

North Carolina State University

Seedhead Suppression of Tall Fescue

Trial ID: 02-T18 Study Dir.: Jason Hinton
Location: NCSU Turf Field Lab 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: Raleigh **Trial Status:** Complete
State/Prov.: NC
Postal Code: 27695 **Initiation Date:** 04-26-02
Country: USA

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Crop 1: FESAR Tall Fescue

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:	04-26-02
Time of Day:	3:00 PM
Application Method:	Spray
Application Timing:	Boot
Applic. Placement:	Foliar
Air Temp., Unit:	67.3 F
% Relative Humidity:	27
Wind Velocity, Unit:	1.2 MPH
Dew Presence (Y/N):	N
Water Hardness:	N/A
Soil Temp., Unit:	68 F
Soil Moisture:	Fair
% Cloud Cover:	75

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FESAR Mowed
Height, Unit:	4 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 for counting was 1 foot in diameter.

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Crop Code							FESAR	FESAR	FESAR			
Rating Data Type							SEEDHD	SEEDHD	SEEDHD			
Rating Unit							/2 RINGS	/2 RINGS	/2 RINGS			
Rating Date							05-20-02	06-10-02	07-03-02			
Trt No.	Treatment Name	Form Conc	Form Type	Rate 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	6.8 ab	10.0 ab	7.8 a
2	Maintain CF 125	1	EC	0.125	LB A/A			Boot	A	7.8 ab	11.3 a	9.3 a
3	Maintain CF 125	1	EC	0.25	LB A/A			Boot	A	1.8 cd	3.8 cd	3.0 c
4	Maintain CF 125	1	EC	0.5	LB A/A			Boot	A	5.3 abc	6.8 bc	6.5 ab
5	Maintain CF 125	1	EC	0.75	LB A/A			Boot	A	2.3 cd	4.0 cd	2.3 c
6	Maintain CF 125	1	EC	1.0	LB A/A			Boot	A	1.8 cd	3.8 cd	3.0 c
7	Maintain CF 125 Embark	1	EC	0.063	LB A/A			Boot	A	2.0 cd	2.3 d	1.3 c
		2	SL	0.125	LB A/A			Boot	A			
8	Maintain CF 125 Embark	1	EC	0.063	LB A/A			Boot	A	1.5 cd	1.3 d	0.5 c
		2	SL	0.25	LB A/A			Boot	A			
9	Maintain CF 125 Embark	1	EC	0.125	LB A/A			Boot	A	5.0 bcd	5.0 cd	3.5 bc
		2	SL	0.125	LB A/A			Boot	A			
10	Maintain CF 125 Embark	1	EC	0.125	LB A/A			Boot	A	2.0 cd	2.3 d	2.0 c
		2	SL	0.25	LB A/A			Boot	A			
11	Embark	2	SL	0.5	LB A/A			Boot	A	1.3 d	2.0 d	0.3 c
12	Nontreated									9.0 a	11.0 a	7.8 a
LSD (P=.05)							3.97	4.12	3.47			
Standard Deviation							2.75	2.85	2.40			
CV							71.37	54.12	61.37			
Bartlett's X2							19.22	16.865	21.327			
P(Bartlett's X2)							0.057	0.112	0.03*			
Replicate F							6.016	3.635	2.125			
Replicate Prob(F)							0.0022	0.0227	0.1158			
Treatment F							4.034	6.460	6.611			
Treatment Prob(F)							0.0009	0.0001	0.0001			

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

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							FESAR QUALITY	FESAR QUALITY	FESAR QUALITY
							1-9	1-9	1-9
							05-08-02	05-20-02	06-10-02
Crop Code									
Rating Data Type									
Rating Unit									
Rating Date									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate 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	6.938 a
2	Maintain CF 125	1	EC	0.125	LB A/A			Boot	A
								7.00 a	6.875 a
3	Maintain CF 125	1	EC	0.25	LB A/A			Boot	A
								7.00 a	6.125 bcd
4	Maintain CF 125	1	EC	0.5	LB A/A			Boot	A
								6.63 bc	5.125 ef
5	Maintain CF 125	1	EC	0.75	LB A/A			Boot	A
								6.63 bc	4.750 f
6	Maintain CF 125	1	EC	1.0	LB A/A			Boot	A
								6.75 abc	4.500 f
7	Maintain CF 125 Embark	1 2	EC SL	0.063 0.125	LB A/A LB A/A			Boot Boot	A A
								7.00 a	6.625 ab
8	Maintain CF 125 Embark	1 2	EC SL	0.063 0.25	LB A/A LB A/A			Boot Boot	A A
								6.75 abc	6.375 abc
9	Maintain CF 125 Embark	1 2	EC SL	0.125 0.125	LB A/A LB A/A			Boot Boot	A A
								6.88 ab	6.313 abc
10	Maintain CF 125 Embark	1 2	EC SL	0.125 0.25	LB A/A LB A/A			Boot Boot	A A
								6.75 abc	5.750 cde
11	Embark	2	SL	0.5	LB A/A			Boot	A
								6.50 c	5.625 de
12	Nontreated								
								7.00 a	6.875 a
									6.625 a
LSD (P=.05)							0.321	0.6790	0.6279
Standard Deviation							0.222	0.4702	0.4349
CV							3.26	7.85	7.58
Bartlett's X2							2.561	14.719	10.273
P(Bartlett's X2)							0.767	0.196	0.506
Replicate F							1.230	1.484	0.099
Replicate Prob(F)							0.3144	0.2369	0.9602
Treatment F							2.636	12.884	13.281
Treatment Prob(F)							0.0154	0.0001	0.0001

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Trial Comments

The ring is a 1 foot diameter circle