

North Carolina State University

Clumpy Ryegrass Control in Bermudagrass

Trial ID: 03-D40
Location: Prestonwood CC

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

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	LOLPE	LOLPE	LOLPE
											CONTROL	CONTROL	CONTROL	CONTROL
											%	%	%	%
											6-3-03	6-11-03	6-23-03	7-9-03
											5 DA-A	13 DA-A	25 DA-A	41 DA-A
Trt	Treatment	Form	Form	Rate	Product	Product	Grow	Appl	Spray					
No.	Name	Conc	Type	Rate	Rate	Rate	Stg	Code	Volume					
1	Flazasulfuron X-77	25	DG L	1.5 0.25	oz/a % v/v		MAY 29 MAY 29	A A			0.0 a	75.0 a	100.0 a	100.0 a
2	Manor X-77	60	WG L	0.75 0.25	oz/a % v/v		MAY 29 MAY 29	A A			0.0 a	45.0 ab	83.3 a	86.7 a
3	TranXit X-77	25	DF L	1 0.25	oz/a % v/v		MAY 29 MAY 29	A A			0.0 a	40.0 b	85.0 a	85.0 a
4	Revolver		L	0.4	oz/1000 ft2		MAY 29	A			0.0 a	55.0 ab	95.0 a	90.0 a
5	Monument X-77	75	WG L	10 0.25	g ai/a % v/v		MAY 29 MAY 29	A A			0.0 a	45.0 ab	100.0 a	96.7 a
6	MON44951 X-77	75	WG L	0.06 0.25	lb ai/a % v/v						0.0 a	43.3 ab	45.0 b	43.3 b
7	Nontreated										0.0 a	0.0 c	0.0 c	0.0 c
LSD (P=.05)											0.00	34.64	17.31	21.82
Standard Deviation											0.00	19.47	9.73	12.26
CV											0.0	44.94	13.4	17.11
Grand Mean											0.0	43.33	72.62	71.67
Bartlett's X2											0.0	3.026	0.925	3.792
P(Bartlett's X2)											.	0.696	0.819	0.435
Replicate F											0.000	2.791	2.277	3.807
Replicate Prob(F)											1.0000	0.1011	0.1451	0.0524
Treatment F											0.000	4.000	43.874	26.947
Treatment Prob(F)											1.0000	0.0197	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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Weed Code										LOLPE	CYNDA	CYNDA	CYNDA	CYNDA	
Crop Code										CONTROL	PHYTO	PHYTO	PHYTO	PHYTO	
Rating Data Type										%	%	%	%	%	
Rating Unit										7-25-03	6-3-03	6-11-03	6-23-03	7-9-03	
Rating Date										57 DA-A	5 DA-A	13 DA-A	25 DA-A	41 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	1.5	oz/a			MAY 29	A		100.0 a	0.0 a	0.0 a	0.0 a	0.0 a
			L	0.25	% v/v			MAY 29	A						
2	Manor X-77	60	WG	0.75	oz/a			MAY 29	A		76.7 ab	0.0 a	0.0 a	0.0 a	0.0 a
			L	0.25	% v/v			MAY 29	A						
3	TranXit X-77	25	DF	1	oz/a			MAY 29	A		100.0 a	0.0 a	0.0 a	0.0 a	0.0 a
			L	0.25	% v/v			MAY 29	A						
4	Revolver		L	0.4	oz/1000 ft2			MAY 29	A		96.7 a	0.0 a	0.0 a	0.0 a	0.0 a
5	Monument X-77	75	WG	10	g ai/a			MAY 29	A		98.3 a	0.0 a	0.0 a	0.0 a	0.0 a
			L	0.25	% v/v			MAY 29	A						
6	MON44951 X-77	75	WG	0.06	lb ai/a						60.0 b	0.0 a	0.0 a	0.0 a	0.0 a
			L	0.25	% v/v										
7	Nontreated										0.0 c	0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)											23.92	0.00	0.00	0.00	0.00
Standard Deviation											13.44	0.00	0.00	0.00	0.00
CV											17.7	0.0	0.0	0.0	0.0
Grand Mean											75.95	0.0	0.0	0.0	0.0
Bartlett's X2											9.632	0.0	0.0	0.0	0.0
P(Bartlett's X2)											0.022*
Replicate F											0.915	0.000	0.000	0.000	0.000
Replicate Prob(F)											0.4266	1.0000	1.0000	1.0000	1.0000
Treatment F											22.435	0.000	0.000	0.000	0.000
Treatment Prob(F)											0.0001	1.0000	1.0000	1.0000	1.0000

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume	
	Weed Code										CYNDA
	Crop Code										PHYTO
	Rating Data Type										%
	Rating Unit										7-25-03
	Rating Date										57 DA-A
	Trt-Eval Interval										
1	Flazasulfuron X-77	25	DG	1.5	oz/a			MAY 29	A		0.0 a
			L	0.25	% v/v			MAY 29	A		
2	Manor X-77	60	WG	0.75	oz/a			MAY 29	A		0.0 a
			L	0.25	% v/v			MAY 29	A		
3	TranXit X-77	25	DF	1	oz/a			MAY 29	A		0.0 a
			L	0.25	% v/v			MAY 29	A		
4	Revolver		L	0.4	oz/1000 ft2			MAY 29	A		0.0 a
5	Monument X-77	75	WG	10	g ai/a			MAY 29	A		0.0 a
			L	0.25	% v/v			MAY 29	A		
6	MON44951 X-77	75	WG	0.06	lb ai/a						0.0 a
			L	0.25	% v/v						
7	Nontreated										0.0 a
	LSD (P=.05)										0.00
	Standard Deviation										0.00
	CV										0.0
	Grand Mean										0.0
	Bartlett's X2										0.0
	P(Bartlett's X2)										.
	Replicate F										0.000
	Replicate Prob(F)										1.0000
	Treatment F										0.000
	Treatment Prob(F)										1.0000

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Trial Comments

5-30-03 - Trial initiated, perennial ryegrass clumps ranged in size from 1 - 2 inch diameter and were per 0 - 6 ft². Clumps in replicate 1 are smaller in diameter compared to replicates 2 & 3.

6-3-03 - Trial evaluated for clumpy ryegrass control and bermudagrass phytotoxicity.

6-11-03 - Trial evaluated for clumpy ryegrass control and bermudagrass phytotoxicity. Control in replicate 1 is higher due to smaller diameter clumps.