

# University of GA Coop Ext Service

## Efficacy of Dimension Tank-Mixes for Preemergence Crabgrass Control in Mixed Common/Hybrid Bermudagrass

Trial ID: Turf12-03

Study Dir.: Bill Nutt

Location: Griffin

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

Postal Code: 30223

Initiation Date: 2-20-2003

Country: USA

### COOPERATOR/LANDOWNER

Cooperator: Darin Lickfeldt

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.	DIGSS	Crabgrass	Digitaria sp.

Crop 1: CYNDA Bermudagrass/*Cynodon dactylon*

Variety: Common/hybrid mixture

Perennial Age: 20 yrs

### SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 8 FT Reps: 4

Site Type: Simulated Golf Course Fairway Study Design: RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

Field Prep./Maintenance: Site mowed at 0.625 inch. Irrigated as needed.

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#### APPLICATION DESCRIPTION

	A	B
Application Date:	2-20-2003	4-16-2003
Time of Day:	2:24 pm	2:00 pm
Application Method:	Broadcast	Broadcast
Application Timing:	Pre	Pre
Applic. Placement:	soil	Foliar
Air Temp., Unit:	70 F	80 F
% Relative Humidity:	45	48
Wind Velocity, Unit:	2.2 mph	4.0 mph
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	59 F	78 F
Soil Moisture:	High	Fair
% Cloud Cover:	40	60

#### CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CYNDA Dormant	CYNDA 60% Green
Height, Unit:	.625 inch	.625 inch

#### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGSS	DIGSS 1-2 Leaf
Density, Unit:	0 %	5 %

#### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	26 psi	26 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):	N	N

#### Trial Comments

##### Overall Trial Comment

No herbicide affected green-up or injured Bermudagrass during the time course of this study.

4-9-03

For greenup ratings for Bermudagrass, CYNDA, most plots were predominately Common Bermudagrass, others plots were predominately Hybrid Bermudagrass. They are as follows: 101 - 110, 207 - 210, 304, 401, 410,411

##### Weed Density Ratings for Untreated Control Checks

	112	205	304	406
DIGSS,5-20-03	25	20	10	15
DIGSS, 8-21-03	60	50	25	40

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Trt	Treatment	Form	Form	Rate	Grow	Appl	CYNDA	CYNDA	DIGSS	DIGSS
No.	Name	Conc	Type	Unit	Stg	Code	Greenup	Greenup	Control	Control
							0-100	0-100	0-100	0-100
							4-9-2003	4-21-2003	5-20-2003	6-26-2003
							48 DA-A	60 DA-A	89 DA-A	126 DA-A
1	Dimension Ultra WSP fb	40	WP	0.5 lb ai/a	Mar. 1	A	58 a	61 a	100 a	100 a
	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	40 a	59 a	100 a	100 a
3	Dimension Ultra WSP	40	WP	0.75 lb ai/a	Mar. 1	A	41 a	55 a	100 a	100 a
4	Barricade fb	65	WG	0.38 lb ai/a	Mar. 1	A	64 a	65 a	100 a	100 a
	Barricade	65	WG	0.38 lb ai/a	May 1	B				
5	Barricade	65	WG	0.75 lb ai/a	Mar. 1	A	51 a	64 a	100 a	99 a
6	Pendulum fb	60	WG	1.5 lb ai/a	Mar. 1	A	59 a	66 a	100 a	100 a
	Pendulum	60	WG	1.5 lb ai/a	May 1	B				
7	Pendulum	60	WG	3.0 lb ai/a	Mar. 1	A	46 a	63 a	100 a	98 a
8	Dimension Ultra WSP fb	40	WP	0.5 lb ai/a	Mar. 1	A	63 a	61 a	100 a	100 a
	Barricade	65	WG	0.38 lb ai/a	May 1	B				
9	Barricade fb	65	WG	0.38 lb ai/a	Mar. 1	A	48 a	65 a	100 a	100 a
	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	44 a	56 a	100 a	100 a
	Pendulum	60	WG	1.5 lb ai/a	May 1	B				
11	Pendulum fb	60	WG	1.5 lb ai/a	Mar. 1	A	46 a	64 a	100 a	100 a
	Dimension Ultra WSP	40	WP	0.5 lb ai/a	May 1	B				
12	Untreated Check						54 a	65 a	0 b	0 b
	LSD (P=.05)						25.8	9.7	0.0	2.2
	Standard Deviation						17.9	6.7	0.0	1.6
	CV						35.03	10.79	0.0	1.7

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

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							DIGSS	DIGSS	DIGSS				
							Control	Density	Density				
							0-100	0-100	0-100				
							8-21-2003	6-26-2003	8-21-2003				
							182 DA-A	126 DA-A	182 DA-A				
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code						
1	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	100	ab	0	b	0	b
	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	97	ab	0	b	2	b
3	Dimension Ultra WSP	40	WP	0.75	lb ai/a	Mar. 1	A	98	ab	0	b	1	b
4	Barricade fb	65	WG	0.38	lb ai/a	Mar. 1	A	99	ab	0	b	1	b
	Barricade	65	WG	0.38	lb ai/a	May 1	B						
5	Barricade	65	WG	0.75	lb ai/a	Mar. 1	A	88	c	1	b	6	b
6	Pendulum fb	60	WG	1.5	lb ai/a	Mar. 1	A	97	ab	0	b	2	b
	Pendulum	60	WG	1.5	lb ai/a	May 1	B						
7	Pendulum	60	WG	3.0	lb ai/a	Mar. 1	A	91	bc	1	b	5	b
8	Dimension Ultra WSP fb	40	WP	0.5	lb ai/a	Mar. 1	A	100	ab	0	b	0	b
	Barricade	65	WG	0.38	lb ai/a	May 1	B						
9	Barricade fb	65	WG	0.38	lb ai/a	Mar. 1	A	100	a	0	b	0	b
	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	100	ab	0	b	0	b
	Pendulum	60	WG	1.5	lb ai/a	May 1	B						
11	Pendulum fb	60	WG	1.5	lb ai/a	Mar. 1	A	98	ab	0	b	1	b
	Dimension Ultra WSP	40	WP	0.5	lb ai/a	May 1	B						
12	Untreated Check							0	d	33	a	44	a
LSD (P=.05)							7.6	2.9	7.4				
Standard Deviation							5.3	2.0	5.1				
CV							5.97	69.76	100.39				

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