

University of GA Coop Ext Service

Influence of Mechanically-Induced Stress on White Clover Control with Glyphosate	
Trial ID: NCROP3-03	Study Dir.: Bill Nutt
Location: Griffin	Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Investigator:	Tim R Murphy	Title:	Weed Scientist
Affiliation:	UGA-CAES		
Study Director:	Jay Ferrell	Title:	Res. Scientist
Affiliation:	UGA-CAES		

TRIAL LOCATION

City:	Griffin	Trial Status:	ARCHIVED
State/Prov.:	GA	Initiation Date:	6-11-2003
		Planned Completion Date:	9-10-2003

COOPERATOR/LANDOWNER

Cooperator:	Dennis Williamson	Org:	Monsanto
City:	Mt. Pleasant	State/Prov.:	SC
Conducted Under GLP (Y/N):	N	Conducted Under GEP (Y/N):	N

WEED DESCRIPTION

Weed	Code	Scientific Name	Common Name
1.	TRFRE	<i>Trifolium repens</i>	White clover
2.	PLALA	<i>Plantago lanceolata</i>	Buckhorn plantain

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 15 FT Reps: 4
 Site Type: fallow, mow only site Study Design: SPLIT-PLOT

Trial Initiation Comments: Spayed 6 ft. wide plot on 10 ft. centers.

MAINTENANCE

Field Prep./Maintenance: Site routinely mowed before test initiation at 3.0 inches with rotary mower.

APPLICATION DESCRIPTION

	A
Application Date:	6-11-2003
Time of Day:	1:00 p.m.
Application Method:	SPRAY
Application Timing:	POSPOS
Applic. Placement:	FOLIAR
Air Temp., Unit:	90 F
% Relative Humidity:	55
Wind Velocity, Unit:	3.5 mph
Dew Presence (Y/N):	N
Soil Temp., Unit:	82 F
Soil Moisture:	good
% Cloud Cover:	45

University of GA Coop Ext Service

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	TRFRE
Stage Scale:	Full Bloom
Density, Unit:	50 %
Weed 2 Code, Stage:	PLALA
Stage Scale:	Seed head
Density, Unit:	40 %

APPLICATION EQUIPMENT

	A
Appl. Equipment:	Tractor
Operating Pressure:	26 psi
Nozzle Type:	flat fan
Nozzle Size:	8004
Nozzle Spacing, Unit:	18 in
Boom Length, Unit:	6 ft
Boom Height, Unit:	28 in
Ground Speed, Unit:	2.4 mph
Carrier:	water
Spray Volume, Unit:	25 gpa
Propellant:	air
Tank Mix (Y/N):	n

Trial Comments

6-11-03:

One hour after application, designated plots were mowed to height of one (1) inch with rotary mower. Clippings were bagged and removed from site.

7--17-03, 7-24-03:

Sprayed tank mix Basagram/Poast Plus/Crop Oil Concentrate (Agri Oil) to control Yellow Nutsedge and Annual Grasses. Sprayed at 25 gal/A spray volume

Rate:	Basagram	3 pnts/A
	Poast Plus	2 pnts/A
	Crop Oil Concentrate	2 pnts/A

9-10 -03

Plot #101 overgrown with Bermudagrass, CYNDA.

University of GA Coop Ext Service

Influence of Mechanically-Induced Stress on White Clover Control with Glyphosate

Trial ID: NCROP3-03

Study Dir. : Bill Nutt

Location: Griffin

Investigator: Tim R Murphy

Weed Code	TRFRE	TRFRE	TRFRE	TRFRE	TRFRE							
Part Rated	Foliag	Foliag	Foliag	Foliag	Foliag							
Rating Data Type	Control	Control	Control	Control	Control							
Rating Unit	0-100	0-100	0-100	0-100	0-100							
Rating Date	6-17-2003	6-25-2003	7-7-2003	8-12-2003	9-10-2003							
Trt-Eval Interval	6 DA-A	14 DA-A	26 DA-A	62 DA-A	91 DA-A							
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	MON 77360 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a		bloom	A	45 c	21 b	23 b	8 b	10 b
2	MON 77360 No Mow	3	SL	96 fl oz/a		bloom	A	50 abc	86 a	90 a	84 a	43 a
3	MON 79252 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a		bloom	A	51 abc	23 b	24 b	5 b	0 b
4	MON 79252 No Mow	3	SL	96 fl oz/a		bloom	A	60 abc	88 a	90 a	79 a	55 a
5	MON 54154 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a		bloom	A	48 bc	18 b	18 b	5 b	5 b
6	MON 54154 No Mow	3	SL	96 fl oz/a		bloom	A	66 a	87 a	90 a	84 a	48 a
7	MON 54155 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a		bloom	A	50 abc	21 b	20 b	5 b	0 b
8	MON 54155 No Mow	3	SL	96 fl oz/a		bloom	A	63 ab	88 a	91 a	88 a	48 a
9	MON 54153 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a		bloom	A	51 abc	23 b	18 b	0 b	8 b
10	MON 54153 No Mow	3	SL	96 fl oz/a		bloom	A	51 abc	83 a	88 a	83 a	43 a
11	Untreated Check Mow 1/2 plot 1 HAT					bloom	A	13 d	0 c	0 c	0 b	0 b
12	Untreated Check No Mow					bloom	A	0 d	0 c	0 c	0 b	0 b
LSD (P=.05)								14.7	10.2	11.2	13.4	23.2
Standard Deviation								10.2	7.1	7.8	9.2	16.1
CV								22.3	15.82	16.99	25.29	74.9

University of GA Coop Ext Service

Weed Code							PLALA	PLALA	PLALA	PLALA	PLALA	
Part Rated							Foliag	Foliag	Foliag	Foliag	Foliag	
Rating Data Type							Control	Control	Control	Control	Control	
Rating Unit							0-100	0-100	0-100	0-100	0-100	
Rating Date							6-17-2003	6-25-2003	7-7-2003	8-12-2003	9-10-2003	
Trt-Eval Interval							6 DA-A	14 DA-A	26 DA-A	62 DA-A	91 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Product Rate	Product Rate Unit	Grow Stg	Appl Code					
1	MON 77360 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a	bloom	A		53 a	39 c	40 b	13 b	11 bcd
2	MON 77360 No Mow	3	SL	96 fl oz/a	bloom	A		38 b	96 a	96 a	83 a	54 a
3	MON 79252 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a	bloom	A		60 a	51 bc	48 b	5 b	0 d
4	MON 79252 No Mow	3	SL	96 fl oz/a	bloom	A		25 c	86 a	95 a	84 a	43 ab
5	MON 54154 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a	bloom	A		56 a	49 bc	40 b	13 b	13 bcd
6	MON 54154 No Mow	3	SL	96 fl oz/a	bloom	A		26 c	88 a	94 a	79 a	33 a-d
7	MON 54155 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a	bloom	A		54 a	50 bc	49 b	15 b	15 bcd
8	MON 54155 No Mow	3	SL	96 fl oz/a	bloom	A		25 c	90 a	95 a	83 a	38 abc
9	MON 54153 Mow 1/2 plot 1 HAT	3	SL	96 fl oz/a	bloom	A		56 a	63 b	55 b	5 b	8 cd
10	MON 54153 No Mow	3	SL	96 fl oz/a	bloom	A		23 c	91 a	95 a	75 a	45 ab
11	Untreated Check Mow 1/2 plot 1 HAT				bloom	A		13 d	0 d	0 c	0 b	0 d
12	Untreated Check No Mow				bloom	A		0 e	0 d	0 c	0 b	0 d
LSD (P=.05)							9.9	17.0	16.5	16.7	30.4	
Standard Deviation							6.8	11.8	11.4	11.6	21.0	
CV							19.22	20.1	19.48	30.69	98.26	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)