



# North Carolina State University

## POSTEMERGENCE WHITE CLOVER AND LAWN PENNYWORT CONTROL IN BERMUDAGRASS

Trial ID: 03-T32  
Location: WRIGHTSVILLE BEACH

Study Dir.: L.S. WARREN  
Investigator: Fred Yelverton

### APPLICATION DESCRIPTION

	A
Application Date:	4-22-03
Time of Day:	4:45 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	BROFOL
Air Temp., Unit:	81 F
% Relative Humidity:	41
Wind Velocity, Unit:	3.8 MPH
Dew Presence (Y/N):	N
Soil Temp., Unit:	70 F
Soil Moisture:	MOIST
% Cloud Cover:	25

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CYNDA MOWED
Stage Scale:	NA
Height, Unit:	2.0 IN

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	TRFRE FLOWERING
Stage Scale:	2-4 INCH
Density, Unit:	1-4 FT2
Weed 2 Code, Stage:	HYDSI CREEPING
Stage Scale:	1-2 INCH
Density, Unit:	1-2 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											TRFRE	TRFRE	TRFRE	TRFRE
Rating Data Type											INJURY	CONTROL	CONTROL	CONTROL
Rating Unit											PERCENT	PERCENT	PERCENT	PERCENT
Rating Date											4-29-03	5-5-03	5-12-03	5-20-03
Trt-Eval Interval											7 DA-A	13 DA-A	20 DA-A	28 DA-A
ARM Action Codes											P	P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	QUICKSILVER	1.9	EW	0.019	lb ai/a			APR 22	A		17.5 d	11.3 gh	10.0 d	8.8 d
2	QUICKSILVER MANOR	1.9 60	EW WG	0.019 0.009	lb ai/a lb ai/a			APR 22 APR 22	A A		32.5 c	47.5 cd	91.3 ab	99.0 a
3	QUICKSILVER MANOR	1.9 60	EW WG	0.019 0.019	lb ai/a lb ai/a			APR 22 APR 22	A A		31.3 c	58.8 bc	96.5 a	99.0 a
4	QUICKSILVER ATRAZINE	1.9 4	EW L	0.019 1	lb ai/a lb ai/a			APR 22 APR 22	A A		13.8 de	27.5 ef	92.0 ab	97.0 a
5	QUICKSILVER ATRAZINE X-77 SPREADER	1.9 4 L	EW L	0.019 0.25	lb ai/a lb ai/a % v/v			APR 22 APR 22 APR 22	A A A		7.5 ef	22.5 fg	89.5 ab	91.3 ab
6	QUICKSILVER TRIMEC SOUTHERN	1.9 4.58	EW L	0.019 1	lb ai/a pt/a			APR 22 APR 22	A A		70.0 a	76.3 a	88.3 ab	90.5 ab
7	QUICKSILVER TRIMEC SOUTHERN	1.9 4.58	EW L	0.019 2	lb ai/a pt/a			APR 22 APR 22	A A		76.3 a	80.0 a	91.5 ab	97.5 a
8	TRIMEC SOUTHERN	4.58	L	1	pt/a			APR 22	A		48.8 b	50.0 cd	55.0 c	51.3 c
9	TRIMEC SOUTHERN	4.58	L	2	pt/a			APR 22	A		67.5 a	71.3 ab	81.3 b	91.0 ab
10	MANOR	60	WG	0.019	lb ai/a			APR 22	A		11.3 de	40.0 de	96.5 a	99.0 a
11	MANOR X-77 SPREADER	60 L	WG	0.019 0.25	lb ai/a % v/v			APR 22 APR 22	A A		11.3 de	52.5 cd	96.5 a	99.0 a
12	ATRAZINE	4	L	1	lb ai/a			APR 22	A		7.5 ef	31.3 ef	85.8 ab	85.8 b
13	CHECK										0.0 f	0.0 h	0.0 d	0.0 d
LSD (P=.05)											8.99	16.19	11.04	10.82
Standard Deviation											6.29	11.33	7.73	7.57
CV											20.71	25.9	10.31	9.75
Grand Mean											30.38	43.75	74.92	77.62
Bartlett's X2											10.516	16.194	25.751	15.596
P(Bartlett's X2)											0.396	0.134	0.007*	0.029*
Replicate F											1.780	1.222	0.494	0.817
Replicate Prob(F)											0.1684	0.3159	0.6888	0.4929
Treatment F											71.856	19.046	72.587	85.289
Treatment Prob(F)											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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Weed Code											TRFRE	TRFRE	HYDSI	HYDSI
Rating Data Type											CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit											PERCENT	PERCENT	PERCENT	PERCENT
Rating Date											6-2-03	6-18-03	6-2-03	6-18-03
Trt-Eval Interval											41 DA-A	57 DA-A	41 DA-A	57 DA-A
ARM Action Codes											P	P	P	P
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	QUICKSILVER	1.9	EW	0.019	lb ai/a			APR 22	A		6.3 d	5.0 d	0.0 c	0.0 c
2	QUICKSILVER MANOR	1.9 60	EW WG	0.019 0.009	lb ai/a lb ai/a			APR 22 APR 22	A A		99.8 a	99.3 a	87.0 b	47.5 b
3	QUICKSILVER MANOR	1.9 60	EW WG	0.019 0.019	lb ai/a lb ai/a			APR 22 APR 22	A A		100.0 a	100.0 a	97.5 a	77.5 a
4	QUICKSILVER ATRAZINE	1.9 4	EW L	0.019 1	lb ai/a lb ai/a			APR 22 APR 22	A A		99.8 a	99.5 a	0.0 c	0.0 c
5	QUICKSILVER ATRAZINE X-77 SPREADER	1.9 4 L	EW L	0.019 0.25	lb ai/a lb ai/a % v/v			APR 22 APR 22 APR 22	A A A		98.0 a	97.5 a	0.0 c	0.0 c
6	QUICKSILVER TRIMEC SOUTHERN	1.9 4.58	EW L	0.019 1	lb ai/a pt/a			APR 22 APR 22	A A		83.8 b	87.5 b	92.5 ab	83.0 a
7	QUICKSILVER TRIMEC SOUTHERN	1.9 4.58	EW L	0.019 2	lb ai/a pt/a			APR 22 APR 22	A A		99.8 a	99.5 a	98.8 a	90.8 a
8	TRIMEC SOUTHERN	4.58	L	1	pt/a			APR 22	A		50.0 c	63.8 c	92.0 ab	87.0 a
9	TRIMEC SOUTHERN	4.58	L	2	pt/a			APR 22	A		95.3 a	98.3 a	91.8 ab	88.3 a
10	MANOR	60	WG	0.019	lb ai/a			APR 22	A		100.0 a	99.8 a	98.3 a	80.0 a
11	MANOR X-77 SPREADER	60 L	WG L	0.019 0.25	lb ai/a % v/v			APR 22 APR 22	A A		100.0 a	100.0 a	94.5 ab	89.8 a
12	ATRAZINE	4	L	1	lb ai/a			APR 22	A		92.3 a	85.0 b	0.0 c	0.0 c
13	CHECK										0.0 d	0.0 d	0.0 c	0.0 c
LSD (P=.05)											7.77	8.42	10.05	19.40
Standard Deviation											5.44	5.89	7.03	13.58
CV											6.9	7.4	12.15	27.42
Grand Mean											78.83	79.62	57.87	49.52
Bartlett's X2											45.528	50.368	21.299	11.276
P(Bartlett's X2)											0.001*	0.001*	0.003*	0.127
Replicate F											1.690	0.406	1.867	2.183
Replicate Prob(F)											0.1865	0.7496	0.1526	0.1070
Treatment F											178.415	147.075	184.147	38.549
Treatment Prob(F)											0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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### Trial Comments

04-29-03: INJURY RATINGS BASED ON STEM CURL AND ALSO LEAF DISCOLORATION