

North Carolina State University

ANNUAL BLUEGRASS CONTROL IN NONOVERSEEDED BERMUDAGRASS USING REVOLVER VS. INDUSTRY STANDARDS

Trial ID: 04-T1

Study Director: L.S. WARREN

Location: THORNDALE COUNTRY CLUB

Investigator: Fred Yelverton

Application Description

	A
Application Date:	1-13-04
Time of Day:	2:30 PM
Application Method:	SPRAY
Application Timing:	JAN 13
Application Placement:	BROFOL
Applied By:	L.S. WARREN
Air Temperature, Unit:	59 F
% Relative Humidity:	40
Wind Velocity, Unit:	5.5 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	45 F
Soil Moisture:	MOIST
% Cloud Cover:	0

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CYNDA BGRM
Stage Scale Used:	DESC
Stage Majority, Percent:	DORMANT 100
Height, Unit:	0.5 IN

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	POAAN W DESC
Stage Majority, Percent:	TILLER 75
Height, Unit:	0.5 IN
Density, Unit:	10 FT2
Coverage, Unit:	30 %

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		W Weed		W Weed		W Weed				
Pest Code	POAAN		POAAN		POAAN		POAAN				
Rating Date	2-4-04		2-19-04		3-8-04		4-7-04				
Rating Data Type	PHYTO		CONTROL		CONTROL		CONTROL				
Rating Unit	PERCENT		PERCENT		PERCENT		PERCENT				
Assessed By	L.S. WARREN		L.S. WARREN		L.S. WARREN		L.S. WARREN				
Days After Last Applic.	22		37		55		85				
Trt-Eval Interval	22 DA-A		37 DA-A		55 DA-A		85 DA-A				
ARM Action Codes	P		P		P		P				
Trt Treatment No. Name	Form Conc	Rate Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code					
1 REVOLVER	0.19 L	8.7 fl oz/a			JAN 13 A		0.0 b	11.3 cde	52.5 e	48.8 c	27.5 c
2 REVOLVER	0.19 L	17.4 fl oz/a			JAN 13 A		0.0 b	20.0 c	65.0 d	93.5 a	91.8 a
3 REVOLVER	0.19 L	8.7 fl oz/a			JAN 13 A		63.8 a	98.5 a	99.8 a	92.5 a	55.0 b
FINALE	1.0 SL	3.0 qt/a			JAN 13 A						
4 TRANXIT GTA	25 WG	1.0 oz/a			JAN 13 A		1.3 b	7.5 ef	78.8 bc	99.0 a	90.8 a
X-77 SPREADER	L	0.25 % v/v			JAN 13 A						
5 FINALE	1.0 SL	3.0 qt/a			JAN 13 A		70.0 a	98.8 a	98.0 a	68.8 b	7.5 cd
6 ROUNDUP	4.0 SL	1.0 pt/a			JAN 13 A		3.8 b	90.0 ab	99.0 a	77.5 b	15.0 cd
7 REVOLVER	0.19 L	8.7 fl oz/a			JAN 13 A		2.5 b	87.5 b	99.0 a	99.5 a	93.0 a
ROUNDUP	4.0 SL	1.0 pt/a			JAN 13 A						
8 KERB WSP	50 WP	2.0 lb/a			JAN 13 A		0.0 b	8.8 def	75.0 c	98.0 a	100.0 a
9 MONUMENT	75 WG	13.33 g/a			JAN 13 A		2.5 b	17.5 cd	87.5 b	99.8 a	100.0 a
X-77 SPREADER	L	0.25 % v/v			JAN 13 A						
10 CHECK							0.0 b	0.0 f	0.0 f	0.0 d	0.0 d
LSD (P=.05)							8.47	9.40	9.31	10.03	24.98
Standard Deviation							5.84	6.47	6.41	6.91	17.21
CV							40.59	14.72	8.5	8.89	29.66
Grand Mean							14.38	43.98	75.45	77.73	58.05
Bartlett's X2							14.966	35.297	22.153	39.494	27.157
P(Bartlett's X2)							0.011*	0.001*	0.001*	0.001*	0.001*
Friedman's X2							20.632	32.305	34.309	33.45	28.882
P(Friedman's X2)							0.014	0.001	0.001	0.001	0.001
Replicate F							0.361	1.847	3.004	0.476	0.855
Replicate Prob(F)							0.7816	0.1625	0.0478	0.7014	0.4763
Treatment F							90.398	178.495	93.912	86.062	23.497
Treatment Prob(F)							0.0001	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.

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					W Weed	W Weed
					SOVPT	SOVPT
					4-7-04	5-4-04
					CONTROL	CONTROL
					PERCENT	PERCENT
					L.S. WARREN	L.S. WARREN
					85	112
					85 DA-A	112 DA-A
					P	P
Trt	Treatment	Form	Rate	Other	Growth	Appl
No.	Name	Conc	Type	Rate	Unit	Stage
Code						
1	REVOLVER	0.19 L	8.7 fl oz/a		JAN 13 A	0.0 c
2	REVOLVER	0.19 L	17.4 fl oz/a		JAN 13 A	0.0 c
3	REVOLVER	0.19 L	8.7 fl oz/a		JAN 13 A	100.0 a
	FINALE	1.0 SL	3.0 qt/a		JAN 13 A	85.0 bc
4	TRANXIT GTA	25 WG	1.0 oz/a		JAN 13 A	100.0 a
	X-77 SPREADER	L	0.25 % v/v		JAN 13 A	98.0 ab
5	FINALE	1.0 SL	3.0 qt/a		JAN 13 A	100.0 a
6	ROUNDUP	4.0 SL	1.0 pt/a		JAN 13 A	99.0 a
7	REVOLVER	0.19 L	8.7 fl oz/a		JAN 13 A	100.0 a
	ROUNDUP	4.0 SL	1.0 pt/a		JAN 13 A	83.8 c
8	KERB WSP	50 WP	2.0 lb/a		JAN 13 A	0.0 c
9	MONUMENT	75 WG	13.33 g/a		JAN 13 A	100.0 a
	X-77 SPREADER	L	0.25 % v/v		JAN 13 A	100.0 a
10	CHECK					0.0 c
	LSD (P=.05)					0.23
	Standard Deviation					13.75
	CV					0.16
	Grand Mean					9.48
	Bartlett's X2					0.26
	P(Bartlett's X2)					16.8
	Friedman's X2					59.98
	P(Friedman's X2)					0.0
	Replicate F					29.016
	Replicate Prob(F)					0.001*
	Treatment F					26.386
	Treatment Prob(F)					0.002
	Replicate F					1.000
	Replicate Prob(F)					0.655
	Treatment F					426312.168
	Treatment Prob(F)					0.0001

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Trial Comments