

North Carolina State University

Control of Tall Fescue with New glyphosate Formulations

Trial ID: 02-T33 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:** 07-19-02
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:	07-19-02
Time of Day:	12 Noon
Application Method:	Spray
Application Timing:	Post
Applic. Placement:	Foliar
Air Temp., Unit:	91.7 F
% Relative Humidity:	53
Wind Velocity, Unit:	1.1 MPH
Dew Presence (Y/N):	N
Water Hardness:	N/A
Soil Temp., Unit:	80 F
Soil Moisture:	Good
% Cloud Cover:	25

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	FESAR Mowed
Stage Scale:	4 Inches

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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								07-29-02	08-07-02	09-06-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	MON 77360	3	L	0.75	LB AE/A			Post	A	42.5 ab	60.0 a	80.0 a
2	MON 77360	3	L	0.375	LB AE/A			Post	A	18.8 de	30.0 cd	51.3 bc
3	MON 78754	3.75	L	0.75	LB AE/A			Post	A	41.3 ab	55.0 a	78.8 a
4	MON 78754	3.75	L	0.375	LB AE/A			Post	A	20.0 cde	37.5 bc	55.0 b
5	MON 79044	3	L	0.75	LB AE/A			Post	A	32.5 bc	50.0 ab	76.3 a
6	MON 79044	3	L	0.375	LB AE/A			Post	A	7.5 ef	21.3 d	28.8 d
7	MON 79045	3	L	0.75	LB AE/A			Post	A	31.3 bcd	48.8 ab	76.3 a
8	MON 79045	3	L	0.375	LB AE/A			Post	A	8.8 ef	20.0 d	38.8 cd
9	MON 79046	3	L	0.75	LB AE/A			Post	A	46.3 a	60.0 a	78.8 a
10	MON 79046	3	L	0.375	LB AE/A			Post	A	13.8 e	25.0 cd	41.3 cd
11	MON 79047	3	L	0.75	LB AE/A			Post	A	36.3 ab	48.8 ab	73.8 a
12	MON 79047	3	L	0.375	LB AE/A			Post	A	12.5 ef	26.3 cd	42.5 bc
13	MON 78270	4.5	L	0.75	LB AE/A			Post	A	43.8 ab	53.8 a	77.5 a
14	MON 78270	4.5	L	0.375	LB AE/A			Post	A	15.0 e	30.0 cd	48.8 bc
15	Nontreated								0.0 f	0.0 e	0.0 e	
LSD (P=.05)								12.95	15.14	13.61		
Standard Deviation								9.06	10.59	9.52		
CV								36.73	28.06	16.86		
Bartlett's X2								17.873	19.068	29.071		
P(Bartlett's X2)								0.162	0.121	0.006*		
Replicate F								0.826	2.241	3.044		
Replicate Prob(F)								0.4870	0.0975	0.0391		
Treatment F								11.266	11.106	24.751		
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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Trial Comments