

North Carolina State University

Fall Applications of F6875 for Preemergence Control of Annual Bluegrass in a Nonoverseeded Bermudagrass Fairway

Trial ID: 07-D06 Protocol ID: 07-D06
Location: Thorndale Country Club Study Director: Travis Gannon
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: Oxford **Trial Status:** Completed
State/Prov.: NC
Postal Code: 27565 **Initiation Date:** 08-28-06
Country: USA

Cooperator/Landowner

Cooperator: Allen Abcock **Country:** USA
Organization: Thorndale Country Club **Phone No:** 910.693.7404
Address 1: 105 W Quail Ridge Road
City: Oxford
State/Prov: NC
Postal Code: 27565

Crop Description

Crop 1: CYNDA Cynodon dactylon **Description:** Bermuda grass
Variety: Common
BBCH Scale: BGRM

Pest Description

Pest 1 Type: W **Code:** POAAN Poa annua
Common Name: Annual bluegrass

Site and Design

Plot Width, Unit: 4 FT **Site Type:** Golf Course Fairway
Plot Length, Unit: 10 FT **Tillage Type:** N/A
Replications: 4 **Study Design:** Randomized Complete Block

Soil Description

% OM: 0.6 **Texture:** Mineral
pH: 5.4
CEC: 11.2 **Fert. Level:** Low

Application Description

	A
Application Date:	08-28-06
Time of Day:	7-8 AM
Application Method:	SPRY/SHAK
Application Timing:	AUGUST 28
Application Placement:	FOL/SOIL
Applied By:	T GANNON
Air Temperature, Unit:	78.6 F
% Relative Humidity:	48
Wind Velocity, Unit:	1.1 MPH
Dew Presence (Y/N):	Y
Soil Temperature, Unit:	77 F
Soil Moisture:	DRY
% Cloud Cover:	25

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Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CYNDA BGRM
Stage Scale Used:	MOWED
Height, Unit:	1 IN
Height Minimum, Maximum:	1 1

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	POAAN W
Stage Majority, Percent:	PRE 100

Application Equipment

	A
Appl. Equipment:	SPRY/SHAKER
Operating Pressure, Unit:	27 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	VS8002XR
Nozzle Spacing, Unit:	10 INCH
Nozzles/Row:	4
Boom Length, Unit:	40 INCH
Boom Height, Unit:	10 INCH
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	32.5 GPA
Propellant:	COMP CO2
Tank Mix (Y/N):	Y

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Location: Thorndale Country Club Study Director: Travis Gannon

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Pest Code					POAAN						
Crop Code											
BBCH Scale	CYNDA	CYNDA	CYNDA	CYNDA							
Crop Name	BGRM	BGRM	BGRM	BGRM							
Rating Date	Bermuda gra>	Bermuda gra>	Bermuda gra>	Bermuda gra>	11-15-06						
Rating Data Type	09-02-06	09-13-06	09-26-06	10-11-06	CONTROL						
Rating Unit	PHYTO	PHYTO	PHYTO	PHYTO	%						
Days After First/Last Applic.	%	%	%	%	%						
Trt-Eval Interval	5 5	16 16	29 29	44 44	79 79						
	5 DA-A	16 DA-A	29 DA-A	44 DA-A	79 DA-A						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code					
1	Dismiss	4 F		0.25 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
2	Dismiss	4 F		0.375 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
3	F6875	4 SC		0.75 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
4	F6875	4 SC		1.13 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
5	F6875 Granular	0.3 G		0.75 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
6	F6875 Granular	0.3 G		1.13 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
7	Barricade	65 WG		0.5 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
8	Barricade	65 WG		0.75 lb ai/a	AUGUST28 A		0.0 a	0.0 a	0.0 a	0.0 a	
9	Nontreated						0.0 a	0.0 a	0.0 a	0.0 a	
LSD (P=.05)							0.00	0.00	0.00	0.00	.
Standard Deviation							0.00	0.00	0.00	0.00	.
CV							0.0	0.0	0.0	0.0	.
Grand Mean							0.0	0.0	0.0	0.0	.
Bartlett's X2							0.0	0.0	0.0	0.0	.
P(Bartlett's X2)						
Replicate F							0.000	0.000	0.000	0.000	
Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000	
Treatment F							0.000	0.000	0.000	0.000	
Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000	

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.

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Pest Code							POAAN	POAAN	POAAN	POAAN	POAAN	
Crop Code												
BBCH Scale												
Crop Name												
Rating Date							12-12-06	02-12-07	03-01-07	03-07-07	03-20-07	
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit							%	%	%	%	%	
Days After First/Last Applic.							106 106	168 168	185 185	191 191	204 204	
Trt-Eval Interval							106 DA-A	168 DA-A	185 DA-A	191 DA-A	204 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Rate Unit	Apppl Code					
1	Dismiss	4	F	0.25	lb ai/a	AUGUST28 A		0.0 d	0.0 e	0.0 d	0.0 d	
2	Dismiss	4	F	0.375	lb ai/a	AUGUST28 A		0.0 d	0.0 e	0.0 d	6.3 d	
3	F6875	4	SC	0.75	lb ai/a	AUGUST28 A		66.3 c	60.0 d	57.5 c	73.3 c	
4	F6875	4	SC	1.13	lb ai/a	AUGUST28 A		73.8 c	70.0 cd	70.0 bc	80.0 bc	
5	F6875 Granular	0.3	G	0.75	lb ai/a	AUGUST28 A		91.3 ab	100.0 a	100.0 a	100.0 a	
6	F6875 Granular	0.3	G	1.13	lb ai/a	AUGUST28 A		100.0 a	100.0 a	100.0 a	100.0 a	
7	Barricade	65	WG	0.5	lb ai/a	AUGUST28 A		78.8 bc	83.8 bc	85.0 ab	87.5 abc	
8	Barricade	65	WG	0.75	lb ai/a	AUGUST28 A		93.8 ab	93.8 ab	92.5 a	91.3 ab	
9	Nontreated							0.0 d	0.0 e	0.0 d	0.0 d	
LSD (P=.05)							.	15.42	15.50	15.04	17.30	
Standard Deviation							.	10.57	10.62	10.31	11.85	
CV							.	18.88	18.83	18.37	19.82	
Grand Mean							.	55.97	56.39	56.11	59.81	
Bartlett's X2							.	1.622	2.346	2.189	4.342	
P(Bartlett's X2)							.	0.805	0.504	0.534	0.362	
Replicate F								1.233	0.681	0.784	0.608	
Replicate Prob(F)								0.3194	0.5721	0.5144	0.6163	
Treatment F								66.923	69.536	73.654	55.490	
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	

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.

Trial Comments

11-15-06 - Trial area was remarked and treatments were applied; however, are not able to evaluate annual bluegrass control at this time.

12-12-06 - Trial area was remarked and treatments were applied; however, are not able to evaluate annual bluegrass control at this time.

1-4-07 - Trial area was remarked; however, we are not able to evaluate annual bluegrass control at this time.