

North Carolina State University

POSTEMERGENCE WHITE CLOVER AND LAWN PENNYWORT CONTROL IN COMMON BERMUDAGRASS

Trial ID: 03-T31
Location: WRIGHTSVILLE BEACH

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

APPLICATION DESCRIPTION

	A
Application Date:	4-22-03
Time of Day:	3:30 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):	N

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Weed Code										TRFRE	TRFRE	TRFRE	TRFRE	HYDSI	
Rating Data Type										CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit										PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date										5-5-03	5-20-03	6-2-03	6-18-03	6-2-03	
Trt-Eval Interval										13 DA-A	28 DA-A	41 DA-A	57 DA-A	41 DA-A	
ARM Action Codes										P	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	RIV 01-03	L		2	pt/a			APR 22	A		63.3 cd	95.7 ab	99.0 a	100.0 a	99.7 ab
2	RIV 01-03	L		2.5	pt/a			APR 22	A		83.8 ab	94.5 abc	99.5 a	98.8 a	100.0 a
3	RIV 01-03	L		3	pt/a			APR 22	A		80.0 abc	94.8 abc	100.0 a	100.0 a	99.5 abc
4	RIV 02-03	L		2	pt/a			APR 22	A		80.0 abc	95.5 abc	100.0 a	100.0 a	99.3 abc
5	RIV 02-03	L		2.5	pt/a			APR 22	A		82.5 ab	97.5 ab	100.0 a	100.0 a	99.8 ab
6	RIV 02-03	L		3	pt/a			APR 22	A		90.0 ab	98.0 ab	100.0 a	100.0 a	99.0 abc
7	RIV 03-03	L		2	pt/a			APR 22	A		85.0 ab	95.8 ab	100.0 a	100.0 a	99.3 abc
8	RIV 03-03	L		2.5	pt/a			APR 22	A		88.8 ab	99.0 a	100.0 a	100.0 a	99.8 ab
9	RIV 03-03	L		3	pt/a			APR 22	A		91.3 a	99.0 a	100.0 a	100.0 a	100.0 a
10	RIV 04-03	L		3	pt/a			APR 22	A		80.0 abc	92.5 bc	90.8 b	92.0 bc	99.8 ab
11	RIV 04-03	L		3.5	pt/a			APR 22	A		86.3 ab	97.8 ab	99.8 a	100.0 a	99.8 ab
12	RIV 04-03	L		4	pt/a			APR 22	A		88.3 ab	97.0 ab	99.8 a	100.0 a	98.8 abc
13	RIV 05-03	L		2	pt/a			APR 22	A		85.0 ab	98.5 ab	100.0 a	99.3 a	98.0 c
14	RIV 05-03	L		2.5	pt/a			APR 22	A		88.8 ab	98.0 ab	100.0 a	100.0 a	99.5 abc
15	RIV 05-03	L		3	pt/a			APR 22	A		91.0 a	98.5 ab	100.0 a	100.0 a	98.5 abc
16	RIV 06-03	L		3	pt/a			APR 22	A		77.5 abc	95.8 ab	99.8 a	99.8 a	99.0 abc
17	RIV 06-03	L		3.5	pt/a			APR 22	A		83.8 ab	95.8 ab	100.0 a	100.0 a	100.0 a
18	RIV 06-03	L		4	pt/a			APR 22	A		90.0 ab	99.0 a	98.5 a	99.5 a	99.5 abc
19	RIV 07-03	L		2	pt/a			APR 22	A		83.8 ab	95.5 abc	98.8 a	98.8 a	99.8 ab
20	RIV 07-03	L		2.5	pt/a			APR 22	A		91.3 a	97.0 ab	100.0 a	100.0 a	99.8 ab
21	RIV 07-03	L		3	pt/a			APR 22	A		94.5 a	98.8 a	100.0 a	100.0 a	100.0 a
22	RIV 09-03	L		2	pt/a			APR 22	A		28.8 f	75.8 e	85.0 c	87.3 c	100.0 a
23	RIV 09-03	L		2.5	pt/a			APR 22	A		46.7 de	89.3 cd	99.3 a	99.0 a	100.0 a
24	RIV 09-03	L		3	pt/a			APR 22	A		45.0 ef	83.8 d	97.5 a	96.0 ab	99.5 abc
25	RIV 10-03	L		2.5	pt/a			APR 22	A		73.8 bc	95.5 abc	100.0 a	100.0 a	98.8 abc
26	CONFRONT	L		1	pt/a			APR 22	A		81.3 ab	94.8 abc	100.0 a	100.0 a	98.3 bc
27	CHECK										0.0 g	0.0 f	0.0 d	0.0 d	0.0 d
LSD (P=.05)											17.18	6.17	4.39	5.70	1.50
Standard Deviation											12.15	4.36	3.10	4.03	1.06
CV											15.93	4.76	3.26	4.24	1.11
Grand Mean											76.3	91.58	95.1	95.19	95.74
Bartlett's X2											46.841	74.757	57.838	50.337	40.776
P(Bartlett's X2)											0.004*	0.001*	0.001*	0.001*	0.003*
Replicate F											0.181	4.220	0.985	1.442	4.240
Replicate Prob(F)											0.9089	0.0082	0.4045	0.2371	0.0080
Treatment F											12.983	75.750	154.722	91.016	1301.376
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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Weed Code											HYDSI
Rating Data Type											CONTROL
Rating Unit											PERCENT
Rating Date											6-18-03
Trt-Eval Interval											57 DA-A
ARM Action Codes											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	RIV 01-03	L		2	pt/a			APR 22	A		99.3 a
2	RIV 01-03	L		2.5	pt/a			APR 22	A		97.0 ab
3	RIV 01-03	L		3	pt/a			APR 22	A		92.8 b
4	RIV 02-03	L		2	pt/a			APR 22	A		96.0 ab
5	RIV 02-03	L		2.5	pt/a			APR 22	A		96.3 ab
6	RIV 02-03	L		3	pt/a			APR 22	A		99.3 a
7	RIV 03-03	L		2	pt/a			APR 22	A		99.3 a
8	RIV 03-03	L		2.5	pt/a			APR 22	A		99.3 a
9	RIV 03-03	L		3	pt/a			APR 22	A		97.5 ab
10	RIV 04-03	L		3	pt/a			APR 22	A		94.8 ab
11	RIV 04-03	L		3.5	pt/a			APR 22	A		99.5 a
12	RIV 04-03	L		4	pt/a			APR 22	A		98.0 ab
13	RIV 05-03	L		2	pt/a			APR 22	A		97.0 ab
14	RIV 05-03	L		2.5	pt/a			APR 22	A		99.8 a
15	RIV 05-03	L		3	pt/a			APR 22	A		99.0 a
16	RIV 06-03	L		3	pt/a			APR 22	A		99.0 a
17	RIV 06-03	L		3.5	pt/a			APR 22	A		98.3 ab
18	RIV 06-03	L		4	pt/a			APR 22	A		99.5 a
19	RIV 07-03	L		2	pt/a			APR 22	A		99.3 a
20	RIV 07-03	L		2.5	pt/a			APR 22	A		97.5 ab
21	RIV 07-03	L		3	pt/a			APR 22	A		99.5 a
22	RIV 09-03	L		2	pt/a			APR 22	A		98.8 a
23	RIV 09-03	L		2.5	pt/a			APR 22	A		99.7 a
24	RIV 09-03	L		3	pt/a			APR 22	A		98.8 a
25	RIV 10-03	L		2.5	pt/a			APR 22	A		99.5 a
26	CONFRONT	L		1	pt/a			APR 22	A		92.5 b
27	CHECK										0.0 c
LSD (P=.05)											5.96
Standard Deviation											4.21
CV											4.47
Grand Mean											94.32
Bartlett's X2											107.721
P(Bartlett's X2)											0.001*
Replicate F											1.548
Replicate Prob(F)											0.2090
Treatment F											81.029
Treatment Prob(F)											0.0001

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Trial Comments