

North Carolina State University

Tolerance of Perennial Ryegrass in an Overseeded Bermudagrass Fairway

Trial ID: 01-D64

Study Dir.: Travis Gannon

Location: Forest Oaks CC

Investigator: Fred Yelverton

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	POAAN PRE

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 SPRAY
Operating Pressure:	42 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	VS8002XR
Nozzle Spacing, Unit:	10 INCH
Nozzles/Row:	4
Boom Length, Unit:	40 INCH
Boom Height, Unit:	10 INCH
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	32.5 GPA
Propellant:	COMP. CO2

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									LOLPE COVER	LOLPE COVER	LOLPE COVER	LOLPE COVER	
									%	%	%	%	
									11-07-01	11-28-01	12-18-01	01-18-02	
									57 DA-A	78 DA-A	98 DA-A	129 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Rimsulfuron	25	DF	1	OZ/A			SEPT 13	A	55.0 b	73.3 a	90.0 a	75.0 a
2	Rimsulfuron	25	DF	2	OZ/A			SEPT 13	A	55.0 b	71.7 a	95.0 a	75.0 a
3	Rimsulfuron	25	DF	4	OZ/A			SEPT 13	A	53.3 b	76.7 a	95.0 a	75.0 a
4	Nontreated									62.5 a	75.0 a	82.5 a	52.5 b
LSD (P=.05)										4.39	8.57	19.71	14.37
Standard Deviation										2.09	4.08	9.39	6.85
CV										3.7	5.5	10.36	9.87
Bartlett's X2										0.052	1.248	0.669	0.0
P(Bartlett's X2)										0.82	0.536	0.413	0.00*
Replicate F										0.833	0.500	0.124	0.833
Replicate Prob(F)										0.4871	0.6339	0.8859	0.4871
Treatment F										11.548	0.833	1.188	8.100
Treatment Prob(F)										0.0110	0.5304	0.4029	0.0230

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

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								LOLPE COVER	LOLPE COVER	LOLPE COVER	TURF QUALITY		
								%	%	%	1-9		
								02-13-02	03-14-02	04-10-02	11-07-01		
								155 DA-A	184 DA-A	211 DA-A	57 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Rimsulfuron	25	DF	1	OZ/A			SEPT 13	A	76.7 a	90.0 a	95.0 a	7.0 a
2	Rimsulfuron	25	DF	2	OZ/A			SEPT 13	A	75.0 a	90.0 a	95.0 a	7.0 a
3	Rimsulfuron	25	DF	4	OZ/A			SEPT 13	A	75.0 a	90.0 a	95.0 a	7.0 a
4	Nontreated									60.0 b	72.5 b	42.5 b	7.0 a
LSD (P=.05)								12.86	14.37	14.37	0.00		
Standard Deviation								6.12	6.85	6.85	0.00		
CV								8.54	8.0	8.36	0.0		
Bartlett's X2								3.008	0.0	0.0	0.0		
P(Bartlett's X2)								0.083	0.00*	0.00*	0.00*		
Replicate F								0.389	0.833	0.833	0.000		
Replicate Prob(F)								0.6967	0.4871	0.4871	1.0000		
Treatment F								4.889	4.900	44.100	0.000		
Treatment Prob(F)								0.0600	0.0598	0.0005	1.0000		

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								TURF	TURF	TURF	TURF		
								QUALITY	QUALITY	QUALITY	QUALITY		
								1-9	1-9	1-9	1-9		
								11-28-01	12-18-01	01-18-02	02-13-02		
								78 DA-A	98 DA-A	129 DA-A	155 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Product Rate	Product Unit	Grow Stg	Appl Code				
1	Rimsulfuron	25	DF	1	OZ/A			SEPT 13	A	7.0 a	7.0 a	7.0 a	7.0 a
2	Rimsulfuron	25	DF	2	OZ/A			SEPT 13	A	7.0 a	7.0 a	7.0 a	7.0 a
3	Rimsulfuron	25	DF	4	OZ/A			SEPT 13	A	7.0 a	7.0 a	7.0 a	7.0 a
4	Nontreated									7.0 a	7.0 a	6.0 b	6.5 a
LSD (P=.05)										0.00	0.00	0.00	0.57
Standard Deviation										0.00	0.00	0.00	0.27
CV										0.0	0.0	0.0	3.98
Bartlett's X2										0.0	0.0	0.0	0.0
P(Bartlett's X2)										0.00*	0.00*	0.00*	0.00*
Replicate F										0.000	0.000	0.000	0.833
Replicate Prob(F)										1.0000	1.0000	1.0000	0.4871
Treatment F										0.000	0.000	0.000	2.500
Treatment Prob(F)										1.0000	1.0000	1.0000	0.1739

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								TURF	TURF		
								QUALITY	QUALITY		
								1-9	1-9		
								03-14-02	04-10-02		
								184 DA-A	211 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
1	Rimsulfuron	25	DF	1	OZ/A			SEPT 13	A	7.0 a	7.00 a
2	Rimsulfuron	25	DF	2	OZ/A			SEPT 13	A	7.0 a	7.00 a
3	Rimsulfuron	25	DF	4	OZ/A			SEPT 13	A	7.0 a	7.00 a
4	Nontreated									6.5 a	5.00 b
LSD (P=.05)								0.57	0.575		
Standard Deviation								0.27	0.274		
CV								3.98	4.21		
Bartlett's X2								0.0	0.0		
P(Bartlett's X2)								0.00*	0.00*		
Replicate F								0.833	0.833		
Replicate Prob(F)								0.4871	0.4871		
Treatment F								2.500	40.000		
Treatment Prob(F)								0.1739	0.0006		

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Trial Comments

4-10-02 - Annual bluegrass population never dominant enough to rate.