

University of GA Coop Ext Service

"Clumpy" Perennial Ryegrass Control

Trial ID: Turf18-03

Study Dir.: Boyd & Murphy

Location: GA/AR

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

Postal Code: 30223

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA CAES

Postal Code: 30223

TRIAL LOCATION

City: Griffin

Trial Status: ARCHIVED

State/Prov.: GA

Initiation Date: 4-4-2003

Planned Completion Date: 7-3-2003

COOPERATOR/LANDOWNER

Cooperator: Mel Grove

Org: ISK BioSciences

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	LOLPE	CLUMPY PERENNIAL RYEGRASS	<i>LOLIUM PERENNE</i>

Crop: No turfgrass present, fallow site with volunteer, perennial ryegrass clumps

SITE AND DESIGN

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

Site Type: fallow area Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: Old perennial ryegrass area - would be considered rough turf.

No desirable turfgrass present. Irrigated site. Mowed at 2.0 inches once per week.

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APPLICATION DESCRIPTION

	A
Application Date:	4-4-2003
Time of Day:	11:00 AM
Application Method:	Broadcast
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	74 F
% Relative Humidity:	58
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	68 F
Soil Moisture:	Fair
% Cloud Cover:	30

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LOLPE 2-6" Dia
Stage Scale:	2-3" Hght
Density, Unit:	60 %

APPLICATION EQUIPMENT

	A
Appl. Equipment:	Backpack
Operating Pressure:	26 psi
Nozzle Type:	Flat fan
Nozzle Size:	8004
Nozzle Spacing, Unit:	20 inch
Boom Length, Unit:	5 feet
Boom Height, Unit:	18 inch
Ground Speed, Unit:	3 mph
Carrier:	Water
Spray Volume, Unit:	25 gpa
Propellant:	CO2
Tank Mix (Y/N):	N

Trial Comments

DENSITY RATINGS FOR UNTREATED CONTROL CHECK

	101	206	303
LOLPE,4-11-03	30	45	.
LOLPE,4-18-03	30	45	50

5-14-03: No herbicide injured bermudagrass on this date (40 DA-A).

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Weed Code					LOLPE	LOLPE	LOLPE	LOLPE
Rating Data Type					Control	Control	Control	Control
Rating Unit					0-100	0-100	0-100	0-100
Rating Date					4-11-2003	4-18-2003	4-30-2003	5-7-2003
Trt-Eval Interval					7 DA-A	14 DA-A	26 DA-A	33 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
1	UTC							0 a
2	Revolver	0.19	SC	17.4 fl oz/a	active	A		12 a
3	Revolver	0.19	SC	26.2 fl oz/a	active	A		25 ab
4	Manor Nonionic Surfactant	60	DF	1.0 oz wt/a 0.25 % v/v	active	A		22 ab
5	Flazasulfuron Nonionic Surfactant	25	WG	2.25 oz wt/a 0.25 % v/v	active	A		37 ab
6	Flazasulfuron Nonionic Surfactant	25	WG	3.0 oz wt/a 0.25 % v/v	active	A		30 abc
7	TranXit Nonionic Surfactant	25	WG	2.0 oz wt/a 0.25 % v/v	active	A		43 cde
8	Monument Nonionic Surfactant	75	WG	0.33 oz wt/a 0.25 % v/v	active	A		10 a
9	Monument Nonionic Surfactant	75	WG	0.56 oz wt/a 0.25 % v/v	active	A		20 ab
10	Kerb	50	WP	3.0 lb/a	active	A		35 ab
11	Roundup Pro	3	SL	32 fl oz/a	active	A		45 a
	LSD (P=.05)							27 bc
	Standard Deviation							42 de
	CV							42 de
								12.0
								7.1
								78.98
								12.8
								7.5
								40.98
								15.0
								8.8
								30.94
								19.9
								11.7
								25.15

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

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Weed Code							LOLPE	LOLPE	LOLPE	CYNDA	
Crop Code							Control	Control	Control	Injury	
Rating Data Type							0-100	0-100	0-100	0-100	
Rating Unit							5-14-2003	5-27-2003	7-3-2003	5-7-2003	
Rating Date							40 DA-A	53 DA-A	90 DA-A	33 DA-A	
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	UTC							0 e	0 e	0 d	0 a
2	Revolver	0.19	SC	17.4 fl oz/a		active A		43 cd	27 de	17 bcd	0 a
3	Revolver	0.19	SC	26.2 fl oz/a		active A		68 abc	47 bcd	28 bcd	0 a
4	Manor Nonionic Surfactant	60	DF	1.0 oz wt/a		active A		50 bcd	50 bcd	45 abc	0 a
				0.25 % v/v		active A					
5	Flazasulfuron Nonionic Surfactant	25	WG	2.25 oz wt/a		active A		53 bcd	57 abc	52 ab	0 a
				0.25 % v/v		active A					
6	Flazasulfuron Nonionic Surfactant	25	WG	3.0 oz wt/a		active A		73 ab	68 ab	68 a	0 a
				0.25 % v/v		active A					
7	TranXit Nonionic Surfactant	25	WG	2.0 oz wt/a		active A		47 bcd	48 bcd	20 bcd	0 a
				0.25 % v/v		active A					
8	Monument Nonionic Surfactant	75	WG	0.33 oz wt/a		active A		53 bcd	40 cd	25 bcd	0 a
				0.25 % v/v		active A					
9	Monument Nonionic Surfactant	75	WG	0.56 oz wt/a		active A		88 a	83 a	68 a	0 a
				0.25 % v/v		active A					
10	Kerb	50	WP	3.0 lb/a		active A		30 d	10 e	7 d	0 a
11	Roundup Pro	3	SL	32 fl oz/a		active A		30 d	27 de	13 cd	0 a
LSD (P=.05)							26.1	24.8	32.7	0.0	
Standard Deviation							15.3	14.6	19.2	0.0	
CV							31.4	35.11	61.6	0.0	

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