

University of Georgia

Clover response to postemergence herbicides labeled in pecans.

Trial ID: Veg26-07

Study Dir.: Davis, Wells

Location: Tifton

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 30 feet

Spray vol: 14.8 gal/ac

Mix size: 1.5 liters (min .92602)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
1	Sandea NIS	75		DF L	0.5 0.25	OZ/A % V/V	POST POST	A A	0.3795 g/mx 3.75 ml/mx	101	213	303	409
2	Sandea NIS	75		DF L	1 0.25	OZ/A % V/V	POST POST	A A	0.759 g/mx 3.75 ml/mx	102	207	314	407
3	Ignite	2.34		L	22	OZ/A	POST	A	17.42 ml/mx	103	211	312	405
4	Aim NIS	2		EC L	1 0.25	OZ/A % V/V	POST POST	A A	0.7918 ml/mx 3.75 ml/mx	104	208	307	403
5	Direx NIS	4		L L	2 0.25	QT/A % V/V	POST POST	A A	50.67 ml/mx 3.75 ml/mx	105	214	304	401
6	Non-treated									106	212	305	411
7	Simizine NIS	4		L L	2 0.25	QT/A % V/V	POST POST	A A	50.67 ml/mx 3.75 ml/mx	107	209	302	413
8	Basagran NIS	4		L L	2 0.25	PT/A % V/V	POST POST	A A	25.34 ml/mx 3.75 ml/mx	108	210	301	402
9	2,4-D	4		L	2	PT/A	POST	A	25.34 ml/mx	109	206	310	404
10	Surflan	4		L	1.5	QT/A	POST	A	38.0 ml/mx	110	205	308	406
11	Prowl H20	3.8		L	1.5	QT/A	POST	A	38.0 ml/mx	111	204	306	408
12	Chateau NIS	51		WDG L	3 0.25	OZ/A % V/V	POST POST	A A	2.277 g/mx 3.75 ml/mx	112	203	313	410
13	Chateau NIS	51		WDG L	6 0.25	OZ/A % V/V	POST POST	A A	4.554 g/mx 3.75 ml/mx	113	202	311	412
14	Non-treated									114	201	309	414

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
1.423	g	Sandea	75	DF	
37.496	ml	NIS		L	
21.775	ml	Ignite	2.34	L	
0.990	ml	Aim	2	EC	
63.338	ml	Direx	4	L	
63.338	ml	Simizine	4	L	
31.669	ml	Basagran	4	L	
31.669	ml	2,4-D	4	L	
47.503	ml	Surflan	4	L	
47.503	ml	Prowl H20	3.8	L	
8.539	g	Chateau	51	WDG	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

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Trial Comments

OBJECTIVE: Determine clover tolerance to topical herbicide treatments.

Clover injury:

1. At 10 d after application, Ignite and 2,4-D caused severe injury.
2. By 17 d after application, Injury was severe with Ignite, Direx, and 2,4-D.
3. By 25 d, injury from 6 oz of Cheateau was 45% with 19% injury by 3 oz of Chateau.

Geranium control:

1. At 17 d, control by Ignite and Direx exceeded 84%. Control with 2,4-D was only 65%. No other herbicide provided any level of control.

Dandelion:

1. Ignite was the only product providing excellent control. Less than 55% was noted with all other herbicide options.

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Weed Code		clover	clover	clover	GERCA	GERCA	TAROF	
Rating Data Type		injury	injury	injury	injury	injury	injury	
Rating Unit		%	%	%	%	%	%	
Rating Date		Apr-05-07	Apr-12-07	Apr-20-07	Apr-05-07	Apr-12-07	Apr-20-07	
Assessed By		SC	SC	SC	SC	SC	SC	
Trt-Eval Interval		10 DA-A	17 DA-A	25 DA-A	10 DA-A	17 DA-A	25 DA-A	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	
		1	2	3	4	5	6	
1	Sandea NIS	0.5 OZ/A 0.25 % V/V	0 c	0 d	0 e	0 c	0 c	53 c
2	Sandea NIS	1 OZ/A 0.25 % V/V	0 c	0 d	0 e	0 c	0 c	65 b
3	Ignite	22 OZ/A	99 a	97 a	97 a	99 a	99 a	98 a
4	Aim NIS	1 OZ/A 0.25 % V/V	0 c	8 c	6 e	0 c	15 c	0 f
5	Direx NIS	2 QT/A 0.25 % V/V	0 c	85 b	58 b	0 c	85 a	30 e
6	Non-treated		0 c	0 d	0 e	0 c	0 c	0 f
7	Simazine NIS	2 QT/A 0.25 % V/V	0 c	0 d	3 e	0 c	0 c	0 f
8	Basagran NIS	2 PT/A 0.25 % V/V	0 c	0 d	6 e	0 c	0 c	28 e
9	2,4-D	2 PT/A	90 b	89 b	43 c	90 b	65 b	38 d
10	Surflan	1.5 QT/A	0 c	0 d	4 e	0 c	0 c	0 f
11	Prowl H20	1.5 QT/A	0 c	0 d	3 e	0 c	0 c	0 f
12	Chateau NIS	3 OZ/A 0.25 % V/V	0 c	0 d	19 d	0 c	0 c	26 e
13	Chateau NIS	6 OZ/A 0.25 % V/V	0 c	0 d	45 c	0 c	0 c	38 d
14	Non-treated		0 c	0 d	0 e	0 c	0 c	0 f
LSD (P=.05)			0.0	5.6	11.1	0.0	16.9	6.4
Standard Deviation			0.0	3.9	7.8	0.0	11.8	4.4
CV			0.0	19.82	38.55	0.0	62.73	16.61
Bartlett's X2			0.0	1.874	10.542	0.0	7.98	9.585
P(Bartlett's X2)			.	0.599	0.308	.	0.005*	0.213

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

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MAINTENANCE

Field Prep./Maintenance:

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

% Sand: _____ % OM: _____ Texture: _____
 % Silt: _____ pH: _____ Soil Name: _____
 % Clay: _____ CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A
Application Date:	Mar-26-07
Time of Day:	6 pm
Application Method:	broadcast
Application Timing:	post
Applic. Placement:	overtop
Air Temp., Unit:	86 f
% Relative Humidity:	37
Wind Velocity, Unit:	1 MPH
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	80 f
Soil Moisture:	dry
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	clove clover
Stage Scale:	
Height, Unit:	12 inch

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WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	TAROF
Stage Scale:	4" diam
Density, Unit:	2 yd sq
Weed 2 Code, Stage:	GERCA
Stage Scale:	6-10"
Density, Unit:	5 yd sq
Weed 3 Code, Stage:	
Stage Scale:	
Density, Unit:	

APPLICATION EQUIPMENT

A	
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 in
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
Boom Height, Unit:	15 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment