

North Carolina State University

EFFICACY OF SINGLE VS SPLIT APPLICATIONS FOR PRE GOOSEGRASS CONTROL IN COMMON BERMUDAGRASS

Trial ID: 03-T5

Study Dir.: L.S. WARREN

Location: THORNDALE C.C.

Investigator: Leon Warren

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CYNDA DORMANT	CYNDA MOWED
Stage Scale:	NA	100%GREEN
Height, Unit:	0.5 IN	0.75 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ELEIN PRE	ELEIN 2 LEAF
Stage Scale:	NA	0.25 INCH
Density, Unit:	0 FT2	1-5 FT2

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BACSPR	BACSPR
Operating Pressure:	35 PSI	35 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 8002VS	XR 8002VS
Nozzle Spacing, Unit:	10 IN	10 IN
Band Width, Unit:	40 IN	40 IN
Boom Length, Unit:	40 IN	40 IN
Boom Height, Unit:	10 IN	10 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	32.5 GPA	32.5 GPA
Propellant:	COMCO2	COMCO2
Tank Mix (Y/N):	N	N

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										ELEIN CONTROL PERCENT 6-9-03 L.S. WARREN 89 DA-A P	ELEIN CONTROL PERCENT 7-1-03 L.S. WARREN 111 DA-A P	ELEIN CONTROL PERCENT 8-5-03 L.S. WARREN 146 DA-A P	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Spray Volume			
1	BARRICADE	65	WG	0.75	lb ai/a			MAR 12	A		100.0 a	99.0 a	96.3 a
2	BARRICADE	65	WG	0.375	lb ai/a			MAR 12	A		100.0 a	99.0 a	90.0 a
	BARRICADE	65	WG	0.375	lb ai/a			MAY 6	B				
3	BARRICADE	65	WG	0.5	lb ai/a			MAR 12	A		100.0 a	98.0 a	92.5 a
	BARRICADE	65	WG	0.25	lb ai/a			MAY 6	B				
4	BARRICADE	4.0	F	0.75	lb ai/a			MAR 12	A		100.0 a	99.0 a	97.0 a
5	BARRICADE	4.0	F	0.375	lb ai/a			MAR 12	A		100.0 a	99.0 a	97.0 a
	BARRICADE	4.0	F	0.375	lb ai/a			MAY 6	B				
6	BARRICADE	4.0	F	0.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
	BARRICADE	4.0	F	0.25	lb ai/a			MAY 6	B				
7	DIMENSION	1.0	EC	0.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	82.5 ab
8	DIMENSION	1.0	EC	0.25	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
	DIMENSION	1.0	EC	0.25	lb ai/a			MAY 6	B				
9	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	97.5 a
10	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAR 12	A		100.0 a	99.0 a	98.8 a
	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAY 6	B				
11	PRE-M	60	DG	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
12	PRE-M	60	DG	1.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
	PRE-M	60	DG	1.5	lb ai/a			MAY 6	B				
13	PENDULUM	3.3	EC	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	97.0 a
14	PENDULUM	3.3	EC	1.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
	PENDULUM	3.3	EC	1.5	lb ai/a			MAY 6	B				
15	PENDULUM AQUACAP	3.8	CS	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
16	PENDULUM AQUACAP	3.8	CS	1.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
	PENDULUM AQUACAP	3.8	CS	1.5	lb ai/a			MAY 6	B				
17	PENDULUM	2.0	G	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	98.8 a
18	PENDULUM	2.0	G	1.5	lb ai/a			MAR 12	A		100.0 a	96.8 ab	92.5 a
	PENDULUM	2.0	G	1.5	lb ai/a			MAY 6	B				
19	REGALSTAR		G	200	lb/a			MAR 12	A		100.0 a	96.8 ab	97.5 a
20	REGALSTAR II	1.2	G	200	lb/a			MAR 12	A		100.0 a	93.0 b	87.0 a
21	RONSTAR	50	WP	2.5	lb ai/a			MAR 12	A		100.0 a	96.8 ab	86.3 ab
22	RONSTAR	50	WP	3.0	lb ai/a			MAR 12	A		100.0 a	96.8 ab	96.3 a
23	RONSTAR	2.0	G	2.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	83.3 ab
24	RONSTAR	2.0	G	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
25	SURFLAN	4.0	F	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	67.5 b
26	SURFLAN	4.0	F	1.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
	SURFLAN	4.0	F	1.5	lb ai/a			MAY 6	B				
27	TEAM PRO	0.86	G	3.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	100.0 a
28	TEAM PRO	0.86	G	1.5	lb ai/a			MAR 12	A		100.0 a	99.0 a	98.3 a
	TEAM PRO	0.86	G	1.5	lb ai/a			MAY 6	B				
29	TEAM PRO	0.86	G	2.0	lb ai/a			MAR 12	A		100.0 a	99.0 a	98.8 a
	SURFLAN	4.0	F	1.5	lb ai/a			MAY 6	B				
30	CHECK										0.0 b	0.0 c	0.0 c
LSD (P=.05)											0.00	3.91	18.90
Standard Deviation											0.00	2.77	13.37
CV											0.0	2.91	14.56
Grand Mean											96.67	95.17	91.82
Bartlett's X2											0.0	10.169	81.934
P(Bartlett's X2)											.	0.071	0.001*
Replicate F											0.000	0.914	0.321
Replicate Prob(F)											1.0000	0.4375	0.8100
Treatment F											0.000	169.683	7.935
Treatment Prob(F)											1.0000	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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Investigator: Leon Warren

Weed Code										ELEIN CONTROL PERCENT 9-2-03 L.S. WARREN 174 DA-A P	
Rating Data Type											
Rating Unit											
Rating Date											
Assessed By											
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume	
1	BARRICADE	65	WG	0.75	lb ai/a			MAR 12	A		91.8 ab
2	BARRICADE	65	WG	0.375	lb ai/a			MAR 12	A		93.0 ab
	BARRICADE	65	WG	0.375	lb ai/a			MAY 6	B		
3	BARRICADE	65	WG	0.5	lb ai/a			MAR 12	A		93.3 ab
	BARRICADE	65	WG	0.25	lb ai/a			MAY 6	B		
4	BARRICADE	4.0	F	0.75	lb ai/a			MAR 12	A		89.5 ab
5	BARRICADE	4.0	F	0.375	lb ai/a			MAR 12	A		97.0 ab
	BARRICADE	4.0	F	0.375	lb ai/a			MAY 6	B		
6	BARRICADE	4.0	F	0.5	lb ai/a			MAR 12	A		95.5 ab
	BARRICADE	4.0	F	0.25	lb ai/a			MAY 6	B		
7	DIMENSION	1.0	EC	0.5	lb ai/a			MAR 12	A		81.0 abc
8	DIMENSION	1.0	EC	0.25	lb ai/a			MAR 12	A		95.8 ab
	DIMENSION	1.0	EC	0.25	lb ai/a			MAY 6	B		
9	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 12	A		96.8 ab
10	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAR 12	A		95.8 ab
	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAY 6	B		
11	PRE-M	60	DG	3.0	lb ai/a			MAR 12	A		99.0 a
12	PRE-M	60	DG	1.5	lb ai/a			MAR 12	A		98.0 a
	PRE-M	60	DG	1.5	lb ai/a			MAY 6	B		
13	PENDULUM	3.3	EC	3.0	lb ai/a			MAR 12	A		84.8 abc
14	PENDULUM	3.3	EC	1.5	lb ai/a			MAR 12	A		97.0 ab
	PENDULUM	3.3	EC	1.5	lb ai/a			MAY 6	B		
15	PENDULUM AQUACAP	3.8	CS	3.0	lb ai/a			MAR 12	A		98.8 a
16	PENDULUM AQUACAP	3.8	CS	1.5	lb ai/a			MAR 12	A		98.8 a
	PENDULUM AQUACAP	3.8	CS	1.5	lb ai/a			MAY 6	B		
17	PENDULUM	2.0	G	3.0	lb ai/a			MAR 12	A		96.5 ab
18	PENDULUM	2.0	G	1.5	lb ai/a			MAR 12	A		96.8 ab
	PENDULUM	2.0	G	1.5	lb ai/a			MAY 6	B		
19	REGALSTAR		G	200	lb/a			MAR 12	A		92.3 ab
20	REGALSTAR II	1.2	G	200	lb/a			MAR 12	A		88.3 ab
21	RONSTAR	50	WP	2.5	lb ai/a			MAR 12	A		78.3 bc
22	RONSTAR	50	WP	3.0	lb ai/a			MAR 12	A		90.8 ab
23	RONSTAR	2.0	G	2.5	lb ai/a			MAR 12	A		92.3 ab
24	RONSTAR	2.0	G	3.0	lb ai/a			MAR 12	A		99.0 a
25	SURFLAN	4.0	F	3.0	lb ai/a			MAR 12	A		66.8 c
26	SURFLAN	4.0	F	1.5	lb ai/a			MAR 12	A		84.8 abc
	SURFLAN	4.0	F	1.5	lb ai/a			MAY 6	B		
27	TEAM PRO	0.86	G	3.0	lb ai/a			MAR 12	A		94.5 ab
28	TEAM PRO	0.86	G	1.5	lb ai/a			MAR 12	A		92.3 ab
	TEAM PRO	0.86	G	1.5	lb ai/a			MAY 6	B		
29	TEAM PRO	0.86	G	2.0	lb ai/a			MAR 12	A		96.8 ab
	SURFLAN	4.0	F	1.5	lb ai/a			MAY 6	B		
30	CHECK										0.0 d
LSD (P=.05)										18.85	
Standard Deviation										13.33	
CV										14.95	
Grand Mean										89.15	
Bartlett's X2										116.603	
P(Bartlett's X2)										0.001*	
Replicate F										1.157	
Replicate Prob(F)										0.3310	
Treatment F										7.536	
Treatment Prob(F)										0.0001	

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Investigator: Leon Warren

Trial Comments

03-12-03: GRANULAR HERBICIDES APPLIED WITH SHAKER JARS

04-11-03: ELEIN IN OPEN AREAS BEGINNING TO GERMINATE AND IN THE VERY EARLY 1 LEAF STAGE AT 0.25 INCHES

05-06-03: GRANULAR HERBICIDES APPLIED WITH SHAKER JARS

ELEIN IN NONTREATED OPEN BARE AREAS AT 2 LEAF STAGE AND 0.25 INCHES TALL

ELEIN WAS NOT OBSERVED IN ANY OF THE TREATED PLOTS

POAAN INFESTATION SEVERE WHERE ELEIN COULD NOT BE ACCURATELY EVALUATED AT THIS TIME

06-09-03: ELEIN STILL BASICALLY IN THE 2 TO 3 LEAF STAGE WITH VERY FEW PLANTS LARGER THAN 0.25 INCH OR TILLERING AND DIFFICULT TO EVALUATE DUE TO HEAVY POAAN INFESTATION THAT LASTED THROUGH THE FIRST OF JUNE (FAIRWAYS WERE SHAGGY ALL SPRING DUE TO FREQUENT RAINS THROUGHOUT THE ENTIRE WINTER AND SPRING)