.7 a	29.3 a	1.0 cde	2.0 a-d	
LSD (P=.05)											6.61	7.19	1.64	2.21	
Standard Deviation											3.78	3.43	0.99	1.33	
CV											15.83	12.24	104.31	149.31	
Grand Mean											23.85	27.98	0.94	0.89	
Bartlett's X2											5.127	4.104	9.517	9.534	
P(Bartlett's X2)											0.644	0.25	0.484	0.299	
Replicate F											0.270	0.333	1.202	0.410	
Replicate Prob(F)											0.7674	0.7315	0.3130	0.6669	
Treatment F											1.367	2.194	3.364	2.271	
Treatment Prob(F)											0.2881	0.2003	0.0013	0.0205	

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Location: US220 Montgomery Cty

Study Dir.: Travis Gannon  
Investigator: Fred Yelverton

Crop Code										PASNO	PASNO	PASNO	PASNO	
Rating Data Type										SD HD	SDHD	SDHD	SD HD	
Rating Unit										#/0.7FT <sup>2</sup>	#/ 7FT <sup>2</sup>	#/4.3FT <sup>2</sup>	#/0.7FT <sup>2</sup>	
Rating Date										7-29-03	8-27-03	8-27-03	7-29-03	
Trt-Eval Interval										47 DA-A	76 DA-A	76 DA-A	47 DA-A	
ARM Action Codes														
# Subsamples, Dec.													T1 1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	Broadcast Application Plateau X-77	2	AS L	2	oz/a % v/v			JUNE 1 A JUNE 1 A	A	20 20	0.0 a	0.0 d	0.0 a	0.0 e
2	Weed Bug Plateau X-77	2	AS L	2	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	2.7 a	2.3 abc	0.3 a	2.3 ab
3	Burch Wet Blade Plateau	2	AS	2	oz/a			JUNE 1 A	A	1	0.7 a	1.0 bcd	1.7 a	0.7 cde
4	Burch Wet Blade Plateau X-77	2	AS L	2	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.0 d	0.3 a	0.0 e
5	Broadcast Application Plateau X-77	2	AS L	3	oz/a % v/v			JUNE 1 A JUNE 1 A	A	20 20	0.0 a	0.0 d	0.0 a	0.0 e
6	Weed Bug Plateau X-77	2	AS L	3	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	0.7 a	1.0 bcd	0.7 a	1.3 b-e
7	Burch Wet Blade Plateau	2	AS	3	oz/a			JUNE 1 A	A	1	0.0 a	0.0 d	0.0 a	0.0 e
8	Burch Wet Blade Plateau X-77	2	AS L	3	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	0.0 a	0.7 cd	0.0 a	0.0 e
9	Broadcast Application Plateau X-77	2	AS L	0.5	oz/a % v/v			JUNE 1 A JUNE 1 A	A	20 20	0.7 a	0.0 d	0.0 a	0.4 de
10	Weed Bug Plateau X-77	2	AS L	0.5	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	1.0 a	0.0 d	0.0 a	1.9 abc
11	Burch Wet Blade Plateau	2	AS	0.5	oz/a			JUNE 1 A	A	1	0.7 a	2.7 ab	2.3 a	1.6 a-d
12	Burch Wet Blade Plateau X-77	2	AS L	0.5	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	1.3 a	0.0 d	0.0 a	1.2 b-e
13	Broadcast Application Oust X-77	75	DG L	0.5	oz/a % v/v			JUNE 1 A JUNE 1 A	A	20 20	0.0 a	0.0 d	0.0 a	0.0 e
14	Weed Bug Oust X-77	75	DG L	0.5	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	0.3 a	1.0 bcd	1.3 a	0.7 cde
15	Burch Wet Blade Oust	75	DG	0.5	oz/a			JUNE 1 A	A	1	0.0 a	0.0 d	0.0 a	0.0 e
16	Burch Wet Blade Oust X-77	75	DG L	0.5	oz/a % v/v			JUNE 1 A JUNE 1 A	A	1 1	0.7 a	1.0 bcd	1.3 a	0.6 cde
17	Mowed Check										1.7 a	3.7 a	3.0 a	2.8 a
18	Nontreated										1.3 a	2.3 abc	0.7 a	1.4 a-d
LSD (P=.05)											1.56	1.91	2.05	1.44
Standard Deviation											0.94	1.15	1.23	0.87
CV											144.3	131.96	189.51	104.7
Grand Mean											0.65	0.87	0.65	0.83
Bartlett's X2											3.539	5.351	8.756	16.622
P(Bartlett's X2)											0.939	0.72	0.363	0.083
Replicate F											0.529	0.182	0.012	0.085
Replicate Prob(F)											0.5938	0.8340	0.9878	0.9187
Treatment F											1.859	2.977	1.676	3.196
Treatment Prob(F)											0.0607	0.0033	0.0981	0.0019

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

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Column 12: T1 = ([7]+[8]+[9])/3

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## Application Placement Equipment for PGR Applications on Bahiagrass Roadsides

Trial ID: 03-D11  
Location: US220 Montgomery Cty

Study Dir.: Travis Gannon  
Investigator: Fred Yelverton

Crop Code										PASNO	
Rating Data Type										AVG SD HD	
Rating Unit										#/4.3FT <sup>2</sup>	
Rating Date										8-27-03	
Trt-Eval Interval										76 DA-A	
ARM Action Codes										T2	
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume	
1	Broadcast Application Plateau	2	AS	2	oz/a			JUNE 1 A		20	0.0 c
	X-77	L		0.25	% v/v			JUNE 1 A		20	
2	Weed Bug Plateau	2	AS	2	oz/a			JUNE 1 A		1	1.3 bc
	X-77	L		0.25	% v/v			JUNE 1 A		1	
3	Burch Wet Blade Plateau	2	AS	2	oz/a			JUNE 1 A		1	1.3 bc
4	Burch Wet Blade Plateau	2	AS	2	oz/a			JUNE 1 A		1	0.2 c
	X-77	L		0.25	% v/v			JUNE 1 A		1	
5	Broadcast Application Plateau	2	AS	3	oz/a			JUNE 1 A		20	0.0 c
	X-77	L		0.25	% v/v			JUNE 1 A		20	
6	Weed Bug Plateau	2	AS	3	oz/a			JUNE 1 A		1	0.8 bc
	X-77	L		0.25	% v/v			JUNE 1 A		1	
7	Burch Wet Blade Plateau	2	AS	3	oz/a			JUNE 1 A		1	0.0 c
8	Burch Wet Blade Plateau	2	AS	3	oz/a			JUNE 1 A		1	0.3 c
	X-77	L		0.25	% v/v			JUNE 1 A		1	
9	Broadcast Application Plateau	2	AS	0.5	oz/a			JUNE 1 A		20	0.0 c
	X-77	L		0.25	% v/v			JUNE 1 A		20	
10	Weed Bug Plateau	2	AS	0.5	oz/a			JUNE 1 A		1	0.0 c
	X-77	L		0.25	% v/v			JUNE 1 A		1	
11	Burch Wet Blade Plateau	2	AS	0.5	oz/a			JUNE 1 A		1	2.5 ab
12	Burch Wet Blade Plateau	2	AS	0.5	oz/a			JUNE 1 A		1	0.0 c
	X-77	L		0.25	% v/v			JUNE 1 A		1	
13	Broadcast Application Oust	75	DG	0.5	oz/a			JUNE 1 A		20	0.0 c
	X-77	L		0.25	% v/v			JUNE 1 A		20	
14	Weed Bug Oust	75	DG	0.5	oz/a			JUNE 1 A		1	1.2 bc
	X-77	L		0.25	% v/v			JUNE 1 A		1	
15	Burch Wet Blade Oust	75	DG	0.5	oz/a			JUNE 1 A		1	0.0 c
16	Burch Wet Blade Oust	75	DG	0.5	oz/a			JUNE 1 A		1	1.2 bc
	X-77	L		0.25	% v/v			JUNE 1 A		1	
17	Mowed Check										3.3 a
18	Nontreated										1.5 abc
LSD (P=.05)										1.87	
Standard Deviation										1.12	
CV										147.72	
Grand Mean										0.76	
Bartlett's X2										9.292	
P(Bartlett's X2)										0.411	
Replicate F										0.026	
Replicate Prob(F)										0.9746	
Treatment F										2.293	
Treatment Prob(F)										0.0193	

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.

Column 13: T2 = ([10]+[11])/2

# North Carolina State University

## Application Placement Equipment for PGR Applications on Bahiagrass Roadsides

Trial ID: 03-D11  
Location: US220 Montgomery Cty

Study Dir.: Travis Gannon  
Investigator: Fred Yelverton

### Trial Comments

6-12-03 - Trial initiated. Bahiagrass was 6 - 9 inches in height, no seedheads were present at application. Burch Wet Blade trts and broadcast trts were applied in morning and were completed by 12:30 PM. Weed Bug treatments were applied between 1:00 and 2:30 PM. A light shower occurred at 2:00 PM, however, only lasted for 4 - 5 minutes and was not measureable. Burch Wet Blade trts were mown at 4 inches and were applied at 1 GPA. Weed Bug trts were applied at 1 GPA and wiped at 4 inches. Broadcast trts were applied at 20 GPA, 8003XR, 4 MPH, 25 PSI. Metal spikes are in front of 101 & 210 and in back of 209 & 318.

6-18-03 - Trial area visited, still no bahiagrass seedheads present in trial area.

7-9-03 - Trial area visited. Bahiagrass seedheads are beginning to appear, however they are scattered throughout the trial area. Trial will be visited again in approximately two weeks to count seedheads.