

North Carolina State University

Mobility of TranXit on a Downward Slope and its Effects on Overseeded Perennial Ryegrass

Trial ID: 02-D01 Study Dir.: Travis Gannon
 Location: NCSU Faculty Club Investigator: Fred Yelverton

GENERAL TRIAL INFORMATION

Study Director: Travis Gannon **Title:** Research Associate
Affiliation: North Carolina State University
Postal Code: 27695
Investigator: Fred Yelverton **Title:** Professor
Affiliation: North Carolina State University
Postal Code: 27695

TRIAL LOCATION

City: Raleigh **Trial Status:** Completed
State/Prov.: NC
Postal Code: 27695 **Initiation Date:** 10-02-01
Country: USA

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	LAMAM	Henbit	Lamium amplexicaule

Crop 1: LOLPE Perennial ryegrass **Variety:** Tri Pro Greens Mix
Planting Date: 10-02-01 **Planting Method:** Slit seed
Rate: 20 LB/1000FT²

Soil Moisture: Dry

SITE AND DESIGN

Plot Width, Unit: 5 FT **Plot Length, Unit:** 8 FT **Reps:** 4
Study Design: RANDOMIZED COMPLETE BLOCK

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	01-02-02		12	IN	SNOW		
2.	01-04-02		0.28	IN	RAIN		
3.	01-06-02		0.76	IN	RAIN		
4.	01-12-02		0.24	IN	RAIN		
5.	01-13-02		0.05	IN	RAIN		
6.	01-16-02		1.1	IN	IRRIGATION		
7.	01-19-02		1.89	IN	RAIN		
8.	01-20-02		0.02	IN	RAIN		
9.	01-21-02		0.28	IN	RAIN		
10.	01-22-02		0.01	IN	RAIN		
11.	01-23-02		1.33	IN	RAIN		
12.	01-24-02		0.13	IN	RAIN		
13.	01-25-02		0.17	IN	RAIN		
14.	02-06-02		0.44	IN	RAIN		
15.	02-07-02		0.82	IN	RAIN		
16.	02-10-02		0.05	IN	RAIN		

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APPLICATION DESCRIPTION

	A
Application Date:	01-10-02
Time of Day:	4-5 PM
Application Method:	SPRAY
Application Timing:	POST
Applic. Placement:	UPSLOPE
Air Temp., Unit:	58.9 F
% Relative Humidity:	61
Wind Velocity, Unit:	0.6 MPH
Dew Presence (Y/N):	N
Soil Temp., Unit:	44 F
Soil Moisture:	WET
% Cloud Cover:	10

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	LOLPE MOWED
Height, Unit:	4 INCH

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LAMAM
Stage Scale:	E FLOWER
Density, Unit:	0-5 FT ²

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 SPRAY
Operating Pressure:	42 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	VS8003XR
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:	50 GPA
Propellant:	COMP. CO2

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Weed Code				LOLPE	LOLPE	LOLPE	LOLPE					
Crop Code				PHYTO	PHYTO	PHYTO	PHYTO					
Rating Data Type				%	%	%	%					
Rating Unit				01-17-02	01-24-02	01-31-02	02-07-02					
Rating Date				7 DA-A	14 DA-A	21 DA-A	28 DA-A					
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	TranXit X-77	25 DF L		0.5 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	0.0 a
2	TranXit X-77	25 DF L		1 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	0.0 a
3	TranXit X-77	25 DF L		1.5 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	0.0 a
4	TranXit X-77	25 DF L		2 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	0.0 a
5	TranXit X-77	25 DF L		4 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	0.0 a
6	Kerb	50 WP		1.5 LB A/A			POST A		0.0 a	0.0 a	0.0 a	0.0 a
7	Simazine	4 L		2 LB A/A			POST A		0.0 a	0.0 a	0.0 a	0.0 a
8	Nontreated								0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)				0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
Standard Deviation				0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
CV				0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Bartlett's X2				0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
P(Bartlett's X2)				0.00*	0.00*	0.00*	0.00*		0.00*	0.00*	0.00*	0.00*
Replicate F				0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000		0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000		1.0000	1.0000	1.0000	1.0000

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

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Weed Code				LOLPE	LOLPE	LOLPE	LAMAM					
Crop Code				PHYTO	PHYTO	PHYTO	CONTROL					
Rating Data Type				%	%	%	%					
Rating Unit				02-21-02	03-07-02	04-03-02	04-03-02					
Rating Date				42 DA-A	56 DA-A	83 DA-A	83 DA-A					
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code				
1	TranXit X-77	25 DF L		0.5 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	72.5 b
2	TranXit X-77	25 DF L		1 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	100.0 a
3	TranXit X-77	25 DF L		1.5 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	98.8 a
4	TranXit X-77	25 DF L		2 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	100.0 a
5	TranXit X-77	25 DF L		4 OZ/A 0.25 % V/V			POST A POST A		0.0 a	0.0 a	0.0 a	100.0 a
6	Kerb	50 WP		1.5 LB A/A			POST A		0.0 a	0.0 a	6.3 a	0.0 c
7	Simazine	4 L		2 LB A/A			POST A		0.0 a	0.0 a	0.0 a	98.8 a
8	Nontreated								0.0 a	0.0 a	0.0 a	0.0 c
LSD (P=.05)				0.00	0.00	6.50	17.85					
Standard Deviation				0.00	0.00	4.42	12.14					
CV				0.0	0.0	565.69	17.04					
Bartlett's X2				0.0	0.0	0.0	20.773					
P(Bartlett's X2)				0.00*	0.00*	0.00*	0.001*					
Replicate F				0.000	0.000	1.000	0.947					
Replicate Prob(F)				1.0000	1.0000	0.4123	0.4356					
Treatment F				0.000	0.000	1.000	54.873					
Treatment Prob(F)				1.0000	1.0000	0.4586	0.0001					

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Trial Comments

1-10-02 - At initiation, the volumetric water content of the soil was measured in four locations in each rep, the average for each rep was:

REP1 - 34.33%

REP2 - 30.9%

REP3 - 29.73%

REP4 - 33.3%