

North Carolina State University

TOLERANCE OF 'ENDEAVOR' AND 'CORONADO' TALL FESCUE TO POST EMERGENT HERBICIDE APPLICATIONS

Trial ID: 04-D39

Study Director: TRAVIS GANNON

Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

General Trial Information

Study Director: TRAVIS GANNON **Title:** RESEARCH ASSOCIATE
Affiliation: NORTH CAROLINA STATE UNIVERSITY
Postal Code: 27695 **E-mail:** TRAVIS_GANNON@NCSU.EDU
Investigator: FRED YELVERTON **Title:** PROFESSOR
Affiliation: NORTH CAROLINA STATE UNIVERSITY
Postal Code: 27695 **E-mail:** FRED_YELVERTON@NCSU.EDU

Trial Location

City: RALEIGH **Trial Status:** COMPLETED
State/Prov.: NC
Postal Code: 27603 **Initiation Date:** 7-19-04
Country: USA
Directions:

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: BILL WHALEY **Country:** USA
Organization: NORTH CAROLINA STATE UNIVERSITY **Phone No:** 919.515.3509
Address 1: 3720 LAKE WHEELER RD
City: RALEIGH
State/Prov: NC
Postal Code: 27603

Crop Description

Crop 1: FESAR Festuca arundinacea Tall fescue
Variety: ENDEAVOR & CORONADO
BBCH Scale: BGRM

Site and Design

Plot Width, Unit: 5 FT **Site Type:** HOME LAWN
Plot Length, Unit: 5 FT
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Texture: MINERAL
Fert. Level: GOOD

Moisture Conditions

Overall Moisture Conditions: IRRIGATED AS NEEDED

Application Description

	A
Application Date:	7-19-04
Time of Day:	9-10 AM
Application Method:	SPRAY
Application Timing:	JULY 19
Application Placement:	FOLIAR
Applied By:	T GANNON
Air Temperature, Unit:	84.9 F
% Relative Humidity:	75
Wind Velocity, Unit:	1.1 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	85 F
Soil Moisture:	GOOD
% Cloud Cover:	25

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Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	FESAR BGRM
Stage Scale Used:	MOWED
Height, Unit:	4 IN
Height Minimum, Maximum:	4 4

Application Equipment

	A
Appl. Equipment:	CO2 SPRAY
Operating Pressure:	30
Pressure Unit:	PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	VS8006XR
Nozzle Spacing, Unit:	10 INCH
Nozzles/Row:	4
Boom Length, Unit:	40 INCH
Boom Height, Unit:	10 INCH
Ground Speed, Unit:	2.5 MPH
Carrier:	WATER
Spray Volume:	107
Volume Unit:	GPA
Propellant:	COMP CO2

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					FESAR BGRM	FESAR BGRM	FESAR BGRM	FESAR BGRM	FESAR BGRM
					Tall fescue	Tall fescue	Tall fescue	Tall fescue	Tall fescue
					7-21-04	7-29-04	8-2-04	8-11-04	8-16-04
					PHYTO	PHYTO	PHYTO	PHYTO	PHYTO
					%	%	%	%	%
					2	10	14	23	28
Trt-Eval Interval					2 DA-A	10 DA-A	14 DA-A	23 DA-A	28 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	LABS 146-F01	1.16 L		2 fl oz/1000 ft2	2 fl oz/1000 ft2		JULY 19 A		0.0 a
2	LABS 146-F01	1.16 L		4 fl oz/1000 ft2	4 fl oz/1000 ft2		JULY 19 A		0.0 a
3	LABS 146-F01	1.16 L		6 fl oz/1000 ft2	6 fl oz/1000 ft2		JULY 19 A		0.0 a
4	LABS 146-F01	1.16 L		8 fl oz/1000 ft2	8 fl oz/1000 ft2		JULY 19 A		0.0 a
5	LABS 146-F01	1.16 L		16 fl oz/1000 ft2	16 fl oz/1000 ft2		JULY 19 A		0.0 a
6	WEED-B-GON	0.69 L		5 fl oz/1000 ft2	5 fl oz/1000 ft2		JULY 19 A		0.0 a
7	WEED-B-GON	0.69 L		20 fl oz/1000 ft2	20 fl oz/1000 ft2		JULY 19 A		0.0 a
8	NONTREATED								0.0 a
LSD (P=.05)					0.00	4.85	0.00	0.00	0.00
Standard Deviation					0.00	3.30	0.00	0.00	0.00
CV					0.0	95.88	0.0	0.0	0.0
Grand Mean					0.0	3.44	0.0	0.0	0.0
Bartlett's X2					0.0	1.538	0.0	0.0	0.0
P(Bartlett's X2)					.	0.909	.	.	.
Friedman's X2					0.0	9.646	0.0	0.0	0.0
P(Friedman's X2)					1.00	0.21	1.00	1.00	1.00
Replicate F					0.000	1.055	0.000	0.000	0.000
Replicate Prob(F)					1.0000	0.3892	1.0000	1.0000	1.0000
Treatment F					0.000	2.096	0.000	0.000	0.000
Treatment Prob(F)					1.0000	0.0896	1.0000	1.0000	1.0000

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Trial Comments