University of GA Coop Ext Service

Tolerance of El Toro Zoysiagrass to Revolver

Trial ID: Turf34-03 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:** 6-17-2003
Planned Completion Date: 9-15-2003

COOPERATOR/LANDOWNER

Cooperator: Laurence Mudge **Org:** Bayer

CROP DESCRIPTION

Crop 1: ZOYJA GRASS, ZOYSIA **Variety:** El Toro **Perennial Age:** 7 yrs

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 10 FT **Reps:** 3
Site Type: home lawn **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments: Irrigated site, 80% shade environment from large oak trees.

APPLICATION DESCRIPTION

	A	B
Application Date:	6-17-2003	6-24-2003
Time of Day:	3:30 p.m.	10:00 a.m
Application Method:	SPRAY	SPRAY
Application Timing:	POSPOS	POSPOS
Applic. Placement:	FOLIAR	FOLIAR
Air Temp., Unit:	83 F	85 F
% Relative Humidity:	61	60
Wind Velocity, Unit:	1.5 MPH	0 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	77 F	74 F
Soil Moisture:	EXCESSIVE	ADEQUATE
% Cloud Cover:	95	0

University of GA Coop Ext Service

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZOYJA ActiveGrw	ZOYJA ActiveGrw
Stage Scale:	2.5-3″Hgh	2.5-3″Hgh
Height, Unit:	2.5 IN	2.5 IN

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 IN	20 IN
Boom Length, Unit:	5 FT	5 FT
Boom Height, Unit:	19 IN	19 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	water	water
Spray Volume, Unit:	25 gpa	25 gpa
Propellant:	C02	C02
Tank Mix (Y/N):	n	n

Trial Comments

6-24-03
Injury observed, a light brown yellowing of foliage.

7-15-03
No discoloration or thinning was observed. However, stunted plots seemed greatly more susceptible to rust (Puccinia spp.) disease.
Revolv er seems to possess growth regulating properties.
No injury was observed, only stunting was recorded.

9-15-03
No injury was observed.
No stunting was observed.

University of GA Coop Ext Service

Tolerance of El Toro Zoysiagrass to Revolver

Trial ID: Turf34-03 Study Dir.: Bill Nutt
Location: Griffin Investigator: Tim R Murphy

Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code	ZOYJA Foliag Injury 0-100 6-24-2003 7 DA-A 0	ZOYJA Foliag Injury 0-100 7-2-2003 15 DA-A 0	ZOYJA Foliag Injury 0-100 8-19-2003 63 DA-A 0	ZOYJA Foliag Stunting 0-100 7-15-2003 28 DA-A 0	ZOYJA Foliag Stunting 0-100 8-19-2003 63 DA-A 0
1	Untreated							0 a	0 c	0 a	0 c	0 a
2	Revolver fb	0.19	SC			Active	A	5 a	33 a	0 a	15 b	0 a
	Revolver	0.19	SC			Active	B					
3	Revolver fb	0.19	SC			Active	A	4 a	30 a	0 a	22 a	0 a
	Revolver	0.19	SC			Active	B					
4	Revolver fb	0.19	SC			Active	A	6 a	30 a	0 a	27 a	0 a
	Revolver	0.19	SC			Active	B					
5	Revolver fb	0.19	SC			Active	A	7 a	33 a	0 a	27 a	0 a
	Revolver	0.19	SC			Active	B					
6	Revolver	0.19	SC			Active	A	13 a	10 b	0 a	0 c	0 a
	Fe2SO4 fb	0.25	SC			Active	A					
	Revolver	0.19	SC			Active	B					
	Fe2SO4	0.25	SC			Active	B					
LSD (P=.05)								13.1	3.2	0.0	5.5	0.0
Standard Deviation								7.2	1.7	0.0	3.0	0.0
CV								124.19	7.67	0.0	20.18	0.0

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