

# University of GA Coop Ext Service

## Centipedegrass Decline Resulting From Mismanagement: Mowing and Fertilization Interactions

Trial ID: Centipede2

Study Director: Wayne Hanna

Location: Tifton

Investigator: Clint Waltz

### General Trial Information

Study Director: Jonathan Bohn

Title: Technician

Affiliation: C&SS - UGA

Investigator: Clint Waltz

Title: Asst. Profesor

Affiliation: C&SS - UGA

E-mail: CWaltz@UGA.edu

### Trial Location

City: Tifton

Trial Status: MULTI-YEAR/INTERIM

State/Prov.: GA

### Cooperator/Landowner

Cooperator: Wayne Hanna

Organization: C&SS - UGA

City: Tifton

State/Prov: GA

### Crop Description

Crop 1: ERLOP *Eremochloa ophiuroides* Centipedegrass

Variety: 'TifBlair'

### Site and Design

Plot Width, Unit: 9 FT

Plot Length, Unit: 12 FT

Replications: 3

Study Design: Split-Plot

### Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ERLOP BGRM	ERLOP BGRM	ERLOP BGRM	ERLOP BGRM
Stage Scale Used:	BBCH	BBCH	BBCH	BBCH

### Trial Comments

Date	By	Notes
8-13-2003	FCW	1 = Full Seedheads -> 9 = No Seedheads

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Trial ID: Centipede2		Study Director: Wayne Hanna		
Location: Tifton		Investigator: Clint Waltz		

Crop Code	ERLOP	ERLOP	ERLOP	ERLOP					
Crop Variety	TifBlair	TifBlair	TifBlair	TifBlair					
Location	Tifton	Tifton	Tifton	Tifton					
Rating Date	7-3-2003	8-13-2003	9-9-2003	7-3-2003					
Rating Data Type	TQ	TQ	TQ	COLOR					
Rating Unit	1-9	1-9	1-9	1-9					
Assessed By				WH					
Trt-Eval Interval	2 MAIT	3 MAIT	4 MAIT	2 MAIT					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code				
1	1.5" HOC Untreated					4.0 d	5.2 d	6.3 d	5.0 c
2	1.5" HOC 0.5 lb N - May	15	GR	0.5 lb ai/1000 ft2	B	7.0 abc	6.3 c	6.7 cd	7.0 abc
3	1.5" HOC 0.5 lb N - May & August 0.5 lb N - May & August	15	GR	0.5 lb ai/1000 ft2	B D	7.3 abc	6.8 bc	7.3 a-d	7.3 ab
4	1.5" HOC 1.0 lb N - May	15	GR	1 lb ai/1000 ft2	B	8.7 a	7.8 ab	7.7 abc	8.3 a
5	1.5" HOC 1.0 lb N - May & August 1.0 lb N - May & August	15	GR	1 lb ai/1000 ft2	B D	8.3 a	7.7 ab	7.7 abc	8.0 ab
6	1.5" HOC 2.0 lb N - May	15	GR	2 lb ai/1000 ft2	B	9.0 a	8.0 a	7.7 abc	8.7 a
7	1.5" HOC 2.0 lb N - May & August 2.0 lb N - May & August	15	GR	2 lb ai/1000 ft2	B D	9.0 a	7.7 ab	7.7 abc	8.7 a
8	1.5" HOC 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	A B C D	5.0 cd	7.8 ab	7.0 bcd	6.0 bc
9	3" HOC Untreated					7.7 ab	5.0 d	6.3 d	7.3 ab
10	3" HOC 0.5 lb N - May	15	GR	0.5 lb ai/1000 ft2	B	8.3 a	6.3 c	7.0 bcd	8.3 a
11	3" HOC 0.5 lb N - May & August 0.5 lb N - May & August	15	GR	0.5 lb ai/1000 ft2	B D	8.3 a	6.5 c	8.0 ab	8.3 a

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Crop Code						ERLOP	ERLOP	ERLOP	ERLOP	
Crop Variety						TifBlair	TifBlair	TifBlair	TifBlair	
Location						Tifton	Tifton	Tifton	Tifton	
Rating Date						7-3-2003	8-13-2003	9-9-2003	7-3-2003	
Rating Data Type						TQ	TQ	TQ	COLOR	
Rating Unit						1-9	1-9	1-9	1-9	
Assessed By									WH	
Trt-Eval Interval						2 MAIT	3 MAIT	4 MAIT	2 MAIT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code				
12	3" HOC 1.0 lb N - May	15	GR	1 lb ai/1000 ft2	B		5.7 bcd	7.8 ab	8.0 ab	6.0 bc
13	3" HOC 1.0 lb N - May & August	15	GR	1 lb ai/1000 ft2	B		8.3 a	8.0 a	8.0 ab	7.7 ab
	1.0 lb N - May & August	15	GR	1 lb ai/1000 ft2	D					
14	3" HOC 2.0 lb N - May	15	GR	2 lb ai/1000 ft2	B		7.7 ab	7.8 ab	8.3 a	7.7 ab
15	3" HOC 2.0 lb N - May & August	15	GR	2 lb ai/1000 ft2	B		7.3 abc	8.0 a	8.3 a	6.7 abc
	2.0 lb N - May & August	15	GR	2 lb ai/1000 ft2	D					
16	3" HOC 0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	A		7.3 abc	7.3 abc	7.7 abc	7.7 ab
	0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	B					
	0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	C					
	0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	D					
LSD (P=.05)							2.17	0.94	0.96	1.83
Standard Deviation							1.30	0.56	0.58	1.10
CV							17.5	7.92	7.74	14.78

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

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Crop Code						ERLOP	ERLOP
Crop Variety						TifBlair	TifBlair
Location						Tifton	Tifton
Rating Date						8-13-2003	8-13-2003
Rating Data Type						COLOR	SEEDHEAD
Rating Unit						1-9	1-9
Assessed By						FCW	FCW
Trt-Eval Interval						3 MAIT	3 MAIT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code		
1	1.5" HOC Untreated					5.5 e	4.7 e
2	1.5" HOC 0.5 lb N - May	15	GR	0.5 lb ai/1000 ft2	B	6.7 cd	6.5 cd
3	1.5" HOC 0.5 lb N - May & August 0.5 lb N - May & August	15	GR	0.5 lb ai/1000 ft2	B D	6.8 bc	7.7 abc
4	1.5" HOC 1.0 lb N - May	15	GR	1 lb ai/1000 ft2	B	7.9 a	8.5 a
5	1.5" HOC 1.0 lb N - May & August 1.0 lb N - May & August	15	GR	1 lb ai/1000 ft2	B D	8.0 a	8.5 a
6	1.5" HOC 2.0 lb N - May	15	GR	2 lb ai/1000 ft2	B	8.5 a	8.2 ab
7	1.5" HOC 2.0 lb N - May & August 2.0 lb N - May & August	15	GR	2 lb ai/1000 ft2	B D	8.2 a	8.3 ab
8	1.5" HOC 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	A B C D	8.5 a	7.8 abc
9	3" HOC Untreated					5.0 e	3.2 f
10	3" HOC 0.5 lb N - May	15	GR	0.5 lb ai/1000 ft2	B	5.8 de	5.5 de
11	3" HOC 0.5 lb N - May & August 0.5 lb N - May & August	15	GR	0.5 lb ai/1000 ft2	B D	6.8 bc	6.0 de
12	3" HOC 1.0 lb N - May	15	GR	1 lb ai/1000 ft2	B	7.7 ab	8.5 a
13	3" HOC 1.0 lb N - May & August 1.0 lb N - May & August	15	GR	1 lb ai/1000 ft2	B D	8.0 a	8.5 a

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						ERLOP	ERLOP
						TifBlair	TifBlair
						Tifton	Tifton
						8-13-2003	8-13-2003
						COLOR	SEEDHEAD
						1-9	1-9
						FCW	FCW
						3 MAIT	3 MAIT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Appl Code	
14	3" HOC 2.0 lb N - May	15	GR	2 lb ai/1000 ft2	B		8.3 a
15	3" HOC 2.0 lb N - May & August 2.0 lb N - May & August	15	GR	2 lb ai/1000 ft2	B		8.5 a
		15	GR	2 lb ai/1000 ft2	D		8.3 ab
16	3" HOC 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A 0.5 lab N - M, M, Jy, & A	15	GR	0.5 lb ai/1000 ft2	A		8.0 a
		15	GR	0.5 lb ai/1000 ft2	B		6.8 bcd
		15	GR	0.5 lb ai/1000 ft2	C		
		15	GR	0.5 lb ai/1000 ft2	D		
LSD (P=.05)							0.88
Standard Deviation							1.41
CV							0.53
							7.14
							11.72

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