

# University of GA Coop Ext Service

## Efficacy of Dimension Tank-Mixes for Preemergence Crabgrass Control in Tall Fescue

Trial ID: Turf13-03

Study Dir.: Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

### GENERAL TRIAL INFORMATION

Study Director: Bill Nutt

Title: ARC I

Affiliation: GA-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

Postal Code: 30223

Initiation Date: 2-24-2003

Country: USA

### COOPERATOR/LANDOWNER

Cooperator: Darin Lickfeldt

Country: USA

Org: DowAgroSciences

City: Fayetteville

State/Prov: GA

Postal Code: 30214

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	DIGSP	Crabgrass, Southern	<i>Digitaria ciliaris</i>

Crop 1: FESAR Fescue, Tall *Festuca arundinacea* Variety: KY 31 Perennial Age: 1 yrs

'Ky 31' Tall Fescue seeded September 10, 2003 into existing stand of KY 31 Tall Fescue.

### SITE AND DESIGN

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

Site Type: Simulated home lawn

Study Design: RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

Field Prep./Maintenance: Irrigated site. Mowed at 2.5 inches with rotary mower.

## APPLICATION DESCRIPTION

	A	B
Application Date:	2-24-2003	4-16-2003
Time of Day:	2:30 pm	3:45 pm
Application Method:	Broadcast	Broadcast
Application Timing:	Pre	Pre
Applic. Placement:	Soil	Soil
Air Temp., Unit:	62 F	79 F
% Relative Humidity:	70	46
Wind Velocity, Unit:	2.9 mph	4.0 mph
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	55 F	72 F
Soil Moisture:	High	Good
% Cloud Cover:	5	70

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	FESAR Active	FESAR Active
Height, Unit:	2.5 inch	2.5 inch

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGSP None	DIGSP None
Density, Unit:	0 %	0 %

## APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	27 psi	27 psi
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8004	8004
Nozzle Spacing, Unit:	20 inch	20 inch
Boom Length, Unit:	5 feet	5 feet
Boom Height, Unit:	19 inch	19 inch
Ground Speed, Unit:	3 mph	3 mph
Carrier:	Water	Water
Spray Volume, Unit:	25 gpa	25 gpa
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

## Trial Comments

2-25-03

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

5-20-03

No crabgrass emergence noted in any untreated plot.

No tall fescue injury observed in any plot on 6-26-03, 7-30-03, and 8-21-03

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Efficacy of Dimension Tank-Mixes for Preemergence Crabgrass Control in Tall Fescue									
Trial ID: Turf13-03				Study Dir.: Bill Nutt					
Location: Griffin				Investigator: Tim R Murphy					
Weed Code				DIGSP	DIGSP	DIGSP	DIGSP		
Rating Data Type				Control	Control	Control	Control	Density	
Rating Unit				0-100	0-100	0-100	0-100	0-100	
Rating Date				6-26-2003	7-30-2003	8-21-2003	6-26-2003		
Trt-Eval Interval				122 DA-A	156 DA-A	178 DA-A	122 DA-A		
# Subsamples, Dec.				0	0		0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Stg	Appl Code		
1	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	100 a	93 ab
	Dimension Ultra WSP	40	WP	0.25	lb ai/a	May 1	B		83 a
2	Dimension Ultra WSP	40	WP	0.5	lb ai/a	Mar. 1	A	100 a	75 bc
3	Dimension Ultra WSP	40	WP	0.75	lb ai/a	Mar. 1	A	100 a	81 abc
4	Barricade fb	65	WG	0.38	lb ai/a	Mar. 1	A	100 a	96 a
	Barricade	65	WG	0.38	lb ai/a	May 1	B		83 a
5	Barricade	65	WG	0.75	lb ai/a	Mar. 1	A	100 a	93 ab
6	Pendulum fb	60	WG	1.5	lb ai/a	Mar. 1	A	100 a	65 c
	Pendulum	60	WG	1.5	lb ai/a	May 1	B		30 b
7	Pendulum	60	WG	3.0	lb ai/a	Mar. 1	A	100 a	35 d
8	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	100 a	95 a
	Barricade	65	WG	0.38	lb ai/a	May 1	B		90 a
9	Barricade fb	65	WG	0.38	lb ai/a	Mar. 1	A	100 a	91 ab
	Dimension Ultra WSP	40	WP	0.5	lb ai/a	May 1	B		79 a
10	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	100 a	85 ab
	Pendulum	60	WG	1.5	lb ai/a	May 1	B		64 a
11	Pendulum fb	60	WG	1.5	lb ai/a	Mar. 1	A	100 a	90 ab
	Dimension Ultra WSP	40	WP	0.5	lb ai/a	May 1	B		83 a
12	Untreated Check							0 b	0 e
	LSD (P=.05)							0.0	16.1
	Standard Deviation							0.0	11.1
	CV							0.0	14.87
									28.8
									19.9
									32.3
									0.8
									0.5
									238.45

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

## University of GA Coop Ext Service

Weed Code								DIGSP	DIGSP
Rating Data Type								Density	Density
Rating Unit								0-100	0-100
Rating Date								7-30-2003	8-21-2003
Trt-Eval Interval								156 DA-A	178 DA-A
# Subsamples, Dec.								0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	3 d	10 c
	Dimension Ultra WSP	40	WP	0.25	lb ai/a	May 1	B		
2	Dimension Ultra WSP	40	WP	0.5	lb ai/a	Mar. 1	A	10 cd	18 c
3	Dimension Ultra WSP	40	WP	0.75	lb ai/a	Mar. 1	A	8 cd	20 bc
4	Barricade fb	65	WG	0.38	lb ai/a	Mar. 1	A	2 d	9 c
	Barricade	65	WG	0.38	lb ai/a	May 1	B		
5	Barricade	65	WG	0.75	lb ai/a	Mar. 1	A	3 d	7 c
6	Pendulum fb	60	WG	1.5	lb ai/a	Mar. 1	A	13 bc	34 ab
	Pendulum	60	WG	1.5	lb ai/a	May 1	B		
7	Pendulum	60	WG	3.0	lb ai/a	Mar. 1	A	20 ab	33 ab
8	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	2 d	5 c
	Barricade	65	WG	0.38	lb ai/a	May 1	B		
9	Barricade fb	65	WG	0.38	lb ai/a	Mar. 1	A	4 d	11 c
	Dimension Ultra WSP	40	WP	0.5	lb ai/a	May 1	B		
10	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	7 cd	18 c
	Pendulum	60	WG	1.5	lb ai/a	May 1	B		
11	Pendulum fb	60	WG	1.5	lb ai/a	Mar. 1	A	5 d	10 c
	Dimension Ultra WSP	40	WP	0.5	lb ai/a	May 1	B		
12	Untreated Check							24 a	45 a
LSD (P=.05)								7.5	13.6
Standard Deviation								5.2	9.4
CV								61.93	51.77

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