

North Carolina State University

Seedhead Suppression of Bahiagrass

Trial ID: 02-T24
Location: NC DOT

Study Dir.: Jason Hinton
Investigator: Fred Yelverton

GENERAL TRIAL INFORMATION

Study Director: Jason Hinton **Title:** Research Technician
Affiliation: North Carolina State University
Postal Code: 27695
Investigator: Fred Yelverton **Title:** Professor
Affiliation: North Carolina State University
Postal Code: 27695

TRIAL LOCATION

City: Nashville **Trial Status:** Complete
State/Prov.: NC
Postal Code: 27856 **Initiation Date:** 06-26-02
Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Crop 1: PASNO Bahiagrass

Variety: Pensacola

SITE AND DESIGN

Plot Width, Unit: 5 FT **Plot Length, Unit:** 10 FT **Reps:** 4
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

	A
Application Date:	06-26-02
Time of Day:	4:45 PM
Application Method:	Spray
Application Timing:	Boot
Applic. Placement:	Foliar
Air Temp., Unit:	83.6 F
% Relative Humidity:	72
Wind Velocity, Unit:	1.1 MPH
Dew Presence (Y/N):	N
Water Hardness:	N/A
Soil Temp., Unit:	86 F
Soil Moisture:	Poor
% Cloud Cover:	75

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	PASNO Boot
Stage Scale:	Mowed
Height, Unit:	3 Inch

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 Spray
Operating Pressure:	36 PSI
Nozzle Type:	Flat Fan
Nozzle Size:	8002 XR
Nozzle Spacing, Unit:	10 Inch
Boom Height, Unit:	10 Inch
Ground Speed, Unit:	3 MPH
Carrier:	Water
Spray Volume, Unit:	32.5 GPA
Propellant:	Compr.CO2

Trt No	Treatment Application Comment
	Ring used in counting was 1 foot in diameter.

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Crop Code							PASNO	PASNO	PASNO	
Rating Data Type							SEEDHD	SEEDHD	SEEDHD	
Rating Unit							/2 RINGS	/2 RINGS	/2 RINGS	
Rating Date							07-18-02	07-30-02	08-23-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Rate	Unit	Grow Stg	Appl Code
1	Maintain CF 125	1	EC	0.063	LB	A/A			Boot	A
							0.0	a	0.8	abc
									0.8	ab
2	Maintain CF 125	1	EC	0.125	LB	A/A			Boot	A
							0.3	a	0.3	bc
									1.3	ab
3	Maintain CF 125	1	EC	0.25	LB	A/A			Boot	A
							0.8	a	1.5	a
									2.0	a
4	Maintain CF 125	1	EC	0.5	LB	A/A			Boot	A
							0.8	a	1.0	abc
									0.5	ab
5	Maintain CF 125	1	EC	0.75	LB	A/A			Boot	A
							0.0	a	0.5	abc
									0.8	ab
6	Maintain CF 125	1	EC	1.0	LB	A/A			Boot	A
							0.3	a	0.8	abc
									1.3	ab
7	Maintain CF 125	1	EC	0.063	LB	A/A			Boot	A
	Plateau	2	AS	2.0	OZ/A				Boot	A
	MSO	L		2.0	PT/A				Boot	A
							0.0	a	0.0	c
									0.0	b
8	Maintain CF 125	1	EC	0.125	LB	A/A			Boot	A
	Plateau	2	AS	2.0	OZ/A				Boot	A
	MSO	L		2.0	PT/A				Boot	A
							0.0	a	0.0	c
									0.0	b
9	Plateau	2	AS	2.0	OZ/A				Boot	A
	MSO	L		2.0	PT/A				Boot	A
							0.0	a	0.0	c
									0.0	b
10	Nontreated						0.5	a	1.3	ab
									1.3	ab
LSD (P=.05)							0.98		1.06	1.74
Standard Deviation							0.67		0.73	1.20
CV							269.98		121.72	154.83
Bartlett's X2							4.852		5.574	8.114
P(Bartlett's X2)							0.303		0.473	0.23
Replicate F							1.244		2.875	2.286
Replicate Prob(F)							0.3133		0.0546	0.1013
Treatment F							0.854		2.208	1.252
Treatment Prob(F)							0.5756		0.0540	0.3066

Means followed by same letter do not significantly differ (P=.05, LSD)

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							PASNO QUALITY	PASNO QUALITY	PASNO QUALITY
							1-9	1-9	1-9
							07-11-02	07-18-02	07-30-02
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Product Rate	Product Rate	Grow Stg	Appl Code
1	Maintain CF 125	1	EC	0.063	LB	A/A		Boot	A
							7.00 a	7.000 a	7.00 a
2	Maintain CF 125	1	EC	0.125	LB	A/A		Boot	A
							7.00 a	7.000 a	7.00 a
3	Maintain CF 125	1	EC	0.25	LB	A/A		Boot	A
							7.00 a	7.000 a	7.00 a
4	Maintain CF 125	1	EC	0.5	LB	A/A		Boot	A
							7.00 a	7.000 a	7.00 a
5	Maintain CF 125	1	EC	0.75	LB	A/A		Boot	A
							7.00 a	7.000 a	7.00 a
6	Maintain CF 125	1	EC	1.0	LB	A/A		Boot	A
							7.00 a	7.000 a	7.00 a
7	Maintain CF 125	1	EC	0.063	LB	A/A		Boot	A
	Plateau	2	AS	2.0	OZ/A			Boot	A
	MSO	L		2.0	PT/A			Boot	A
							6.50 b	5.938 b	6.50 b
8	Maintain CF 125	1	EC	0.125	LB	A/A		Boot	A
	Plateau	2	AS	2.0	OZ/A			Boot	A
	MSO	L		2.0	PT/A			Boot	A
							6.63 b	6.000 b	6.63 b
9	Plateau	2	AS	2.0	OZ/A			Boot	A
	MSO	L		2.0	PT/A			Boot	A
							6.50 b	5.813 b	6.50 b
10	Nontreated						7.00 a	7.000 a	7.00 a
LSD (P=.05)							0.211	0.3067	0.315
Standard Deviation							0.145	0.2114	0.217
CV							2.11	3.17	3.16
Bartlett's X2							0.683	2.525	0.102
P(Bartlett's X2)							0.409	0.283	0.95
Replicate F							1.879	2.891	2.970
Replicate Prob(F)							0.1569	0.0537	0.0495
Treatment F							9.527	24.699	4.271
Treatment Prob(F)							0.0001	0.0001	0.0016

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Crop Code							PASNO		
Rating Data Type							QUALITY		
Rating Unit							1-9		
Rating Date							08-23-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Product Unit	Product Rate	Grow Stg	Appl Code	
1	Maintain CF 125	1	EC	0.063	LB	A/A	Boot	A	7.000 a
2	Maintain CF 125	1	EC	0.125	LB	A/A	Boot	A	7.000 a
3	Maintain CF 125	1	EC	0.25	LB	A/A	Boot	A	7.000 a
4	Maintain CF 125	1	EC	0.5	LB	A/A	Boot	A	7.000 a
5	Maintain CF 125	1	EC	0.75	LB	A/A	Boot	A	7.000 a
6	Maintain CF 125	1	EC	1.0	LB	A/A	Boot	A	7.000 a
7	Maintain CF 125 Plateau MSO	1	EC	0.063	LB	A/A	Boot	A	6.375 b
		2	AS	2.0	OZ/A		Boot	A	
		L		2.0	PT/A		Boot	A	
8	Maintain CF 125 Plateau MSO	1	EC	0.125	LB	A/A	Boot	A	6.438 b
		2	AS	2.0	OZ/A		Boot	A	
		L		2.0	PT/A		Boot	A	
9	Plateau MSO	2	AS	2.0	OZ/A		Boot	A	6.438 b
		L		2.0	PT/A		Boot	A	
10	Nontreated								7.000 a
LSD (P=.05)							0.2284		
Standard Deviation							0.1574		
CV							2.31		
Bartlett's X2							0.003		
P(Bartlett's X2)							0.999		
Replicate F							3.196		
Replicate Prob(F)							0.0393		
Treatment F							12.869		
Treatment Prob(F)							0.0001		

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Trial Comments

The ring is a 1 foot diameter circle