

North Carolina State University

Tolerance of 'Confederate' Tall Fescue to Selected Experimental Herbicides

Trial ID: 02-D14 Study Dir.: 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
Investigator: Fred Yelverton **Title:** Professor
Affiliation: North Carolina State University
Postal Code: 27695

TRIAL LOCATION

City: Raleigh **Trial Status:** Completed
State/Prov.: NC
Postal Code: 27695 **Initiation Date:** 05-23-02
Country: USA

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

Crop 1: FESAR tall fescue **Variety:** Confederate

SITE AND DESIGN

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

APPLICATION DESCRIPTION

	A	B
Application Date:	05-23-02	06-20-02
Time of Day:	2-3 PM	12-2 PM
Application Method:	SPRAY	SPRAY
Application Timing:	MAY 23	JUNE 20
Applic. Placement:	FOLIAR	FOLIAR
Air Temp., Unit:	70.1 F	81 F
% Relative Humidity:	30	51
Wind Velocity, Unit:	1.2 MPH	2.6 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	71 F	81 F
Soil Moisture:	GOOD	DRY
% Cloud Cover:	10	30

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	FESAR MOWED	FESAR MOWED
Stage Scale:	ESTABLISH	ESTABLISH
Height, Unit:	4 INCH	4 INCH

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 SPRAY	CO2 SPRAY
Operating Pressure:	42 PSI	42 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	VS8002XR	VS8002XR
Nozzle Spacing, Unit:	10 INCH	10 INCH
Nozzles/Row:	4	4
Boom Length, Unit:	40 INCH	40 INCH
Boom Height, Unit:	10 INCH	10 INCH
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	32.5 GPA	32.5 GPA
Propellant:	COMP. CO2	COMP. CO2

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Location: NCSU Turf Field Lab Investigator: Fred Yelverton

Crop Code								FESAR	FESAR	FESAR	FESAR		
Rating Data Type								PHYTO	PHYTO	PHYTO	PHYTO		
Rating Unit								%	%	%	%		
Rating Date								05-30-02	06-06-02	06-12-02	06-20-02		
Trt-Eval Interval								7 DA-A	14 DA-A	20 DA-A	28 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	Mesotrione X-77	4 SC	L	56.7 G	A/A 0.25 % V/V	140 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
2	Mesotrione X-77	4 SC	L	113 G	A/A 0.25 % V/V	280 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
3	Mesotrione X-77	4 SC	L	227 G	A/A 0.25 % V/V	560 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
4	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 56.7 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 140 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
5	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
6	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	113 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	280 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
7	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	227 G 227 G	A/A A/A 0.25 % V/V 0.25 % V/V	560 G 560 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
8	Gallery	75 DF		1.33 LB/A				POST	A	0.0 a	0.0 a	0.0 a	0.0 a
9	Mesotrione Cloquintocet X-77	4 SC 100 EC	L	227 G 910 G	A/A A/A 0.25 % V/V	560 G 2240 G	A/HA A/HA	POST POST POST	A A A	0.0 a	0.0 a	0.0 a	0.0 a
10	Nontreated									0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)								0.00	0.00	0.00	0.00		
Standard Deviation								0.00	0.00	0.00	0.00		
CV								0.0	0.0	0.0	0.0		
Bartlett's X2								0.0	0.0	0.0	0.0		
P(Bartlett's X2)								0.00*	0.00*	0.00*	0.00*		
Replicate F								0.000	0.000	0.000	0.000		
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000		
Treatment F								0.000	0.000	0.000	0.000		
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000		

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Crop Code	FESAR	FESAR	FESAR	FESAR
Rating Data Type	PHYTO	PHYTO	PHYTO	PHYTO
Rating Unit	%	%	%	%
Rating Date	05-30-02	06-06-02	06-12-02	06-20-02
Trt-Eval Interval	7 DA-A	14 DA-A	20 DA-A	28 DA-A

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

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Crop Code								FESAR	FESAR	FESAR	FESAR		
Rating Data Type								PHYTO	PHYTO	PHYTO	PHYTO		
Rating Unit								%	%	%	%		
Rating Date								06-26-02	07-01-02	07-08-02	07-15-02		
Trt-Eval Interval								34 DA-A	39 DA-A	46 DA-A	53 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	Mesotrione X-77	4 SC	L	56.7 G	A/A 0.25 % V/V	140 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
2	Mesotrione X-77	4 SC	L	113 G	A/A 0.25 % V/V	280 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
3	Mesotrione X-77	4 SC	L	227 G	A/A 0.25 % V/V	560 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
4	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 56.7 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 140 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
5	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
6	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	113 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	280 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
7	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	227 G 227 G	A/A A/A 0.25 % V/V 0.25 % V/V	560 G 560 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
8	Gallery	75 DF		1.33 LB/A				POST	A	0.0 a	0.0 a	0.0 a	0.0 a
9	Mesotrione Cloquintocet X-77	4 SC 100 EC	L	227 G 910 G	A/A A/A 0.25 % V/V	560 G 2240 G	A/HA A/HA	POST POST POST	A A A	0.0 a	0.0 a	0.0 a	0.0 a
10	Nontreated									0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)								0.00	0.00	0.00	0.00		
Standard Deviation								0.00	0.00	0.00	0.00		
CV								0.0	0.0	0.0	0.0		
Bartlett's X2								0.0	0.0	0.0	0.0		
P(Bartlett's X2)								0.00*	0.00*	0.00*	0.00*		
Replicate F								0.000	0.000	0.000	0.000		
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000		
Treatment F								0.000	0.000	0.000	0.000		
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000		

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Rating Data Type	PHYTO	PHYTO	PHYTO	PHYTO
Rating Unit	%	%	%	%
Rating Date	06-26-02	07-01-02	07-08-02	07-15-02
Trt-Eval Interval	34 DA-A	39 DA-A	46 DA-A	53 DA-A

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Crop Code								FESAR	FESAR	FESAR	FESAR			
Rating Data Type								PHYTO	PHYTO	PHYTO	PHYTO			
Rating Unit								%	%	%	%			
Rating Date								07-26-02	08-05-02	07-26-02	07-31-02			
Trt-Eval Interval								64 DA-A	74 DA-A	64 DA-A	69 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code					
1	Mesotrione X-77	4	SC L	56.7	G A/A 0.25 % V/V	140	G A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a	
2	Mesotrione X-77	4	SC L	113	G A/A 0.25 % V/V	280	G A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a	
3	Mesotrione X-77	4	SC L	227	G A/A 0.25 % V/V	560	G A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a	
4	Mesotrione X-77 Mesotrione X-77	4	SC L L	56.7	G A/A 0.25 % V/V	140	G A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a	
5	Mesotrione X-77 Mesotrione X-77	4	SC L L	56.7	G A/A 0.25 % V/V	140	G A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a	
6	Mesotrione X-77 Mesotrione X-77	4	SC L L	113	G A/A 0.25 % V/V	280	G A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a	
7	Mesotrione X-77 Mesotrione X-77	4	SC L L	227	G A/A 0.25 % V/V	560	G A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a	
8	Gallery	75	DF	1.33	LB/A			POST	A	0.0 a	0.0 a	0.0 a	0.0 a	
9	Mesotrione Cloquintocet X-77	4	SC 100 EC L	227	G A/A 910 G A/A 0.25 % V/V	560	G A/HA 2240 G A/HA	POST POST POST	A A A	0.0 a	0.0 a	0.0 a	0.0 a	
10	Nontreated										0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)								0.00	0.00	0.00	0.00			
Standard Deviation								0.00	0.00	0.00	0.00			
CV								0.0	0.0	0.0	0.0			
Bartlett's X2								0.0	0.0	0.0	0.0			
P(Bartlett's X2)								0.00*	0.00*	0.00*	0.00*			
Replicate F								0.000	0.000	0.000	0.000			
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000			
Treatment F								0.000	0.000	0.000	0.000			
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000			

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Rating Data Type	PHYTO	PHYTO	PHYTO	PHYTO
Rating Unit	%	%	%	%
Rating Date	07-26-02	08-05-02	07-26-02	07-31-02
Trt-Eval Interval	64 DA-A	74 DA-A	64 DA-A	69 DA-A

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Crop Code								FESAR	FESAR	FESAR	FESAR		
Rating Data Type								PHYTO	PHYTO	PHYTO	PHYTO		
Rating Unit								%	%	%	%		
Rating Date								08-05-02	08-13-02	08-19-02	08-26-02		
Trt-Eval Interval								74 DA-A	82 DA-A	88 DA-A	95 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	Mesotrione X-77	4 SC	L	56.7 G	A/A 0.25 % V/V	140 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
2	Mesotrione X-77	4 SC	L	113 G	A/A 0.25 % V/V	280 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
3	Mesotrione X-77	4 SC	L	227 G	A/A 0.25 % V/V	560 G	A/HA	POST POST	A A	0.0 a	0.0 a	0.0 a	0.0 a
4	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 56.7 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 140 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
5	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
6	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	113 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	280 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
7	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	227 G 227 G	A/A A/A 0.25 % V/V 0.25 % V/V	560 G 560 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	0.0 a	0.0 a	0.0 a	0.0 a
8	Gallery	75 DF		1.33 LB/A				POST	A	0.0 a	0.0 a	0.0 a	0.0 a
9	Mesotrione Cloquintocet X-77	4 SC 100 EC	L	227 G 910 G	A/A A/A 0.25 % V/V	560 G 2240 G	A/HA A/HA	POST POST POST	A A A	0.0 a	0.0 a	0.0 a	0.0 a
10	Nontreated									0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)								0.00	0.00	0.00	0.00		
Standard Deviation								0.00	0.00	0.00	0.00		
CV								0.0	0.0	0.0	0.0		
Bartlett's X2								0.0	0.0	0.0	0.0		
P(Bartlett's X2)								0.00*	0.00*	0.00*	0.00*		
Replicate F								0.000	0.000	0.000	0.000		
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000		
Treatment F								0.000	0.000	0.000	0.000		
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000		

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Crop Code	FESAR	FESAR	FESAR	FESAR
Rating Data Type	PHYTO	PHYTO	PHYTO	PHYTO
Rating Unit	%	%	%	%
Rating Date	08-05-02	08-13-02	08-19-02	08-26-02
Trt-Eval Interval	74 DA-A	82 DA-A	88 DA-A	95 DA-A

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Trial ID: 02-D14

Study Dir.: Travis Gannon

Location: NCSU Turf Field Lab Investigator: Fred Yelverton

Crop Code								TURF	TURF	TURF	TURF		
Rating Data Type								QUALITY	QUALITY	QUALITY	QUALITY		
Rating Unit								1-9	1-9	1-9	1-9		
Rating Date								05-30-02	06-06-02	06-12-02	06-20-02		
Trt-Eval Interval								7 DA-A	14 DA-A	20 DA-A	28 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Mesotrione X-77	4	SC	56.7	G A/A	140	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
2	Mesotrione X-77	4	SC	113	G A/A	280	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
3	Mesotrione X-77	4	SC	227	G A/A	560	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
4	Mesotrione X-77	4	SC	56.7	G A/A	140	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
	Mesotrione X-77	4	SC	56.7	G A/A	140	G A/HA	6 WEEK	B				
			L	0.25	% V/V			6 WEEK	B				
5	Mesotrione X-77	4	SC	56.7	G A/A	140	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
	Mesotrione X-77	4	SC	113	G A/A	280	G A/HA	6 WEEK	B				
			L	0.25	% V/V			6 WEEK	B				
6	Mesotrione X-77	4	SC	113	G A/A	280	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
	Mesotrione X-77	4	SC	113	G A/A	280	G A/HA	6 WEEK	B				
			L	0.25	% V/V			6 WEEK	B				
7	Mesotrione X-77	4	SC	227	G A/A	560	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% V/V			POST	A				
	Mesotrione X-77	4	SC	227	G A/A	560	G A/HA	6 WEEK	B				
			L	0.25	% V/V			6 WEEK	B				
8	Gallery	75	DF	1.33	LB/A			POST	A	7.0 a	7.0 a	7.0 a	7.0 a
9	Mesotrione Cloquintocet X-77	4	SC	227	G A/A	560	G A/HA	POST	A	7.0 a	7.0 a	7.0 a	7.0 a
		100	EC	910	G A/A	2240	G A/HA	POST	A				
			L	0.25	% V/V			POST	A				
10	Nontreated									7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)										0.00	0.00	0.00	0.00
Standard Deviation										0.00	0.00	0.00	0.00
CV										0.0	0.0	0.0	0.0
Bartlett's X2										0.0	0.0	0.0	0.0
P(Bartlett's X2)										0.00*	0.00*	0.00*	0.00*
Replicate F										0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000

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Crop Code	TURF	TURF	TURF	TURF
Rating Data Type	QUALITY	QUALITY	QUALITY	QUALITY
Rating Unit	1-9	1-9	1-9	1-9
Rating Date	05-30-02	06-06-02	06-12-02	06-20-02
Trt-Eval Interval	7 DA-A	14 DA-A	20 DA-A	28 DA-A

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Rating Data Type								QUALITY	QUALITY	QUALITY	QUALITY		
Rating Unit								1-9	1-9	1-9	1-9		
Rating Date								06-26-02	07-01-02	07-08-02	07-15-02		
Trt-Eval Interval								34 DA-A	39 DA-A	46 DA-A	53 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Mesotrione X-77	4 SC	L	56.7 G	A/A 0.25 % V/V	140 G	A/HA	POST POST	A A	7.0 a	7.0 a	7.0 a	7.0 a
2	Mesotrione X-77	4 SC	L	113 G	A/A 0.25 % V/V	280 G	A/HA	POST POST	A A	7.0 a	7.0 a	7.0 a	7.0 a
3	Mesotrione X-77	4 SC	L	227 G	A/A 0.25 % V/V	560 G	A/HA	POST POST	A A	7.0 a	7.0 a	7.0 a	7.0 a
4	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 56.7 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 140 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	7.0 a	7.0 a
5	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	7.0 a	7.0 a
6	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	113 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	280 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	7.0 a	7.0 a
7	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	227 G 227 G	A/A A/A 0.25 % V/V 0.25 % V/V	560 G 560 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	7.0 a	7.0 a
8	Gallery	75 DF		1.33 LB/A				POST	A	7.0 a	7.0 a	7.0 a	7.0 a
9	Mesotrione Cloquintocet X-77	4 SC 100 EC L		227 G 910 G 0.25 % V/V	A/A A/A 0.25 % V/V	560 G 2240 G	A/HA A/HA	POST POST POST	A A A	7.0 a	7.0 a	7.0 a	7.0 a
10	Nontreated									7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)								0.00	0.00	0.00	0.00		
Standard Deviation								0.00	0.00	0.00	0.00		
CV								0.0	0.0	0.0	0.0		
Bartlett's X2								0.0	0.0	0.0	0.0		
P(Bartlett's X2)								0.00*	0.00*	0.00*	0.00*		
Replicate F								0.000	0.000	0.000	0.000		
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000		
Treatment F								0.000	0.000	0.000	0.000		
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000		

North Carolina State University

Tolerance of 'Confederate' Tall Fescue to Selected Experimental Herbicides

Trial ID: 02-D14

Study Dir.: Travis Gannon

Location: NCSU Turf Field Lab Investigator: Fred Yelverton

Crop Code	TURF	TURF	TURF	TURF
Rating Data Type	QUALITY	QUALITY	QUALITY	QUALITY
Rating Unit	1-9	1-9	1-9	1-9
Rating Date	06-26-02	07-01-02	07-08-02	07-15-02
Trt-Eval Interval	34 DA-A	39 DA-A	46 DA-A	53 DA-A

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

North Carolina State University

Tolerance of 'Confederate' Tall Fescue to Selected Experimental Herbicides

Trial ID: 02-D14

Study Dir.: Travis Gannon

Location: NCSU Turf Field Lab Investigator: Fred Yelverton

Crop Code								TURF	TURF	TURF	TURF		
Rating Data Type								QUALITY	QUALITY	QUALITY	QUALITY		
Rating Unit								1-9	1-9	1-9	1-9		
Rating Date								07-26-02	07-31-02	08-05-02	08-13-02		
Trt-Eval Interval								64 DA-A	69 DA-A	74 DA-A	82 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Mesotrione X-77	4 SC	L	56.7 G	A/A 0.25 % V/V	140 G	A/HA	POST POST	A A	7.0 a	7.0 a	3.88 b	4.00 b
2	Mesotrione X-77	4 SC	L	113 G	A/A 0.25 % V/V	280 G	A/HA	POST POST	A A	7.0 a	7.0 a	4.25 ab	4.38 ab
3	Mesotrione X-77	4 SC	L	227 G	A/A 0.25 % V/V	560 G	A/HA	POST POST	A A	7.0 a	7.0 a	5.13 ab	5.25 ab
4	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 56.7 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 140 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	4.88 ab	5.00 ab
5	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	56.7 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	140 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	5.25 ab	5.25 ab
6	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	113 G 113 G	A/A A/A 0.25 % V/V 0.25 % V/V	280 G 280 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	4.88 ab	5.13 ab
7	Mesotrione X-77 Mesotrione X-77	4 SC 4 SC	L L	227 G 227 G	A/A A/A 0.25 % V/V 0.25 % V/V	560 G 560 G	A/HA A/HA	POST POST 6 WEEK 6 WEEK	A A B B	7.0 a	7.0 a	5.63 a	5.75 a
8	Gallery	75 DF		1.33 LB/A				POST	A	7.0 a	7.0 a	4.25 ab	4.63 ab
9	Mesotrione Cloquintocet X-77	4 SC 100 EC	L	227 G 910 G	A/A A/A 0.25 % V/V	560 G 2240 G	A/HA A/HA	POST POST POST	A A A	7.0 a	7.0 a	4.25 ab	4.25 b
10	Nontreated									7.0 a	7.0 a	4.25 ab	4.63 ab
LSD (P=.05)								0.00	0.00	1.589	1.401		
Standard Deviation								0.00	0.00	1.095	0.966		
CV								0.0	0.0	23.48	20.01		
Bartlett's X2								0.0	0.0	7.948	3.225		
P(Bartlett's X2)								0.00*	0.00*	0.539	0.919		
Replicate F								0.000	0.000	3.008	3.244		
Replicate Prob(F)								1.0000	1.0000	0.0476	0.0374		
Treatment F								0.000	0.000	1.066	1.254		
Treatment Prob(F)								1.0000	1.0000	0.4174	0.3055		

North Carolina State University

Tolerance of 'Confederate' Tall Fescue to Selected Experimental Herbicides

Trial ID: 02-D14

Study Dir.: Travis Gannon

Location: NCSU Turf Field Lab Investigator: Fred Yelverton

Crop Code	TURF	TURF	TURF	TURF
Rating Data Type	QUALITY	QUALITY	QUALITY	QUALITY
Rating Unit	1-9	1-9	1-9	1-9
Rating Date	07-26-02	07-31-02	08-05-02	08-13-02
Trt-Eval Interval	64 DA-A	69 DA-A	74 DA-A	82 DA-A

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

North Carolina State University

Tolerance of 'Confederate' Tall Fescue to Selected Experimental Herbicides

Trial ID: 02-D14

Study Dir.: Travis Gannon

Location: NCSU Turf Field Lab Investigator: Fred Yelverton

Trial Comments

6-20-02 - No injury from any previously applied treatments. Sequential applications applied to treatment # 4, 5, and 6 today. At application, 'Confederate' tall fescue is under slight drought stress.

7-8-02 - No injury from any previously applied treatments.

7-26-02 - No injury from any previously applied treatments.

8-5-02 - No phytotoxicity from any previously applied treatments. Turf quality reductions are due to 'Confederate' tall fescue being under severe drought stress. Normal irrigation practices were discontinued on 8-1-02 due to lack of water.