

North Carolina State University

Postemergence Control of Smooth Crabgrass With Mesotrione

Trial ID: 02-T32

Study Dir.: Jason Hinton

Location: Fairfield Harbour

Investigator: Fred Yelverton

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	DIGIS 0-2 Till.	DIGIS 0-2 Till.
Stage Scale:	2-8 Leaf	2-8 Leaf
Density, Unit:	25 Ft ²	25 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 CONTROL %	DIGIS CONTROL %	DIGIS CONTROL %		
								07-09-02	07-18-02	08-01-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	Mesotrione X-77	4	SC L	140	G A/A % V/V			Post Post	A A	45.0 d	53.8 b	38.8 c
2	Mesotrione X-77	4	SC L	280	G A/A % V/V			Post Post	A A	50.0 cd	82.5 a	76.3 b
3	Mesotrione X-77	4	SC L	560	G A/A % V/V			Post Post	A A	55.0 c	92.3 a	87.5 ab
4	Drive MSO	75	WG L	0.75	LB A/A % V/V			Post Post	A A	83.8 a	90.0 a	75.0 b
5	MSMA MSMA	6	L L	2.0	LB A/A			Post 1 Week	A B	72.5 b	94.8 a	94.8 a
6	Nontreated									0.0 e	0.0 c	0.0 d
LSD (P=.05)								7.61	14.46	18.02		
Standard Deviation								5.05	9.60	11.96		
CV								9.89	13.93	19.27		
Bartlett's X2								6.976	12.093	13.162		
P(Bartlett's X2)								0.137	0.017*	0.011*		
Replicate F								3.420	1.680	2.934		
Replicate Prob(F)								0.0448	0.2138	0.0675		
Treatment F								131.485	59.259	36.252		
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