

North Carolina State University

PERENNIAL RYEGRASS TOLERANCE AND POA ANNUA CONTROL WITH TRIFLOXYSULFURON

Trial ID: 03-T1
Location: PINEHURST

Study Dir.: LEON WARREN
Investigator: Fred Yelverton

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	POAAN PRE	POAAN PRE
Stage Scale:	NA	NA
Density, Unit:

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):	Y	Y

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Trial ID: 03-T1
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Weed Code										LOLPE	LOLPE	LOLPE	
Crop Code										REDUCTION	REDUCTION	REDUCTION	
Rating Data Type										PERCENT	PERCENT	PERCENT	
Rating Unit										1-7-03	2-14-03	3-13-03	
Rating Date										98 DA-A	136 DA-A	163 DA-A	
Trt-Eval Interval										P	P	P	
ARM Action Codes													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume			
1	CGA 362622 X-77	75	WG	4.05	g/a			7 DBO	A		0.0 a	0.0 a	0.0 b
			L	0.25	% v/v			7 DBO	A				
2	CGA 362622 X-77	75	WG	8.09	g/a			7 DBO	A		1.3 a	0.0 a	0.0 b
			L	0.25	% v/v			7 DBO	A				
3	CGA 362622 X-77	75	WG	12.14	g/a			7 DBO	A		1.3 a	0.0 a	1.3 b
			L	0.25	% v/v			7 DBO	A				
4	KERB	50	WP	1.0	lb/a			7 DBO	A		3.8 a	3.8 a	2.5 b
5	CGA 362622 X-77	75	WG	4.05	g/a			1 DBO	B		1.3 a	0.0 a	0.0 b
			L	0.25	% v/v			1 DBO	B				
6	CGA 362622 X-77	75	WG	8.09	g/a			1 DBO	B		3.8 a	3.8 a	0.0 b
			L	0.25	% v/v			1 DBO	B				
7	CGA 362622 X-77	75	WG	12.14	g/a			1 DBO	B		7.5 a	5.0 a	8.8 a
			L	0.25	% v/v			1 DBO	B				
8	KERB	50	WP	1.0	lb/a			1 DBO	B		6.3 a	6.3 a	1.3 b
9	CGA 362622 X-77	75	WG	4.05	g/a			MISSED					
			L	0.25	% v/v			MISSED					
10	CGA 362622 X-77	75	WG	8.09	g/a			MISSED					
			L	0.25	% v/v			MISSED					
11	CGA 362622 X-77	75	WG	12.14	g/a			MISSED					
			L	0.25	% v/v			MISSED					
12	KERB	50	WP	1.0	lb/a			MISSED					
13	NONTREATED										0.0 a	0.0 a	0.0 b
LSD (P=.05)											6.54	5.52	4.11
Standard Deviation											4.48	3.78	2.82
CV											161.32	181.48	184.3
Grand Mean											2.78	2.08	1.53
Bartlett's X2											13.109	3.087	3.697
P(Bartlett's X2)											0.041*	0.378	0.296
Replicate F											0.092	0.308	1.723
Replicate Prob(F)											0.9636	0.8196	0.1891
Treatment F											1.461	1.858	4.095
Treatment Prob(F)											0.2231	0.1149	0.0034

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-T1
Location: PINEHURST

Study Dir.: LEON WARREN
Investigator: Fred Yelverton

Weed Code										LOLPE	POAAN	POAAN	POAAN	
Crop Code										REDUCTION	CONTROL	CONTROL	CONTROL	
Rating Data Type										PERCENT	PERCENT	PERCENT	PERCENT	
Rating Unit										3-31-03	1-7-03	2-14-03	3-13-03	
Rating Date										181 DA-A	98 DA-A	136 DA-A	163 DA-A	
Trt-Eval Interval										P	P	P	P	
ARM Action Codes														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume				
1	CGA 362622 X-77	75	WG	4.05	g/a			7 DBO	A		1.3 a	97.0 b	99.0 a	98.3 a
			L	0.25	% v/v			7 DBO	A					
2	CGA 362622 X-77	75	WG	8.09	g/a			7 DBO	A		1.3 a	99.0 a	99.0 a	100.0 a
			L	0.25	% v/v			7 DBO	A					
3	CGA 362622 X-77	75	WG	12.14	g/a			7 DBO	A		2.5 a	99.0 a	99.0 a	100.0 a
			L	0.25	% v/v			7 DBO	A					
4	KERB	50	WP	1.0	lb/a			7 DBO	A		3.8 a	99.0 a	99.0 a	98.8 a
5	CGA 362622 X-77	75	WG	4.05	g/a			1 DBO	B		1.3 a	99.0 a	99.0 a	99.5 a
			L	0.25	% v/v			1 DBO	B					
6	CGA 362622 X-77	75	WG	8.09	g/a			1 DBO	B		0.0 a	99.0 a	99.0 a	99.5 a
			L	0.25	% v/v			1 DBO	B					
7	CGA 362622 X-77	75	WG	12.14	g/a			1 DBO	B		8.8 a	99.0 a	99.0 a	100.0 a
			L	0.25	% v/v			1 DBO	B					
8	KERB	50	WP	1.0	lb/a			1 DBO	B		3.8 a	99.0 a	99.0 a	98.3 a
9	CGA 362622 X-77	75	WG	4.05	g/a			MISSED						
			L	0.25	% v/v			MISSED						
10	CGA 362622 X-77	75	WG	8.09	g/a			MISSED						
			L	0.25	% v/v			MISSED						
11	CGA 362622 X-77	75	WG	12.14	g/a			MISSED						
			L	0.25	% v/v			MISSED						
12	KERB	50	WP	1.0	lb/a			MISSED						
13	NONTREATED										0.0 a	0.0 c	0.0 b	0.0 b
LSD (P=.05)										5.54	1.12	0.00	1.98	
Standard Deviation										3.80	0.77	0.00	1.36	
CV										151.84	0.88	0.0	1.54	
Grand Mean										2.5	87.78	88.0	88.25	
Bartlett's X2										7.775	0.0	0.0	4.355	
P(Bartlett's X2)										0.255	.	.	0.36	
Replicate F										3.277	1.000	0.000	2.498	
Replicate Prob(F)										0.0384	0.4098	1.0000	0.0838	
Treatment F										2.060	7316.625	0.000	2369.681	
Treatment Prob(F)										0.0818	0.0001	1.0000	0.0001	

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PERENNIAL RYEGRASS TOLERANCE AND POA ANNUA CONTROL WITH TRIFLOXYSULFURON

Trial ID: 03-T1
Location: PINEHURST

Study Dir.: LEON WARREN
Investigator: Fred Yelverton

Weed Code										POAAN	POAAN	SOVPT	SOVPT	
Crop Code										CONTROL	CONTROL	CONTROL	CONTROL	
Rating Data Type										PERCENT	PERCENT	PERCENT	PERCENT	
Rating Unit										3-31-03	5-2-03	3-13-03	3-31-03	
Rating Date										181 DA-A	213 DA-A	163 DA-A	181 DA-A	
Trt-Eval Interval										P	P	P	P	
ARM Action Codes														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code	Spray Volume				
1	CGA 362622 X-77	75	WG	4.05	g/a			7 DBO	A		93.5 b	83.5 c	100.0 a	80.0 ab
			L	0.25	% v/v			7 DBO	A					
2	CGA 362622 X-77	75	WG	8.09	g/a			7 DBO	A		97.5 a	94.3 ab	100.0 a	99.8 a
			L	0.25	% v/v			7 DBO	A					
3	CGA 362622 X-77	75	WG	12.14	g/a			7 DBO	A		97.3 a	98.5 a	100.0 a	99.5 a
			L	0.25	% v/v			7 DBO	A					
4	KERB	50	WP	1.0	lb/a			7 DBO	A		97.3 a	98.3 a	42.5 b	50.0 c
5	CGA 362622 X-77	75	WG	4.05	g/a			1 DBO	B		93.3 b	88.3 bc	100.0 a	88.8 a
			L	0.25	% v/v			1 DBO	B					
6	CGA 362622 X-77	75	WG	8.09	g/a			1 DBO	B		97.5 a	94.3 ab	100.0 a	99.5 a
			L	0.25	% v/v			1 DBO	B					
7	CGA 362622 X-77	75	WG	12.14	g/a			1 DBO	B		98.0 a	97.8 a	100.0 a	100.0 a
			L	0.25	% v/v			1 DBO	B					
8	KERB	50	WP	1.0	lb/a			1 DBO	B		95.8 ab	93.5 ab	47.5 b	57.5 bc
9	CGA 362622 X-77	75	WG	4.05	g/a			MISSED						
			L	0.25	% v/v			MISSED						
10	CGA 362622 X-77	75	WG	8.09	g/a			MISSED						
			L	0.25	% v/v			MISSED						
11	CGA 362622 X-77	75	WG	12.14	g/a			MISSED						
			L	0.25	% v/v			MISSED						
12	KERB	50	WP	1.0	lb/a			MISSED						
13	NONTREATED										0.0 c	0.0 d	0.0 c	0.0 d
LSD (P=.05)											3.56	8.30	25.03	27.53
Standard Deviation											2.44	5.69	17.15	18.86
CV											2.85	6.84	22.37	25.15
Grand Mean											85.56	83.14	76.67	75.0
Bartlett's X2											8.894	36.87	0.0	54.4
P(Bartlett's X2)											0.26	0.001*	1.00	0.001*
Replicate F											0.622	4.653	2.140	1.512
Replicate Prob(F)											0.6076	0.0106	0.1216	0.2369
Treatment F											693.663	123.112	18.970	12.943
Treatment Prob(F)											0.0001	0.0001	0.0001	0.0001

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Trial ID: 03-T1
Location: PINEHURST

Study Dir.: LEON WARREN
Investigator: Fred Yelverton

Weed Code											SOVPT
Crop Code											CONTROL
Rating Data Type											PERCENT
Rating Unit											5-2-03
Rating Date											213 DA-A
Trt-Eval Interval											P
ARM Action Codes											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume	
1	CGA 362622 X-77	75	WG L	4.05 0.25	g/a % v/v			7 DBO 7 DBO	A A		65.0 c
2	CGA 362622 X-77	75	WG L	8.09 0.25	g/a % v/v			7 DBO 7 DBO	A A		95.8 ab
3	CGA 362622 X-77	75	WG L	12.14 0.25	g/a % v/v			7 DBO 7 DBO	A A		98.8 a
4	KERB	50	WP	1.0	lb/a			7 DBO	A		48.8 c
5	CGA 362622 X-77	75	WG L	4.05 0.25	g/a % v/v			1 DBO 1 DBO	B B		70.8 bc
6	CGA 362622 X-77	75	WG L	8.09 0.25	g/a % v/v			1 DBO 1 DBO	B B		94.5 ab
7	CGA 362622 X-77	75	WG L	12.14 0.25	g/a % v/v			1 DBO 1 DBO	B B		98.5 a
8	KERB	50	WP	1.0	lb/a			1 DBO	B		58.3 c
9	CGA 362622 X-77	75	WG L	4.05 0.25	g/a % v/v			MISSED MISSED			
10	CGA 362622 X-77	75	WG L	8.09 0.25	g/a % v/v			MISSED MISSED			
11	CGA 362622 X-77	75	WG L	12.14 0.25	g/a % v/v			MISSED MISSED			
12	KERB	50	WP	1.0	lb/a			MISSED			
13	NONTREATED										0.0 d
LSD (P=.05)											25.84
Standard Deviation											17.71
CV											25.29
Grand Mean											70.03
Bartlett's X2											48.966
P(Bartlett's X2)											0.001*
Replicate F											3.310
Replicate Prob(F)											0.0372
Treatment F											13.421
Treatment Prob(F)											0.0001

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Trial Comments

09-04-02: VERTICUT IN 2 DIRECTIONS

10-15-02: SCALPED TEST AREA AND OVERSEEDED WITH 450 LB/A ALLSPORT RYEGRASS

01-01-03: TEST AREA OVERSPRAYED WITH 0.38 LB A/A PROGRASS BY SUPERINTENDENT