## **University of Georgia**

Seeded onion response to Chateau as a spray or impreganated treatment.

Trial ID: Onion1-06 Study Dir.: Stanley Culpepper Location: VORF Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

Trt	Treatment	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By	Rep	
No.	Name	Conc	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4
1	Non-treated								101	204	301	403
2	Chateau	51	DF	2	OZ/A	1 leaf	Α	1.012 g/mx	102	201	303	401
3	Chateau IMPREGNATED	51	DF	2	OZ/A	1 leaf	Α	1.012 g/mx	103	202	304	402
4	Goal XL	2	L	4	OZ/A	1 leaf	Α	2.111 ml/mx	104	203	302	404

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
1.265	g	Chateau	51	DF	
1.265	g	Chateau IMPREGNATED	51	DF	
2.639	ml	Goal XL	2	L	

<sup>&#</sup>x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

### **Trial Comments**

OBJECTIVE: Determine if Chateau causes less onion injury when applied impregnated on fertilzer as compared to being sprayed.

### Onion Response:

- 1. At 13 DAT (remember irrigation occurring most days), injury from Chateau was severe with 20% less injury in the impreganated plots. By mid-season, Chateau regardless of application method killed the seeded onions.
- 2. Goal provided minimal injury.

### Henbit Response:

1. Little henbit was present at time of application; thus, herbicide treatments provided excellent residual control.

### GENERAL COMMENTS:

- 1. Chateau and Goal were applied in water as noted in the application section. The Chateau impregnated treatment was spread over the plot area using glass jars with holes poked in the tops. A minimum of 16 passes per plot was used to provide uniform application.
- 2. In the non-treated control as well as in other plots receiving spray treatments, fertilizer was spread over those plots providing the exact amount of fertilizer over the trial area.

<sup>\*</sup> Product amount calculations increased 25 % for overage adjustment.

## Feb-21-07 (Onion1-06) AOV Means Table Page 2 of 5

# **University of Georgia**

Seeded onion response to Chateau as a spray or impreganated treatment.

Trial ID: Onion1-06 Study Dir.: Stanley Culpepper Location: VORF Investigator: Stanley Culpepper

<u> </u>						F
Weed Code						LAMAM
Crop Code			onion	onion	onion	
Rating Data Type			injury	injury	injury	control
Rating Unit			percent	percent	percent	percent
Rating Date			Nov-18-05	Dec-25-05	Jan-08-06	Nov-18-05
Crop Stage			Andrew		Andrew	Andrew
Trt-Eval Interval			13 DA-A	51 DA-A	65 DA-A	13 DA-A
Trt Treatment		Rate				
No. Name	Rate	Unit	1	2	3	4
1 Non-treated			0 c	0 c	0 c	0 c
2 Chateau	2	OZ/A	91 a	99 a	99 a	100 a
3 Chateau IMPREGNATED	2	OZ/A	70 b	99 a	98 a	93 b
4 Goal XL	4	OZ/A	0 с	9 b	8 b	100 a
LSD (P=.05)			8.8	3.2	2.8	2.8
Standard Deviation			5.5	2.0	1.8	1.7
CV			13.76	3.83	3.42	2.36
Bartlett's X2			0.28	0.175	3.657	0.0
P(Bartlett's X2)			0.597	0.916	0.161	

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

Feb-21-07 (Onion1-06) Site Description Page 3 of 5

# **University of Georgia**

		_		
	Seeded or	nion response	to Chateau as a spray or imprega	nated treatment.
Trial ID: Onion	1-06		Study Dir.: Stanley Culpepper	
Location: VORF	1 00		Investigator: Stanley Culpepper	
200001011 (0111				
atudu Pinastan.	G+1 G		AL INFORMATION	
Study Director:	_		Title: Ext. Weed	Science
Affiliation:		Georgia		
Postal Code:	31794			
Investigator:	Stanley C	Culpepper	Title: Ext. Weed	Science
Affiliation:	Univ. of	Georgia		
Postal Code:	31794			
		TRTAT.	LOCATION	
City: Vic	dalia	11(11111	Trial Status:	completed
State/Prov.: GA			Trial Reliability:	
Postal Code:			Initiation Date:	
Country: USA		0.	Planned Completion Date: N-Latitude of LL Corner °:	
			Angle y-axis to North °:	
Directions:				
		COORERATIO	OR/LANDOWNER	
Cooperator:			-	
_				
a				
a				
		<del></del>		
Postal Code:				
Conducted Under	GLP (Y/N)	): N	Conducted Under GEP (Y/N): N	
			scription:	
Objective:				
Conclusions:				
		CROP AND WEE	ED DESCRIPTION	
Weed Code Commo	on Name	Sc	ientific Name	
1. LAMAM henb	it			
<b>G 1 NII</b> GD	ONTON		Wandatas Gantana	
Crop 1: ALLCE			Variety: Century	
Planting Date: (			Lanting Method: seeded	
			Perennial Age:	
			nin Row: 3 inch Seed Bed: fl	
Soil Temperature	: 69 F	Soil Moistu	re: fair/irrigat Emergence Date:	Oct-27-05
		CTMB 33	ID DECICN	
Die Width Weit	6		ND DESIGN	1
Plot Width, Unit			Length, Unit: 25 FT Reps:	4
Site Type: Vi				
Tillage Type: co	nventiona	.1 8	Study Design: RANDOMIZED COMPLETE	BLOCK
Trial Initiation	. Comments	•		
		·•		
Previous	Crops		Previous Pesticides	Year

# **University of Georgia**

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

Texture: loamy sand

SOIL DESCRIPTION

% Sand: 86 % OM: 0.47 Texture: 1

% Silt: 10 pH: 6.0 Soil Name: \_

% Clay: 4 CEC: \_\_\_\_ Fert. Level: Fert. Level: \_\_\_\_

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: irrigated very often

Distance: \_\_\_\_ Unit: \_\_ Closest Weather Station: \_\_

### APPLICATION DESCRIPTION

	A
Application Date:	Nov-04-05
Time of Day:	9 am
Application Method:	see trt
Application Timing:	2 leaf
Applic. Placement:	see trt
Air Temp., Unit:	65 F
% Relative Humidity:	56
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	61 F
Soil Moisture:	moist
% Cloud Cover:	0

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE .
Stage Scale:	1 leaf
Height, Unit:	1.5 in

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	LAMAM .
Stage Scale:	PRE
Density, Unit:	0.25 ydsq

# **University of Georgia**

## APPLICATION EQUIPMENT

		A
Appl. Equipment:	backı	pack
Operating Pressure:	24	
Nozzle Type:	flat	fan
Nozzle Size:	11002	2
Nozzle Spacing, Unit:	18	in
Nozzles/Row:	1	
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:	wate	r
Spray Volume, Unit:	14.8	GPA
Spray pH:		
Propellant:	CO2	
Tank Mix (Y/N):	N	

Trt No	Treatment Application Comment