

North Carolina State University

POSTEMERGENCE WHITE CLOVER AND YELLOW WOODSORREL CONTROL WITH SPOT APPLICATIONS OF REVOLVER AND TADS

Trial ID: 04-T29

Study Director: L.S. WARREN

Location: OLD TURF FIELD LAB

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:** 5-21-04
Country: USA
Directions:

Objectives:

TO DEVELOP SPOT TREATMENT RECOMMENDATIONS FOR BROADLEAF WEED CONTROL AND SUPPRESSION FOR REVOLVER LABEL

Conclusions:

Cooperator/Landowner

Cooperator: BILL WHALEY **Country:** USA
Organization: NORTH CAROLINA STATE UNIVERSITY **Phone No:** 982-4601
City: RALEIGH
State/Prov: NC
Postal Code: 27606

Pest Description

Pest 1 Type: W **Code:** TRFRE **Trifolium repens**
Common Name: Dutch clover
Pest 2 Type: W **Code:** OXAST **Oxalis stricta**
Common Name: Common yellow wood sorrel

Site and Design

Plot Width, Unit: 3 FT **Site Type:** TURF - RESEARCH
Plot Length, Unit: 3 FT **Tillage Type:** NA
Replications: 4 **Study Design:** Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% OM: 0.71 **Texture:** SANDY CLAY LOAM
pH: 5.2
CEC: 5.3 **Fert. Level:** GOOD

Moisture Conditions

Overall Moisture Conditions: MAY 3.46"; JUN 2.79"; JUL 1.60"
Closest Weather Station: REEDY CREEK FIELD LABORATORY **Distance:** 2 **Unit:** MI

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Application Description

	A
Application Date:	5-21-04
Time of Day:	11:30 AM
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROFOL
Applied By:	L.S. WARREN
Air Temperature, Unit:	92 F
% Relative Humidity:	53
Wind Velocity, Unit:	1.5 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	80 F
Soil Moisture:	MOIST
% Cloud Cover:	5

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	TRFRE W
Stage Majority, Percent:	FLOWER 100
Diameter, Unit:	18 IN
Height, Unit:	3.5 IN
Coverage, Unit:	60 %
Pest 2 Code, Disc., Scale:	OXAST W
Stage Majority, Percent:	FLOWER 100
Height, Unit:	3.5 IN
Coverage, Unit:	60 %

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
Nozzles/Row:	1
Band Width, Unit:	10 IN
Boom Length, Unit:	10 IN
Boom Height, Unit:	10 IN
Ground Speed, Unit:	1 MPH
Carrier:	WATER
Spray Volume:	100
Volume Unit:	GPA
Propellant:	COMCO2
Tank Mix (Y/N):	Y

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					W Weed	W Weed	W Weed	W Weed	W Weed
					TRFRE	TRFRE	TRFRE	TRFRE	TRFRE
					6-4-04	6-10-04	6-17-04	6-23-04	6-30-04
					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
					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.					14	20	27	33	40
Trt-Eval Interval					14 DA-A	20 DA-A	27 DA-A	33 DA-A	40 DA-A
ARM Action Codes					P	P	P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Other Stage	Appl Code
1	REVOLVER	0.19	EC	0.5 fl oz/gal			MAY 21	A	
					28.8	b	35.0	b	60.0
							64.8	b	94.5
2	REVOLVER	0.19	EC	1 fl oz/gal			MAY 21	A	
					20.0	bc	36.3	b	60.0
							63.8	b	82.5
3	REVOLVER	0.19	EC	0.5 fl oz/gal			MAY 21	A	
					55.0	a	92.5	a	98.3
	TADS	10	WG	0.05 oz wt/gal			MAY 21	A	
							100.0	a	100.0
4	REVOLVER	0.19	EC	1.0 fl oz/gal			MAY 21	A	
					75.0	a	86.3	a	96.8
	TADS	10	WG	0.1 oz wt/gal			MAY 21	A	
							99.5	a	99.8
5	TADS	10	WG	0.05 oz wt/gal			MAY 21	A	
					60.0	a	86.3	a	92.5
							99.8	a	99.8
6	TADS	10	WG	0.1 oz wt/gal			MAY 21	A	
					71.3	a	93.0	a	97.5
							92.5	ab	100.0
7	CHECK				0.0	c	0.0	c	0.0
							0.0	c	0.0
LSD (P=.05)					23.48		24.85		26.93
Standard Deviation					15.80		16.72		18.12
CV					35.68		27.27		25.12
Grand Mean					44.29		61.32		72.14
Bartlett's X2					10.112		18.45		31.509
P(Bartlett's X2)					0.072		0.002*		0.001*
Friedman's X2					18.75		19.5		18.938
P(Friedman's X2)					0.005		0.003		0.004
Replicate F					1.325		0.751		0.607
Replicate Prob(F)					0.2971		0.5358		0.6188
Treatment F					12.881		19.783		15.919
Treatment Prob(F)					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.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	OXAST	OXAST	OXAST	OXAST	OXAST			
Rating Date	6-4-04	6-10-04	6-17-04	6-23-04	6-30-04			
Rating Data Type	CONTROL	CONTROL	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.	14	20	27	33	40			
Trt-Eval Interval	14 DA-A	20 DA-A	27 DA-A	33 DA-A	40 DA-A			
ARM Action Codes	P	P	P	P	P			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	REVOLVER	0.19 EC		0.5 fl oz/gal			MAY 21 A	
								22.5 bc
2	REVOLVER	0.19 EC		1 fl oz/gal			MAY 21 A	
								35.0 ab
3	REVOLVER	0.19 EC		0.5 fl oz/gal			MAY 21 A	
	TADS	10 WG		0.05 oz wt/gal			MAY 21 A	
								52.5 a
4	REVOLVER	0.19 EC		1.0 fl oz/gal			MAY 21 A	
	TADS	10 WG		0.1 oz wt/gal			MAY 21 A	
								47.5 a
5	TADS	10 WG		0.05 oz wt/gal			MAY 21 A	
								88.3 ab
6	TADS	10 WG		0.1 oz wt/gal			MAY 21 A	
								78.8 abc
7	CHECK							
								0.0 c
LSD (P=.05)								24.37
Standard Deviation								19.92
CV								13.36
Grand Mean								18.71
Bartlett's X2								13.28
P(Bartlett's X2)								8.99
Friedman's X2								11.94
P(Friedman's X2)								17.03
Replicate F								17.96
Replicate Prob(F)								74.79
Treatment F								9.475
Treatment Prob(F)								24.73
								0.001*
								0.002*
								19.42
								0.004
								0.004
								1.585
								0.2278
								71.081
								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

05-27-04: TEST AREA DRY, PLOTS COULD NOT BE ACCURATELY RATED AT THIS TIME