

University of GA Coop Ext Service

Effects of Primo Maxx on Centipedegrass

Trial ID: Turf59-02

Study Dir.: Tim Murphy

Location: Marshallville

Investigator: William K. Vencill

GENERAL TRIAL INFORMATION

Study Director: Dr. Tim. R. Murphy

Title: Weed Scientist

Affiliation: University of Georgia

Other Investigator: William K. Vencill

Other Investigator: Jay Ferrell

Title: Graduate Assistant

Affiliation: University of Georgia

Trial Status: ARCHIVED

Initiation Date: 6-26-2002

City: Marshallville

State/Prov.: GA

CROP AND PEST DESCRIPTION

Weed 1. none

Crop 1: ERLOP Centipedegrass/*Eremochloa ophiuroides*

Variety: Tifblair

Perennial Age: 2 yr

Plot Width, Unit: 8 FT Plot Length, Unit: 20 FT Reps: 3

Site Type: Centipedegrass seed production field

Tillage Type: None

Study Design: RANDOMIZED COMPLETE BLOCK

Field Prep./Maintenance: 0.5 inch irrigation weekly; Mowed every 3rd day

SOIL DESCRIPTION

Texture: sandy clay loam % OM: 0.7 % Sand: 60 % Silt: 16 % Clay: 24

pH: 6.8 CEC: 5.5 Soil Name: Greenville Fertility Level: high

Overall Moisture Conditions: adequate

Closest Weather Station: Fort Valley, GA

Distance: 8 Unit: mi

APPLICATION DESCRIPTION

	A	B	C
Application Date:	6-26-2002	7-24-2002	8-21-2002
Time of Day:	11 am	11 am	8 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	post A	post B	post C
Applic. Placement:	foliage	foliage	foliage
Air Temp., Unit:	82 F	88 F	70 F
% Relative Humidity:	85	57	83
Wind Velocity, Unit:	2 MPH	4 MPH	2 MPH
Dew Presence (Y/N):	N	n	Y
Soil Temp., Unit:	80 F	84 F	86 F
Soil Moisture:	adequate	adequate	adequate
% Cloud Cover:	60	60	30

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CROP STAGE AT EACH APPLICATION										
	A		B		C		D		E	
Crop 1	ERLOP									
Stage Scale:	mowed		mowed		20% seed		80% seed		100% seed	
Height, Unit:	3	in	3	in	4	in	6	in	8	in

WEED STAGE AT EACH APPLICATION										
	A		B		C					
Weed 1	none									
Stage:	weed free		weed free		weed free					

APPLICATION EQUIPMENT										
	A		B		C					
Appl. Equipment:	Backpack		Backpack		Backpack					
Operating Pressure:	40 PSI		40 PSI		40 PSI					
Nozzle Type:	flat fan		flat fan		flat fan					
Nozzle Size:	11004		11004		11004					
Nozzle Spacing, Unit:	20	in	20	in	20	in				
Boom Length, Unit:	6.6	ft	6.6	ft	6.6	ft				
Boom Height, Unit:	15	in	15	in	15	in				
Ground Speed, Unit:	3.5	mph	3.5	mph	3.5	mph				
Carrier:	water		water		water					
Spray Volume, Unit:	25	GPA	25	GPA	25	GPA				

Trial Comments

Turf quality was not adversely affected by Primo Maxx at any rate or application timing.
Plots were not mowed after July 20, 2003.

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Crop Code	ERLOP	ERLOP	ERLOP	ERLOP	ERLOP							
Part Rated	Foliag	seedhd	seedhd	seedhd	seedhd							
Rating Data Type	quality	suppress	suppress	suppress	suppress							
Rating Unit	0-10	0-100	0-100	0-100	0-100							
Rating Date	7-2-2002	7-24-2002	8-2-2002	8-21-2002	9-2-2002							
Trt-Eval Interval	6 DA-A	28 DA-A	9 DA-B	28 DA-B	12 DA-C							
Trt No.	Treatment Name	Form Amt	Fm Ds	Rate Rate	Grow Unit	Appl Stg	Code					
1	Untreated							9 a	0 c	0 d	0 d	0 c
2	Primo Maxx	1 SL		6 oz/a	ACTIVE	A		9 a	15 ab	7 cd	3 cd	3 c
3	Primo Maxx	1 SL		6 oz/a	ACTIVE	A		9 a	12 b	13 bc	17 bc	20 b
	Primo Maxx	1 SL		6 oz/a	+30 d	B						
4	Primo Maxx	1 SL		6 oz/a	ACTIVE	A		9 a	13 ab	17 ab	20 b	20 b
	Primo Maxx	1 SL		6 oz/a	+30 d	B						
	Primo Maxx	1 SL		6 oz/a	+30 d	C						
5	Primo Maxx	1 SL		12 oz/a	ACTIVE	A		9 a	20 ab	7 cd	10 bcd	10 bc
6	Primo Maxx	1 SL		12 oz/a	ACTIVE	A		9 a	22 a	23 a	43 a	20 b
	Primo Maxx	1 SL		12 oz/a	+30 d	B						
7	Primo Maxx	1 SL		12 oz/a	ACTIVE	A		9 a	22 a	23 a	43 a	37 a
	Primo Maxx	1 SL		12 oz/a	+30 d	B						
	Primo Maxx	1 SL		12 oz/a	+30 d	C						
LSD (P=.05)								0.0	8.6	7.3	13.7	13.6
Standard Deviation								0.0	4.8	4.1	7.7	7.7
CV								0.0	32.64	31.75	39.52	48.77

Crop Code	ERLOP	ERLOP	ERLOP	ERLOP	ERLOP							
Part Rated	growth	growth	seed	seed	seed							
Rating Data Type	suppress	suppress	yield	yield	GERMIN							
Rating Unit	0-100	0-100	g/18ft2	lb/acre	0-100							
Rating Date	8-21-2002	9-9-2002	11-2-2002	11-1-2002	11-1-2002							
Trt-Eval Interval	28 DA-B	19 DA-C	73 DA-C	72 DA-C	72 DA-C							
Trt No.	Treatment Name	Form Amt	Fm Ds	Rate Rate	Grow Unit	Appl Stg	Code					
1	Untreated							0 d	0 e	27 a	144 a	89 a
2	Primo Maxx	1 SL		6 oz/a	ACTIVE	A		10 cd	7 de	29 a	154 a	84 a
3	Primo Maxx	1 SL		6 oz/a	ACTIVE	A		27 b	25 bc	31 a	163 a	82 ab
	Primo Maxx	1 SL		6 oz/a	+30 d	B						
4	Primo Maxx	1 SL		6 oz/a	ACTIVE	A		27 b	33 ab	28 a	150 a	76 ab
	Primo Maxx	1 SL		6 oz/a	+30 d	B						
	Primo Maxx	1 SL		6 oz/a	+30 d	C						
5	Primo Maxx	1 SL		12 oz/a	ACTIVE	A		17 bc	13 cd	25 a	132 a	84 a
6	Primo Maxx	1 SL		12 oz/a	ACTIVE	A		50 a	27 b	26 a	140 a	79 ab
	Primo Maxx	1 SL		12 oz/a	+30 d	B						
7	Primo Maxx	1 SL		12 oz/a	ACTIVE	A		53 a	40 a	26 a	141 a	68 b
	Primo Maxx	1 SL		12 oz/a	+30 d	B						
	Primo Maxx	1 SL		12 oz/a	+30 d	C						
LSD (P=.05)								11.6	12.5	8.9	47.5	14.5
Standard Deviation								6.5	7.0	5.0	26.7	8.1
CV								25.0	34.0	18.26	18.26	10.13