

North Carolina State University

Preemergence Control of Goosegrass Using Single and Split Applications

Trial ID: 02-T03

Study Dir.: Jason Hinton

Location: Thorndale C.C.

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: Oxford **Trial Status:** Complete
State/Prov.: NC
Postal Code: 27656 **Initiation Date:** 02-28-02
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.	ELEIN	Goosegrass	Eleusine indica

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:	02-28-02	04-24-02
Time of Day:	5:45 PM	2:15 PM
Application Method:	Spry/Sprd	Spray
Application Timing:	Pre	8 Weeks
Applic. Placement:	Soil	Soil
Air Temp., Unit:	45.1 F	67.4 F
% Relative Humidity:	21	38
Wind Velocity, Unit:	3.2 MPH	3.2 MPH
Dew Presence (Y/N):	N	N
Water Hardness:	N/A	N/A
Soil Temp., Unit:	42 F	67 F
Soil Moisture:	Poor	Poor
% Cloud Cover:	0	20

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ELEIN Pre	ELEIN Pre

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 Spray	CO2 Spray
Operating Pressure:	36 PSI	36 PSI
Nozzle Type:	Flat Fan	Flat Fan
Nozzle Size:	8002 XR	8002 XR
Nozzle Spacing, Unit:	10 Inch	10 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:	Compr.CO2	Compr.CO2

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								ELEIN	ELEIN	ELEIN		
								CONTROL	CONTROL	CONTROL		
								%	%	%		
								07-23-02	08-12-02	09-18-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Dimension	40	WP	0.38	LB A/A			Pre	A	96.3 ab	83.8 bc	87.5 ab
	Dimension	40	WP	0.38	LB A/A			8 Weeks	B			
2	Dimension	40	WP	0.5	LB A/A			Pre	A	96.3 ab	93.8 ab	88.8 ab
	Dimension	40	WP	0.25	LB A/A			8 Weeks	B			
3	Dimension	40	WP	0.5	LB A/A			Pre	A	92.5 b	78.8 c	80.0 b
4	Dimension	40	WP	0.75	LB A/A			Pre	A	96.3 ab	91.3 ab	87.5 ab
5	Barricade	65	WG	0.5	LB A/A			Pre	A	96.3 ab	83.8 bc	83.8 ab
6	Barricade	65	WG	0.75	LB A/A			Pre	A	98.8 a	97.5 a	91.3 a
7	Nontreated									0.0 c	0.0 d	0.0 c
LSD (P=.05)								4.79	11.16	9.47		
Standard Deviation								3.23	7.51	6.38		
CV								3.92	9.95	8.61		
Bartlett's X2								3.03	5.203	4.289		
P(Bartlett's X2)								0.695	0.392	0.509		
Replicate F								1.000	0.016	3.066		
Replicate Prob(F)								0.4155	0.9972	0.0545		
Treatment F								507.286	81.633	106.317		
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