

North Carolina State University

Tolerance of Bermudagrass to Herbicides During Greenup

Trial ID: 02-T12

Study Dir.: Jason Hinton

Location: NCSU Turf Field Lab Investigator: Fred Yelverton

APPLICATION EQUIPMENT

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

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Crop Code								CYND	CYND	CYND	
Rating Data Type								GREENUP	GREENUP	COVER	
Rating Unit								%	%	%	
Rating Date								04-01-02	04-09-02	04-19-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	MON 44951	75	WG	0.04 LB A/A			10%Green A	A	26.3 abc	51.3 abc	81.3 a
2	MON 44951	75	WG	0.06 LB A/A			10%Green A	A	26.3 abc	50.0 a-d	78.8 ab
3	MON 44951	75	WG	0.12 LB A/A			10%Green A	A	26.3 abc	48.8 b-e	78.8 ab
4	MON 44951 MON 0818	75	WG L	0.04 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	25.0 bc	48.8 b-e	76.3 a-d
5	MON 44951 MON 0818	75	WG L	0.06 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	25.0 bc	48.8 b-e	78.8 ab
6	MON 44951 MON 0818	75	WG L	0.12 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	25.0 bc	47.5 cde	81.3 a
7	TranXit MON 0818	25	DF L	0.03 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	22.5 c	46.3 de	76.3 a-d
8	MON 44951	75	WG	0.04 LB A/A			25%Green B	B	25.0 bc	46.3 de	76.3 a-d
9	MON 44951	75	WG	0.06 LB A/A			25%Green B	B	26.3 abc	47.5 cde	76.3 a-d
10	MON 44951	75	WG	0.12 LB A/A			25%Green B	B	26.3 abc	47.5 cde	77.5 abc
11	MON 44951 MON 0818	75	WG L	0.04 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	27.5 ab	47.5 cde	78.8 ab
12	MON 44951 MON 0818	75	WG L	0.06 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	25.0 bc	48.8 b-e	78.8 ab
13	MON 44951 MON 0818	75	WG L	0.12 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	26.3 abc	45.0 e	76.3 a-d
14	TranXit MON 0818	25	DF L	0.03 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	27.5 ab	48.8 b-e	76.3 a-d
15	MON 44951	75	WG	0.04 LB A/A			50%Green C	C	23.8 bc	48.8 b-e	76.3 a-d
16	MON 44951	75	WG	0.06 LB A/A			50%Green C	C	27.5 ab	50.0 a-d	75.0 a-d
17	MON 44951	75	WG	0.12 LB A/A			50%Green C	C	22.5 c	48.8 b-e	70.0 d
18	MON 44951 MON 0818	75	WG L	0.04 LB A/A 0.5 % V/V			50%Green C 50%Green C	C	26.3 abc	48.8 b-e	77.5 abc

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Crop Code								CYNDA	CYNDA	
Rating Data Type								QUALITY	QUALITY	
Rating Unit								1-9	1-9	
Rating Date								04-19-02	05-08-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code		
1	MON 44951	75	WG	0.04 LB A/A			10%Green A	A	6.938 a	7.000 a
2	MON 44951	75	WG	0.06 LB A/A			10%Green A	A	7.000 a	7.000 a
3	MON 44951	75	WG	0.12 LB A/A			10%Green A	A	6.813 ab	7.000 a
4	MON 44951 MON 0818	75	WG L	0.04 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	6.750 ab	6.938 ab
5	MON 44951 MON 0818	75	WG L	0.06 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	7.000 a	7.000 a
6	MON 44951 MON 0818	75	WG L	0.12 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	7.000 a	6.938 ab
7	TranXit MON 0818	25	DF L	0.03 LB A/A 0.5 % V/V			10%Green A 10%Green A	A	6.750 ab	6.875 ab
8	MON 44951	75	WG	0.04 LB A/A			25%Green B	B	6.938 a	7.000 a
9	MON 44951	75	WG	0.06 LB A/A			25%Green B	B	6.813 ab	6.813 ab
10	MON 44951	75	WG	0.12 LB A/A			25%Green B	B	6.813 ab	6.875 ab
11	MON 44951 MON 0818	75	WG L	0.04 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	7.000 a	6.813 ab
12	MON 44951 MON 0818	75	WG L	0.06 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	6.875 a	6.875 ab
13	MON 44951 MON 0818	75	WG L	0.12 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	6.875 a	6.875 ab
14	TranXit MON 0818	25	DF L	0.03 LB A/A 0.5 % V/V			25%Green B 25%Green B	B	6.875 a	7.000 a
15	MON 44951	75	WG	0.04 LB A/A			50%Green C	C	6.813 ab	6.813 ab
16	MON 44951	75	WG	0.06 LB A/A			50%Green C	C	6.750 ab	6.875 ab
17	MON 44951	75	WG	0.12 LB A/A			50%Green C	C	6.313 c	6.688 b
18	MON 44951 MON 0818	75	WG L	0.04 LB A/A 0.5 % V/V			50%Green C 50%Green C	C	6.875 a	7.000 a

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Crop Code								CYND	CYND		
Rating Data Type								QUALITY	QUALITY		
Rating Unit								1-9	1-9		
Rating Date								04-19-02	05-08-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
19	MON 44951 MON 0818	75	WG L	0.06 0.5	LB % V/V	A/A		50%Green 50%Green	C C	6.563 bc	6.750 ab
20	MON 44951 MON 0818	75	WG L	0.12 0.5	LB % V/V	A/A		50%Green 50%Green	C C	6.563 bc	6.875 ab
21	TranXit MON 0818	25	DF L	0.03 0.5	LB % V/V	A/A		50%Green 50%Green	C C	6.563 bc	7.000 a
22	Nontreated									6.875 a	6.813 ab
LSD (P=.05)								0.2879	0.2542		
Standard Deviation								0.2036	0.1798		
CV								2.99	2.61		
Bartlett's X2								8.833	5.176		
P(Bartlett's X2)								0.945	0.971		
Replicate F								2.376	0.432		
Replicate Prob(F)								0.0783	0.7307		
Treatment F								2.941	1.089		
Treatment Prob(F)								0.0005	0.3822		

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

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Trial Comments