

North Carolina State University

Evaluation of Flazasulfuron for Henbit Control in Utility Turf Areas

Trial ID: 02-D16 Study Dir.: Travis Gannon
Location: Lake Wheeler Farm 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:** 03-27-02
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.	LAMAM	henbit	Lamium amplexicaule

Crop 1: CYNDA bermudagrass

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:	03-27-02
Time of Day:	2-3 PM
Application Method:	SPRAY
Application Timing:	MARCH 27
Applic. Placement:	FOLIAR
Air Temp., Unit:	67.9 F
% Relative Humidity:	33
Wind Velocity, Unit:	2.3 MPH
Dew Presence (Y/N):	N
Soil Temp., Unit:	60 F
Soil Moisture:	GOOD
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA DORMANT
Stage Scale:	UNMOWED
Height, Unit:	6 INCH

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WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LAMAM
Stage Scale:	E FLOWER
Density, Unit:	0-10 FT ²

APPLICATION EQUIPMENT

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

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Weed Code										LAMAM	LAMAM	LAMAM
Rating Data Type										CONTROL	CONTROL	CONTROL
Rating Unit										%	%	%
Rating Date										04-02-02	04-12-02	04-18-02
Trt-Eval Interval										6 DA-A	16 DA-A	22 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Product Rate	Product Unit	Grow Stg	Appl Code			
1	Flazasulfuron X-77	25	DG L	1.5	OZ/A % V/V			MARCH27 A MARCH27 A		0.0 a	16.3 b	76.3 ab
2	Flazasulfuron X-77	25	DG L	2.25	OZ/A % V/V			MARCH27 A MARCH27 A		0.0 a	18.8 b	67.5 b
3	Flazasulfuron X-77	25	DG L	3	OZ/A % V/V			MARCH27 A MARCH27 A		0.0 a	28.8 b	87.5 a
4	Flazasulfuron Roundup Original X-77	25	DG 3 AS L	3	OZ/A 1 PT/A % V/V			MARCH27 A MARCH27 A MARCH27 A		0.0 a	46.3 a	91.3 a
5	Oust X-77		WG L	0.75	OZ/A % V/V			MARCH27 A MARCH27 A		0.0 a	18.8 b	87.5 a
6	Triamine Agri Dex COC		SL SL	3	PT/A QT/A			MARCH27 A MARCH27 A		0.0 a	17.5 b	63.8 b
7	Nontreated									0.0 a	0.0 c	0.0 c
LSD (P=.05)										0.00	15.83	17.83
Standard Deviation										0.00	10.66	12.00
CV										0.0	51.01	17.73
Bartlett's X2										0.0	10.807	21.359
P(Bartlett's X2)										0.00*	0.055	0.001*
Replicate F										0.000	5.646	2.403
Replicate Prob(F)										1.0000	0.0066	0.1013
Treatment F										0.000	6.946	27.818
Treatment Prob(F)										1.0000	0.0006	0.0001

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

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Trial Comments

4-18-02 - Henbit control ratings discontinued due to naturally dying out.