

North Carolina State University

Fastburn Control of Tall Fescue

Trial ID: 02-T20 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:** 05-06-02
Country: USA

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

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	FESAR	Tall Fescue	Festuca arundinacea

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:	05-06-02
Time of Day:	5:00 PM
Application Method:	Spray
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	76.6 F
% Relative Humidity:	47
Wind Velocity, Unit:	2.9 MPH
Dew Presence (Y/N):	N
Water Hardness:	N/A
Soil Temp., Unit:	68 F
Soil Moisture:	Good
% Cloud Cover:	10

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	FESAR Boot
Stage Scale:	4-6 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

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Weed Code							FESAR	FESAR	FESAR		
Rating Data Type							CONTROL	CONTROL	CONTROL		
Rating Unit							%	%	%		
Rating Date							05-07-02	05-08-02	05-09-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	MON 78995	1.6	EC	4.5	LB AE/A		Post	A	0.0 c	10.0 ef	11.3 cde
2	MON 78995	1.6	EC	6.0	LB AE/A		Post	A	5.0 c	15.0 de	21.3 c
3	MON 78996	1.8	EC	4.5	LB AE/A		Post	A	0.0 c	8.8 ef	12.5 cde
4	MON 78996	1.8	EC	6.0	LB AE/A		Post	A	0.0 c	6.3 fg	12.5 cde
5	MON 78997	1.4	EC	4.5	LB AE/A		Post	A	5.0 c	25.0 bc	21.3 c
6	MON 78997	1.4	EC	6.0	LB AE/A		Post	A	12.5 b	31.3 b	38.8 b
7	QuikPRO	66.6	WG	4.5	LB AE/A		Post	A	48.8 a	70.0 a	82.5 a
8	QuikPRO	66.6	WG	6.0	LB AE/A		Post	A	55.0 a	75.0 a	87.5 a
9	MON 78567	1.7	EC	4.5	LB AE/A		Post	A	1.3 c	13.8 de	8.8 cde
10	MON 78567	1.7	EC	6.0	LB AE/A		Post	A	1.3 c	18.8 cd	13.8 cd
11	Roundup ProDry	64.9	WG	4.5	LB AE/A		Post	A	0.0 c	0.0 g	2.5 de
12	Roundup ProDry	64.9	WG	6.0	LB AE/A		Post	A	0.0 c	0.0 g	0.0 e
13	Finale	2	SC	1.5	LB AE/A		Post	A	0.0 c	3.8 fg	18.8 c
14	Nontreated								0.0 c	0.0 g	0.0 e
LSD (P=.05)							6.51	7.31	12.51		
Standard Deviation							4.55	5.12	8.76		
CV							49.51	25.82	37.01		
Bartlett's X2							11.413	14.072	29.22		
P(Bartlett's X2)							0.076	0.12	0.002*		
Replicate F							2.778	2.432	1.372		
Replicate Prob(F)							0.0539	0.0796	0.2656		
Treatment F							65.707	89.538	40.495		
Treatment Prob(F)							0.0001	0.0001	0.0001		

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

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							FESAR CONTROL %	FESAR CONTROL %	FESAR CONTROL %				
							05-13-02	05-20-02	06-03-02				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Product Rate	Product Rate	Unit Unit	Grow Stg	Appl Code			
1	MON 78995	1.6	EC	4.5	LB	AE/A			Post	A	65.0 bcd	93.8 abc	100.0 a
2	MON 78995	1.6	EC	6.0	LB	AE/A			Post	A	67.5 bcd	98.0 a	100.0 a
3	MON 78996	1.8	EC	4.5	LB	AE/A			Post	A	62.5 d	96.0 ab	99.8 a
4	MON 78996	1.8	EC	6.0	LB	AE/A			Post	A	63.8 cd	96.0 ab	100.0 a
5	MON 78997	1.4	EC	4.5	LB	AE/A			Post	A	67.5 bcd	93.8 abc	100.0 a
6	MON 78997	1.4	EC	6.0	LB	AE/A			Post	A	70.0 b	95.0 abc	98.8 ab
7	QuikPRO	66.6	WG	4.5	LB	AE/A			Post	A	78.8 a	91.3 c	95.0 b
8	QuikPRO	66.6	WG	6.0	LB	AE/A			Post	A	78.8 a	92.5 bc	98.5 ab
9	MON 78567	1.7	EC	4.5	LB	AE/A			Post	A	63.8 cd	91.3 c	98.8 ab
10	MON 78567	1.7	EC	6.0	LB	AE/A			Post	A	68.8 bc	93.8 abc	98.8 ab
11	Roundup ProDry	64.9	WG	4.5	LB	AE/A			Post	A	62.5 d	95.0 abc	100.0 a
12	Roundup ProDry	64.9	WG	6.0	LB	AE/A			Post	A	62.5 d	97.0 a	100.0 a
13	Finale	2	SC	1.5	LB	AE/A			Post	A	53.8 e	35.0 d	23.8 c
14	Nontreated										0.0 f	0.0 e	0.0 d
LSD (P=.05)							5.43	4.48	4.55				
Standard Deviation							3.80	3.14	3.19				
CV							6.15	3.76	3.68				
Bartlett's X2							12.441	23.388	24.539				
P(Bartlett's X2)							0.411	0.009*	0.001*				
Replicate F							10.978	4.637	1.541				
Replicate Prob(F)							0.0001	0.0072	0.2193				
Treatment F							99.381	337.962	404.860				
Treatment Prob(F)							0.0001	0.0001	0.0001				

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Weed Code							FESAR	FESAR			
Rating Data Type							CONTROL	CONTROL			
Rating Unit							%	%			
Rating Date							07-03-02	08-07-02			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	MON 78995	1.6	EC	4.5	LB AE/A			Post	A	100.0 a	100.0 a
2	MON 78995	1.6	EC	6.0	LB AE/A			Post	A	100.0 a	100.0 a
3	MON 78996	1.8	EC	4.5	LB AE/A			Post	A	99.8 a	100.0 a
4	MON 78996	1.8	EC	6.0	LB AE/A			Post	A	100.0 a	100.0 a
5	MON 78997	1.4	EC	4.5	LB AE/A			Post	A	100.0 a	100.0 a
6	MON 78997	1.4	EC	6.0	LB AE/A			Post	A	100.0 a	100.0 a
7	QuikPRO	66.6	WG	4.5	LB AE/A			Post	A	100.0 a	100.0 a
8	QuikPRO	66.6	WG	6.0	LB AE/A			Post	A	99.8 a	100.0 a
9	MON 78567	1.7	EC	4.5	LB AE/A			Post	A	100.0 a	100.0 a
10	MON 78567	1.7	EC	6.0	LB AE/A			Post	A	100.0 a	100.0 a
11	Roundup ProDry	64.9	WG	4.5	LB AE/A			Post	A	100.0 a	100.0 a
12	Roundup ProDry	64.9	WG	6.0	LB AE/A			Post	A	100.0 a	100.0 a
13	Finale	2	SC	1.5	LB AE/A			Post	A	12.5 b	0.0 b
14	Nontreated									0.0 c	0.0 b
LSD (P=.05)							3.98	0.00			
Standard Deviation							2.78	0.00			
CV							3.22	0.0			
Bartlett's X2							26.032	0.0			
P(Bartlett's X2)							0.001*	0.00*			
Replicate F							1.038	0.000			
Replicate Prob(F)							0.3864	1.0000			
Treatment F							600.554	0.000			
Treatment Prob(F)							0.0001	1.0000			

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Trial Comments