

North Carolina State University

Comparison of Standard Preemergence Goosegrass Herbicides

Trial ID: 02-T04

Study Dir.: Jason Hinton

Location: Thorndale C.C.

Investigator: Fred Yelverton

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 Spray	CO2 Spray
Operating Pressure:	36 PSI	36 PSI
Nozzle Type:	Flat Fan	Flat Fan
Nozzle Size:	8002 XR	8002 XR
Nozzle Spacing, Unit:	10 Inch	10 Inch
Boom Height, Unit:	10 Inch	10 Inch
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	Water	Water
Spray Volume, Unit:	32.5 GPA	32.5 GPA
Propellant:	Compr.CO2	Compr.CO2

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Weed Code								ELEIN	ELEIN	ELEIN		
Rating Data Type								CONTROL	CONTROL	CONTROL		
Rating Unit								%	%	%		
Rating Date								07-23-02	08-12-02	09-18-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code			
1	Pendimethalin	60	DG	3.0	LB A/A			Pre	A	93.8 ab	90.0 a-e	88.8 a-d
2	Pendimethalin	60	DG	1.5	LB A/A			Pre	A	100.0 a	98.8 ab	97.5 a
	Pendimethalin	60	DG	1.5	LB A/A			8 Weeks	B			
3	Barricade	65	WG	0.75	LB A/A			Pre	A	98.8 ab	96.3 a-d	92.5 abc
4	Barricade	65	WG	0.5	LB A/A			Pre	A	98.8 ab	97.5 abc	90.0 abc
	Barricade	65	WG	0.25	LB A/A			8 Weeks	B			
5	Barricade	65	WG	0.375	LB A/A			Pre	A	96.3 ab	91.3 a-e	86.3 a-d
	Barricade	65	WG	0.375	LB A/A			8 Weeks	B			
6	Barricade	4	L	0.75	LB A/A			Pre	A	96.0 ab	88.8 a-e	87.5 a-d
7	Barricade	4	L	0.5	LB A/A			Pre	A	96.3 ab	93.8 a-d	87.5 a-d
	Barricade	4	L	0.25	LB A/A			8 Weeks	B			
8	Barricade	4	L	0.375	LB A/A			Pre	A	97.3 ab	96.3 a-d	91.3 abc
	Barricade	4	L	0.375	LB A/A			8 Weeks	B			
9	Ronstar	50	WP	2.5	LB A/A			Pre	A	98.5 ab	91.3 a-e	86.3 a-d
10	Ronstar	50	WP	3.0	LB A/A			Pre	A	93.8 ab	88.8 a-e	85.0 a-d
11	Ronstar	2	G	2.5	LB A/A			Pre	A	95.0 ab	92.5 a-e	87.5 a-d
12	Ronstar	2	G	3.0	LB A/A			Pre	A	97.5 ab	91.3 a-e	87.5 a-d
13	Team Pro	0.86	G	3.0	LB A/A			Pre	A	95.0 ab	87.5 a-e	82.5 a-d
14	Team Pro	0.86	G	1.5	LB A/A			Pre	A	95.0 ab	87.5 a-e	78.8 bcd
	Team Pro	0.86	G	1.5	LB A/A			8 Weeks	B			
15	Surflan	4	F	3.0	LB A/A			Pre	A	66.3 c	62.5 f	50.0 e
16	Surflan	4	F	1.5	LB A/A			Pre	A	95.8 ab	86.3 b-e	71.3 d
	Surflan	4	F	1.5	LB A/A			8 Weeks	B			
17	Dimension	1	EC	0.5	LB A/A			Pre	A	86.3 b	80.0 e	78.8 bcd
18	Dimension	1	EC	0.25	LB A/A			Pre	A	91.3 ab	83.8 de	75.0 cd
	Dimension	1	EC	0.25	LB A/A			8 Weeks	B			
19	Team Pro	0.86	G	2.0	LB A/A			Pre	A	96.3 ab	93.8 a-d	81.3 a-d
	Surflan	4	F	1.5	LB A/A			8 Weeks	B			

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								ELEIN CONTROL %	ELEIN CONTROL %	ELEIN CONTROL %			
								07-23-02	08-12-02	09-18-02			
Weed Code	Rating Data Type	Rating Unit	Rating Date										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Product Rate	Product Rate	Grow Unit	Stg	Appl Code			
20	Team Pro	0.86	G	1.5	LB	A/A		Pre	A		98.5 ab	95.0 a-d	86.3 a-d
	Team Pro	0.86	G	2.0	LB	A/A		8 Weeks	B				
21	Team Pro	0.86	G	2.0	LB	A/A		Pre	A		98.8 ab	98.8 ab	86.3 a-d
	Team Pro	0.86	G	2.0	LB	A/A		8 Weeks	B				
22	Regalstar		G	200.0	LB/A			Pre	A		97.5 ab	85.0 cde	91.3 abc
23	Regalstar II	1.2	G	200.0	LB/A			Pre	A		100.0 a	98.8 ab	96.3 ab
24	Pendulum	2	G	3.0	LB	A/A		Pre	A		98.8 ab	92.3 a-e	92.5 abc
25	Pendulum	2	G	1.5	LB	A/A		Pre	A		100.0 a	100.0 a	96.3 ab
	Pendulum	2	G	1.5	LB	A/A		8 Weeks	B				
26	Dimension Ultra	40	WP	0.5	LB	A/A		Pre	A		95.0 ab	90.0 a-e	82.5 a-d
27	Dimension Ultra	40	WP	0.25	LB	A/A		Pre	A		98.8 ab	91.3 a-e	90.0 abc
	Dimension Ultra	40	WP	0.25	LB	A/A		8 Weeks	B				
28	Nontreated										0.0 d	0.0 g	0.0 f
LSD (P=.05)								13.50	13.07	17.62			
Standard Deviation								9.55	9.24	12.46			
CV								10.38	10.57	15.13			
Bartlett's X2								120.274	44.892	56.666			
P(Bartlett's X2)								0.001*	0.009*	0.001*			
Replicate F								1.386	2.517	2.245			
Replicate Prob(F)								0.2530	0.0640	0.0893			
Treatment F								16.051	16.300	8.919			
Treatment Prob(F)								0.0001	0.0001	0.0001			

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

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Trial Comments