

# University of Georgia

**Goal 2XL Injury on transplant onion.**

Trial ID: Onion9-06  
 Location: Collings, GA

Study Dir.: Reid Torrance  
 Investigator: Stanley Culpepper

Reps: 4                      Plots: 6 by 20 feet  
 Spray vol: 40 gal/ac      Mix size: 2 liters (min 1.6685)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	Goal 2XL	2	LB/GAL	EC	1.5	PT/A	transpla	A	9.374	ml/mx	101	203	304	403
2	Goal 2XL	2	LB/GAL	EC	3	PT/A	transpla	A	18.75	ml/mx	102	201	301	402
3	Non-treated Check										103	202	302	404
4	Goal 2XL	2	LB/GAL	EC	6	PT/A	transpla	A	37.5	ml/mx	104	204	303	401

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
82.023	ml	Goal 2XL	2	EC	

\* 'Per area' calculations based on spray volume= 40 gal/ac, mix size= 2 liters (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

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Crop Code		ALLCE	ALLCE
Rating Data Type		Injury	Injury
Rating Unit		%	%
Rating Date		Feb-09-06	Mar-04-06
Assessed By		AWM	AWM
Trt-Eval Interval		14 DA-A	37 DA-A
Trt No.	Treatment Name	Rate	Unit
		1	2
1	Goal 2XL	1.5	PT/A
		15	c
2	Goal 2XL	3	PT/A
		20	b
3	Non-treated Check		
		0	d
4	Goal 2XL	6	PT/A
		33	a
	LSD (P=.05)	4.4	4.3
	Standard Deviation	2.8	2.7
	CV	16.38	47.1
	Bartlett's X2	0.838	3.231
	P(Bartlett's X2)	0.658	0.072

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

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**GENERAL TRIAL INFORMATION**

**Study Director:** Reid Torrance **Title:** Pub Serv Rep - CES  
**Affiliation:** University of Georgia  
**Postal Code:** \_\_\_\_\_  
**Investigator:** Stanley Culpepper **Title:** Ext. Weed Science  
**Affiliation:** University of Georgia  
**Postal Code:** 31794

**TRIAL LOCATION**

**City:** Collins **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** good  
**Postal Code:** \_\_\_\_\_ **Initiation Date:** Jan-26-06  
**Country:** USA **Planned Completion Date:** \_\_\_\_\_  
**E-Longitude of LL Corner °:** \_\_\_\_\_ **N-Latitude of LL Corner °:** \_\_\_\_\_  
**Altitude of LL Corner:** \_\_\_\_\_ **Unit:** \_\_\_\_\_ **Angle y-axis to North °:** \_\_\_\_\_  
**Directions:**

**COOPERATOR/LANDOWNER**

**Cooperator:** \_\_\_\_\_ **Country:** \_\_\_\_\_  
**Org:** \_\_\_\_\_ **Phone No:** \_\_\_\_\_  
**Address 1:** \_\_\_\_\_ **Fax No:** \_\_\_\_\_  
**Address 2:** \_\_\_\_\_  
**City:** \_\_\_\_\_  
**State/Prov:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N  
**Guidelines:** \_\_\_\_\_ **Guideline Description:** \_\_\_\_\_

**Objective:** Determine transplant onion tolerance to elevated rates of Goal

**Conclusions:** 1) Onion injury, 2 weeks after application, increased from 15 to 32% as the Goal 2XL rate increased from 1.5 to 6 pt/A.  
 2) Goal 2XL at 1.5, 3, and 6 pt/A caused 0, 4, and 19% injury 5 weeks after application.

**CROP AND WEED DESCRIPTION**

Weed	Code	Common Name	Scientific Name
1.			

**Crop 1:** ALLCE ONION, DRY BULB **Variety:** unknown  
**Planting Date:** \_\_\_\_\_ **Planting Method:** transplant  
**Rate:** \_\_\_\_\_ **Depth:** \_\_\_\_\_ **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 10 inch **Spacing Within Row:** 3 inch **Seed Bed:** 6 foot bed  
**Soil Temperature:** \_\_\_\_\_ **Soil Moisture:** \_\_\_\_\_ **Emergence Date:** \_\_\_\_\_

**SITE AND DESIGN**

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 20 FT **Reps:** 4  
**Site Type:** On-farm  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

**Trial Initiation Comments:**

	Previous Crops	Previous Pesticides	Year
1.			

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## MAINTENANCE

**Field Prep./Maintenance:** On-farm field site, planting information and soil information was unknown at time of trial initiation.

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

### SOIL DESCRIPTION

% Sand: \_\_\_\_\_ % OM: \_\_\_\_\_ Texture: Loamy sand  
 % Silt: \_\_\_\_\_ pH: \_\_\_\_\_ Soil Name: \_\_\_\_\_  
 % Clay: \_\_\_\_\_ CEC: \_\_\_\_\_ Fert. Level: \_\_\_\_\_

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: Irrigated

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

### APPLICATION DESCRIPTION

	A
Application Date:	Jan-26-06
Time of Day:	11:00 am
Application Method:	Broadcast
Application Timing:	4 leaf
Applic. Placement:	4 inches
Air Temp., Unit:	53 F
% Relative Humidity:	24
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	59 F
Soil Moisture:	Dry
% Cloud Cover:	0

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	ALLCE
Stage Scale:	4 leaf
Height, Unit:	

### WEED STAGE AT EACH APPLICATION

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

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## APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 Spray
<b>Operating Pressure:</b>	23 psi
<b>Nozzle Type:</b>	TeeJet
<b>Nozzle Size:</b>	11002XR
<b>Nozzle Spacing, Unit:</b>	18 in
<b>Nozzles/Row:</b>	2
<b>Band Width, Unit:</b>	6 ft
<b>Boom Length, Unit:</b>	54 in
<b>Boom Height, Unit:</b>	15 in
<b>Ground Speed, Unit:</b>	3 mph
<b>Incorporation Equip.:</b>	
<b>Hours to Incorp.:</b>	
<b>Incorp. Depth, Unit:</b>	
<b>Carrier:</b>	water
<b>Spray Volume, Unit:</b>	14.8 gpa
<b>Spray pH:</b>	
<b>Propellant:</b>	CO2
<b>Tank Mix (Y/N):</b>	N

Trt No	Treatment Application Comment