

# North Carolina State University

## Nonselective Control of Poa annua

Trial ID: 02-T16 Study Dir.: Jason Hinton  
Location: NCSU University Cl. 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:** Raleigh **Trial Status:** Complete  
**State/Prov.:** NC  
**Postal Code:** 27695 **Initiation Date:** 04-08-02  
**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>	04-08-02
<b>Time of Day:</b>	5-5:15 PM
<b>Application Method:</b>	Spray
<b>Application Timing:</b>	Post
<b>Applic. Placement:</b>	Foliar
<b>Air Temp., Unit:</b>	73.7 F
<b>% Relative Humidity:</b>	35
<b>Wind Velocity, Unit:</b>	2.1 MPH
<b>Dew Presence (Y/N):</b>	N
<b>Water Hardness:</b>	N/A
<b>Soil Temp., Unit:</b>	71 F
<b>Soil Moisture:</b>	Fair
<b>% Cloud Cover:</b>	25

### WEED STAGE AT EACH APPLICATION

	A
<b>Weed 1 Code, Stage:</b>	POAAN Seedheads
<b>Stage Scale:</b>	1-2 Inch
<b>Density, Unit:</b>	5-25 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							04-09-02	04-10-02	04-12-02
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Product Rate	Product Rate	Grow Stg	Appl Code
1	MON 78995	1.6	EC	4.5	LB	AE/A		Post	A
							33.8 bcd	61.3 bc	93.8 a
2	MON 78995	1.6	EC	6.0	LB	AE/A		Post	A
							58.8 a	76.3 ab	96.5 a
3	MON 78996	1.8	EC	4.5	LB	AE/A		Post	A
							18.8 de	50.0 c	93.8 a
4	MON 78996	1.8	EC	6.0	LB	AE/A		Post	A
							37.5 a-d	66.3 ab	96.5 a
5	MON 78997	1.4	EC	4.5	LB	AE/A		Post	A
							43.8 abc	75.0 ab	96.0 a
6	MON 78997	1.4	EC	6.0	LB	AE/A		Post	A
							32.5 cd	62.5 abc	98.0 a
7	QuikPRO	66.6	WG	4.5	LB	AE/A		Post	A
							36.3 bcd	62.5 abc	97.3 a
8	QuikPRO	66.6	WG	6.0	LB	AE/A		Post	A
							46.3 abc	77.5 a	98.0 a
9	MON 78567	1.7	EC	4.5	LB	AE/A		Post	A
							30.0 cd	66.3 ab	92.8 a
10	MON 78567	1.7	EC	6.0	LB	AE/A		Post	A
							55.0 ab	63.8 abc	96.5 a
11	Roundup ProDry	64.9	WG	4.5	LB	AE/A		Post	A
							0.0 e	0.0 d	15.0 c
12	Roundup ProDry	64.9	WG	6.0	LB	AE/A		Post	A
							0.0 e	0.0 d	18.8 c
13	Finale	2	SC	1.5	LB	AE/A		Post	A
							0.0 e	8.8 d	73.8 b
14	Nontreated								
							0.0 e	0.0 d	0.0 d
LSD (P=.05)							21.45	16.11	6.48
Standard Deviation							15.01	11.27	4.53
CV							53.55	23.55	5.95
Bartlett's X2							8.773	25.933	29.551
P(Bartlett's X2)							0.458	0.002*	0.001*
Replicate F							2.031	2.839	1.271
Replicate Prob(F)							0.1254	0.0503	0.2975
Treatment F							7.772	29.941	251.194
Treatment Prob(F)							0.0001	0.0001	0.0001

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

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Rating Data Type							CONTROL	CONTROL			
Rating Unit							%	%			
Rating Date							04-15-02	04-22-02			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	MON 78995	1.6	EC	4.5	LB AE/A			Post	A	91.3 a	100.0 a
2	MON 78995	1.6	EC	6.0	LB AE/A			Post	A	96.0 a	100.0 a
3	MON 78996	1.8	EC	4.5	LB AE/A			Post	A	92.5 a	100.0 a
4	MON 78996	1.8	EC	6.0	LB AE/A			Post	A	94.8 a	100.0 a
5	MON 78997	1.4	EC	4.5	LB AE/A			Post	A	93.8 a	100.0 a
6	MON 78997	1.4	EC	6.0	LB AE/A			Post	A	91.0 a	100.0 a
7	QuikPRO	66.6	WG	4.5	LB AE/A			Post	A	93.3 a	100.0 a
8	QuikPRO	66.6	WG	6.0	LB AE/A			Post	A	96.0 a	100.0 a
9	MON 78567	1.7	EC	4.5	LB AE/A			Post	A	93.5 a	100.0 a
10	MON 78567	1.7	EC	6.0	LB AE/A			Post	A	93.8 a	100.0 a
11	Roundup ProDry	64.9	WG	4.5	LB AE/A			Post	A	40.0 c	100.0 a
12	Roundup ProDry	64.9	WG	6.0	LB AE/A			Post	A	36.3 c	100.0 a
13	Finale	2	SC	1.5	LB AE/A			Post	A	58.8 b	97.5 b
14	Nontreated									0.0 d	0.0 c
LSD (P=.05)							9.42	1.10			
Standard Deviation							6.59	0.77			
CV							8.62	0.83			
Bartlett's X2							26.919	0.0			
P(Bartlett's X2)							0.008*	0.00*			
Replicate F							2.232	1.000			
Replicate Prob(F)							0.0998	0.4031			
Treatment F							85.339	4784.539			
Treatment Prob(F)							0.0001	0.0001			

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Trial Comments