

# University of GA Coop Ext Service

## Evaluation of 1,3-D on Golf Course Putting Greens: 'Tifgreen' Bermudagrass

Trial ID: Bermuda 1

Study Director: Jonathan Bohn

Location: Dublin CC #15 G

Investigator: Clint Waltz

### General Trial Information

Study Director: Jonathan Bohn

Title: Technician

Affiliation: C&amp;SS - UGA

Investigator: Clint Waltz

Title: Asst. Professor

Affiliation: C&amp;SS - UGA

E-mail: CWaltz@UGA.edu

### Trial Location

City: Dublin

Trial Status: ESTABLISHED

State/Prov.: GA

Initiation Date: 6-29-2003

Planned Completion Date: 9-15-2003

### Objectives:

Determine the efficacy of XRM-5048 on plant parasitic nematodes in bermudagrass putting greens in the Southern United States.

### Cooperator/Landowner

Cooperator: Matthew Fitzpatric

Organization: Dublin Country Club

City: Dublin

State/Prov: GA

### Crop Description

Crop 1: CYNDA *Cynodon dactylon*

Bermudagrass

Variety: Tifgreen - 328

Description: Putting Green

BBCH Scale: BGRM

Planting Method: ESTABLISHED

### Site and Design

Plot Width, Unit: 6 FT Site Type: Golf Course Putting Green

Plot Length, Unit: 30 FT Replications: 4 Study Design: Randomized Complete Block

### Field Prep./Maintenance:

Maintained as a golf course putting green by golf course staff.

### Moisture Conditions

Closest Weather Station: Dublin

Distance: 15 Unit: MI

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	6-29-2003		0.59	IN	RAIN	24	HR
2.	6-30-2003		0.32	IN	RAIN	24	HR

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Application Description

	A
Application Date:	6-29-2003
Time of Day:	6:30 pm
Application Method:	INJECT
Application Timing:	POSPOS
Application Placement:	INJSOI
Applied By:	ITA
Air Temperature, Unit:	68 F
% Relative Humidity:	100
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	N
Water Hardness:	-
Soil Temperature, Unit:	72 F
Soil Moisture:	Adaquate
% Cloud Cover:	100

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CYNDA BGRM
Stage Scale Used:	BBCH

Trial Comments

Date	By	Notes
6-29-2003	FCW	Heal: 1 = Open Slit -> 9 = No Observable Slit

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Trial ID: Bermuda 1

Location: Dublin CC #15 G

Investigator: Clint Waltz

Crop Code						CYND A	CYND A	CYND A
Crop Variety						'328'	'328'	'328'
Rating Date						7-2-2003	7-11-2003	8-1-2003
Rating Data Type						TQ	TQ	TQ
Rating Unit						1-9	1-9	1-9
Number of Subsamples						1	1	1
Assessed By						JB	JB	FCW
Days After Last Applic.						3	12	33
Trt-Eval Interval						3 DA-A	12 DA-A	33 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description
1	Untreated Check							
2	Equipment Check						A	Specialty Application
3	XRM-5048	6.8 EC		5 gal/a		COVER	A	Speciality Application
	LSD (P=.05)						0.00	0.00
	Standard Deviation						0.00	0.00
	CV						0.0	0.0
							8.0 a	8.0 a
							6.0 b	7.5 b
							6.0 b	7.5 b
							0.00	0.00
							0.00	0.00
							0.0	0.0

Crop Code							CYND A	CYND A	CYND A
Crop Variety							'328'	'328'	'328'
Rating Date							8-27-2003	7-2-2003	7-11-2003
Rating Data Type							TQ	Color	Color
Rating Unit							1-9	1-9	1-9
Number of Subsamples							1	1	1
Assessed By							JB	JB	JB
Days After Last Applic.							59	3	12
Trt-Eval Interval							59 DA-A	3 DA-A	12 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description	
1	Untreated Check								
2	Equipment Check						A	Specialty Application	
3	XRM-5048	6.8 EC		5 gal/a		COVER	A	Speciality Application	
	LSD (P=.05)						0.29	0.00	
	Standard Deviation						0.17	0.00	
	CV						2.06	0.0	
							8.0 a	8.0 a	
							8.0 a	7.0 b	
							8.3 a	7.0 b	
							0.29	0.00	
							0.17	0.00	
							2.06	0.0	

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

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Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description	CYND A	CYND A	CYND A
	Crop Code								CYND A	CYND A	CYND A
	Crop Variety								'328'	'328'	'328'
	Rating Date								7-2-2003	7-11-2003	8-1-2003
	Rating Data Type								Injury	Injury	Heal
	Rating Unit								%	%	1-9
	Number of Subsamples								1	1	1
	Assessed By								JB	JB	FCW
	Days After Last Applic.								3	12	33
	Trt-Eval Interval								3 DA-A	12 DA-A	33 DA-A
	LSD (P=.05)								0.0	2.5	0.29
	Standard Deviation								0.0	1.4	0.17
	CV								0.0	38.49	2.35

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description	CYND A	CYND A	CYND A
	Crop Code								CYND A	CYND A	CYND A
	Crop Variety								'328'	'328'	'328'
	Rating Date								8-27-2003	6-29-2003	7-11-2003
	Rating Data Type								Heal	Root-Knot	Root-Knot
	Rating Unit								1-9	Count	Count
	Number of Subsamples								1	1	1
	Assessed By								JB		
	Days After Last Applic.								59	0	12
	Trt-Eval Interval								59 DA-A	0 DA-A	12 DA-A
	LSD (P=.05)								9.0 a	71 a	38 a
	Standard Deviation								8.0 b	64 a	40 a
	CV								8.0 b	53 a	50 a

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

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									CYND A	CYND A	
									'328'	'328'	
									6-29-2003	7-11-2003	
									Stubby-Root	Stubby-Root	
									Count	Count	
									1	1	
									0	12	
									0 DA-A	12 DA-A	
Trt	Treatment	Form	Form	Other	Other	Growth	Appl	Appl			
No.	Name	Conc	Type	Rate	Rate	Unit	Stage	Code	Description		
1	Untreated Check									8 a	11 a
2	Equipment Check							A	Specialty Application	4 a	6 a
3	XRM-5048	6.8	EC	5	gal/a		COVER	A	Speciality Application	5 a	3 a
LSD (P=.05)									6.5	9.7	
Standard Deviation									3.8	5.6	
CV									72.99	85.96	

									CYND A	CYND A	CYND A	
									'328'	'328'	'328'	
									6-29-2003	7-11-2003	6-29-2003	
									Ring	Ring	Spiral	
									Count	Count	Count	
									1	1	1	
									0	12	0	
									0 DA-A	12 DA-A	0 DA-A	
Trt	Treatment	Form	Form	Other	Other	Growth	Appl	Appl				
No.	Name	Conc	Type	Rate	Rate	Unit	Stage	Code	Description			
1	Untreated Check									76 b	69 a	83 a
2	Equipment Check							A	Specialty Application	150 a	72 a	128 a
3	XRM-5048	6.8	EC	5	gal/a		COVER	A	Speciality Application	70 b	60 a	92 a
LSD (P=.05)									67.4	27.2	65.7	
Standard Deviation									38.9	15.7	38.0	
CV									39.59	23.48	37.67	

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

## University of GA Coop Ext Service

									CYNDA	CYNDA	CYNDA
									'328'	'328'	'328'
									7-11-2003	6-29-2003	7-11-2003
									Spiral	Total	Total
									Count	Count	Count
Crop Code									1	1	1
Crop Variety									12	0	12
Rating Date									12 DA-A	0 DA-A	12 DA-A
Rating Data Type											
Rating Unit											
Number of Subsamples											
Days After Last Applic.											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description			
1	Untreated Check								123 a	270 a	249 a
2	Equipment Check						A	Specialty Application	80 a	346 a	208 a
3	XRM-5048	6.8	EC	5	gal/a	COVER	A	Speciality Application	71 a	226 a	187 a
LSD (P=.05)									54.4	177.8	68.0
Standard Deviation									31.4	102.8	39.3
CV									34.55	36.62	18.35

									CYNDA	
									'328'	
									8-27-2003	
									Root Length	
									mm	
Crop Code									4	
Crop Variety									JB	
Rating Date									59	
Rating Data Type									59 DA-A	
Rating Unit										
Number of Subsamples										
Assessed By										
Days After Last Applic.										
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Appl Description		
1	Untreated Check								48 a	
2	Equipment Check						A	Specialty Application	56 a	
3	XRM-5048	6.8	EC	5	gal/a	COVER	A	Speciality Application	48 a	
LSD (P=.05)									11.1	
Standard Deviation									6.4	
CV									12.62	

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