Transplant	c onion res	ponse to	Chateau	as a	spray or im	nprega	anate	d tre	atment	:.
Trial ID: Onion2-06 Location: VORF		-			ey Culpeppe ey Culpeppe					
Reps: 4 Plots:	6 by 25 feet Mix size: 1 lite			beam	cy cuipeppe	T				
Trt Treatment No. Name	Form Form Conc Type		Grow Stg	•••	Amt Product to Measure	Plot N 1	lo. By 2	Rep 3	4	
1 Non-treated						101	204	301	403	
2 Chateau	51 DF	2 OZ/A	2DATran	Α	1.012 g/mx	102	201	303	401	
3 Chateau IMPREGNATED	51 DF	2 OZ/A	2DATran	Α	1.012 g/mx	103	202	304	402	
4 Goal	4 F	16 OZ/A	2DATran	Α	8.446 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	
10.557	ml	Goal	4	F	

'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
Product amount calculations increased 25 % for overage adjustment.

Trial Comments

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

VISUAL INJURY:

- 1. At 10 DAT, no injury was visible.
- 2. By 29 DAT, injury was at least 22% greater with Chateau on the fertilizer when compared to a spray treatment.
- 3. By 47 DAT, injury was still 18% greater when applied on the fertilizer when compared to a spray.

CONCLUSION OF ONION1 and ONION2:

1. In seeded onion, Chateau injury was severe with both application methods but injury was noted more quickly with the spray which may have been a response to foliar and soil uptake.

2. In transplant onion, foliar injury was not noted thus injury was due of soil uptake. This data suggest that the Chateau on the fertlizer gets in the plant more quickly than the spray.

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.

AOV Means Table Page 2 of 5

University of Georgia

Transplant	onion re	sponse to	Chateau	as a spra	y or impr	eganated treatment.
Trial ID: Onion2-06 Location: VORF				Stanley C Stanley C		
Crop Code Rating Data Type Rating Unit Rating Date Assessed By Trt-Eval Interval		onion injury percent Dec-20-05 AM 10 DA-A	percent Jan-08-06 SC	injury percent Jan-08-06 AM	injury percent Jan-26-06 AM	
Trt Treatment No. Name	Rate Rate Unit	1	2	3	4	
1 Non-treated		0 a	0 b	0 b	0 b	
2 Chateau	2 OZ/A	0 a	3 b	4 b	28 a	
3 Chateau IMPREGNATED	2 OZ/A	0 a	28 a	26 a	45 a	
4 Goal	16 OZ/A	0 a	8 b	5 b	0 b	
LSD (P=.05) Standard Deviation CV Bartlett's X2		0.0 0.0 0.0 0.0	8.0 5.0 52.75 1.666	6.6 74.99 6.128	11.3 62.54 1.562	
P(Bartlett's X2)			0.435	0.047*	0.211	

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

Feb-21-07	(Onion2-06)
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Site Description Pa	ge 3 of 5
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	Transplant onion re	esponse to Chateau as a spray or impr	eganated treatment.
Trial ID: Onio	m2-06	Study Dir.: Stanley Culpepper	
Location: VORF		Investigator: Stanley Culpepper	
		TRIAL INFORMATION	
Study Director	• Stanley Culpepper		d Science
	Univ. of Georgia	IILIE: EXU. Week	a science
Postal Code:			
rostar code.	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed	d Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
	-	RIAL LOCATION	
City: V		Trial Status:	completed
State/Prov.: G		Trial Reliability:	-
Postal Code: _		Initiation Date:	Dec-08-05
	ISA	Planned Completion Date	
- E-Longitude of	LL Corner °:		:
		Mit: Angle y-axis to North °	
Directions:			
	COOL	PERATOR/LANDOWNER	
Cooperator:	COOF	-	
Org:			
Address 2:			
City:			
State/Prov:		_	
Postal Code: _			
Conducted Unde	er GLP (Y/N): N	Conducted Under GEP (Y/N): N	
		e Description:	
		• · · · · ·	
Objective:			
Conclusions:			

Scientific Name

Crop 1: ALLCE ONION Planting Date: Dec-08-05 Rate: 1 4.5 inch Dep	Variety: Century Planting Method: transplant th: 1 in Perennial Age:					
-	ng Within Row: 4.5 inch Seed Bed: flat					
Soil Temperature: 60 F Soil	Soil Temperature: 60 F Soil Moisture: fair/irrigat Emergence Date:					
	SITE AND DESIGN					
Plot Width, Unit: 6 FT	Plot Length, Unit: 25 FT Reps: 4					
Site Type: Research station						
Tillage Type: conventional	Study Design: RANDOMIZED COMPLETE BLOCK					

CROP AND WEED DESCRIPTION

Common Name

Trial Initiation Comments:

Weed Code

1. .

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

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

		SOIL DESCRIPTION				
% Sand: 86	% OM:	0.47	Texture: loamy sand			
% silt: 10	pH:	6.1	Soil Name:			
% Clay: 4	CEC:		Fert. Level:			

	ADDITIONAL M	IEASURED	ELEMEN	TS
Element		Quant	ity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: irrigated often Closest Weather Station: _____ Distance: ____ Unit: ___

	A
Application Date:	Dec-10-05
Time of Day:	9 am
Application Method:	see comme
Application Timing:	2DATRAN
Applic. Placement:	see comme
Air Temp., Unit:	50 F
% Relative Humidity:	64
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	54 F
Soil Moisture:	wet
% Cloud Cover:	0

APPLICATION DESCRIPTION

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE .
Stage Scale:	transplan
Height, Unit:	3.5 in

WEED STAGE AT EACH APPLICATION

	А
Weed 1 Code, Stage:	
Stage Scale:	
Density, Unit:	

	_
	А
Appl. Equipment:	backpack
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
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:	water
Spray Volume, Unit:	14.8 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	N

Trt No

Treatment Application Comment