

# North Carolina State University

## POSTEMERGENCE FIELD PANSY CONTROL IN ROADSIDE TURF USING FLAZASULFURON VS LABELED SULFONYLUREA HERBICIDES

Trial ID: 04-T19  
Location: BELTLINE ROADSIDE

Study Director: L.S. WARREN  
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:** RALEIGH **Trial Status:** COMPLETED  
**State/Prov.:** NC  
**Postal Code:** 27606 **Initiation Date:** 3-17-04  
**Country:** USA  
**Directions:**

### Objectives:

TO EVALUATE FLAZASULFURON VS LABELED SULFONYLUREA HERBICIDES FOR POSTEMERGENCE FIELD PANSY CONTROL IN ROADSIDE TURF

### Conclusions:

### Cooperator/Landowner

**Organization:** NORTH CAROLINA DOT **Country:** USA  
**City:** RALEIGH  
**State/Prov:** NC  
**Postal Code:** 27606

### Crop Description

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

### Pest Description

**Pest 1 Type:** W **Code:** VIORA Viola rafinesquii  
**Common Name:** Pansy, field

### Site and Design

**Plot Width, Unit:** 5 FT **Site Type:** ROAD RIGHT OF WAY  
**Plot Length, Unit:** 10 FT **Tillage Type:** NA  
**Replications:** 4 **Study Design:** Randomized Complete Block

**Trial Initiation Comments:**

**Field Prep./Maintenance:**

### Soil Description

**% OM:** 0.27 **Texture:** CLAY LOAM  
**pH:** 5.3  
**CEC:** 5.3 **Fert. Level:** POOR TO FAIR

### Moisture Conditions

**Overall Moisture Conditions:** MAR 3.46"; APR 2.65"; MAY 3.46"  
**Closest Weather Station:** REEDY CREEK FIELD LABORATORY **Distance:** 2 **Unit:** MI

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### Application Description

	A
Application Date:	3-17-04
Time of Day:	1:00 PM
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROFOL
Applied By:	L.S. WARREN
Air Temperature, Unit:	48 F
% Relative Humidity:	71
Wind Velocity, Unit:	2.3 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	55 F
Soil Moisture:	WET
% Cloud Cover:	100

### Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CYNDA BGRM
Stage Scale Used:	BBCH
Stage Majority, Percent:	DORMANT 90
Height, Unit:	3.0 IN

### Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	VIORA W
Stage Majority, Percent:	FLOWER 90
Height, Unit:	3.0 IN
Density, Unit:	5 FT2

### Application Equipment

	A
Appl. Equipment:	BACSPR
Operating Pressure:	28
Pressure Unit:	PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	XR 8002VS
Nozzle Spacing, Unit:	19 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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Location: BELTLINE ROADSIDE

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	VIORA	VIORA	VIORA	VIORA	VIORA
Rating Date	3-24-04	4-1-04	4-7-04	4-14-04	4-21-04
Rating Data Type	INJURY	INJURY	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Assessed By	L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN	L.S. WARREN
Days After Last Applic.	7	15	21	28	35
Trt-Eval Interval	7 DA-A	15 DA-A	21 DA-A	28 DA-A	35 DA-A
ARM Action Codes	P	P	P	P	P
Trt Treatment No. Name	Form Conc	Form Rate	Other Rate	Growth Unit	Appl Code
1 FLAZASULFURON X-77 SPREADER	25 WG L	0.5 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					1.3 a 15.0 cd 65.0 bc 60.0 b 37.5 c
2 FLAZASULFURON X-77 SPREADER	25 WG L	1.0 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					3.8 a 23.8 bc 62.5 cd 94.5 a 85.8 b
3 FLAZASULFURON X-77 SPREADER	25 WG L	1.5 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					3.8 a 37.5 a 72.5 bc 99.0 a 98.8 a
4 FLAZASULFURON X-77 SPREADER	25 WG L	3.0 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					3.8 a 38.8 a 83.8 a 99.0 a 100.0 a
5 MANOR X-77 SPREADER	60 WG L	0.5 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					0.0 a 32.5 ab 73.8 ab 99.0 a 100.0 a
6 MONUMENT 75WG X-77 SPREADER	75 WG L	0.33 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					2.5 a 40.0 a 75.0 ab 88.5 a 78.8 b
7 REVOLVER	0.19 SC	17.6 fl oz/a		MAR 17 A	
					0.0 a 15.0 cd 23.8 e 42.5 c 11.3 d
8 TRANXIT GTA X-77 SPREADER	25 WG L	1.0 oz wt/a 0.25 % v/v		MAR 17 A MAR 17 A	
					1.3 a 7.5 de 52.5 d 51.3 bc 11.3 d
9 CHECK					0.0 a 0.0 e 0.0 f 0.0 d 0.0 d
LSD (P=.05)					3.37 13.40 10.49 16.09 11.49
Standard Deviation					2.31 9.18 7.19 11.02 7.87
CV					127.79 39.35 12.72 15.65 13.54
Grand Mean					1.81 23.33 56.53 70.42 58.14
Bartlett's X2					2.367 2.305 9.407 6.565 8.541
P(Bartlett's X2)					0.796 0.941 0.152 0.161 0.129
Friedman's X2					8.117 23.433 26.5 27.483 29.733
P(Friedman's X2)					0.422 0.003 0.001 0.001 0.001
Replicate F					2.565 1.142 0.264 0.976 2.572
Replicate Prob(F)					0.0783 0.3522 0.8504 0.4206 0.0777
Treatment F					2.087 10.285 58.317 39.388 117.276
Treatment Prob(F)					0.0782 0.0001 0.0001 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.

### Trial Comments

03-24-04: VIORA INJURY SYMPTOMS CONSISTED OF VERY SLIGHT LEAF BRONZING