

# University of GA Coop Ext Service

Effect of Flazasulfuron on Spring Transition of Bermudagrass Overseeded with Poa Trivialis

Trial ID: Turf8-03

Study Dir.: Bill Nutt

Location: GRIFFIN, GA

Investigator: Tim R Murphy

## GENERAL TRIAL INFORMATION

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

## TRIAL LOCATION

City: Griffin

Trial Status: ONE-YEAR/FINAL

State/Prov.: GA

Postal Code: 30223

## COOPERATOR/LANDOWNER

Cooperator: Mel Grove

Org: ISK BioSciences

City: Houston

State/Prov: TX

**Objective:** Evaluate several rates of flazasulfuron 25DG compared to commercial standard for removal of overseeded *Poa annua* and *Poa trivialis* from established bermudagrass or zoysiagrass turf.

## CROP DESCRIPTION

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

**Crop 2:** POATR Bluegrass, Roughstalk/*Poa trivialis* **Variety:** Winterplay  
Pennington seed

PURE SEED	VARIEY KIND	GERM	TOTAL	ORIGIN
98.70%	Winterplay Rough Bluegrass	85%	85%	OR
INERT 1.00%				
OTHER CROP 0.30%				
WEED SEED 0.00%				

10-9-02 Overseeded *Poa trivialis* at 5 lb/1000 sq.ft. then dragged in.

## SITE AND DESIGN

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

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

Trial Initiation Comments: Test site is 30' x 40'. Seed area is 40' x 50'.

4-15-03; 5 foot wide plots on 8 foot centers.

## MAINTENANCE

Field Prep./Maintenance: Irrigated site. Maintained at 0.625 inch.

## APPLICATION DESCRIPTION

	A
Application Date:	4-15-2003
Time of Day:	1:30 pm
Application Method:	Broadcast
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	82 F
% Relative Humidity:	35
Wind Velocity, Unit:	1.5 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	71 F
Soil Moisture:	Fair
% Cloud Cover:	10

## CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA Green
Stage Scale:	30%
Height, Unit:	0.75 inch
Crop 2 Code, Stage:	POATR Active Growth
Stage Scale:	1"Hght
Height, Unit:	90 %

## 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:	19 inch
Ground Speed, Unit:	3 mph
Carrier:	Water
Spray Volume, Unit:	25 gpa
Propellant:	CO2
Tank Mix (Y/N):	N

## Trial Comments

11-7-02

Broadcast 1 lb N/1000 sq ft as 34-0-0 fertilizer over entire test area.

Sprayed entire area for winter broadleaf weeds - Used Trimec Classic at 3.25 pints/A and 0.25% v/v Non Ionic Surfactant.

3-25-03

Broadcast 1 lb N/1000 sq ft as 10-10-10 fertilizer over entire test area.

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Trial ID: Turf8-03		Study Dir.: Bill Nutt									
Location: GRIFFIN, GA		Investigator: Tim R Murphy									
Weed Code											
Crop Code											
Rating Data Type							Injury	Injury	Density	Density	
Rating Unit							0-100	0-100	0-100	0-100	
Rating Date							4-21-2003	4-28-2003	4-28-2003	5-12-2003	
Trt-Eval Interval							6 DA-A	13 DA-A	13 DA-A	27 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg*	Appl Code				
1	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			51 b	63 b	50 c	73 ab
2	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			59 a	69 a	45 d	63 b
3	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			61 a	70 a	41 d	38 c
4	Manor Chem-Nut 80/20 NIS	60	DG	0.5 oz wt/a 0.25 %v/v	50% Ber A 50% Ber A			48 b	45 c	61 b	83 a
5	UNTREATED							0 c	0 d	69 a	80 a
LSD (P=.05)								4.2	3.7	4.3	10.5
Standard Deviation								2.7	2.4	2.8	6.8
CV								6.17	4.9	5.21	10.2

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

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Trial ID: Turf8-03		Study Dir.: Bill Nutt									
Location: GRIFFIN, GA		Investigator: Tim R Murphy									
Weed Code											
Crop Code											
Rating Data Type							Density	Density	Injury	Injury	
Rating Unit							0-100	0-100	0-100	0-100	
Rating Date							5-27-2003	6-20-2003	4-21-2003	4-28-2003	
Trt-Eval Interval							42 DA-A	66 DA-A	6 DA-A	13 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			31 a	11 ab	0 a	18 b
2	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			36 a	8 b	0 a	21 ab
3	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			33 a	9 b	0 a	25 a
4	Manor Chem-Nut 80/20 NIS	60	DG	0.5 oz wt/a 0.25 %v/v	50% Ber A 50% Ber A			29 a	16 ab	0 a	0 c
5	UNTREATED							28 a	19 a	0 a	0 c
LSD (P=.05)								9.6	8.3	0.0	4.0
Standard Deviation								6.2	5.4	0.0	2.6
CV								19.87	42.64	0.0	20.25

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

## University of GA Coop Ext Service

Weed Code								CYNDA	CYNDA	CYNDA	Turf
Crop Code								Density	Density	Density	Quality
Rating Data Type								0-100	0-100	0-100	0-10
Rating Unit											
Rating Date								5-12-2003	5-27-2003	6-20-2003	4-28-2003
Trt-Eval Interval								27 DA-A	42 DA-A	66 DA-A	13 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			20 b	21 b	39 bc	4.0 c
2	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			16 b	26 b	43 ab	3.5 cd
3	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			33 a	35 a	53 a	3.0 d
4	Manor Chem-Nut 80/20 NIS	60	DG	0.5 oz wt/a 0.25 %v/v	50% Ber A 50% Ber A			16 b	21 b	33 bc	7.0 b
5	UNTREATED							18 b	20 b	26 c	8.6 a
LSD (P=.05)								12.0	7.3	12.6	0.59
Standard Deviation								7.8	4.8	8.2	0.38
CV								38.11	19.25	21.17	7.31
Grand Mean								20.5	24.75	38.5	5.23

Weed Code								Turf	Turf	Turf
Crop Code								Quality	Quality	Quality
Rating Data Type								0-10	0-10	0-10
Rating Unit										
Rating Date								5-12-2003	5-27-2003	6-20-2003
Trt-Eval Interval								27 DA-A	42 DA-A	66 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	1.5 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			6.1 a	3.9 b	4.5 ab
2	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	2.25 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			4.3 b	4.3 ab	4.8 ab
3	FLAZASULFURON Chem-Nut 80/20 NIS	25	DG	3 oz wt/a 0.25 % v/v	50% Ber A 50% Ber A			3.5 b	5.0 a	5.8 a
4	Manor Chem-Nut 80/20 NIS	60	DG	0.5 oz wt/a 0.25 %v/v	50% Ber A 50% Ber A			6.8 a	3.9 b	4.5 ab
5	UNTREATED							6.9 a	3.9 b	3.8 b
LSD (P=.05)								1.15	0.84	1.58
Standard Deviation								0.75	0.55	1.02
CV								13.56	13.07	22.04

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