

# North Carolina State University

## Postemergence Poa annua Control in Overseeded Bermudagrass

Trial ID: 01-T65                      Study Dir.: Jason Hinton  
 Location: Quail Ridge G.C.        Investigator: Fred Yelverton

### GENERAL TRIAL INFORMATION

**Study Director:** Jason Hinton                      **Title:** Research Technician  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695  
**Investigator:** Fred Yelverton                      **Title:** Professor  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695

### TRIAL LOCATION

**City:** Sanford                      **Trial Status:** Complete  
**State/Prov.:** NC  
**Postal Code:** 27330                      **Initiation Date:** 12-07-01  
**Country:** USA

**Conducted Under GLP (Y/N):** N                      **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	POAAN	Annual Bluegrass	Poa annua

### SITE AND DESIGN

**Plot Width, Unit:** 5                      FT                      **Plot Length, Unit:** 10                      FT                      **Reps:** 4  
**Study Design:** RANDOMIZED COMPLETE BLOCK

### APPLICATION DESCRIPTION

	A
<b>Application Date:</b>	12-07-01
<b>Time of Day:</b>	1:30-2 PM
<b>Application Method:</b>	Spray
<b>Application Timing:</b>	E. Post
<b>Applic. Placement:</b>	Foliar
<b>Air Temp., Unit:</b>	75.1 F
<b>% Relative Humidity:</b>	49
<b>Wind Velocity, Unit:</b>	2.3 MPH
<b>Dew Presence (Y/N):</b>	N
<b>Water Hardness:</b>	N/A
<b>Soil Temp., Unit:</b>	60 F
<b>Soil Moisture:</b>	Good/wet
<b>% Cloud Cover:</b>	25

### WEED STAGE AT EACH APPLICATION

	A
<b>Weed 1 Code, Stage:</b>	POAAN 0-2 Till.
<b>Stage Scale:</b>	1-9 Leaf
<b>Density, Unit:</b>	25 Ft <sup>2</sup>

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### APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 Spray
<b>Operating Pressure:</b>	36 PSI
<b>Nozzle Type:</b>	Flat Fan
<b>Nozzle Size:</b>	8002 XR
<b>Nozzle Spacing, Unit:</b>	10 Inch
<b>Boom Height, Unit:</b>	10 Inch
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	Water
<b>Spray Volume, Unit:</b>	32.5 GPA
<b>Propellant:</b>	Compr.CO2

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Weed Code									POAAN	POAAN	POAAN		
Rating Data Type									CONTROL	CONTROL	CONTROL		
Rating Unit									%	%	%		
Rating Date									12-20-01	01-15-02	02-04-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code			
1	Nontreated										0.0 a	0.0 d	0.0 c
2	MKH 6561 X-77	70	WG L	0.0267 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	5.0 cd	0.0 c
3	MKH 6561 X-77	70	WG L	0.0534 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	7.5 bc	12.5 c
4	MKH 6561 X-77	70	WG L	0.107 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	7.5 bc	37.5 b
5	MKH 6561 X-77	70	WG L	0.214 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	18.8 a	73.8 a
6	MKH 6562 X-77	70	WG L	0.0133 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	0.0 d	0.0 c
7	MKH 6562 X-77	70	WG L	0.0267 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	2.5 cd	0.0 c
8	MKH 6562 X-77	70	WG L	0.0534 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	5.0 cd	11.3 c
9	MKH 6562 X-77	70	WG L	0.107 0.25	LB %	A/A V/V			E. Post A E. Post A		0.0 a	1.3 cd	0.0 c
10	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.0534 0.0267 0.25	LB LB %	A/A A/A V/V			E. Post A E. Post A E. Post A		0.0 a	2.5 cd	18.8 bc
11	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.107 0.0267 0.25	LB LB %	A/A A/A V/V			E. Post A E. Post A E. Post A		0.0 a	15.0 a	66.3 a
12	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.0534 0.0534 0.25	LB LB %	A/A A/A V/V			E. Post A E. Post A E. Post A		0.0 a	12.5 ab	18.8 bc
13	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.0267 0.0534 0.25	LB LB %	A/A A/A V/V			E. Post A E. Post A E. Post A		0.0 a	7.5 bc	6.3 c
LSD (P=.05)											0.00	7.17	21.61
Standard Deviation											0.00	5.02	15.12
CV											0.0	76.76	80.24
Bartlett's X2											0.0	5.079	13.77
P(Bartlett's X2)											0.00*	0.886	0.055



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Rating Data Type									CONTROL	CONTROL	
Rating Unit									%	%	
Rating Date									03-15-02	04-17-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
1	Nontreated									0.0 b	0.0 c
2	MKH 6561 X-77	70	WG L	0.0267 LB A/A 0.25 % V/V				E. Post A E. Post A		0.0 b	6.3 bc
3	MKH 6561 X-77	70	WG L	0.0534 LB A/A 0.25 % V/V				E. Post A E. Post A		12.5 b	12.5 bc
4	MKH 6561 X-77	70	WG L	0.107 LB A/A 0.25 % V/V				E. Post A E. Post A		16.3 b	25.0 b
5	MKH 6561 X-77	70	WG L	0.214 LB A/A 0.25 % V/V				E. Post A E. Post A		70.0 a	62.5 a
6	MKH 6562 X-77	70	WG L	0.0133 LB A/A 0.25 % V/V				E. Post A E. Post A		0.0 b	0.0 c
7	MKH 6562 X-77	70	WG L	0.0267 LB A/A 0.25 % V/V				E. Post A E. Post A		0.0 b	0.0 c
8	MKH 6562 X-77	70	WG L	0.0534 LB A/A 0.25 % V/V				E. Post A E. Post A		0.0 b	0.0 c
9	MKH 6562 X-77	70	WG L	0.107 LB A/A 0.25 % V/V				E. Post A E. Post A		0.0 b	0.0 c
10	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.0534 LB A/A 0.0267 LB A/A 0.25 % V/V				E. Post A E. Post A E. Post A		6.3 b	12.5 bc
11	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.107 LB A/A 0.0267 LB A/A 0.25 % V/V				E. Post A E. Post A E. Post A		60.0 a	75.0 a
12	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.0534 LB A/A 0.0534 LB A/A 0.25 % V/V				E. Post A E. Post A E. Post A		16.3 b	6.3 bc
13	MKH 6561 MKH 6562 X-77	70 70	WG WG L	0.0267 LB A/A 0.0534 LB A/A 0.25 % V/V				E. Post A E. Post A E. Post A		2.5 b	6.3 bc
LSD (P=.05)									17.36	19.71	
Standard Deviation									12.15	13.79	
CV									85.94	86.94	
Bartlett's X2									8.071	3.733	
P(Bartlett's X2)									0.233	0.713	

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Weed Code	POAAN	POAAN
Rating Data Type	CONTROL	CONTROL
Rating Unit	%	%
Rating Date	03-15-02	04-17-02
Replicate F	0.325	0.407
Replicate Prob(F)	0.8075	0.7490
Treatment F	14.982	12.814
Treatment Prob(F)	0.0001	0.0001

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

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Trial Comments