



# North Carolina State University

## Removal of Overseeded Perennial Ryegrass

Trial ID: 03-D19  
Location: NCSU Turf Field Lab

Study Dir.: Travis Gannon  
Investigator: Fred Yelverton

										LOLPE	LOLPE	LOLPE	LOLPE	
										CONTROL	CONTROL	CONTROL	CONTROL	
										%	%	%	%	
										5-6-03	5-15-03	5-23-03	5-29-03	
										8 DA-A	17 DA-A	25 DA-A	31 DA-A	
Trt	Treatment	Form	Form	Rate	Rate	Product	Product	Grow	Appl	Spray				
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stg	Code	Volume				
1	Flazasulfuron X-77	25	DG	0.5	oz/a			APRIL 28	A		16.3	a	71.3	bc
			L	0.25	% v/v			APRIL 28	A				88.8	a
2	Flazasulfuron X-77	25	DG	1	oz/a			APRIL 28	A		16.3	a	82.5	a
			L	0.25	% v/v			APRIL 28	A				90.0	a
3	Flazasulfuron X-77	25	DG	1.5	oz/a			APRIL 28	A		15.0	a	78.8	ab
			L	0.25	% v/v			APRIL 28	A				91.0	a
4	Flazasulfuron X-77	25	DG	2.25	oz/a			APRIL 28	A		13.8	a	72.5	abc
			L	0.25	% v/v			APRIL 28	A				91.3	a
5	Flazasulfuron X-77	25	DG	3	oz/a			APRIL 28	A		13.8	a	66.3	cd
			L	0.25	% v/v			APRIL 28	A				90.0	a
6	Kerb	50	WP	1	lb ai/a			APRIL 28	A		0.0	b	0.0	e
								APRIL 28	A				0.0	c
7	TranXit X-77	25	DF	1	oz/a			APRIL 28	A		15.0	a	57.5	d
			L	0.25	% v/v			APRIL 28	A				88.8	a
8	Revolver X-77		L	0.4	oz/1000 ft2			APRIL 28	A		12.5	a	71.3	bc
			L	0.25	% v/v			APRIL 28	A				86.3	a
9	Monument X-77	75	WG	10	g ai/a			APRIL 28	A		13.8	a	73.8	abc
			L	0.25	% v/v			APRIL 28	A				87.5	a
10	Manor X-77	60	WG	0.5	oz/a			APRIL 28	A		12.5	a	73.8	abc
			L	0.25	% v/v			APRIL 28	A				76.3	b
11	Nontreated										0.0	b	0.0	e
													0.0	c
													0.0	d
LSD (P=.05)										6.39	10.41	7.26	5.77	
Standard Deviation										4.43	7.21	5.03	4.00	
CV										37.81	12.24	7.0	5.39	
Grand Mean										11.7	58.86	71.8	74.18	
Bartlett's X2										14.171	14.408	5.488	5.003	
P(Bartlett's X2)										0.077	0.072	0.704	0.757	
Replicate F										0.106	2.115	0.169	0.118	
Replicate Prob(F)										0.9557	0.1192	0.9166	0.9490	
Treatment F										7.166	68.370	202.169	340.569	
Treatment Prob(F)										0.0001	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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										LOLPE	LOLPE	LOLPE	TURF
										CONTROL	CONTROL	CONTROL	QUALITY
										%	%	%	1-9
										6-11-03	6-18-03	7-1-03	5-6-03
										44 DA-A	51 DA-A	64 DA-A	8 DA-A
Trt	Treatment	Form	Form	Rate	Product	Product	Grow	Appl	Spray				
No.	Name	Conc	Type	Unit	Rate	Rate	Stg	Code	Volume				
1	Flazasulfuron X-77	25	DG	0.5 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			91.3 ab	92.5 a	97.0 a	7.0 a
2	Flazasulfuron X-77	25	DG	1 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			97.0 a	95.0 a	98.0 a	7.0 a
3	Flazasulfuron X-77	25	DG	1.5 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			96.0 a	95.0 a	99.0 a	7.0 a
4	Flazasulfuron X-77	25	DG	2.25 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			96.0 a	95.0 a	99.0 a	7.0 a
5	Flazasulfuron X-77	25	DG	3 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			94.8 a	95.0 a	99.0 a	7.0 a
6	Kerb	50	WP	1 lb ai/a			APRIL 28 A			21.3 d	20.0 c	5.0 c	7.0 a
7	TranXit X-77	25	DF	1 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			75.0 bc	80.0 ab	92.3 ab	7.0 a
8	Revolver X-77		L	0.4 oz/1000 ft2 L 0.25 % v/v			APRIL 28 A APRIL 28 A			93.5 a	95.0 a	95.8 ab	7.0 a
9	Monument X-77	75	WG	10 g ai/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			87.5 ab	91.3 a	94.5 ab	7.0 a
10	Manor X-77	60	WG	0.5 oz/a L 0.25 % v/v			APRIL 28 A APRIL 28 A			68.8 c	71.3 b	89.8 b	7.0 a
11	Nontreated									0.0 e	0.0 d	0.0 c	7.0 a
LSD (P=.05)										16.93	15.20	6.79	0.00
Standard Deviation										11.72	10.53	4.70	0.00
CV										15.71	13.95	5.95	0.0
Grand Mean										74.64	75.45	79.02	7.0
Bartlett's X2										42.366	16.865	10.242	0.0
P(Bartlett's X2)										0.001*	0.002*	0.115	.
Replicate F										1.447	1.162	2.889	0.000
Replicate Prob(F)										0.2488	0.3407	0.0518	1.0000
Treatment F										32.224	40.613	260.671	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000

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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Weed Code										TURF	TURF	TURF	
Crop Code										QUALITY	QUALITY	QUALITY	
Rating Data Type										1-9	1-9	1-9	
Rating Unit										6-18-03	6-26-03	7-1-03	
Rating Date										51 DA-A	59 DA-A	64 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	Spray Volume			
1	Flazasulfuron X-77	25	DG	0.5	oz/a			APRIL 28	A		6.8 a	6.8 a	7.1 a
			L	0.25	% v/v			APRIL 28	A				
2	Flazasulfuron X-77	25	DG	1	oz/a			APRIL 28	A		6.6 a	6.6 a	7.1 a
			L	0.25	% v/v			APRIL 28	A				
3	Flazasulfuron X-77	25	DG	1.5	oz/a			APRIL 28	A		6.1 a	6.2 a	6.3 bc
			L	0.25	% v/v			APRIL 28	A				
4	Flazasulfuron X-77	25	DG	2.25	oz/a			APRIL 28	A		6.8 a	6.7 a	7.1 a
			L	0.25	% v/v			APRIL 28	A				
5	Flazasulfuron X-77	25	DG	3	oz/a			APRIL 28	A		6.7 a	6.8 a	7.3 a
			L	0.25	% v/v			APRIL 28	A				
6	Kerb	50	WP	1	lb ai/a			APRIL 28	A		7.0 a	7.0 a	6.3 c
7	TranXit X-77	25	DF	1	oz/a			APRIL 28	A		6.9 a	6.8 a	6.9 abc
			L	0.25	% v/v			APRIL 28	A				
8	Revolver X-77		L	0.4	oz/1000 ft2			APRIL 28	A		6.8 a	6.9 a	7.0 ab
			L	0.25	% v/v			APRIL 28	A				
9	Monument X-77	75	WG	10	g ai/a			APRIL 28	A		6.8 a	6.8 a	6.9 abc
			L	0.25	% v/v			APRIL 28	A				
10	Manor X-77	60	WG	0.5	oz/a			APRIL 28	A		6.9 a	7.0 a	6.9 abc
			L	0.25	% v/v			APRIL 28	A				
11	Nontreated										7.0 a	7.0 a	6.3 c
LSD (P=.05)											0.61	0.68	0.73
Standard Deviation											0.42	0.47	0.51
CV											6.26	6.95	7.41
Grand Mean											6.76	6.77	6.84
Bartlett's X2											41.276	31.791	37.901
P(Bartlett's X2)											0.001*	0.001*	0.001*
Replicate F											2.950	1.418	0.404
Replicate Prob(F)											0.0486	0.2568	0.7513
Treatment F											1.317	1.019	2.230
Treatment Prob(F)											0.2661	0.4513	0.0438

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### Trial Comments

4-28-03 - Trial initiated, optimum spray conditions. Trial was initiated on Tri Pro Greens perennial ryegrass mix which was overseeded fall 2002 at 10 lb seed per 1000 ft<sup>2</sup>.

5-7-03 - Trial evaluated for ryegrass control and turf quality.

5-15-03 - Trial evaluated for ryegrass control and turf quality.

7-15-03 - Unable to evaluate trial, perennial ryegrass has disappeared naturally.