

North Carolina State University

SPLIT APPLICATIONS OF DIMENSION AND DINITROANILINE HERBICIDES FOR PRE SMOOTH CRABGRASS CONTROL IN TALL FESCUE

Trial ID: 03-T8

Study Dir.: L.S. WARREN

Location: NC WESLEYAN COLLEGE

Investigator: Fred Yelverton

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	FESAR MOWED	FESAR MOWED
Stage Scale:	NA	NA
Height, Unit:	2.5 IN	3.5 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGIS PRE	DIGIS 2 LEAF
Stage Scale:	NA	0.25 INCH
Density, Unit:	0 FT2	1-10 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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Weed Code										OXAST	DIGIS	DIGIS				
Rating Data Type										CONTROL	COVERAGE	COVERAGE				
Rating Unit										PERCENT	PERCENT	PERCENT				
Rating Date										5-9-03	6-5-03	7-1-03				
Assessed By										L.S. WARREN	L.S. WARREN	L.S. WARREN				
Trt-Eval Interval										59 DA-A	86 DA-A	112 DA-A				
ARM Action Codes										P	P	P				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume						
1	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		100.0	a	0.0	b	0.0	b
	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAY 9	B							
2	BARRICADE	65	WG	0.38	lb ai/a			MAR 11	A		0.0	b	0.0	b	0.0	b
	BARRICADE	65	WG	0.38	lb ai/a			MAY 9	B							
3	PENDULUM	60	WG	1.5	lb ai/a			MAR 11	A		100.0	a	0.0	b	0.0	b
	PENDULUM	60	WG	1.5	lb ai/a			MAY 9	B							
4	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		100.0	a	0.0	b	0.0	b
	BARRICADE	65	WG	0.38	lb ai/a			MAY 9	B							
5	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		100.0	a	0.0	b	0.0	b
	PENDULUM	60	WG	1.5	lb ai/a			MAY 9	B							
6	CHECK										0.0	b	1.0	a	5.8	a
LSD (P=.05)											0.00	0.00	3.93			
Standard Deviation											0.00	0.00	2.61			
CV											0.0	0.0	272.49			
Grand Mean											66.67	0.17	0.96			
Bartlett's X2											0.0	0.0	0.0			
P(Bartlett's X2)											.	.	.			
Replicate F											0.000	0.000	1.000			
Replicate Prob(F)											1.0000	1.0000	0.4199			
Treatment F											0.000	0.000	3.232			
Treatment Prob(F)											1.0000	1.0000	0.0354			

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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Trial ID: 03-T8

Study Dir.: L.S. WARREN

Location: NC WESLEYAN COLLEGE

Investigator: Fred Yelverton

Weed Code										DIGIS	DIGIS	DIGIS	
Rating Data Type										COVER- AGE	COVER- AGE	CONTROL	
Rating Unit										PERCENT	PERCENT	PERCENT	
Rating Date										8-4-03	9-2-03	6-5-03	
Assessed By										L.S. WARREN	L.S. WARREN	L.S. WARREN	
Trt-Eval Interval										146 DA-A	175 DA-A	86 DA-A	
ARM Action Codes										P	P	T1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume			
1	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		1.5	b	100.0
	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAY 9	B				
2	BARRICADE	65	WG	0.38	lb ai/a			MAR 11	A		0.5	b	100.0
	BARRICADE	65	WG	0.38	lb ai/a			MAY 9	B				
3	PENDULUM	60	WG	1.5	lb ai/a			MAR 11	A		1.3	b	100.0
	PENDULUM	60	WG	1.5	lb ai/a			MAY 9	B				
4	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		0.3	b	100.0
	BARRICADE	65	WG	0.38	lb ai/a			MAY 9	B				
5	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		0.8	b	100.0
	PENDULUM	60	WG	1.5	lb ai/a			MAY 9	B				
6	CHECK										77.5	a	97.5
													0.0
											10.46		6.86
											6.94		4.55
											50.96		22.47
											13.63		20.25
											57.809		6.828
											0.001*		0.234
											0.761		1.108
											0.5331		0.3768
											81.266		277.175
											0.0001		0.0001
													0.000
													1.0000
													0.000
													1.0000

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

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Column 6: T1 = 100*(1-([C2]/[C2T6]))

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Location: NC WESLEYAN COLLEGE

Investigator: Fred Yelverton

Weed Code										DIGIS	DIGIS	DIGIS	
Rating Data Type										CONTROL	CONTROL	CONTROL	
Rating Unit										PERCENT	PERCENT	PERCENT	
Rating Date										7-1-03	8-4-03	9-2-03	
Assessed By										L.S. WARREN	L.S. WARREN	L.S. WARREN	
Trt-Eval Interval										112 DA-A	146 DA-A	175 DA-A	
ARM Action Codes										T2	T3	T4	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume			
1	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		100.0 a	97.7 b	92.8 a
	DIMENSION ULTRA	40	WP	0.25	lb ai/a			MAY 9	B				
2	BARRICADE	65	WG	0.38	lb ai/a			MAR 11	A		100.0 a	99.2 ab	96.4 a
	BARRICADE	65	WG	0.38	lb ai/a			MAY 9	B				
3	PENDULUM	60	WG	1.5	lb ai/a			MAR 11	A		100.0 a	98.2 ab	93.8 a
	PENDULUM	60	WG	1.5	lb ai/a			MAY 9	B				
4	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		100.0 a	99.7 a	97.7 a
	BARRICADE	65	WG	0.38	lb ai/a			MAY 9	B				
5	DIMENSION ULTRA	40	WP	0.5	lb ai/a			MAR 11	A		100.0 a	99.0 ab	94.7 a
	PENDULUM	60	WG	1.5	lb ai/a			MAY 9	B				
6	CHECK										0.0 b	0.0 c	0.0 b
LSD (P=.05)											0.00	1.60	6.86
Standard Deviation											0.00	1.06	4.56
CV											0.0	1.29	5.75
Grand Mean											83.33	82.31	79.22
Bartlett's X2											0.0	5.807	3.829
P(Bartlett's X2)											.	0.214	0.43
Replicate F											0.000	2.932	1.380
Replicate Prob(F)											1.0000	0.0677	0.2871
Treatment F											0.000	5780.648	290.879
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.

Column 7: T2 = 100*(1-([C3]/[C3T6]))

Column 8: T3 = 100*(1-([C4]/[C4T6]))

Column 9: T4 = 100*(1-([C5]/[C5T6]))

Trial Comments

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

05-09-03: DIGIS WAS TOO SMALL AND HARD TO SEE DUE TO THE TALL FESCUE CANOPY TO ACCURATELY RATE AT THIS TIME