

North Carolina State University

Tolerance of Common Centipedegrass to MON44951

Trial ID: 03-D34
Location: Sandhills Station

Study Dir.: Travis Gannon
Investigator: Fred Yelverton

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 SPRAY	CO2 SPRAY
Operating Pressure:	42 PSI	42 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	VS8002XR	VS8002XR
Nozzle Spacing, Unit:	10 INCH	10 INCH
Nozzles/Row:	4	4
Boom Length, Unit:	40 INCH	40 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:	COMP CO2	COMP CO2

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Crop Code										EREOP	EREOP	EREOP	EREOP	EREOP	EREOP	
Rating Data Type										PHYTO	PHYTO	PHYTO	PHYTO	PHYTO	PHYTO	
Rating Unit										%	%	%	%	%	%	
Rating Date										6-3-03	6-11-03	6-18-03	6-23-03	7-9-03	7-16-03	
Trt-Eval Interval										6 DA-A	14 DA-A	21 DA-A	26 DA-A	42 DA-A	49 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume						
1	MON 44951 X-77	75 L	WG	2	oz/a			MAY 28	A		0.0 a	1.3 a	0.0 a	1.3 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
2	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		0.0 a	1.3 a	0.0 a	2.5 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
3	MON 44951 X-77	75 L	WG	4	oz/a			MAY 28	A		0.0 a	2.5 a	0.0 a	3.8 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
4	MON 44951 X-77	75 L	WG	1.33	oz/a			MAY 28	A		0.0 a	2.5 a	0.0 a	3.8 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
	MON 44951 X-77	75 L	WG	1.33	oz/a			JULY 9	B							
				0.25	% v/v			JULY 9	B							
5	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
	MON 44951 X-77	75 L	WG	2.66	oz/a			JULY 9	B							
				0.25	% v/v			JULY 9	B							
6	Nontreated										0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
LSD (P=.05)											0.00	3.55	0.00	3.44	0.00	0.00
Standard Deviation											0.00	2.36	0.00	2.28	0.00	0.00
CV											0.0	188.56	0.0	121.72	0.0	0.0
Grand Mean											0.0	1.25	0.0	1.88	0.0	0.0
Bartlett's X2											0.0	0.116	0.0	0.091	0.0	0.0
P(Bartlett's X2)											.	0.99	.	0.993	.	.
Replicate F											0.000	0.250	0.000	0.200	0.000	0.000
Replicate Prob(F)											1.0000	0.8601	1.0000	0.8948	1.0000	1.0000
Treatment F											0.000	0.900	0.000	2.280	0.000	0.000
Treatment Prob(F)											1.0000	0.5062	1.0000	0.0992	1.0000	1.0000

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

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Crop Code										EREOP	EREOP	EREOP	EREOP	EREOP	EREOP	
Rating Data Type										PHYTO	PHYTO	PHYTO	PHYTO	PHYTO	PHYTO	
Rating Unit										%	%	%	%	%	%	
Rating Date										7-24-03	7-29-03	8-6-03	8-12-03	8-19-03	8-25-03	
Trt-Eval Interval										57 DA-A	62 DA-A	70 DA-A	76 DA-A	83 DA-A	89 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume						
1	MON 44951 X-77	75 L	WG	2	oz/a			MAY 28	A		0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
2	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
3	MON 44951 X-77	75 L	WG	4	oz/a			MAY 28	A		0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
4	MON 44951 X-77	75 L	WG	1.33	oz/a			MAY 28	A		0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
	MON 44951 X-77	75 L	WG	1.33	oz/a			JULY 9	B							
				0.25	% v/v			JULY 9	B							
5	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		0.0 a	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
				0.25	% v/v			MAY 28	A							
	MON 44951 X-77	75 L	WG	2.66	oz/a			JULY 9	B							
				0.25	% v/v			JULY 9	B							
6	Nontreated										0.0 a	0.0 a	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
Standard Deviation											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
Grand Mean											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
P(Bartlett's X2)											.	.	.	.	.	.
Replicate F											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
Treatment F											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

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Trial ID: 03-D34
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Crop Code										TURF	TURF	TURF	TURF	TURF	
Rating Data Type										QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	
Rating Unit										1-9	1-9	1-9	1-9	1-9	
Rating Date										6-3-03	6-11-03	6-18-03	6-23-03	7-9-03	
Trt-Eval Interval										6 DA-A	14 DA-A	21 DA-A	26 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume					
1	MON 44951 X-77	75 L	WG	2	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
2	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
3	MON 44951 X-77	75 L	WG	4	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
4	MON 44951 X-77	75 L	WG	1.33	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
	MON 44951 X-77	75 L	WG	1.33	oz/a			JULY 9	B						
			L	0.25	% v/v			JULY 9	B						
5	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
	MON 44951 X-77	75 L	WG	2.66	oz/a			JULY 9	B						
			L	0.25	% v/v			JULY 9	B						
6	Nontreated										7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)											0.00	0.00	0.00	0.00	0.00
Standard Deviation											0.00	0.00	0.00	0.00	0.00
CV											0.0	0.0	0.0	0.0	0.0
Grand Mean											7.0	7.0	7.0	7.0	7.0
Bartlett's X2											0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)											.	.	.	.	.
Replicate F											0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F											0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000

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Crop Code										TURF	TURF	TURF	TURF	TURF	
Rating Data Type										QUALITY	QUALITY	QUALITY	QUALITY	QUALITY	
Rating Unit										1-9	1-9	1-9	1-9	1-9	
Rating Date										7-16-03	7-24-03	7-29-03	8-6-03	8-12-03	
Trt-Eval Interval										49 DA-A	57 DA-A	62 DA-A	70 DA-A	76 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume					
1	MON 44951 X-77	75 L	WG	2	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
2	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
3	MON 44951 X-77	75 L	WG	4	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
4	MON 44951 X-77	75 L	WG	1.33	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
	MON 44951 X-77	75 L	WG	1.33	oz/a			JULY 9	B						
			L	0.25	% v/v			JULY 9	B						
5	MON 44951 X-77	75 L	WG	2.66	oz/a			MAY 28	A		7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
			L	0.25	% v/v			MAY 28	A						
	MON 44951 X-77	75 L	WG	2.66	oz/a			JULY 9	B						
			L	0.25	% v/v			JULY 9	B						
6	Nontreated										7.0 a	7.0 a	7.0 a	7.0 a	7.0 a
LSD (P=.05)											0.00	0.00	0.00	0.00	0.00
Standard Deviation											0.00	0.00	0.00	0.00	0.00
CV											0.0	0.0	0.0	0.0	0.0
Grand Mean											7.0	7.0	7.0	7.0	7.0
Bartlett's X2											0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)											.	.	.	.	.
Replicate F											0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F											0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000

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Crop Code										TURF	TURF	CYPGL	
Rating Data Type										QUALITY	QUALITY	CONTROL	
Rating Unit										1-9	1-9	%	
Rating Date										8-19-03	8-25-03	6-23-03	
Trt-Eval Interval										83 DA-A	89 DA-A	26 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Spray Volume			
1	MON 44951 X-77	75 L	WG	2	oz/a % v/v			MAY 28	A		7.0 a	7.0 a	100.0 a
2	MON 44951 X-77	75 L	WG	2.66	oz/a % v/v			MAY 28	A		7.0 a	7.0 a	100.0 a
3	MON 44951 X-77	75 L	WG	4	oz/a % v/v			MAY 28	A		7.0 a	7.0 a	100.0 a
4	MON 44951 X-77	75 L	WG	1.33	oz/a % v/v			MAY 28	A		7.0 a	7.0 a	100.0 a
	MON 44951 X-77	75 L	WG	1.33	oz/a % v/v			JULY 9	B				
5	MON 44951 X-77	75 L	WG	2.66	oz/a % v/v			MAY 28	A		7.0 a	7.0 a	100.0 a
	MON 44951 X-77	75 L	WG	2.66	oz/a % v/v			JULY 9	B				
6	Nontreated										7.0 a	7.0 a	0.0 b
LSD (P=.05)											0.00	0.00	0.00
Standard Deviation											0.00	0.00	0.00
CV											0.0	0.0	0.0
Grand Mean											7.0	7.0	83.33
Bartlett's X2											0.0	0.0	0.0
P(Bartlett's X2)											.	.	.
Replicate F											0.000	0.000	0.000
Replicate Prob(F)											1.0000	1.0000	1.0000
Treatment F											0.000	0.000	0.000
Treatment Prob(F)											1.0000	1.0000	1.0000

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Trial Comments

5-28-03 - Trial initiated, centipedegrass fully greened up.

6-3-03 - Trial evaluated for centipedegrass phytotoxicity and turf quality, minimal phytotoxicity present.

6-11-03 - Trial evaluated for centipedegrass phytotoxicity and turf quality, minimal phytotoxicity present.

6-18-03 - Trial evaluated for centipedegrass phytotoxicity and turf quality, minimal phytotoxicity present.

6-23-03 - Trial evaluated for centipedegrass phytotoxicity and turf quality, minimal phytotoxicity present.

7-9-03 - Trial evaluated for centipedegrass phytotoxicity and turf quality, no centipedegrass injury persists. Sequential applications were applied.

7-16-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.

7-24-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.

7-29-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.

8-6-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.

8-12-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.

8-19-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.

8-25-03 - Trial was evaluated for centipedegrass phytotoxicity and turf quality.