

Evaluation of August- and September-applied PRIMO MAXX for Growth Suppression in 'TifBlair' Centipedegrass Seed Fields  
 Trial ID: Turf48-03 Study Director: Jay Ferrell  
 Location: Marshallville Investigator: Tim R Murphy

#### General Trial Information

**Study Director:** Jay Ferrell  
**Affiliation:** UGA-CAES  
**Investigator:** Tim R Murphy  
**Affiliation:** UGA-CAES

**Title:** Res. Scientist  
**E-mail:** jferrell@uga.edu  
**Title:** Weed Scientist  
**E-mail:** tmurphy@uga.edu

#### Trial Location

**City:** Marshallville **Trial Status:** ONE-YEAR/FINAL  
**State/Prov.:** GA  
**Initiation Date:** 8-18-2003

#### Objectives:

Determine the effect of late-season applications of Primo on Centipedegrass foliage suppression and seed yields.

#### Cooperator/Landowner

**Cooperator:** Charlie, Ken Morrow  
**Organization:** The Turfgrass Group **Phone No:** 866-967-2652 (office)  
**Address 1:** 770-313-7832 (Ken-mobile)  
**City:** Marshallville  
**State/Prov:** GA

#### Crop Description

**Crop 1:** ERLOP Eremochloa ophiuroides 'Tifblair' centipedegrass  
**Perennial Age, Unit:** 4 YEAR

#### Site and Design

**Plot Width, Unit:** 10 FT **Site Type:** Centipede seed production field

**Plot Length, Unit:** 15 FT

**Replications:** 4 **Study Design:** Randomized Complete Block

#### Trial Initiation Comments:

Mowing had stopped approximately 8-15-2003, and was not conducted the remainder of the time duration of the experiment.  
 Sprayed 10 ft. wide plot on 15 ft. centers.

**Field Prep./Maintenance:** Site maintained by grower.

**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	8-18-2003	9-20-2003
<b>Time of Day:</b>	11:00 am	12:00 pm
<b>Application Method:</b>	Broadcast	Broadcast
<b>Application Timing:</b>	POST	POST
<b>Application Placement:</b>	Foliage	Foliage
<b>Air Temperature, Unit:</b>	82 F	87 F
<b>% Relative Humidity:</b>	87	60
<b>Wind Velocity, Unit:</b>	3 mph	3 mph
<b>Dew Presence (Y/N):</b>	N	N
<b>Soil Temperature, Unit:</b>	80 F	77 F
<b>Soil Moisture:</b>	Good	Fair
<b>% Cloud Cover:</b>	95	0

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	ERLOP BGRM	ERLOP BGRM
<b>Stage Scale Used:</b>	DESC	DESC
<b>Stage Minimum, Percent:</b>	FolHgt"	FolHgt"
<b>Stage Maximum, Percent:</b>	SdHdHt"	SdHdHt"
<b>Height, Unit:</b>	3 "f	4 "f
<b>Height Minimum, Maximum:</b>	6	10

**Application Equipment**

	<b>A</b>	<b>B</b>
<b>Appl. Equipment:</b>	Tractor	Tractor
<b>Operating Pressure:</b>	32	32
<b>Pressure Unit:</b>	psi	psi
<b>Nozzle Type:</b>	Flat fan	Flat fan
<b>Nozzle Size:</b>	8004	8004
<b>Nozzle Spacing, Unit:</b>	20 inch	20 inch
<b>Boom Length, Unit:</b>	10 ft	10 ft
<b>Boom Height, Unit:</b>	20 in	20 in
<b>Ground Speed, Unit:</b>	2.4 mph	2.4 mph
<b>Carrier:</b>	water	water
<b>Spray Volume:</b>	25	25
<b>Volume Unit:</b>	GAL/AC	GAL/AC
<b>Propellant:</b>	ComprsAir	ComprsAir
<b>Tank Mix (Y/N):</b>	N	N

**Date**    **By**    **Notes**  
8-18-2003    JF    At application "A", centipedegrass seedhead numbers averaged 53/sq.ft.

## University of GA Coop Ext Service

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### Trial Comments

DBH = days before centipede seed harvest

10-22-03

Harvested seed yields, 1 sq. yd./plot. Collected seed head count sample per sq. ft. Made height measurements for centipede foliage and seed heads..

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							ERLOP	ERLOP	ERLOP	ERLOP	ERLOP
							Centipede	Centipede	Centipede	Centipede	Centipede
							Foliag	Foliag	Foliag	Foliag	Foliag
							9-8-2003	9-20-2003	9-8-2003	9-20-2003	10-22-2003
							Injury	Injury	Suppressn	Suppressn	Height
							0-100	0-100	0-100	0-100	cm
											1
											YD2
											10
							21	0	21	0	32
							21 DA-A	33 DA-A	21 DA-A	33 DA-A	65 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Unit	Appl Stage Code	1	2	3	4	5
1	Primo Maxx	1	SL	11	Oz/a	60 DBH A	0	1	40	25	8
2	Primo Maxx fb	1	SL	11	Oz/a	60 DBH A	0	0	35	25	8
	Primo Maxx	1	SL	11	Oz/a	30 DBH B					
3	Primo Maxx	1	SL	11	Oz/a	30 DBH B	0	0	8	0	12
4	Primo Maxx	1	SL	22	Oz/a	60 DBH A	0	10	53	44	8
5	Primo Maxx fb	1	SL	22	Oz/a	60 DBH A	0	9	51	33	8
	Primo Maxx	1	SL	22	Oz/a	30 DBH B					
6	Primo Maxx	1	SL	22	Oz/a	30 DBH B	0	0	10	5	13
7	Untreated Check						0	0	15	0	11
LSD (P=.05)							0.0	4.1	16.9	10.0	1.9
Standard Deviation							0.0	2.8	11.4	6.7	1.3
CV							0.0	96.73	37.65	35.83	12.95

## University of GA Coop Ext Service

Crop Code								ERLOP	ERLOP	ERLOP	ERLOP	ERLOP
Description								Centipede	Centipede	Centipede	Centipede	Centipede
Part Rated								SeedHd	SeedHd	SeedHd	Fol	seed
Rating Date								9-8-2003	9-20-2003	10-22-2003	10-28-2003	10-28-2003
Rating Data Type								Suppressn	Suppressn	Height	WEIDRY	YIELD
Rating Unit								0-100	0-100	cm	g/yd2	g/yd2
Collection Basis										1		
Collection Basis Unit										FT2		
Number of Subsamples										10		
Days After Last Applic.								21	0	32	38	38
Trt-Eval Interval								21 DA-A	33 DA-A	65 DA-A	71 DA-A	71 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Unit	Stage	Appl Code	6	7	8	9	10
1	Primo Maxx	1	SL	11	Oz/a	60 DBH	A	36	11	18	187	8
2	Primo Maxx fb	1	SL	11	Oz/a	60 DBH	A	30	10	17	122	8
	Primo Maxx	1	SL	11	Oz/a	30 DBH	B					
3	Primo Maxx	1	SL	11	Oz/a	30 DBH	B	10	0	23	325	7
4	Primo Maxx	1	SL	22	Oz/a	60 DBH	A	63	33	17	119	8
5	Primo Maxx fb	1	SL	22	Oz/a	60 DBH	A	43	24	17	113	5
	Primo Maxx	1	SL	22	Oz/a	30 DBH	B					
6	Primo Maxx	1	SL	22	Oz/a	30 DBH	B	14	0	21	271	5
7	Untreated Check							13	0	22	250	4
LSD (P=.05)								16.6	8.6	2.5	102.5	3.5
Standard Deviation								11.2	5.8	1.7	69.0	2.3
CV								37.79	52.23	8.88	34.83	36.38

Crop Code								ERLOP
Description								Centipede
Part Rated								seed
Rating Date								10-28-2003
Rating Data Type								YIELD
Rating Unit								lb/ac
Days After Last Applic.								38
Trt-Eval Interval								71 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Unit	Stage	Appl Code	11
1	Primo Maxx	1	SL	11	Oz/a	60 DBH	A	85
2	Primo Maxx fb	1	SL	11	Oz/a	60 DBH	A	87
	Primo Maxx	1	SL	11	Oz/a	30 DBH	B	
3	Primo Maxx	1	SL	11	Oz/a	30 DBH	B	75
4	Primo Maxx	1	SL	22	Oz/a	60 DBH	A	80
5	Primo Maxx fb	1	SL	22	Oz/a	60 DBH	A	56
	Primo Maxx	1	SL	22	Oz/a	30 DBH	B	
6	Primo Maxx	1	SL	22	Oz/a	30 DBH	B	51
7	Untreated Check							47
LSD (P=.05)								37.2
Standard Deviation								25.0
CV								36.38