

University of GA Coop Ext Service

Evaluation of PRIMO MAXX for Growth Suppression in 'TifBlair' Centipedegrass Seed Fields

Trial ID: Turf45-03

Study Director: Jay Ferrell

Location: Marshallville

Investigator: Tim R Murphy

General Trial Information

Study Director: Jay Ferrell

Title: Research Scientist

Affiliation: UGA -CAES

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA CAES

Trial Location

City: Marshallville

Trial Status:

ONE-YEAR/FINAL

State/Prov.: GA

Cooperator/Landowner

Cooperator: Earl Elsner

Crop Description

Crop 1: ERLOP Eremochloa ophiuroides

Centipedegrass

Variety: TifBlair

Perennial Age, Unit: 1 YEAR

Site and Design

Plot Width, Unit: 10 FT

Site Type: seed farm

Plot Length, Unit: 15 FT

Replications: 4

Study Design: Split-Plot

Field Prep./Maintenance:

Mowing was stopped for remainder of the growing season on June 27, 2003. This was approximately 3 weeks after the first or A application of Primo Maxx.

Application Description

	A	B	C
Application Date:	6-5-2003	7-2-2003	8-18-2003
Time of Day:	10:30 am	10:30 am	11:30 am
Application Method:	Spray	Spray	Spray
Application Timing:	PosPos	PosPos	PosPos
Application Placement:	Foliar	Foliar	Foliar
Applied By:	Nutt	Nutt	Nutt
Air Temperature, Unit:	74 F	82 F	89 F
% Relative Humidity:	72	85	79
Wind Velocity, Unit:	3 mph	1 mph	3 mph
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	72 F	78 F	79 F
Soil Moisture:	Fair	High	
% Cloud Cover:	10	30	80

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ERLOP BGRM	ERLOP BGRM	ERLOP BGRM
Stage Scale Used:	BBCH	Seedhead	BBCH
Stage Majority, Percent:		22 sqft	
Height, Unit:	3 in	3 in	9 in

Application Equipment

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

Trial Comments

DBMS - days before mowing stopped; DAMS - days after mowing stopped.

8-18-03

Sprayed front 5 feet of each plot with Primo at 11.0 fl. oz./acre.

9-22-03

Recorded Centipedegrass seedhead heights, number seed yield, and biomass sampled.

Harvested samples for seed yield, foliage biomass, seedhead numbers, etc.

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Seed Fields

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								ERLOP	ERLOP	ERLOP	ERLOP
								Centiped	Centiped	Centiped	Centiped
								Biomass	Biomass	Total Biomass	
								Seedhd	Foliag	Plant	Seed
								9-22-2003	9-22-2003	9-22-2003	9-22-2003
								dry weight	dry weight	dry weight	yield
								g/m2	g/m2	g/m2	g/0.83m2
								35	35	35	35
								109 DA-A	109 DA-A	109 DA-A	109 DA-A
Trt	Treatment	Form	Form	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Rate	Rate Unit	Stage	Code	1	2	3	4
1	Primo Maxx	1	SL	11	fl oz/a	21DBMS	A	113	292	405	6.2
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
2	Primo Maxx	1	SL	11	fl oz/a	21DBMS	A	138	443	582	5.9
	No C Primo										
3	Primo Maxx fb	1	SL	11	fl oz/a	21DBMS	A	81	284	365	5.8
	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B				
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
4	Primo Maxx fb	1	SL	11	fl oz/a	21DBMS	A	119	359	478	5.0
	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B				
	No C Primo										
5	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B	95	274	369	7.2
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
6	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B	133	343	476	7.4
	No C Primo										
7	Primo Maxx	1	SL	22	fl oz/a	21DBMS	A	94	296	390	4.4
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
8	Primo Maxx	1	SL	22	fl oz/a	21DBMS	A	111	411	521	4.1
	No C Primo										
9	Primo Maxx fb	1	SL	22	fl oz/a	21DBMS	A	65	207	272	4.4
	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B				
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
10	Primo Maxx fb	1	SL	22	fl oz/a	21DBMS	A	75	280	355	3.4
	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B				
	No C Primo										
11	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B	98	251	349	8.0
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
12	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B	107	330	437	5.8
	No C Primo										
13	Untreated Check							152	396	547	8.3
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
14	Untreated Check							157	481	638	8.1
	No C Primo										
LSD (P=.05)								37.8	69.5	89.9	1.73
Standard Deviation								26.5	48.7	62.9	1.21
CV								24.09	14.67	14.24	20.15

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Crop Code							ERLOP	ERLOP	ERLOP	ERLOP	
Crop Variety							Centiped	Centiped	Centiped	Centiped	
Part Rated							Seed	Seedhd	Seedhd	Foliag	
Rating Date							9-22-2003	9-22-2003	9-22-2003	9-22-2003	
Rating Data Type							yield	height	Number	height	
Rating Unit							lb/ac	cm	1 ft2	cm	
Number of Subsamples							10	10	10	10	
Days After Last Applic.							35	35	35	35	
Trt-Eval Interval							109 DA-A	109 DA-A	109 DA-A	109 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	5	6	7	8
1	Primo Maxx	1	SL	11	fl oz/a	21DBMS	A	66	27	463	18
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
2	Primo Maxx No C Primo	1	SL	11	fl oz/a	21DBMS	A	63	32	610	19
3	Primo Maxx fb	1	SL	11	fl oz/a	21DBMS	A	62	22	501	14
	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B				
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
4	Primo Maxx fb	1	SL	11	fl oz/a	21DBMS	A	54	27	489	18
	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B				
	No C Primo										
5	Primo Maxx	1	SL	11	fl oz/a	7 DAMS	B	77	25	565	14
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
6	Primo Maxx No C Primo	1	SL	11	fl oz/a	7 DAMS	B	79	28	523	16
7	Primo Maxx	1	SL	22	fl oz/a	21DBMS	A	46	25	446	15
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
8	Primo Maxx No C Primo	1	SL	22	fl oz/a	21DBMS	A	44	30	527	20
9	Primo Maxx fb	1	SL	22	fl oz/a	21DBMS	A	47	21	433	9
	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B				
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
10	Primo Maxx fb	1	SL	22	fl oz/a	21DBMS	A	36	28	460	13
	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B				
	No C Primo										
11	Primo Maxx	1	SL	22	fl oz/a	7 DAMS	B	86	23	561	13
	Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C				
12	Primo Maxx No C Primo	1	SL	22	fl oz/a	7 DAMS	B	61	29	552	15
13	Untreated Check Primo Maxx	1	SL	11	fl oz/a	51 DAMS	C	89	28	501	19
14	Untreated Check No C Primo							87	33	531	23
LSD (P=.05)							18.5	3.1	125.3	3.3	
Standard Deviation							12.9	2.1	87.7	2.3	
CV							20.15	7.94	17.15	14.22	