

University of GA Coop Ext Service

'Tifway' Bermudagrass Tolerance to Fluroxypyr-Based Granule Products

Trial ID: Turf37-03

Study Dir.: Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Study Director: Bill Nutt

Title: ARCI

Affiliation: UGA CAES

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA CAES

TRIAL LOCATION

City: Griffin

Trial Status: ARCHIVED

State/Prov.: GA

Initiation Date: 7-3-2003

COOPERATOR/LANDOWNER

Cooperator: Darin Lickfeldt

Org.: DowAgro Sciences

CROP DESCRIPTION

Crop 1: CYNDA Bermudagrass/*Cynodon dactylon* Variety: Tifway

Perennial Age: 20 years

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 10 FT Reps: 3

Site Type: Simulated golf course fairway Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: Site mowed 3 times per week at 0.5 inch with reel mower.

Irrigated as needed.

APPLICATION DESCRIPTION

	A
Application Date:	7-3-2003
Time of Day:	9:30 am
Application Method:	SPREAD
Application Timing:	*PCPEUN
Applic. Placement:	FOLIAR
Air Temp., Unit:	77 F
% Relative Humidity:	69
Wind Velocity, Unit:	0.5 MPH
Dew Presence (Y/N):	Y
Soil Temp., Unit:	74 F
Soil Moisture:	EXCESSIVE
% Cloud Cover:	0

*PCPEUN - Post Crop/Pest Undetermined

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA Growth
Stage Scale:	Active
Height, Unit:	0.5 inch

APPLICATION EQUIPMENT

	A
Appl. Equipment:	By Hand

Trt No	Treatment Application Comment
1-10	7-3-03; All treatments applied by hand to Bermudagrass wet with dew.
1-10	Site not irrigated after application.
1-10	No rainfall occurred on day of application.

Trial Comments

7-29-03
1 lb N/1000 sq .ft. as 34-0-0 fertilizer broadcast over entire test area.

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							CYNDA	CYNDA	CYNDA	
							Foliar	Foliar	Foliar	
							Injury	Injury	Injury	
							0-10	0-10	0-10	
							7-9-2003	7-14-2003	7-28-2003	
							6 DA-A	11 DA-A	25 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	LEB01-03	0.57	GR			ACTIVE	A	4.0 ab	6.7 a	4.7 a
2	LEB02-03	0.57	GR	350 lb/a		ACTIVE	A	3.8 ab	6.2 a	4.2 ab
3	LEB03-03	1.0	GR	350 lb/a		ACTIVE	A	3.3 ab	6.2 a	2.5 cd
4	LEB04-03	0.79	GR	350 lb/a		ACTIVE	A	3.0 bc	3.8 b	1.8 de
5	LEB05-03	0.86	GR	350 lb/a		ACTIVE	A	3.5 ab	6.2 a	3.2 bc
6	LEB06-03	0.93	GR	350 lb/a		ACTIVE	A	3.7 ab	5.8 a	3.3 bc
7	LEB07-03	1.0	GR	350 lb/a		ACTIVE	A	4.2 a	6.3 a	4.0 ab
8	XDE-638	0.14	GR	90 lb/a		ACTIVE	A	0.7 d	0.0 d	0.0 f
9	CONFRONT/FERT	0.68	GR	314 lb/a		ACTIVE	A	2.0 c	2.8 c	1.3 e
10	FERTILIZER BLANK 18-3-12		GR	350 lb/a		ACTIVE	A	0.0 d	0.0 d	0.0 f
11	UNTREATED							0.0 d	0.0 d	0.0 f
LSD (P=.05)							1.01	0.97	1.03	
Standard Deviation							0.60	0.57	0.60	
CV							23.25	14.27	26.53	

							CYNDA	CYNDA	
							Foliar	Foliar	
							Injury	Density	
							0-10	0-100	
							8-21-2003	8-21-2003	
							49 DA-A	49 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	LEB01-03	0.57	GR			ACTIVE	A	0 a	88 b
2	LEB02-03	0.57	GR	350 lb/a		ACTIVE	A	0 a	82 c
3	LEB03-03	1.0	GR	350 lb/a		ACTIVE	A	0 a	98 a
4	LEB04-03	0.79	GR	350 lb/a		ACTIVE	A	0 a	98 a
5	LEB05-03	0.86	GR	350 lb/a		ACTIVE	A	0 a	95 a
6	LEB06-03	0.93	GR	350 lb/a		ACTIVE	A	0 a	100 a
7	LEB07-03	1.0	GR	350 lb/a		ACTIVE	A	0 a	95 a
8	XDE-638	0.14	GR	90 lb/a		ACTIVE	A	0 a	100 a
9	CONFRONT/FERT	0.68	GR	314 lb/a		ACTIVE	A	0 a	98 a
10	FERTILIZER BLANK 18-3-12		GR	350 lb/a		ACTIVE	A	0 a	100 a
11	UNTREATED							0 a	100 a
LSD (P=.05)							0.0	5.3	
Standard Deviation							0.0	3.1	
CV							0.0	3.27	

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