

North Carolina State University

Control of Smooth Crabgrass With Mesotrione Alone and Tankmixed

Trial ID: 02-T11

Study Dir.: Jason Hinton

Location: NC Wesleyan College Investigator: Fred Yelverton

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGIS Pre to	DIGIS 0-4 Till.
Stage Scale:	1 Leaf	3-15 Leaf
Density, Unit:	2 Ft ²	20 Ft ²

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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						DIGIS	DIGIS	DIGIS			
						CONTROL	CONTROL	CONTROL			
						%	%	%			
						07-16-02	08-06-02	08-15-02			
Rating Data Type	Rating Unit	Rating Date									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate Unit	Product Rate Unit	Grow Stg	Appl Code			
1	Mesotrione	4	SC	0.5 LB/A	A/A		Pre	A	53.8 b	12.5 de	8.8 cd
2	Mesotrione	4	SC	0.33 LB/A	A/A		Pre	A	56.3 b	15.0 de	23.8 c
3	Mesotrione Barricade	4 4	SC FL	0.5 LB/A 0.65 LB/A	A/A A/A		Pre Pre	A A	98.5 a	72.5 ab	73.8 b
4	Mesotrione Barricade	4 4	SC FL	0.33 LB/A 0.65 LB/A	A/A A/A		Pre Pre	A A	97.5 a	78.8 a	80.0 ab
5	Gallery Trimec Classic	75 3.32	WG L	1.0 LB/A 3.5 PT/A			Pre Pre	A A	97.5 a	78.8 a	77.5 ab
6	Barricade	4	FL	0.65 LB/A	A/A		Pre	A	98.8 a	85.0 a	80.0 ab
7	Pendulum	60	WG	3.0 LB/A	A/A		Pre	A	98.8 a	85.0 a	80.0 ab
8	Vanquish X-77	4 L	L	1.0 PT/A 0.25 % V/V			Post Post	B B	0.0 c	0.0 e	6.3 d
9	Mesotrione X-77	4 L	SC	0.5 LB/A 0.25 % V/V	A/A		Post Post	B B	0.0 c	43.8 c	90.0 a
10	Mesotrione X-77	4 L	SC	0.33 LB/A 0.25 % V/V	A/A		Post Post	B B	0.0 c	31.3 cd	81.3 ab
11	Mesotrione Vanquish X-77	4 4 L	SC L	0.5 LB/A 1.0 PT/A 0.25 % V/V	A/A		Post Post Post	B B B	0.0 c	52.5 bc	92.5 a
12	Mesotrione Vanquish X-77	4 4 L	SC L	0.33 LB/A 1.0 PT/A 0.25 % V/V	A/A		Post Post Post	B B B	0.0 c	52.5 bc	91.3 a
13	Nontreated								0.0 c	0.0 e	0.0 d
LSD (P=.05)						17.04	21.25	15.30			
Standard Deviation						11.93	14.87	10.70			
CV						25.8	31.82	17.72			
Bartlett's X2						47.037	8.273	26.075			
P(Bartlett's X2)						0.001*	0.602	0.006*			
Replicate F						0.283	2.055	6.368			
Replicate Prob(F)						0.8371	0.1235	0.0014			
Treatment F						62.064	18.848	45.123			
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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Weed Code								DIGIS	DIGIS	
Rating Data Type								CONTROL	CONTROL	
Rating Unit								%	%	
Rating Date								08-29-02	09-19-02	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code		
1	Mesotrione	4	SC	0.5 LB/A/A			Pre	A	6.3 d	0.0 e
2	Mesotrione	4	SC	0.33 LB/A/A			Pre	A	12.5 d	0.0 e
3	Mesotrione Barricade	4 4	SC FL	0.5 LB/A/A 0.65 LB/A/A			Pre Pre	A A	67.5 c	65.0 cd
4	Mesotrione Barricade	4 4	SC FL	0.33 LB/A/A 0.65 LB/A/A			Pre Pre	A A	72.5 bc	71.3 bcd
5	Gallery Trimec Classic	75 3.32	WG L	1.0 LB/A 3.5 PT/A			Pre Pre	A A	67.5 c	71.3 bcd
6	Barricade	4	FL	0.65 LB/A/A			Pre	A	72.5 bc	76.3 bc
7	Pendulum	60	WG	3.0 LB/A/A			Pre	A	73.8 bc	76.3 bc
8	Vanquish X-77	4 L	L	1.0 PT/A 0.25 % V/V			Post Post	B B	0.0 d	0.0 e
9	Mesotrione X-77	4 L	SC	0.5 LB/A/A 0.25 % V/V			Post Post	B B	90.0 a	82.5 ab
10	Mesotrione X-77	4 L	SC	0.33 LB/A/A 0.25 % V/V			Post Post	B B	72.5 bc	60.0 d
11	Mesotrione Vanquish X-77	4 4 L	SC L	0.5 LB/A/A 1.0 PT/A 0.25 % V/V			Post Post Post	B B B	93.8 a	90.0 a
12	Mesotrione Vanquish X-77	4 4 L	SC L	0.33 LB/A/A 1.0 PT/A 0.25 % V/V			Post Post Post	B B B	81.3 ab	72.5 bcd
13	Nontreated								0.0 d	0.0 e
LSD (P=.05)								13.63	13.11	
Standard Deviation								9.54	9.17	
CV								17.46	17.93	
Bartlett's X2								24.469	11.862	
P(Bartlett's X2)								0.006*	0.157	
Replicate F								5.496	1.570	
Replicate Prob(F)								0.0033	0.2136	
Treatment F								55.802	62.406	
Treatment Prob(F)								0.0001	0.0001	

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Trial Comments