



# North Carolina State University

**POSTEMERGENCE WHITE CLOVER AND LAWN PENNYWORT CONTROL USING EXPERIMENTAL  
GRANULAR HERBICIDES APPLIED TO WET VS. DRY FOLIAGE**

Trial ID: 03-T16  
Location: WRIGHTSVILLE BEACH

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

### APPLICATION DESCRIPTION

	A	B
Application Date:	4-22-03	4-22-03
Time of Day:	1:15 PM	1:45 PM
Application Method:	SHAKE JAR	SHAKEJAR
Application Timing:	POST-DRY	POST-WET
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	80 F	80 F
% Relative Humidity:	46	46
Wind Velocity, Unit:	3.5 MPH	3.5 MPH
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	70 F	70 F
Soil Moisture:	MOIST	MOIST
% Cloud Cover:	30	30

### CROP STAGE AT EACH APPLICATION

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

### WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	TRFRE FLOWERING	TRFRE FLOWERING
Stage Scale:	2-4 INCH	2-4 INCH
Density, Unit:	1-4 FT2	1-4 FT2
Weed 2 Code, Stage:	HYDSI CREEPING	HYDSI CREEPING
Stage Scale:	1-2 INCH	1-2 INCH
Density, Unit:	1-2 FT2	1-2 FT2

### APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	SHAKE JAR	SHAKE JAR
Tank Mix (Y/N):	N	N

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Weed Code										TRFRE	TRFRE	TRFRE	TRFRE	
Rating Data Type										CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit										PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date										5-5-03	5-20-03	6-2-03	6-18-03	
Trt-Eval Interval										13 DA-A	28 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	DRY FOLIAGE RIV 12-03	G		3.2	lb/1000 ft2			APR 22	A		36.7 ab	86.0 a	91.7 a	94.3 a
2	DRY FOLIAGE RIV 13-03	G		3.2	lb/1000 ft2			APR 22	A		18.3 bc	13.3 de	15.0 def	25.0 cde
3	DRY FOLIAGE RIV 14-03	G		3.2	lb/1000 ft2			APR 22	A		25.0 abc	71.7 ab	93.3 a	97.7 a
4	DRY FOLIAGE RIV 15-03	G		2.86	lb/1000 ft2			APR 22	A		21.7 bc	26.7 de	56.7 bc	76.7 ab
5	DRY FOLIAGE RIV 16-03	G		3.2	lb/1000 ft2			APR 22	A		3.3 c	40.0 bcd	41.7 cd	35.0 cde
6	DRY FOLIAGE RIV 17-03	G		3.2	lb/1000 ft2			APR 22	A		3.3 c	0.0 e	16.7 def	38.3 b-e
7	DRY FOLIAGE RIV 18-03	G		3.2	lb/1000 ft2			APR 22	A		3.3 c	13.3 de	21.7 def	41.7 bcd
8	DRY FOLIAGE RIV 19-03	G		3.2	lb/1000 ft2			APR 22	A		33.3 ab	28.3 de	18.3 def	3.3 de
9	DRY FOLIAGE RIV 20-03	G		3.2	lb/1000 ft2			APR 22	A		16.7 bc	3.3 e	10.0 ef	6.7 de
10	DRY FOLIAGE CHECK								A		0.0 c	0.0 e	0.0 f	0.0 e
11	WET FOLIAGE RIV 12-03	G		3.2	lb/1000 ft2			APR 22	B		35.0 ab	91.0 a	96.0 a	90.0 a
12	WET FOLIAGE RIV 13-03	G		3.2	lb/1000 ft2			APR 22	B		18.3 bc	25.0 de	21.7 def	41.7 bcd
13	WET FOLIAGE RIV 14-03	G		3.2	lb/1000 ft2			APR 22	B		35.0 ab	87.7 a	91.7 a	94.7 a
14	WET FOLIAGE RIV 15-03	G		2.86	lb/1000 ft2			APR 22	B		51.7 a	76.0 a	71.7 ab	76.7 ab
15	WET FOLIAGE RIV 16-03	G		3.2	lb/1000 ft2			APR 22	B		15.0 bc	18.3 de	38.3 cde	23.3 de
16	WET FOLIAGE RIV 17-03	G		3.2	lb/1000 ft2			APR 22	B		5.0 c	1.7 e	11.7 ef	41.7 bcd
17	WET FOLIAGE RIV 18-03	G		3.2	lb/1000 ft2			APR 22	B		5.0 c	20.0 de	20.0 def	11.7 de
18	WET FOLIAGE RIV 19-03	G		3.2	lb/1000 ft2			APR 22	B		10.0 bc	66.7 abc	90.0 a	65.0 abc
19	WET FOLIAGE RIV 20-03	G		3.2	lb/1000 ft2			APR 22	B		16.7 bc	31.7 cde	28.3 c-f	16.7 de
20	WET FOLIAGE CHECK								B		0.0 c	0.0 e	0.0 f	0.0 e
LSD (P=.05)											27.10	35.85	29.62	40.44
Standard Deviation											16.42	21.72	17.95	24.51
CV											92.96	62.01	43.03	55.7
Grand Mean											17.67	35.03	41.72	44.0
Bartlett's X2											28.594	29.645	26.146	34.509
P(Bartlett's X2)											0.038*	0.02*	0.052	0.007*
Replicate F											0.567	0.261	2.610	3.602
Replicate Prob(F)											0.5722	0.7715	0.0874	0.0375
Treatment F											2.379	6.698	11.170	5.863
Treatment Prob(F)											0.0123	0.0001	0.0001	0.0001

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

Mean separations are based on the complete error term.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code										HYDSI	HYDSI	
Rating Data Type										CONTROL	CONTROL	
Rating Unit										PERCENT	PERCENT	
Rating Date										6-2-03	6-18-03	
Trt-Eval Interval										41 DA-A	57 DA-A	
ARM Action Codes										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	DRY FOLIAGE RIV 12-03		G	3.2	lb/1000 ft2			APR 22	A		85.0 ab	61.7 a
2	DRY FOLIAGE RIV 13-03		G	3.2	lb/1000 ft2			APR 22	A		3.3 e	56.7 a
3	DRY FOLIAGE RIV 14-03		G	3.2	lb/1000 ft2			APR 22	A		58.0 bcd	67.7 a
4	DRY FOLIAGE RIV 15-03		G	2.86	lb/1000 ft2			APR 22	A		63.3 abc	93.3 a
5	DRY FOLIAGE RIV 16-03		G	3.2	lb/1000 ft2			APR 22	A		8.3 e	30.0 a
6	DRY FOLIAGE RIV 17-03		G	3.2	lb/1000 ft2			APR 22	A		8.3 e	56.0 a
7	DRY FOLIAGE RIV 18-03		G	3.2	lb/1000 ft2			APR 22	A		0.0 e	31.7 a
8	DRY FOLIAGE RIV 19-03		G	3.2	lb/1000 ft2			APR 22	A		6.7 e	32.7 a
9	DRY FOLIAGE RIV 20-03		G	3.2	lb/1000 ft2			APR 22	A		23.3 de	62.7 a
10	DRY FOLIAGE CHECK								A		0.0 e	0.0 a
11	WET FOLIAGE RIV 12-03		G	3.2	lb/1000 ft2			APR 22	B		94.7 ab	66.0 a
12	WET FOLIAGE RIV 13-03		G	3.2	lb/1000 ft2			APR 22	B		60.0 a-d	66.0 a
13	WET FOLIAGE RIV 14-03		G	3.2	lb/1000 ft2			APR 22	B		91.3 ab	88.3 a
14	WET FOLIAGE RIV 15-03		G	2.86	lb/1000 ft2			APR 22	B		99.3 a	93.3 a
15	WET FOLIAGE RIV 16-03		G	3.2	lb/1000 ft2			APR 22	B		86.7 ab	94.3 a
16	WET FOLIAGE RIV 17-03		G	3.2	lb/1000 ft2			APR 22	B		38.3 cde	32.7 a
17	WET FOLIAGE RIV 18-03		G	3.2	lb/1000 ft2			APR 22	B		55.0 bcd	61.7 a
18	WET FOLIAGE RIV 19-03		G	3.2	lb/1000 ft2			APR 22	B		94.7 ab	58.3 a
19	WET FOLIAGE RIV 20-03		G	3.2	lb/1000 ft2			APR 22	B		94.7 ab	56.7 a
20	WET FOLIAGE CHECK								B		0.0 e	0.0 a
LSD (P=.05)											39.75	70.71
Standard Deviation											24.09	42.85
CV											49.62	77.23
Grand Mean											48.55	55.48
Bartlett's X2											47.216	25.831
P(Bartlett's X2)											0.001*	0.078
Replicate F											6.816	0.414
Replicate Prob(F)											0.0031	0.6641
Treatment F											7.862	1.236
Treatment Prob(F)											0.0001	0.2840

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## Trial Comments

04-22-03: APPLIED WATER AT 200 GPA TO WET TURF IMMEDIATELY BEFORE APPLYING GRANULAR WET TURF TREATMENTS (ONE REP AT A TIME)