

North Carolina State University

Control of Poa annua in Dormant Bermudagrass with Fall and Spring Treatments

Trial ID: 01-T72

Study Dir.: Jason Hinton

Location: Thorndale C.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: Oxford **Trial Status:** Completed
State/Prov.: NC
Postal Code: 27656 **Initiation Date:** 12-19-01
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
Application Date:	12-19-01	04-02-02	04-24-02
Time of Day:	4-4:30 PM	4:00 PM	5:00 PM
Application Method:	Spray	Spray	Spray
Application Timing:	Fall	Spring	3 Weeks
Applic. Placement:	Foliar	Foliar	Foliar
Air Temp., Unit:	55.6 F	74.7 F	69.6 F
% Relative Humidity:	52	37	41
Wind Velocity, Unit:	1.2 MPH	6.3 MPH	1.4 MPH
Dew Presence (Y/N):	N	N	N
Water Hardness:	N/A	N/A	N/A
Soil Temp., Unit:	51 F	62 F	73 F
Soil Moisture:	Good	Good	Poor
% Cloud Cover:	10	10	25

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	CYNDA Semi-dorm	CYNDA Greenup	CYNDA Mowed
Stage Scale:	85% dorm.	25%	
Height, Unit:	0.75 Inch	0.75 Inch	0.75 Inch

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	POAAN 0-2 Till.	POAAN 2-8 Till.	POAAN 2-8 Till.
Stage Scale:	2-10 Leaf	Seedhead	Seedhead
Density, Unit:	25 Ft ²	25 Ft ²	25 Ft ²

APPLICATION EQUIPMENT

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

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Rating Data Type									CONTROL	CONTROL	CONTROL	
Rating Unit									%	%	%	
Rating Date									01-11-02	02-05-02	03-06-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	MON 44951	75	WG	0.04	LB A/A			Fall	A	0.0 a	83.8 abc	88.8 de
2	MON 44951	75	WG	0.06	LB A/A			Fall	A	0.0 a	81.3 bc	92.5 bcd
3	MON 44951	75	WG	0.12	LB A/A			Fall	A	0.0 a	83.8 abc	98.5 a
4	MON 44951 MON 0818	75 L	WG L	0.04 0.5	LB A/A % V/V			Fall Fall	A A	0.0 a	81.3 bc	87.3 ef
5	MON 44951 MON 0818	75 L	WG L	0.06 0.5	LB A/A % V/V			Fall Fall	A A	0.0 a	81.3 bc	92.0 cde
6	MON 44951 MON 0818	75 L	WG L	0.12 0.5	LB A/A % V/V			Fall Fall	A A	0.0 a	85.0 abc	97.3 ab
7	Prograss	1.5	EC	1.5	LB A/A			Fall	A	0.0 a	88.8 abc	98.5 a
8	TranXit MON 0818	25 L	DF L	0.06 0.25	LB A/A % V/V			Fall Fall	A A	0.0 a	90.0 ab	99.8 a
9	MON 44951 MON 44951	75 75	WG WG	0.04 0.04	LB A/A LB A/A			Fall Spring	A B	0.0 a	80.0 c	82.5 f
10	MON 44951 MON 44951	75 75	WG WG	0.06 0.06	LB A/A LB A/A			Fall Spring	A B	0.0 a	86.3 abc	94.8 abc
11	MON 44951 MON 44951	75 75	WG WG	0.12 0.12	LB A/A LB A/A			Fall Spring	A B	0.0 a	88.8 abc	98.5 a
12	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.04 0.5 0.04 0.5	LB A/A % V/V LB A/A % V/V			Fall Fall Spring Spring	A A B B	0.0 a	91.3 a	95.0 abc
13	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.06 0.5 0.06 0.5	LB A/A % V/V LB A/A % V/V			Fall Fall Spring Spring	A A B B	0.0 a	91.3 a	98.3 a
14	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.12 0.5 0.12 0.5	LB A/A % V/V LB A/A % V/V			Fall Fall Spring Spring	A A B B	0.0 a	86.3 abc	97.3 ab
15	Prograss Prograss	1.5 1.5	EC EC	1.0 1.0	LB A/A LB A/A			Fall Spring	A B	0.0 a	88.8 abc	97.3 ab

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Rating Data Type									CONTROL	CONTROL	CONTROL
Rating Unit									%	%	%
Rating Date									01-11-02	02-05-02	03-06-02
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
16	TranXit MON 0818	25 L	DF	0.03 LB A/A 0.25 % V/V			Fall Fall	A A	0.0 a	91.3 a	99.8 a
	TranXit MON 0818	25 L	DF	0.03 LB A/A 0.25 % V/V			Spring Spring	B B			
17	MON 44951	75	WG	0.04 LB A/A			Spring	B	0.0 a	0.0 d	0.0 g
18	MON 44951	75	WG	0.06 LB A/A			Spring	B	0.0 a	0.0 d	0.0 g
19	MON 44951	75	WG	0.12 LB A/A			Spring	B	0.0 a	0.0 d	0.0 g
20	MON 44951 MON 0818	75 L	WG	0.04 LB A/A 0.5 % V/V			Spring Spring	B B	0.0 a	0.0 d	0.0 g
21	MON 44951 MON 0818	75 L	WG	0.06 LB A/A 0.5 % V/V			Spring Spring	B B	0.0 a	0.0 d	0.0 g
22	MON 44951 MON 0818	75 L	WG	0.12 LB A/A 0.5 % V/V			Spring Spring	B B	0.0 a	0.0 d	0.0 g
23	Prograss	1.5	EC	1.5 LB A/A			Spring	B	0.0 a	0.0 d	0.0 g
24	TranXit MON 0818	25 L	DF	0.06 LB A/A 0.25 % V/V			Spring Spring	B B	0.0 a	0.0 d	0.0 g
25	MON 44951 MON 44951	75 75	WG WG	0.02 LB A/A 0.02 LB A/A			Spring 3 Weeks	B C	0.0 a	0.0 d	0.0 g
26	MON 44951 MON 44951	75 75	WG WG	0.03 LB A/A 0.03 LB A/A			Spring 3 Weeks	B C	0.0 a	0.0 d	0.0 g
27	MON 44951 MON 44951	75 75	WG WG	0.06 LB A/A 0.06 LB A/A			Spring 3 Weeks	B C	0.0 a	0.0 d	0.0 g
28	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.02 LB A/A 0.5 % V/V 0.02 LB A/A 0.5 % V/V			Spring Spring 3 Weeks 3 Weeks	B B C C	0.0 a	0.0 d	0.0 g
29	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.03 LB A/A 0.5 % V/V 0.03 LB A/A 0.5 % V/V			Spring Spring 3 Weeks 3 Weeks	B B C C	0.0 a	0.0 d	0.0 g
30	MON 44951 MON 0818 MON 44951	75 L 75	WG L WG	0.06 LB A/A 0.5 % V/V 0.06 LB A/A			Spring Spring 3 Weeks	B B C	0.0 a	0.0 d	0.0 g

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Rating Unit									%	%	%	
Rating Date									01-11-02	02-05-02	03-06-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
31	MON 0818 Prograss	L 1.5	EC	0.5 1.0	% LB	V/V A/A		3 Weeks Spring	C B	0.0 a	0.0 d	0.0 g
32	Prograss TranXit MON 0818 TranXit MON 0818	1.5 25 L 25 L	EC DF	1.0 0.03 0.25 0.03 0.25	LB LB	A/A A/A V/V A/A V/V		3 Weeks Spring Spring 3 Weeks 3 Weeks	C B B C C	0.0 a	0.0 d	0.0 g
33	Nontreated									0.0 a	0.0 d	0.0 g
LSD (P=.05)										0.00	8.96	5.15
Standard Deviation										0.00	6.40	3.68
CV										0.0	15.32	8.0
Bartlett's X2										0.0	24.334	50.841
P(Bartlett's X2)										0.00*	0.06	0.001*
Replicate F										0.000	3.346	7.046
Replicate Prob(F)										1.0000	0.0223	0.0002
Treatment F										0.000	187.482	688.324
Treatment Prob(F)										1.0000	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	CONTROL		
Rating Unit								%	%	%		
Rating Date								04-02-02	04-24-02	04-30-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code			
1	MON 44951	75	WG	0.04	LB A/A			Fall	A	70.0 ef	72.5 d	73.8 def
2	MON 44951	75	WG	0.06	LB A/A			Fall	A	75.0 def	81.3 bcd	77.5 cde
3	MON 44951	75	WG	0.12	LB A/A			Fall	A	92.3 abc	94.8 abc	95.0 abc
4	MON 44951 MON 0818	75	WG L	0.04 0.5	LB A/A % V/V			Fall Fall	A A	66.3 f	70.0 d	73.8 def
5	MON 44951 MON 0818	75	WG L	0.06 0.5	LB A/A % V/V			Fall Fall	A A	78.8 de	80.0 cd	80.0 bcd
6	MON 44951 MON 0818	75	WG L	0.12 0.5	LB A/A % V/V			Fall Fall	A A	94.5 abc	96.3 a	96.3 ab
7	Prograss	1.5	EC	1.5	LB A/A			Fall	A	94.8 abc	92.3 abc	92.3 a-d
8	TranXit MON 0818	25	DF L	0.06 0.25	LB A/A % V/V			Fall Fall	A A	99.8 a	99.8 a	99.8 a
9	MON 44951 MON 44951	75	WG WG	0.04 0.04	LB A/A LB A/A			Fall Spring	A B	51.3 g	81.3 bcd	85.0 a-d
10	MON 44951 MON 44951	75	WG WG	0.06 0.06	LB A/A LB A/A			Fall Spring	A B	86.3 bcd	96.0 ab	100.0 a
11	MON 44951 MON 44951	75	WG WG	0.12 0.12	LB A/A LB A/A			Fall Spring	A B	97.0 ab	99.8 a	100.0 a
12	MON 44951 MON 0818 MON 44951 MON 0818	75	WG L WG L	0.04 0.5 0.04 0.5	LB A/A % V/V LB A/A % V/V			Fall Fall Spring Spring	A A B B	85.0 cd	96.3 a	97.5 ab
13	MON 44951 MON 0818 MON 44951 MON 0818	75	WG L WG L	0.06 0.5 0.06 0.5	LB A/A % V/V LB A/A % V/V			Fall Fall Spring Spring	A A B B	92.5 abc	98.8 a	100.0 a
14	MON 44951 MON 0818 MON 44951 MON 0818	75	WG L WG L	0.12 0.5 0.12 0.5	LB A/A % V/V LB A/A % V/V			Fall Fall Spring Spring	A A B B	95.0 abc	99.8 a	99.8 a
15	Prograss Prograss	1.5	EC EC	1.0 1.0	LB A/A LB A/A			Fall Spring	A B	95.0 abc	88.8 abc	88.8 a-d

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Rating Unit									%	%	%
Rating Date									04-02-02	04-24-02	04-30-02
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
16	TranXit MON 0818	25 L	DF	0.03 LB A/A 0.25 % V/V			Fall Fall	A A	98.3 a	100.0 a	100.0 a
	TranXit MON 0818	25 L	DF	0.03 LB A/A 0.25 % V/V			Spring Spring	B B			
17	MON 44951	75	WG	0.04 LB A/A			Spring	B	0.0 h	3.8 hi	12.5 lm
18	MON 44951	75	WG	0.06 LB A/A			Spring	B	0.0 h	27.5 ef	48.8 ghi
19	MON 44951	75	WG	0.12 LB A/A			Spring	B	0.0 h	21.3 efg	42.5 hij
20	MON 44951 MON 0818	75 L	WG	0.04 LB A/A 0.5 % V/V			Spring Spring	B B	0.0 h	21.3 efg	33.8 ijk
21	MON 44951 MON 0818	75 L	WG	0.06 LB A/A 0.5 % V/V			Spring Spring	B B	0.0 h	8.8 ghi	30.0 jkl
22	MON 44951 MON 0818	75 L	WG	0.12 LB A/A 0.5 % V/V			Spring Spring	B B	0.0 h	13.8 f-i	31.3 ijk
23	Prograss	1.5	EC	1.5 LB A/A			Spring	B	0.0 h	0.0 i	0.0 m
24	TranXit MON 0818	25 L	DF	0.06 LB A/A 0.25 % V/V			Spring Spring	B B	0.0 h	32.5 e	57.5 fgh
25	MON 44951 MON 44951	75 75	WG WG	0.02 LB A/A 0.02 LB A/A			Spring 3 Weeks	B C	0.0 h	2.5 i	0.0 m
26	MON 44951 MON 44951	75 75	WG WG	0.03 LB A/A 0.03 LB A/A			Spring 3 Weeks	B C	0.0 h	5.0 hi	27.5 jkl
27	MON 44951 MON 44951	75 75	WG WG	0.06 LB A/A 0.06 LB A/A			Spring 3 Weeks	B C	0.0 h	7.5 ghi	17.5 klm
28	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.02 LB A/A 0.5 % V/V 0.02 LB A/A 0.5 % V/V			Spring Spring 3 Weeks 3 Weeks	B B C C	0.0 h	0.0 i	5.0 m
29	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.03 LB A/A 0.5 % V/V 0.03 LB A/A 0.5 % V/V			Spring Spring 3 Weeks 3 Weeks	B B C C	0.0 h	17.5 fgh	26.3 jkl
30	MON 44951 MON 0818 MON 44951	75 L 75	WG L WG	0.06 LB A/A 0.5 % V/V 0.06 LB A/A			Spring Spring 3 Weeks	B B C	0.0 h	10.0 ghi	27.5 jkl

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Rating Data Type								CONTROL	CONTROL	CONTROL		
Rating Unit								%	%	%		
Rating Date								04-02-02	04-24-02	04-30-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
31	MON 0818 Prograss	L	EC	0.5	% V/V			3 Weeks Spring	C B	0.0 h	0.0 i	6.3 m
		1.5		1.0	LB A/A							
32	Prograss	1.5	EC	1.0	LB A/A			3 Weeks Spring	C B	0.0 h	35.0 e	61.3 efg
	TranXit	25	DF	0.03	LB A/A			Spring	B			
	MON 0818	L		0.25	% V/V			Spring	B			
	TranXit	25	DF	0.03	LB A/A			3 Weeks	C			
	MON 0818	L		0.25	% V/V			3 Weeks	C			
33	Nontreated									0.0 h	0.0 i	0.0 m
LSD (P=.05)								11.29	14.84	18.59		
Standard Deviation								8.06	10.60	13.28		
CV								19.4	21.16	23.22		
Bartlett's X2								61.119	115.832	82.101		
P(Bartlett's X2)								0.001*	0.001*	0.001*		
Replicate F								3.718	3.058	1.465		
Replicate Prob(F)								0.0141	0.0320	0.2289		
Treatment F								122.021	60.421	30.986		
Treatment Prob(F)								0.0001	0.0001	0.0001		

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Weed Code Rating Data Type Rating Unit Rating Date								POAAN CONTROL %	
								05-07-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
1	MON 44951	75	WG	0.04 LB A/A			Fall	A	78.8 de
2	MON 44951	75	WG	0.06 LB A/A			Fall	A	90.0 a-e
3	MON 44951	75	WG	0.12 LB A/A			Fall	A	96.3 ab
4	MON 44951 MON 0818	75 L	WG L	0.04 LB A/A 0.5 % V/V			Fall Fall	A A	76.3 e
5	MON 44951 MON 0818	75 L	WG L	0.06 LB A/A 0.5 % V/V			Fall Fall	A A	80.0 cde
6	MON 44951 MON 0818	75 L	WG L	0.12 LB A/A 0.5 % V/V			Fall Fall	A A	94.8 abc
7	Prograss	1.5	EC	1.5 LB A/A			Fall	A	91.0 a-e
8	TranXit MON 0818	25 L	DF L	0.06 LB A/A 0.25 % V/V			Fall Fall	A A	99.8 a
9	MON 44951 MON 44951	75 75	WG WG	0.04 LB A/A 0.04 LB A/A			Fall Spring	A B	82.5 b-e
10	MON 44951 MON 44951	75 75	WG WG	0.06 LB A/A 0.06 LB A/A			Fall Spring	A B	97.3 ab
11	MON 44951 MON 44951	75 75	WG WG	0.12 LB A/A 0.12 LB A/A			Fall Spring	A B	100.0 a
12	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.04 LB A/A 0.5 % V/V 0.04 LB A/A 0.5 % V/V			Fall Fall Spring Spring	A A B B	96.0 ab
13	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.06 LB A/A 0.5 % V/V 0.06 LB A/A 0.5 % V/V			Fall Fall Spring Spring	A A B B	98.8 a
14	MON 44951 MON 0818 MON 44951 MON 0818	75 L 75 L	WG L WG L	0.12 LB A/A 0.5 % V/V 0.12 LB A/A 0.5 % V/V			Fall Fall Spring Spring	A A B B	100.0 a
15	Prograss Prograss	1.5 1.5	EC EC	1.0 LB A/A 1.0 LB A/A			Fall Spring	A B	86.3 a-e

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
16	TranXit MON 0818	25 DF L		0.03 LB A/A 0.25 % V/V			Fall Fall	A A	100.0 a
	TranXit MON 0818	25 DF L		0.03 LB A/A 0.25 % V/V			Spring Spring	B B	
17	MON 44951	75 WG		0.04 LB A/A			Spring	B	13.8 hij
18	MON 44951	75 WG		0.06 LB A/A			Spring	B	38.8 fg
19	MON 44951	75 WG		0.12 LB A/A			Spring	B	53.8 f
20	MON 44951 MON 0818	75 WG L		0.04 LB A/A 0.5 % V/V			Spring Spring	B B	21.3 hi
21	MON 44951 MON 0818	75 WG L		0.06 LB A/A 0.5 % V/V			Spring Spring	B B	10.0 ij
22	MON 44951 MON 0818	75 WG L		0.12 LB A/A 0.5 % V/V			Spring Spring	B B	27.5 gh
23	Prograss	1.5 EC		1.5 LB A/A			Spring	B	0.0 j
24	TranXit MON 0818	25 DF L		0.06 LB A/A 0.25 % V/V			Spring Spring	B B	93.8 a-d
25	MON 44951 MON 44951	75 WG 75 WG		0.02 LB A/A 0.02 LB A/A			Spring 3 Weeks	B C	7.5 ij
26	MON 44951 MON 44951	75 WG 75 WG		0.03 LB A/A 0.03 LB A/A			Spring 3 Weeks	B C	11.3 ij
27	MON 44951 MON 44951	75 WG 75 WG		0.06 LB A/A 0.06 LB A/A			Spring 3 Weeks	B C	47.5 f
28	MON 44951 MON 0818 MON 44951 MON 0818	75 WG L 75 WG L		0.02 LB A/A 0.5 % V/V 0.02 LB A/A 0.5 % V/V			Spring Spring 3 Weeks 3 Weeks	B B C C	0.0 j
29	MON 44951 MON 0818 MON 44951 MON 0818	75 WG L 75 WG L		0.03 LB A/A 0.5 % V/V 0.03 LB A/A 0.5 % V/V			Spring Spring 3 Weeks 3 Weeks	B B C C	13.8 hij
30	MON 44951 MON 0818 MON 44951	75 WG L 75 WG		0.06 LB A/A 0.5 % V/V 0.06 LB A/A			Spring Spring 3 Weeks	B B C	21.3 hi

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Location: Thorndale C.C.

Investigator: Fred Yelverton

Weed Code								POAAN		
Rating Data Type								CONTROL		
Rating Unit								%		
Rating Date								05-07-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code	
31	MON 0818 Prograss	L	EC	0.5	% V/V			3 Weeks Spring	C B	0.0 j
		1.5		1.0	LB A/A					
32	Prograss	1.5	EC	1.0	LB A/A			3 Weeks Spring	C B	90.0 a-e
	TranXit	25	DF	0.03	LB A/A			Spring	B	
	MON 0818	L		0.25	% V/V			Spring	B	
	TranXit	25	DF	0.03	LB A/A			3 Weeks	C	
	MON 0818	L		0.25	% V/V			3 Weeks	C	
33	Nontreated									0.0 j
LSD (P=.05)								15.93		
Standard Deviation								11.38		
CV								19.59		
Bartlett's X2								79.612		
P(Bartlett's X2)								0.001*		
Replicate F								5.756		
Replicate Prob(F)								0.0012		
Treatment F								48.351		
Treatment Prob(F)								0.0001		

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

North Carolina State University

Control of *Poa annua* in Dormant Bermudagrass with Fall and Spring Treatments

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Trial Comments