

# University of GA Coop Ext Service

POST Crabgrass Control with RTU Quinclorac Formulations in Common Bermudagrass.

Trial ID: Turf46-03

Study Dir.: Jay Ferrell

Location: Griffin

Investigator: Tim R Murphy

## GENERAL TRIAL INFORMATION

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

Study Director: Jay Ferrell

Title: Res. Scientist

Affiliation: UGA-CAES

## TRIAL LOCATION

City: Griffin

Trial Status: ARCHIVED

State/Prov.: GA

Postal Code: 30223

Initiation Date: 7-15-2003

Planned Completion Date: 9-4-2003

## COOPERATOR/LANDOWNER

Cooperator: Rene Scoresby

Org: Scotts Company

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

## CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	DIGIS	Crabgrass, smooth	<i>Digitaria ischaemum</i>

Crop 1: CYNDA Bermudagrass/*Cynodon dactylon* Variety: Common Perennial Age: 20 yrs

## SITE AND DESIGN

Plot Width, Unit: 2 FT Plot Length, Unit: 2 FT Reps: 4

Site Type: simulated home lawn

Study Design: RANDOMIZED COMPLETE BLOCK

## MAINTENANCE

Field Prep./Maintenance: Irrigated site. Mowed weekly with reel mower at 0.625 inch.

Clippings returned to site.

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## APPLICATION DESCRIPTION

	A
Application Date:	7-15-2003
Time of Day:	2:30 pm
Application Method:	Broadcast
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	90 F
% Relative Humidity:	67
Wind Velocity, Unit:	0.5 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	87 F
Soil Moisture:	Good
% Cloud Cover:	40

## CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA Active
Height, Unit:	.625 inch

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DIGIS Multi Tillered
Stage Scale:	.625" Hght
Density, Unit:	50 %

## APPLICATION EQUIPMENT

	A
Appl. Equipment:	RTU

Trt No	Treatment Application Comment
A	Apply 15 mls/sq.ft. Takes 60 mls to treat 2' x 2' (4 sq.ft.) plot.

### Trial Comments

Herbicides were applied as ready-to-use (RTU) formulations. Applied 15 mls per sq. ft. 60 mls were applied to treat 2 ft. by 2 ft ( 4 sq. ft.) plot.

7-29-03

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

#### WEED DENSITY RATINGS FOR UNTREATED CHECK PLOTS.

	<u>107</u>	<u>206</u>	<u>303</u>	<u>401</u>
DIGIS,7-18-03	35	40	40	65

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Weed Code									
Crop Code	CYNDA	CYNDA	CYNDA	CYNDA	CYNDA	CYNDA			
Rating Data Type	Injury	Injury	Injury	Injury	Injury	Injury			
Rating Unit	0-100	0-100	0-100	0-100	0-100	0-100			
Rating Date	7-18-2003	7-21-2003	7-28-2003	8-5-2003	8-15-2003	8-28-2003			
Trt-Eval Interval	3 DA-A	6 DA-A	13 DA-A	21 DA-A	31 DA-A	44 DA-A			
Trt No.	Treatment Name	Grow Stg	Appl Code						
1	S-10915 quinclorac + surf	Active	A	5 c	8 b	3 c	1 a	0 a	0 a
2	S-10917 quinclorac + surf	Active	A	3 cd	11 b	5 bc	1 a	1 a	0 a
3	S-10918 quinclorac + surf	Active	A	4 c	10 b	4 bc	0 a	1 a	0 a
4	S-11032 quinclorac + surf	Active	A	5 c	16 a	20 a	3 a	1 a	0 a
5	WBG RTU crabgrass killer	Active	A	20 a	18 a	5 bc	0 a	0 a	0 a
6	Bayer A-I-O weed killer	Active	A	10 b	16 a	9 b	0 a	0 a	0 a
7	Untreated			0 d	0 c	0 c	0 a	0 a	0 a
LSD (P=.05)				2.9	4.0	4.9	3.5	2.6	0.0
Standard Deviation				2.0	2.7	3.3	2.3	1.7	0.0
CV				29.77	24.08	51.62	327.02	322.03	0.0

Weed Code									
Crop Code	DIGIS	DIGIS	DIGIS	DIGIS	DIGIS	DIGIS			
Rating Data Type	Control	Control	Control	Control	Control	Control			
Rating Unit	0-100	0-100	0-100	0-100	0-100	0-100			
Rating Date	7-18-2003	7-21-2003	7-28-2003	8-5-2003	8-15-2003	8-28-2003			
Trt-Eval Interval	3 DA-A	6 DA-A	13 DA-A	21 DA-A	31 DA-A	44 DA-A			
# Subsamples, Dec.	0	0	0	0	0	0			
Trt No.	Treatment Name	Grow Stg	Appl Code						
1	S-10915 quinclorac + surf	Active	A	78 b	84 b	75 bc	69 b	69 b	71 bc
2	S-10917 quinclorac + surf	Active	A	85 a	93 a	96 a	95 a	96 a	97 a
3	S-10918 quinclorac + surf	Active	A	85 a	91 a	93 a	95 a	93 a	94 ab
4	S-11032 quinclorac + surf	Active	A	46 e	70 c	65 c	69 b	66 b	58 c
5	WBG RTU crabgrass killer	Active	A	60 d	73 c	88 ab	94 a	92 a	93 ab
6	Bayer A-I-O weed killer	Active	A	66 c	71 c	85 ab	88 a	83 a	83 ab
7	Untreated			0 f	0 d	0 d	0 c	0 c	0 d
LSD (P=.05)				3.3	6.2	14.1	13.6	14.3	23.3
Standard Deviation				2.2	4.2	9.5	9.1	9.6	15.7
CV				3.75	6.04	13.21	12.56	13.47	22.15

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