

North Carolina State University

TRANXIT IMPREGNATED ON FERTILIZER FOR CLUMPY RYEGRASS CONTROL

Trial ID: 04-D13

Study Director: TRAVIS GANNON

Location: NCSU TURF FIELD LAB

Investigator: Fred Yelverton

Application Description

	A
Application Date:	3-1-04
Time of Day:	1-4 PM
Application Method:	SPRD/SPRY
Application Timing:	MARCH 1
Application Placement:	FOL/SOIL
Applied By:	T GANNON
Air Temperature, Unit:	67.5 F
% Relative Humidity:	48
Wind Velocity, Unit:	4.5 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	45 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	30

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	CYNDA BGRM
Stage Scale Used:	BBCH
Stage Majority, Percent:	DORMANT 100

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	LOLPE W
Height, Unit:	0.75 IN
Height Minimum, Maximum:	0.5 1
Density, Unit:	5 FT2
Coverage, Unit:	50 %

Application Equipment

	A
Appl. Equipment:	SPRY/JAR
Operating Pressure:	25
Pressure Unit:	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:	32.5
Volume Unit:	GPA
Propellant:	COMP CO2

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Pest Code				LOLPE	LOLPE	LOLPE	LOLPE	LOLPE	LOLPE
Rating Date				3-8-04	3-17-04	3-24-04	3-29-04	4-15-04	4-20-04
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%	%	%
Days After Last Applic.				7	16	23	28	45	50
Trt-Eval Interval				7 DA-A	16 DA-A	23 DA-A	28 DA-A	45 DA-A	50 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code
1	GX728001 PCU	G		200 lb/a			MARCH 1 A		
								0.0 a	5.0 de
								17.5 b-e	56.3 b
								41.3 e	21.3 ef
2	GX728002 PCU	G		200 lb/a			MARCH 1 A		
								0.0 a	10.0 cde
								7.5 cde	61.3 ab
								65.0 cd	51.3 cd
3	GX728001 PPS	G		200 lb/a			MARCH 1 A		
								0.0 a	5.0 de
								17.5 b-e	57.5 b
								47.5 de	37.5 de
4	GX728002 PPS	G		200 lb/a			MARCH 1 A		
								0.0 a	5.0 de
								7.5 cde	71.3 ab
								78.8 abc	70.0 bc
5	GX728001 PMU	G		200 lb/a			MARCH 1 A		
								0.0 a	15.0 bcd
								32.5 ab	80.0 a
								92.0 ab	95.0 a
6	GX728002 PMU	G		200 lb/a			MARCH 1 A		
								0.0 a	10.0 cde
								20.0 bcd	80.0 a
								97.3 a	95.3 a
7	GX728001 HW14214	G		200 lb/a			MARCH 1 A		
								0.0 a	0.0 e
								5.0 de	23.8 c
								17.5 f	13.8 fg
8	GX728002 HW14214	G		200 lb/a			MARCH 1 A		
								0.0 a	5.0 de
								15.0 b-e	73.8 ab
								78.3 bc	78.3 ab
9	GX728001 HW17110	G		200 lb/a			MARCH 1 A		
								0.0 a	5.0 de
								7.5 cde	22.5 c
								3.8 f	0.0 g
10	GX728002 HW17110	G		200 lb/a			MARCH 1 A		
								0.0 a	15.0 bcd
								17.5 b-e	63.8 ab
								53.8 de	28.8 ef
11	GX728001 R	G		200 lb/a			MARCH 1 A		
								0.0 a	0.0 e
								0.0 e	0.0 e
								0.0 d	0.0 f
								0.0 f	0.0 g
12	GX728002 R	G		200 lb/a			MARCH 1 A		
								0.0 a	0.0 e
								0.0 e	0.0 e
								0.0 d	0.0 f
								0.0 f	0.0 g
13	TRANXIT X-77	25 DF	L	1 oz/a	0.25 % v/v		MARCH 1 A		
								0.0 a	23.8 abc
								15.0 b-e	75.0 ab
								87.5 ab	77.5 ab
14	TRANXIT X-77	25 DF	L	2 oz/a	0.25 % v/v		MARCH 1 A		
								0.0 a	35.0 a
								45.0 a	77.5 a
								97.3 a	97.3 a
15	MANOR X-77	60 WG	L	1 oz/a	0.25 % v/v		MARCH 1 A		
								0.0 a	25.0 ab
								25.0 bc	78.8 a
								90.0 ab	87.8 ab
16	NONTREATED							0.0 a	0.0 e
								0.0 e	0.0 e
								0.0 d	0.0 f
								0.0 f	0.0 g
LSD (P=.05)				0.00	13.91	19.15	19.99	18.88	21.11
Standard Deviation				0.00	9.73	13.40	13.99	13.21	14.77
CV				0.0	98.08	92.23	27.26	24.87	31.37
Grand Mean				0.0	9.92	14.53	51.33	53.11	47.09
Bartlett's X2				0.0	7.66	4.048	32.235	34.411	28.458
P(Bartlett's X2)				.	0.743	0.983	0.001*	0.001*	0.002*
Friedman's X2				0.0	23.112	21.949	46.726	53.261	51.419
P(Friedman's X2)				1.00	0.082	0.109	0.001	0.001	0.001
Replicate F				0.000	5.130	9.172	1.614	0.757	1.796
Replicate Prob(F)				1.0000	0.0039	0.0001	0.1993	0.5240	0.1614
Treatment F				0.000	4.545	3.400	19.552	33.199	27.255
Treatment Prob(F)				1.0000	0.0001	0.0007	0.0001	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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Pest Code		LLOLPE		LLOLPE							
Rating Date		4-27-04		5-24-04							
Rating Data Type		CONTROL		CONTROL							
Rating Unit		%		%							
Days After Last Applic.		57		84							
Trt-Eval Interval		57 DA-A		84 DA-A							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	GX728001 PCU	G		200 lb/a			MARCH 1 A		22.5 def	0.0 d	
2	GX728002 PCU	G		200 lb/a			MARCH 1 A		35.0 d	0.0 d	
3	GX728001 PPS	G		200 lb/a			MARCH 1 A		17.5 d-g	21.3 c	
4	GX728002 PPS	G		200 lb/a			MARCH 1 A		56.3 c	58.8 b	
5	GX728001 PMU	G		200 lb/a			MARCH 1 A		86.3 a	83.8 a	
6	GX728002 PMU	G		200 lb/a			MARCH 1 A		98.0 a	97.3 a	
7	GX728001 HW14214	G		200 lb/a			MARCH 1 A		11.3 efg	0.0 d	
8	GX728002 HW14214	G		200 lb/a			MARCH 1 A		65.0 bc	57.5 b	
9	GX728001 HW17110	G		200 lb/a			MARCH 1 A		2.5 fg	0.0 d	
10	GX728002 HW17110	G		200 lb/a			MARCH 1 A		26.3 de	10.0 cd	
11	GX728001 R	G		200 lb/a			MARCH 1 A		0.0 g	0.0 d	
12	GX728002 R	G		200 lb/a			MARCH 1 A		1.3 g	2.5 d	
13	TRANXIT X-77	25 DF	L	1 oz/a	0.25 % v/v		MARCH 1 A		57.5 c	53.8 b	
14	TRANXIT X-77	25 DF	L	2 oz/a	0.25 % v/v		MARCH 1 A		98.0 a	97.3 a	
15	MANOR X-77	60 WG	L	1 oz/a	0.25 % v/v		MARCH 1 A		83.8 ab	86.3 a	
16	NONTREATED								0.0 g	0.0 d	
LSD (P=.05)				20.48				16.54			
Standard Deviation				14.33				11.57			
CV				34.69				32.58			
Grand Mean				41.31				35.52			
Bartlett's X2				27.54				47.905			
P(Bartlett's X2)				0.004*				0.001*			
Friedman's X2				54.143				51.893			
P(Friedman's X2)				0.001				0.001			
Replicate F				0.036				0.574			
Replicate Prob(F)				0.9909				0.6348			
Treatment F				25.855				46.577			
Treatment Prob(F)				0.0001				0.0001			

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

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Trial Comments