

University of GA Coop Ext Service

Efficacy of Riverdale Herbicides for Postemergence Broadleaf Weed Control in Tall Fescue

Trial ID: Turf24-03

Study Dir.: Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

TRIAL LOCATION

City: Research Garden, Griffin

Trial Status: ARCHIVED

State/Prov.: GA

Initiation Date: 4-3-2003

COOPERATOR/LANDOWNER

Cooperator: Bob Stover

Org: Consultant

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	TRFRE	CLOVER, WHITE	<i>TRIFOLIUM REPENS L.</i>
2.	TAROF	DANDELION, COMMON	<i>TARAXACUM OFFICINALE WEBER IN WIGGERS</i>
3.	PLALA	PLANTAIN, BUCKHORN	<i>PLANTAGO LANCEOLATA L.</i>

Crop 1: FESAR FESCUE, TALL/*Festuca arundinacea* Variety: Not known Perennial Age: 20 yrs

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 10 FT Reps: 4

Site Type: Home Lawn

Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: Site mowed at 3.0 inches with rotary mower.

APPLICATION DESCRIPTION

	A
Application Date:	4-3-2003
Time of Day:	11:00 Am
Application Method:	Broadcast
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	71 F
% Relative Humidity:	55
Wind Velocity, Unit:	4.0 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	61 F
Soil Moisture:	Good
% Cloud Cover:	10

University of GA Coop Ext Service

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FESAR Active
Height, Unit:	4 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	TRFRE Active Growth
Stage Scale:	3"Hght
Density, Unit:	10 %
Weed 2 Code, Stage:	TAROF Flower
Stage Scale:	4"Hght
Density, Unit:	5 %
Weed 3 Code, Stage:	PLALA 4"Dia
Stage Scale:	4"Hght
Density, Unit:	20 %

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

4-30-03. 5-12-03
No Fescue injury observed.

PLOT DENSITY RATINGS FOR CONTROL CHECK

	<u>101</u>	<u>213</u>	<u>311</u>	<u>412</u>
TRFRE, 4-11-03	10	3	20	15
TAROF	3	1	1	1
PLALA	3	25	20	20

University of GA Coop Ext Service

Efficacy of Riverdale Herbicides for Postemergence Broadleaf Weed Control in Tall Fescue

Trial ID: Turf24-03

Study Dir. : Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

Weed Code		TRFRE	TRFRE	TRFRE	TRFRE	TAROF					
Crop Code											
Rating Data Type		Control	Control	Control	Control	Control					
Rating Unit		0-100	0-100	0-100	0-100	0-100					
Rating Date		4-11-2003	4-18-2003	4-30-2003	5-12-2003	4-11-2003					
Trt-Eval Interval		8 DA-A	15 DA-A	27 DA-A	39 DA-A	8 DA-A					
Trt No.	Treatment Name	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	Untreated Check						0 d	0 b	0 b	0 d	0 d
2	RIV 01-03	SL	2.5 pt/a		active	A	55 bc	85 a	95 a	100 a	51 bc
3	RIV 02-03	SL	2.5 pt/a		active	A	55 bc	88 a	98 a	100 ab	57 bc
4	RIV 03-03	SL	2.5 pt/a		active	A	60 ab	90 a	97 a	99 abc	50 c
5	RIV 04-03	SL	3.5 pt/a		active	A	53 bc	87 a	95 a	98 c	57 bc
6	RIV 05-03	SL	2.5 pt/a		active	A	60 ab	89 a	95 a	99 abc	60 b
7	RIV 06-03	SL	3.5 pt/a		active	A	59 abc	86 a	98 a	100 abc	58 bc
8	RIV 07-03	SL	2.5 pt/a		active	A	60 ab	90 a	97 a	100 abc	58 bc
9	RIV 09-03	SL	2.0 pt/a		active	A	54 bc	87 a	90 a	100 abc	53 bc
10	RIV 10-03	SL	2.5 pt/a		active	A	60 ab	86 a	97 a	100 abc	59 bc
11	RIV 11-03	SL	4.0 pt/a		active	A	65 a	91 a	90 a	98 bc	75 a
12	Trimec Southern	SL	2.0 pt/a		active	A	53 c	88 a	96 a	100 ab	57 bc
13	Trimec Southern	SL	3.0 pt/a		active	A	55 bc	88 a	98 a	100 ab	52 bc
14	Trimec Classic	SL	3.25 pt/a		active	A	57 bc	87 a	94 a	100 abc	53 bc
15	Trimec Classic	SL	4.0 pt/a		active	A	55 bc	87 a	94 a	100 abc	60 b
LSD (P=.05)							6.2	7.9	6.2	1.7	8.5
Standard Deviation							4.3	5.4	4.3	1.2	5.8
CV							8.1	6.65	4.83	1.3	10.97

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

University of GA Coop Ext Service

Weed Code							TAROF	TAROF	TAROF	PLALA	PLALA
Crop Code											
Rating Data Type							Control	Control	Control	Control	Control
Rating Unit							0-100	0-100	0-100	0-100	0-100
Rating Date							4-18-2003	4-30-2003	5-12-2003	4-11-2003	4-18-2003
Trt-Eval Interval							15 DA-A	27 DA-A	39 DA-A	8 DA-A	15 DA-A
Trt No.	Treatment Name	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	Untreated Check						0 c	0 c	0 c	0 c	0 c
2	RIV 01-03	SL	2.5 pt/a		active	A	90 b	100 a	100 a	50 b	63 b
3	RIV 02-03	SL	2.5 pt/a		active	A	90 b	100 a	100 a	55 b	61 b
4	RIV 03-03	SL	2.5 pt/a		active	A	90 b	98 a	99 b	53 b	63 b
5	RIV 04-03	SL	3.5 pt/a		active	A	90 b	100 a	100 a	56 b	63 b
6	RIV 05-03	SL	2.5 pt/a		active	A	90 b	97 a	100 a	53 b	63 b
7	RIV 06-03	SL	3.5 pt/a		active	A	90 b	100 a	100 a	54 b	65 b
8	RIV 07-03	SL	2.5 pt/a		active	A	90 b	98 a	100 a	55 b	58 b
9	RIV 09-03	SL	2.0 pt/a		active	A	90 b	95 a	100 a	54 b	58 b
10	RIV 10-03	SL	2.5 pt/a		active	A	90 b	99 a	100 a	58 b	58 b
11	RIV 11-03	SL	4.0 pt/a		active	A	95 a	90 b	100 a	68 a	85 a
12	Trimec Southern	SL	2.0 pt/a		active	A	90 b	98 a	100 a	50 b	55 b
13	Trimec Southern	SL	3.0 pt/a		active	A	90 b	98 a	100 a	51 b	58 b
14	Trimec Classic	SL	3.25 pt/a		active	A	90 b	95 a	100 a	54 b	63 b
15	Trimec Classic	SL	4.0 pt/a		active	A	90 b	97 a	100 a	56 b	63 b
LSD (P=.05)							0.0	4.6	0.4	8.7	10.3
Standard Deviation							0.0	3.2	0.3	6.1	7.2
CV							0.0	3.52	0.28	11.92	12.37

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

University of GA Coop Ext Service

Weed Code							PLALA	PLALA	FESAR	FESAR
Crop Code							Control	Control	Injury	Injury
Rating Data Type							0-100	0-100	0-100	0-100
Rating Unit							4-30-2003	5-12-2003	4-11-2003	4-18-2003
Rating Date							27 DA-A	39 DA-A	8 DA-A	15 DA-A
Trt-Eval Interval										
Trt No.	Treatment Name	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	Untreated Check						0 c	0 b	0 b	0 a
2	RIV 01-03	SL	2.5 pt/a		active	A	84 ab	99 a	0 b	0 a
3	RIV 02-03	SL	2.5 pt/a		active	A	86 ab	100 a	0 b	0 a
4	RIV 03-03	SL	2.5 pt/a		active	A	78 b	100 a	0 b	0 a
5	RIV 04-03	SL	3.5 pt/a		active	A	81 b	99 a	0 b	0 a
6	RIV 05-03	SL	2.5 pt/a		active	A	76 b	96 a	0 b	0 a
7	RIV 06-03	SL	3.5 pt/a		active	A	79 b	95 a	0 b	0 a
8	RIV 07-03	SL	2.5 pt/a		active	A	81 b	100 a	0 b	0 a
9	RIV 09-03	SL	2.0 pt/a		active	A	78 b	97 a	0 b	0 a
10	RIV 10-03	SL	2.5 pt/a		active	A	80 b	100 a	0 b	0 a
11	RIV 11-03	SL	4.0 pt/a		active	A	93 a	99 a	14 a	0 a
12	Trimec Southern	SL	2.0 pt/a		active	A	78 b	97 a	0 b	0 a
13	Trimec Southern	SL	3.0 pt/a		active	A	79 b	100 a	0 b	0 a
14	Trimec Classic	SL	3.25 pt/a		active	A	80 b	100 a	0 b	0 a
15	Trimec Classic	SL	4.0 pt/a		active	A	80 b	100 a	0 b	0 a
LSD (P=.05)							8.5	5.1	0.9	0.0
Standard Deviation							6.0	3.6	0.6	0.0
CV							7.92	3.87	70.42	0.0

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