

North Carolina State University

Poa annua Control in Overseeded Bermudagrass

Trial ID: 05-D05
Protocol ID: Study Director: Travis Gannon
Location: Tobacco Road GC Investigator: Fred Yelverton

General Trial Information

Study Director: Travis Gannon **Title:** Research Associate
Affiliation: North Carolina State University
Postal Code: 27695 **E-mail:** travis_gannon@ncsu.edu
Investigator: Fred Yelverton **Title:** Professor
Affiliation: North Carolina State University
Postal Code: 27695 **E-mail:** fred_yelverton@ncsu.edu

Trial Location

City: Sanford **Trial Status:** Completed
State/Prov.: NC
Postal Code: 27332 **Initiation Date:** 9-13-04
Country: USA
Directions:

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: Morgan Stevenson **Country:** USA
Organization: Tobacco Road Golf Course **Phone No:** 919.776.4943
Address 1: 442 Tobacco Road
City: Sanford
State/Prov: NC
Postal Code: 27332

Crop Description

Crop 1: CYNDA Cynodon dactylon BERMUDAGRASS
Variety: Tifway 419
BBCH Scale: BGRM
Crop 2: LOLPE Lolium perenne RYEGRASS, PERENNIAL
Variety: Magnum mixture **Description:** Allaire II, Penguin, Hawkeye
BBCH Scale: BGRM **Planting Date:** 9-29-04
Planting Method: Broadcast **Rate, Unit:** 300 LB/A
Seed Bed: Scalped

Pest Description

Code: POAAN Poa annua
Common Name: Annual bluegrass

Site and Design

Plot Width, Unit: 5 FT **Site Type:** Golf Course Fairway
Plot Length, Unit: 7 FT
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% OM: 0.56 **Texture:** MINERAL
pH: 5.9
CEC: 6.8 **Fert. Level:** GOOD

Moisture Conditions

Overall Moisture Conditions: Irrigated as Needed

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Application Description

	A	B	C	D
Application Date:	9-13-04	10-25-04	11-22-04	12-13-04
Time of Day:	7-10 AM	9-10 AM	7-8 AM	9-10 AM
Application Method:	SPRAY	SPREAD	SPRAY	SPRAY
Application Timing:	SEPT 13	OCT 25	NOV 22	DEC 13
Application Placement:	FOL/SOIL	SOIL	FOLIAR	FOLIAR
Applied By:	T GANNON	T GANNON	T GANNON	T GANNON
Air Temperature, Unit:	70.8 F	62 F	61.0 F	49.7 F
% Relative Humidity:	100	84	100	90
Wind Velocity, Unit:	0.6 MPH	2.4 MPH	0.4 MPH	2.3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	70 F	62 F	60 F	45 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	50	90	100	5

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	CYNDA BGRM	CYNDA BGRM	CYNDA BGRM	CYNDA BGRM
Stage Scale Used:	BBCH	BBCH	MOWED	BBCH
Stage Majority, Percent:	MOWED 100	MOWED 100		MOWED 100
Height, Unit:	0.5 IN	0.5 IN	0.5 IN	0.5 IN
Height Minimum, Maximum:			0.5 0.5	0.5 0.5
Crop 2 Code, BBCH Scale:	LOLPE BGRM	LOLPE BGRM	LOLPE BGRM	LOLPE BGRM
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:	PRE	MOWED 100	1 TILLER 50	2 TILLER 50
Stage Minimum, Percent:		2 LEAF 40	2 LEAF 15	2 LEAF 15
Stage Maximum, Percent:		2 TILLER 40	2 TILLER 15	3 TILLER 15
Height, Unit:		0.5 IN	0.5 IN	0.5 IN
Height Minimum, Maximum:		0.5 0.5	0.5 0.5	0.5 0.5

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	POAAN PRE	POAAN	POAAN	POAAN
Stage Majority, Percent:			4 LEAF 50	4 LEAF 50
Stage Minimum, Percent:			2 LEAF 15	2 LEAF 15
Stage Maximum, Percent:			2 TILL 15	2 TILL 15
Height, Unit:			0.5 IN	0.5 IN
Height Minimum, Maximum:			0.5 0.5	0.5 0.5
Density, Unit:			2 FT2	2 FT2
Coverage, Unit:			10 %	10 %

Application Equipment

	A	B	C	D
Appl. Equipment:	CO2 SPRAY	SHAKER JAR	CO2 SPRAY	CO2 SPRAY
Operating Pressure:	25		25	25
Pressure Unit:	PSI		PSI	PSI
Nozzle Type:	FLAT FAN		FLAT FAN	FLAT FAN
Nozzle Size:	VS8002XR		VS8002XR	VS8002XR
Nozzle Spacing, Unit:	10 INCH		10 INCH	10 INCH
Nozzles/Row:	4		4	4
Boom Length, Unit:	40 INCH		40 INCH	40 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:	32.5		32.5	32.5
Volume Unit:	GPA		GPA	GPA
Propellant:	COMP CO2		COMP CO2	COMP CO2

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								LLOLPE BGRM	LLOLPE BGRM	LLOLPE BGRM	
								Ryegrass, perennial 10-11-04	Ryegrass, perennial 10-25-04	Ryegrass, perennial 11-8-04	
								COVER	COVER	COVER	
								%	%	%	
								28	0	14	
								28 DA-A	42 DA-A	56 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	1	2	3
1	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	31.3 a	27.5 a	48.8 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B			
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
2	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	30.0 a	27.5 a	48.8 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
3	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	30.0 a	28.8 a	48.8 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B			
4	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	31.3 a	30.0 a	48.8 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
5	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	32.5 a	28.8 a	47.5 a
6	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	31.3 a	28.8 a	48.8 a
7	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C	31.3 a	28.8 a	48.8 a
8	PROGRASS	1.5	EC	0.66	GAL/A		NOV 22	C	30.0 a	28.8 a	48.8 a
	PROGRASS	1.5	EC	0.66	GAL/A		DEC 13	D			
9	NONTREATED								31.3 a	31.3 a	50.0 a
LSD (P=.05)								2.53	3.24	1.68	
Standard Deviation								1.73	2.22	1.15	
CV								5.6	7.68	2.37	
Grand Mean								30.97	28.89	48.75	
Bartlett's X2								3.229	3.042	0.106	
P(Bartlett's X2)								0.919	0.881	1.00	
Replicate F								27.308	6.400	31.130	
Replicate Prob(F)								0.0001	0.0024	0.0001	
Treatment F								0.923	1.094	1.174	
Treatment Prob(F)								0.5152	0.4008	0.3544	

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								Lolpe BGRM Ryegrass, perennial 11-22-04 COVER %0 70 DA-A	Lolpe BGRM Ryegrass, perennial 12-13-04 COVER %0 91 DA-A	Lolpe BGRM Ryegrass, perennial 1-4-05 COVER %22 113 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	4	5	6
1	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	48.8 a	60.0 a	71.3 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B			
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
2	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	50.0 a	63.8 a	71.3 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
3	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	48.8 a	60.0 a	68.8 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B			
4	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	48.8 a	61.3 a	72.5 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
5	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	50.0 a	61.3 a	71.3 a
6	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	50.0 a	61.3 a	70.0 a
7	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C	50.0 a	63.8 a	73.8 a
8	PROGRASS	1.5	EC	0.66	GAL/A		NOV 22	C	50.0 a	62.5 a	71.3 a
	PROGRASS	1.5	EC	0.66	GAL/A		DEC 13	D			
9	NONTREATED								50.0 a	62.5 a	72.5 a
LSD (P=.05)								2.08	4.12	3.89	
Standard Deviation								1.42	2.83	2.67	
CV								2.87	4.57	3.74	
Grand Mean								49.58	61.81	71.39	
Bartlett's X2								0.0	9.492	6.392	
P(Bartlett's X2)								0.001*	0.302	0.495	
Replicate F								1.257	25.130	13.659	
Replicate Prob(F)								0.3113	0.0001	0.0001	
Treatment F								0.771	1.000	1.195	
Treatment Prob(F)								0.6311	0.4613	0.3428	

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								LLOLPE BGRM	LLOLPE BGRM	LLOLPE BGRM	
								Ryegrass, perennial 2-1-05	Ryegrass, perennial 3-21-05	Ryegrass, perennial 4-4-05	
								COVER	COVER	COVER	
								%	%	%	
								50	98	112	
								141 DA-A	189 DA-A	203 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	7	8	9
1	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	66.3 a	87.5 a	83.8 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B			
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
2	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	68.8 a	88.8 a	68.8 abc
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
3	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	68.8 a	88.8 a	58.8 bc
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B			
4	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	70.0 a	90.0 a	77.5 ab
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C			
5	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	70.0 a	88.8 a	47.5 c
6	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	66.3 a	86.3 a	51.3 c
7	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C	71.3 a	90.0 a	61.3 bc
8	PROGRASS	1.5	EC	0.66	GAL/A		NOV 22	C	70.0 a	88.8 a	63.3 abc
	PROGRASS	1.5	EC	0.66	GAL/A		DEC 13	D			
9	NONTREATED								70.0 a	87.5 a	48.8 c
LSD (P=.05)								4.12	2.58	21.71	
Standard Deviation								2.83	1.77	14.88	
CV								4.09	2.0	23.88	
Grand Mean								69.03	88.47	62.31	
Bartlett's X2								3.552	2.355	15.883	
P(Bartlett's X2)								0.737	0.884	0.044*	
Replicate F								8.435	12.667	4.183	
Replicate Prob(F)								0.0005	0.0001	0.0162	
Treatment F								1.522	1.889	2.874	
Treatment Prob(F)								0.2018	0.1091	0.0215	

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								LOLPE BGRM Ryegrass, perennial	TURF	TURF	TURF	TURF	
								4-25-05	10-11-04	10-25-04	11-8-04	11-22-04	
								COVER	QUALITY	QUALITY	QUALITY	QUALITY	
								%	1-9	1-9	1-9	1-9	
								133	28	0	14	0	
								224 DA-A	28 DA-A	42 DA-A	56 DA-A	70 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	10	11	12	13	14
1	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	68.8 abc	7.0 a	7.0 a	7.0 a	7.0 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B					
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
2	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	66.3 abc	7.0 a	7.0 a	7.0 a	7.0 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
3	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	60.0 cd	7.0 a	7.0 a	7.0 a	7.0 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B					
4	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	72.5 ab	7.0 a	7.0 a	7.0 a	7.0 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
5	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	61.3 bcd	7.0 a	7.0 a	7.0 a	7.0 a
6	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	53.8 d	7.0 a	7.0 a	7.0 a	7.0 a
7	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C	65.0 a-d	7.0 a	7.0 a	7.0 a	7.0 a
8	PROGRASS	1.5	EC	0.66	GAL/A		NOV 22	C	73.8 a	7.0 a	7.0 a	7.0 a	7.0 a
	PROGRASS	1.5	EC	0.66	GAL/A		DEC 13	D					
9	NONTREATED								58.8 cd	7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)								12.22	0.00	0.00	0.00	0.00	
Standard Deviation								8.37	0.00	0.00	0.00	0.00	
CV								12.99	0.0	0.0	0.0	0.0	
Grand Mean								64.44	7.0	7.0	7.0	7.0	
Bartlett's X2								10.612	0.0	0.0	0.0	0.0	
P(Bartlett's X2)								0.225	
Replicate F								2.405	0.000	0.000	0.000	0.000	
Replicate Prob(F)								0.0923	1.0000	1.0000	1.0000	1.0000	
Treatment F								2.500	0.000	0.000	0.000	0.000	
Treatment Prob(F)								0.0394	1.0000	1.0000	1.0000	1.0000	

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								TURF	TURF	TURF	TURF	TURF	
								12-13-04	1-4-05	2-1-05	3-21-05	4-4-05	
								QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	
								1-9	1-9	1-9	1-9	1-9	
								0	22	50	98	112	
								91 DA-A	113 DA-A	141 DA-A	189 DA-A	203 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	15	16	17	18	19
1	REVOLVER	0.19	SL	0.4	FL OZ/1000		SEPT 13	A	7.0 a	6.9 a	6.0 a	7.0 a	6.9 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B					
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
2	REVOLVER	0.19	SL	0.4	FL OZ/1000		SEPT 13	A	7.0 a	6.8 a	6.0 a	6.9 a	6.5 ab
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
3	REVOLVER	0.19	SL	0.4	FL OZ/1000		SEPT 13	A	7.0 a	6.9 a	6.0 a	6.9 a	6.4 ab
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B					
4	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	7.0 a	7.0 a	6.0 a	7.0 a	6.6 ab
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
5	REVOLVER	0.19	SL	0.4	FL OZ/1000		SEPT 13	A	7.0 a	6.9 a	6.0 a	6.9 a	6.0 b
6	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	7.0 a	7.0 a	6.0 a	6.6 b	6.0 b
7	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C	7.0 a	7.0 a	6.0 a	7.0 a	6.4 ab
8	PROGRASS	1.5	EC	0.66	GAL/A		NOV 22	C	7.0 a	6.9 a	6.0 a	7.0 a	7.0 a
	PROGRASS	1.5	EC	0.66	GAL/A		DEC 13	D					
9	NONTREATED								7.0 a	7.0 a	6.0 a	6.6 b	6.0 b
LSD (P=.05)								0.00	0.26	0.00	0.23	0.67	
Standard Deviation								0.00	0.18	0.00	0.16	0.46	
CV								0.0	2.56	0.0	2.27	7.19	
Grand Mean								7.0	6.92	6.0	6.88	6.42	
Bartlett's X2								0.0	2.729	0.0	0.0	10.142	
P(Bartlett's X2)								.	0.604	.	0.001*	0.181	
Replicate F								0.000	8.000	0.000	4.857	1.783	
Replicate Prob(F)								1.0000	0.0007	1.0000	0.0088	0.1774	
Treatment F								0.000	1.000	0.000	3.857	2.641	
Treatment Prob(F)								1.0000	0.4613	1.0000	0.0048	0.0312	

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								TURF	POAAN	POAAN	POAAN	POAAN	
Pest Code													
Crop Code													
BBCH Scale													
Crop Name													
Rating Date								4-25-05	4-4-05	4-25-05	4-4-05	4-25-05	
Rating Data Type								QUALITY	COVER	COVER	CONTROL	CONTROL	
Rating Unit								1-9	%	%	%	%	
Days After First/Last Applic.								133	112	133	112	133	
Trt-Eval Interval								224 DA-A	203 DA-A	224 DA-A	203 DA-A	224 DA-A	
ARM Action Codes											T2	T3	
Number of Decimals											1	1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate Unit	Growth Stage	Appl Code	20	21	22	23	24
1	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	5.0 a	17.5 c	31.3 a	65.9 a	26.6 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B					
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
2	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	5.0 a	31.3 abc	33.8 a	39.1 bcd	18.3 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
3	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	5.0 a	41.3 ab	40.0 a	23.8 de	14.5 a
	RONSTAR	2	G	1.5	LbA/A		OCT 25	B					
4	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	5.3 a	22.5 bc	23.0 a	56.1 ab	44.3 a
	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C					
5	REVOLVER	0.19	SL	0.4	FL OZ/1000	FT2	SEPT 13	A	5.5 a	52.5 a	36.3 a	8.6 e	16.7 a
6	RONSTAR	2	G	1.5	LbA/A		OCT 25	B	5.0 a	48.8 a	46.3 a	15.9 de	7.6 a
7	PROGRASS	1.5	EC	1	GAL/A		NOV 22	C	5.0 a	38.8 abc	35.0 a	24.5 cde	15.3 a
8	PROGRASS	1.5	EC	0.66	GAL/A		NOV 22	C	5.3 a	36.8 abc	26.3 a	49.7 abc	36.4 a
	PROGRASS	1.5	EC	0.66	GAL/A		DEC 13	D					
9	NONTREATED								5.0 a	51.3 a	41.3 a	0.0 e	0.0 a
LSD (P=.05)								0.53	21.93	14.17	25.22	26.51	
Standard Deviation								0.36	15.03	9.71	17.28	18.16	
CV								7.11	39.72	27.91	54.86	90.98	
Grand Mean								5.11	37.83	34.78	31.5	19.96	
Bartlett's X2								2.013	15.825	10.882	7.123	12.231	
P(Bartlett's X2)								0.365	0.045*	0.208	0.416	0.093	
Replicate F								3.368	3.952	2.789	4.556	1.537	
Replicate Prob(F)								0.0351	0.0201	0.0623	0.0116	0.2305	
Treatment F								1.000	2.702	2.270	6.775	2.311	
Treatment Prob(F)								0.4613	0.0283	0.0576	0.0001	0.0538	

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 23: T2 = (100-(((21)/51.3)*100))
 Column 24: T3 = (100-(((22)/41.3)*100))

Trial Comments