

North Carolina State University

Control of Goosegrass With Mesotrione Alone and Tankmixed

Trial ID: 02-T10

Study Dir.: Jason Hinton

Location: Thorndale C.C.

Investigator: Fred Yelverton

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ELEIN Pre	ELEIN 0-6 Till.
Stage Scale:		3-20 Leaf
Density, Unit:		1 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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							ELEIN	ELEIN	ELEIN		
							CONTROL	CONTROL	CONTROL		
							%	%	%		
							07-23-02	07-30-02	08-06-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Mesotrione	4	SC	0.5 LB/A/A			Pre	A	31.3 def	12.5 de	18.8 c
2	Mesotrione	4	SC	0.33 LB/A/A			Pre	A	6.3 f	18.8 de	12.5 c
3	Mesotrione Barricade	4 4	SC FL	0.5 LB/A/A 0.65 LB/A/A			Pre Pre	A A	92.5 ab	85.0 ab	88.8 a
4	Mesotrione Barricade	4 4	SC FL	0.33 LB/A/A 0.65 LB/A/A			Pre Pre	A A	98.8 a	88.8 ab	96.3 a
5	Gallery Trimec Classic	75 3.32	WG L	1.0 LB/A 3.5 PT/A			Pre Pre	A A	73.8 abc	70.0 b	53.8 b
6	Barricade	4	FL	0.65 LB/A/A			Pre	A	95.0 ab	85.0 ab	90.0 a
7	Pendulum	60	WG	3.0 LB/A/A			Pre	A	98.8 a	95.0 a	100.0 a
8	Vanquish X-77	4 L	L	1.0 PT/A 0.25 % V/V			Post Post	B B	0.0 f	2.5 de	12.5 c
9	Mesotrione X-77	4 L	SC	0.5 LB/A/A 0.25 % V/V			Post Post	B B	23.8 ef	46.3 c	80.0 ab
10	Mesotrione X-77	4 L	SC	0.33 LB/A/A 0.25 % V/V			Post Post	B B	61.3 bcd	43.8 c	96.3 a
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	43.8 cde	42.5 c	87.5 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	0.0 f	25.0 cd	81.3 ab
13	Nontreated								0.0 f	0.0 e	0.0 c
LSD (P=.05)							35.83	23.21	28.20		
Standard Deviation							25.07	16.24	19.73		
CV							52.15	34.32	31.38		
Bartlett's X2							43.302	14.512	21.007		
P(Bartlett's X2)							0.001*	0.151	0.021*		
Replicate F							1.801	0.136	0.917		
Replicate Prob(F)							0.1645	0.9378	0.4424		
Treatment F							10.458	17.895	14.818		
Treatment Prob(F)							0.0001	0.0001	0.0001		

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	ELEIN	ELEIN	ELEIN
Weed Code			
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%
Rating Date	07-23-02	07-30-02	08-06-02

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

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							ELEIN	ELEIN	ELEIN		
							CONTROL	CONTROL	CONTROL		
							%	%	%		
							08-12-02	09-05-02	09-18-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Mesotrione	4	SC	0.5 LB/A/A			Pre	A	20.0 bc	0.0 d	12.5 e
2	Mesotrione	4	SC	0.33 LB/A/A			Pre	A	37.5 b	18.8 d	16.3 e
3	Mesotrione Barricade	4 4	SC FL	0.5 LB/A/A 0.65 LB/A/A			Pre Pre	A A	93.8 a	96.3 a	87.5 abc
4	Mesotrione Barricade	4 4	SC FL	0.33 LB/A/A 0.65 LB/A/A			Pre Pre	A A	97.5 a	93.8 ab	92.5 ab
5	Gallery Trimec Classic	75 3.32	WG L	1.0 LB/A 3.5 PT/A			Pre Pre	A A	73.8 a	75.0 b	65.0 bcd
6	Barricade	4	FL	0.65 LB/A/A			Pre	A	86.3 a	90.0 ab	85.0 abc
7	Pendulum	60	WG	3.0 LB/A/A			Pre	A	98.8 a	97.5 a	93.8 a
8	Vanquish X-77	4 L	L	1.0 PT/A 0.25 % V/V			Post Post	B B	25.0 bc	0.0 d	12.5 e
9	Mesotrione X-77	4 L	SC	0.5 LB/A/A 0.25 % V/V			Post Post	B B	91.3 a	83.8 ab	80.0 abc
10	Mesotrione X-77	4 L	SC	0.33 LB/A/A 0.25 % V/V			Post Post	B B	96.3 a	92.5 ab	77.5 a-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	90.0 a	78.8 ab	62.5 cd
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	93.8 a	50.0 c	50.0 d
13	Nontreated								0.0 c	0.0 d	0.0 e
LSD (P=.05)							28.92	20.78	28.38		
Standard Deviation							20.24	14.54	19.86		
CV							29.11	24.35	35.13		
Bartlett's X2							44.186	28.623	30.982		
P(Bartlett's X2)							0.001*	0.001*	0.001*		
Replicate F							0.680	0.681	0.536		
Replicate Prob(F)							0.5698	0.5692	0.6605		
Treatment F							12.214	30.832	12.069		
Treatment Prob(F)							0.0001	0.0001	0.0001		

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	ELEIN	ELEIN	ELEIN
Weed Code			
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%
Rating Date	08-12-02	09-05-02	09-18-02

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

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Location: Thorndale C.C.

Investigator: Fred Yelverton

Weed Code							CYND	CYND
Crop Code							QUALITY	QUALITY
Rating Data Type							1-9	1-9
Rating Unit							07-30-02	08-06-02
Rating Date								
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
							7.000 a	6.875 a
2	Mesotrione	4	SC	0.33 LB A/A			Pre	A
							7.000 a	6.938 a
3	Mesotrione	4	SC	0.5 LB A/A			Pre	A
	Barricade	4	FL	0.65 LB A/A			Pre	A
							7.000 a	7.000 a
4	Mesotrione	4	SC	0.33 LB A/A			Pre	A
	Barricade	4	FL	0.65 LB A/A			Pre	A
							7.000 a	6.938 a
5	Gallery	75	WG	1.0 LB/A			Pre	A
	Trimec Classic	3.32	L	3.5 PT/A			Pre	A
							7.000 a	6.875 a
6	Barricade	4	FL	0.65 LB A/A			Pre	A
							7.000 a	6.688 a
7	Pendulum	60	WG	3.0 LB A/A			Pre	A
							7.000 a	6.938 a
8	Vanquish	4	L	1.0 PT/A			Post	B
	X-77		L	0.25 % V/V			Post	B
							6.688 a	6.625 a
9	Mesotrione	4	SC	0.5 LB A/A			Post	B
	X-77		L	0.25 % V/V			Post	B
							4.375 d	5.625 b
10	Mesotrione	4	SC	0.33 LB A/A			Post	B
	X-77		L	0.25 % V/V			Post	B
							4.813 cd	5.625 b
11	Mesotrione	4	SC	0.5 LB A/A			Post	B
	Vanquish	4	L	1.0 PT/A			Post	B
	X-77		L	0.25 % V/V			Post	B
							5.000 c	4.688 c
12	Mesotrione	4	SC	0.33 LB A/A			Post	B
	Vanquish	4	L	1.0 PT/A			Post	B
	X-77		L	0.25 % V/V			Post	B
							5.750 b	5.813 b
13	Nontreated							
							7.000 a	6.625 a
LSD (P=.05)							0.4997	0.6294
Standard Deviation							0.3497	0.4404
CV							5.5	6.88
Bartlett's X2							1.017	26.115
P(Bartlett's X2)							0.907	0.006*
Replicate F							0.354	0.083
Replicate Prob(F)							0.7866	0.9691
Treatment F							32.554	10.896
Treatment Prob(F)							0.0001	0.0001

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Weed Code		
Crop Code		
Rating Data Type		
Rating Unit		
Rating Date		
	CYNDA QUALITY	CYNDA QUALITY
	1-9	1-9
	07-30-02	08-06-02

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Trial Comments