

North Carolina State University

POSTEMERGENCE CATSEAR DANDELION CONTROL IN COMMON BERMUDGRASS USING FLAZASULFURON VS AN INDUSTRY STANDARD

Trial ID: 04-T4

Study Director: L.S. WARREN

Location: SANDHILLS STATION

Investigator: Fred Yelverton

General Trial Information

Study Director: L.S. WARREN **Title:** RESEARCH ASSOCIATE
Affiliation: NORTH CAROLINA STATE UNIVERSITY
Postal Code: 27695 **E-mail:** leon_warren@ncsu.edu
Investigator: Fred Yelverton **Title:** PROFESSOR
Affiliation: NORTH CAROLINA STATE UNIVERSITY
Postal Code: 27695 **E-mail:** fred_yelverton@ncsu.edu

Trial Location
City: JACKSON SPRINGS **Trial Status:** COMPLETED
State/Prov.: NC **Initiation Date:** 4-9-04

Country: USA
Directions:

Objectives:

TO EVALUATE FLAZASULFURON VS MANOR FOR POSTEMERGENCE CATSEAR DANDELION CONTROL IN COMMON BERMUDAGRASS

Conclusions:

Cooperator/Landowner

Cooperator: MARK THOMPSON **Country:** USA
Organization: SANDHILLS RESEARCH STATION **Phone No:** 910/974-4673
City: JACKSON SPRINGS
State/Prov: NC

Crop Description

Crop 1: CYNDA Cynodon dactylon Bermuda grass
Variety: COMMON
BBCH Scale: BGRM

Pest Description

Pest 1 Type: W **Code:** HRYRA Hypochoeris radicata
Common Name: Cat's-ear dandelion

Site and Design

Plot Width, Unit: 4 FT **Site Type:** TURF - RESEARCH
Plot Length, Unit: 10 FT **Tillage Type:** NA
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

Texture: LOAMY SAND
Fert. Level: FAIR TO GOOD

Moisture Conditions

Overall Moisture Conditions: MAR 1.42"; APR 1.32"; MAY 2.44"

Closest Weather Station: SANDHILLS RESEARCH STATION **Distance:** 1 **Unit:** MI

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Application Description

	A
Application Date:	4-9-04
Time of Day:	1:30 PM
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROFOL
Applied By:	L.S. WARREN
Air Temperature, Unit:	75 F
% Relative Humidity:	62
Wind Velocity, Unit:	2.7 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	76 F
Soil Moisture:	SLIDRY
% Cloud Cover:	0

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CYNDA BGRM
Stage Scale Used:	BBCH
Height, Unit:	1.0 IN

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	HRYRA W
Diameter, Unit:	6.0 IN
Height, Unit:	1.0 IN
Density, Unit:	3.0 FT2

Application Equipment

	A
Appl. Equipment:	BACSPR
Operating Pressure:	28
Pressure Unit:	PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	XR 8002VS
Nozzle Spacing, Unit:	10 IN
Band Width, Unit:	40 IN
Boom Length, Unit:	40 IN
Boom Height, Unit:	10 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume:	32.5
Volume Unit:	GPA
Propellant:	COMCO2
Tank Mix (Y/N):	Y

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Pest Type	W Weed			
Pest Code	HRYRA			
Rating Date	4-22-04			
Rating Data Type	PHYTO			
Rating Unit	PERCENT			
Assessed By	L.S. WARREN			
Days After Last Applic.	13			
Trt-Eval Interval	13 DA-A			
ARM Action Codes	P			
Trt Treatment	Form	Rate	Other	Growth
No. Name	Conc Type	Rate Unit	Rate Unit	Stage Code
1 FLAZASULFURON	25 WG	0.5 oz wt/a		APR 9 A
X-77 SPREADER	L	0.25 % v/v		APR 9 A
2 FLAZASULFURON	25 WG	1.0 oz wt/a		APR 9 A
X-77 SPREADER	L	0.25 % v/v		APR 9 A
3 FLAZASULFURON	25 WG	1.5 oz wt/a		APR 9 A
X-77 SPREADER	L	0.25 % v/v		APR 9 A
4 FLAZASULFURON	25 WG	3.0 oz wt/a		APR 9 A
X-77 SPREADER	L	0.25 % v/v		APR 9 A
5 MANOR	60 WG	0.33 oz wt/a		APR 9 A
X-77 SPREADER	L	0.25 % v/v		APR 9 A
6 CHECK				
LSD (P=.05)		11.00	15.34	10.32
Standard Deviation		7.30	10.18	6.85
CV		31.87	17.2	21.59
Grand Mean		22.92	59.17	31.71
Bartlett's X2		2.777	9.532	2.278
P(Bartlett's X2)		0.596	0.023*	0.517
Friedman's X2		9.107	18.75	18.964
P(Friedman's X2)		0.105	0.002	0.002
Replicate F		0.078	0.268	0.911
Replicate Prob(F)		0.9709	0.8474	0.4590
Treatment F		9.688	61.472	117.409
Treatment Prob(F)		0.0003	0.0001	0.0001

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.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	W Weed	W Weed
1	FLAZASULFURON X-77 SPREADER	25	WG	0.5 oz wt/a L 0.25 % v/v				APR 9 A APR 9 A		93.8 c	57.5 c
2	FLAZASULFURON X-77 SPREADER	25	WG	1.0 oz wt/a L 0.25 % v/v				APR 9 A APR 9 A		94.5 bc	75.0 b
3	FLAZASULFURON X-77 SPREADER	25	WG	1.5 oz wt/a L 0.25 % v/v				APR 9 A APR 9 A		98.8 ab	77.5 b
4	FLAZASULFURON X-77 SPREADER	25	WG	3.0 oz wt/a L 0.25 % v/v				APR 9 A APR 9 A		98.8 ab	86.3 b
5	MANOR X-77 SPREADER	60	WG	0.33 oz wt/a L 0.25 % v/v				APR 9 A APR 9 A		100.0 a	100.0 a
6	CHECK									0.0 d	0.0 d
LSD (P=.05)										4.52	12.90
Standard Deviation										3.00	8.56
CV										3.7	12.96
Grand Mean										80.96	66.04
Bartlett's X2										1.713	5.358
P(Bartlett's X2)										0.634	0.147
Friedman's X2										13.179	17.321
P(Friedman's X2)										0.022	0.004
Replicate F										0.165	1.227
Replicate Prob(F)										0.9180	0.3343
Treatment F										703.034	67.783
Treatment Prob(F)										0.0001	0.0001

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Trial Comments

04-22-04: HRYRA INJURY SYMPTOMS CONSISTED OF MAROON-TINTED GROWING POINTS AND DULL YELLOWISH-GREEN LEAVES

05-20-04: SURVIVING HRYRA IN ROSETTE STAGE AND CONTINUING TO RECOVER IN ALL FLAZASULFURON TREATED PLOTS