

North Carolina State University

HENBIT AND CORN SPEEDWELL CONTROL WITH SULFONYLUREA HERBICIDES IN COMMON BERMUDAGRASS

Trial ID: 03-T7

Study Dir.: L.S. WARREN

Location: NCSU DRIVING RANGE

Investigator: Leon Warren

APPLICATION DESCRIPTION

	A
Application Date:	3-7-03
Time of Day:	5:15 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROFOL
Air Temp., Unit:	39 F
% Relative Humidity:	64
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	Y
Soil Temp., Unit:	49 F
Soil Moisture:	WET
% Cloud Cover:	98

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA DORMANT
Stage Scale:	NA
Height, Unit:	0.5 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LAMAM FLOWERING
Stage Scale:	1-6" TALL
Density, Unit:	1-5 FT2
Weed 2 Code, Stage:	VERAR PREFLOWER
Stage Scale:	1-2 INCH
Density, Unit:	1-5 FT2

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACSPR
Operating Pressure:	35 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, Unit:	32.5 GPA
Propellant:	COMCO2
Tank Mix (Y/N):	Y

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Weed Code											LAMAM	LAMAM	VERAR	VERAR
Rating Data Type											INJURY	INJURY	INJURY	INJURY
Rating Unit											PERCENT	PERCENT	PERCENT	PERCENT
Rating Date											3-13-03	3-21-03	3-13-03	3-21-03
Trt-Eval Interval											6 DA-A	14 DA-A	6 DA-A	14 DA-A
ARM Action Codes											P	P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	FLAZASULFURON X-77 SPREADER	25	WG	0.5	oz wt/a			MAR 7	A		2.5 a	38.8 a	7.5 a	5.0 d
			L	0.25	% v/v			MAR 7	A					
2	FLAZASULFURON X-77 SPREADER	25	WG	2.86	oz wt/a			MAR 7	A		3.8 a	48.8 a	8.8 a	18.8 c
			L	0.25	% v/v			MAR 7	A					
3	MANAGE X-77 SPREADER	75	WG	1.33	oz wt/a			MAR 7	A		5.0 a	45.0 a	7.5 a	5.0 d
			L	0.25	% v/v			MAR 7	A					
4	MANOR X-77 SPREADER	60	DF	0.1	oz wt/a			MAR 7	A		5.0 a	38.8 a	7.5 a	16.3 c
			L	0.25	% v/v			MAR 7	A					
5	MANOR X-77 SPREADER	60	DF	0.5	oz wt/a			MAR 7	A		3.8 a	50.0 a	7.5 a	28.8 ab
			L	0.25	% v/v			MAR 7	A					
6	MANOR X-77 SPREADER	60	DF	1.0	oz wt/a			MAR 7	A		2.5 a	42.5 a	10.0 a	31.3 a
			L	0.25	% v/v			MAR 7	A					
7	MONUMENT X-77 SPREADER	75	WG	0.58736	oz wt/a			MAR 7	A		2.5 a	45.0 a	10.0 a	35.0 a
			L	0.25	% v/v			MAR 7	A					
8	REVOLVER X-77 SPREADER	0.19	L	4.5	pt/a			MAR 7	A		5.0 a	43.8 a	8.8 a	22.5 bc
			L	0.25	% v/v			MAR 7	A					
9	SULFOSULFURON X-77 SPREADER	75	WG	2.56	oz wt/a			MAR 7	A		6.3 a	37.5 a	7.5 a	21.3 bc
			L	0.25	% v/v			MAR 7	A					
10	TRANXIT GTA X-77 SPREADER	25	DF	2.0	oz wt/a			MAR 7	A		8.8 a	52.5 a	10.0 a	6.3 d
			L	0.25	% v/v			MAR 7	A					
11	CHECK										0.0 a	0.0 b	0.0 b	0.0 d
LSD (P=.05)											6.60	25.25	4.92	8.03
Standard Deviation											4.57	17.49	3.41	5.56
CV											111.78	43.47	44.13	32.21
Grand Mean											4.09	40.23	7.73	17.27
Bartlett's X2											4.455	6.521	2.983	11.667
P(Bartlett's X2)											0.879	0.687	0.935	0.112
Replicate F											0.362	4.768	0.391	10.330
Replicate Prob(F)											0.7806	0.0078	0.7604	0.0001
Treatment F											1.022	2.631	2.668	18.209
Treatment Prob(F)											0.4491	0.0197	0.0183	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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Weed Code											VERAR	VERAR
Rating Data Type											CONTROL	CONTROL
Rating Unit											PERCENT	PERCENT
Rating Date											4-3-03	4-14-03
Trt-Eval Interval											27 DA-A	38 DA-A
ARM Action Codes											P	P
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume		
1	FLAZASULFURON X-77 SPREADER	25	WG	0.5	oz wt/a			MAR 7	A		0.0	f
			L	0.25	% v/v			MAR 7	A			2.5
2	FLAZASULFURON X-77 SPREADER	25	WG	2.86	oz wt/a			MAR 7	A		11.3	de
			L	0.25	% v/v			MAR 7	A			13.8
3	MANAGE X-77 SPREADER	75	WG	1.33	oz wt/a			MAR 7	A		0.0	f
			L	0.25	% v/v			MAR 7	A			0.0
4	MANOR X-77 SPREADER	60	DF	0.1	oz wt/a			MAR 7	A		10.0	def
			L	0.25	% v/v			MAR 7	A			2.5
5	MANOR X-77 SPREADER	60	DF	0.5	oz wt/a			MAR 7	A		42.5	c
			L	0.25	% v/v			MAR 7	A			23.8
6	MANOR X-77 SPREADER	60	DF	1.0	oz wt/a			MAR 7	A		55.0	b
			L	0.25	% v/v			MAR 7	A			32.5
7	MONUMENT X-77 SPREADER	75	WG	0.58736	oz wt/a			MAR 7	A		91.3	a
			L	0.25	% v/v			MAR 7	A			94.0
8	REVOLVER X-77 SPREADER	0.19	L	4.5	pt/a			MAR 7	A		91.3	a
			L	0.25	% v/v			MAR 7	A			93.5
9	SULFOSULFURON X-77 SPREADER	75	WG	2.56	oz wt/a			MAR 7	A		20.0	d
			L	0.25	% v/v			MAR 7	A			20.0
10	TRANXIT GTA X-77 SPREADER	25	DF	2.0	oz wt/a			MAR 7	A		1.3	ef
			L	0.25	% v/v			MAR 7	A			2.5
11	CHECK										0.0	f
												0.0
LSD (P=.05)											10.58	10.73
Standard Deviation											7.33	7.43
CV											25.0	28.68
Grand Mean											29.32	25.91
Bartlett's X2											15.126	15.123
P(Bartlett's X2)											0.034*	0.057
Replicate F											1.171	0.317
Replicate Prob(F)											0.3373	0.8127
Treatment F											94.261	90.019
Treatment Prob(F)											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

03-05-03: STAKED OUT TEST - TOO WET TO APPLY TREATMENTS
- REPS 1 AND 2 PLOTS 4 X 8 FEET; REPS 3 AND 4 PLOTS 4 X 10 FEET

03-07-03: APPLIED TREATMENTS

03-13-03: LAMAM INJURY RATINGS BASED ON VERY SLIGHT DISCOLORATION (YELLOW-GREEN APPEARANCE)
VERAR INJURY RATINGS BASED ON LEAF BRONZING

04-03-03: TEST AREA MOWED AND LAMAM COULD NOT BE EFFECTIVELY EVALUATED AT THIS TIME

04-14-03: LAMAM KILLED DUE TO EARLIER MOWING AROUND 1ST OF APRIL