

# North Carolina State University

## Postemergence Control of Poa annua

Trial ID: 00-T121 Study Dir.: Jason Hinton and Travis Gannon  
Location: Plantation Golf Cl. Investigator: Fred Yelverton

### GENERAL TRIAL INFORMATION

**Study Director:** Jason Hinton and Travis Gannon **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:** Pinehurst **Trial Status:** Complete  
**State/Prov.:** NC  
**Postal Code:** 28374 **Initiation Date:** 01-22-01  
**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

**Crop 1:** CYNDA Bermudagrass

**Variety:** Common

### SITE AND DESIGN

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

### APPLICATION DESCRIPTION

	A	B	C
<b>Application Date:</b>	01-22-01	02-05-01	02-19-01
<b>Time of Day:</b>	2:30 PM	2:00 PM	11:45 AM
<b>Application Method:</b>	Spray	Spray	Spray
<b>Application Timing:</b>	Post	2 Weeks	3 Weeks
<b>Applic. Placement:</b>	Foliar	Foliar	Foliar
<b>Air Temp., Unit:</b>	48.2 F	58.2 F	50.6 F
<b>% Relative Humidity:</b>	27	43	35
<b>Wind Velocity, Unit:</b>	4 MPH	2.5 MPH	0.5 MPH
<b>Dew Presence (Y/N):</b>	N	N	N
<b>Water Hardness:</b>	N/A	N/A	N/A
<b>Soil Temp., Unit:</b>	42 F	50 F	48 F
<b>Soil Moisture:</b>	Good	Good	Good
<b>% Cloud Cover:</b>	5	10	0

### CROP STAGE AT EACH APPLICATION

	A	B	C
<b>Crop 1 Code, Stage:</b>	CYNDA Dormant	CYNDA Dormant	CYNDA Dormant

### WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	POAAN 0-5 Till.	POAAN 0-5 Till.	POAAN 2-6 Till.
<b>Stage Scale:</b>	3-20 Leaf	3-20 Leaf	7-21 Leaf
<b>Density, Unit:</b>	20 FT <sup>2</sup>	20 FT <sup>2</sup>	20 FT <sup>2</sup>

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### APPLICATION EQUIPMENT

	A	B	C
<b>Appl. Equipment:</b>	CO2 SPRAY	CO2 SPRAY	CO2 SPRAY
<b>Operating Pressure:</b>	36	36	36
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	FLAT FAN
<b>Nozzle Size:</b>	8002 XR	8002 XR	8002 XR
<b>Nozzle Spacing, Unit:</b>	10 INCH	10 INCH	10 INCH
<b>Boom Length, Unit:</b>	40 INCH	40 INCH	40 INCH
<b>Boom Height, Unit:</b>	10 INCH	10 INCH	10 INCH
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	32.5 GPA	32.5 GPA	32.5 GPA
<b>Propellant:</b>	COMPR.CO2	COMPR.CO2	COMPR.CO2

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Weed Code						POAAN	POAAN	POAAN	POAAN	
Rating Data Type						CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit						%	%	%	%	
Rating Date						01-29-01	02-05-01	02-19-01	03-07-01	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code				
1	MON 44940	2.5 SC		0.01 LB A/A	Post	A	0.0 a	0.0 b	5.0 b	11.3 c
2	MON 44940 Rubigan	2.5 SC 1 AS		0.01 LB A/A 3.0 OZ/1000 FT2	Post Post	A A	0.0 a	1.3 ab	13.8 b	16.3 c
3	MON 44940 Rubigan	2.5 SC 1 AS		0.01 LB A/A 6.0 OZ/1000 FT2	Post Post	A A	0.0 a	3.8 a	23.8 ab	20.0 c
4	MON 44940 Prograss	2.5 SC 1.5 EC		0.01 LB A/A 0.75 LB A/A	Post Post	A A	0.0 a	2.5 ab	22.5 ab	18.8 c
5	MON 44940 Prograss	2.5 SC 1.5 EC		0.01 LB A/A 1.5 LB A/A	Post Post	A A	0.0 a	1.3 ab	18.8 ab	41.3 b
6	MON 44940 Kerb	2.5 SC 50 WP		0.01 LB A/A 1.0 LB A/A	Post Post	A A	0.0 a	2.5 ab	41.3 a	78.8 a
7	Rubigan Rubigan	1 AS 1 AS		6.0 OZ/1000 FT2 6.0 OZ/1000 FT2	Post 2 Weeks	A B	0.0 a	0.0 b	0.0 b	3.8 c
8	Prograss Prograss	1.5 EC 1.5 EC		1.0 LB A/A 1.0 LB A/A	Post 3 Weeks	A C	0.0 a	2.5 ab	40.0 a	77.5 a
9	Nontreated						0.0 a	0.0 b	0.0 b	0.0 c
LSD (P=.05)						0.00	3.24	21.03	18.86	
Standard Deviation						0.00	2.22	14.41	12.92	
CV						0.0	145.17	78.6	43.47	
Bartlett's X2						0.0	0.173	4.78	17.134	
P(Bartlett's X2)						0.00*	0.999	0.572	0.017*	
Replicate F						0.000	0.894	0.508	0.161	
Replicate Prob(F)						1.0000	0.4585	0.6803	0.9216	
Treatment F						0.000	1.518	4.605	21.308	
Treatment Prob(F)						1.0000	0.2032	0.0017	0.0001	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

