

University of Georgia

Yellow squash tolerance to Goal applied prior to planting

Trial ID: Veg31-08

Study Dir.: Stanley Culpepper

Location: Chula

Investigator: Stanley Culpepper

Reps: 4

Plots: 10 by 250 feet

Spray vol: 14.8 gal/ac

Mix size: 5 gallons (min 3.3976)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Grow Unit	Appl Stg	Amt Product to Measure	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
1	Goal	4		F	1	PT/A	preplant A	159.8 ml/mx	101	202	301	402
2	Non-treated								102	201	302	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
199.799	ml	Goal	4	F	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 5 gallons (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine crop response to Goal applied topically over mulch before planting the second crop.

Squash Response:

1. One rainfall event and 10 days occurred between application and transplanting squash.
2. No injury was detected throughout the study, regardless of whether plants ended up in "old" holes or new holes.

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Crop Code	CUUPE	CUUPE	CUUPE
Rating Data Type	injury	injury	injury
Rating Unit	percent	percent	percent
Rating Date	Aug-07-08	Aug-20-08	Sep-05-08
Trt-Eval Interval	15 DA-A	28 DA-A	44 DA-A
Trt No.	Treatment Name	Rate	Unit
1	2	3	
1	Goal	1	PT/A
		0	a
2	Non-treated		
		0	a
		0	a
		0	a
		0.0	0.0
		0.0	0.0
		0.0	0.0
		0.0	0.0
		.	.
		.	.
		.	.

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

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GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper
Affiliation: Univ. of Georgia
Postal Code: 31794

Title: Ext. Weed Science

Investigator: Stanley Culpepper
Affiliation: Univ. of Georgia
Postal Code: 31794

Title: Ext. Weed Science

TRIAL LOCATION

City: Chula
State/Prov.: GA
Postal Code: 31794
Country: USA

Trial Status: completed
Trial Reliability: good
Initiation Date: Jul-23-08
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: _____
Org: _____
Address 1: _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Country: _____
Phone No: _____
Fax No: _____

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			

Crop 1: CUUPE squash

Variety: Enterprise

Planting Date: Aug-04-08

Planting Method: transplant

Rate: 1 foot

Depth: 2 IN

Perennial Age: _____

Row Spacing: 6 foot

Spacing Within Row: 12 in

Seed Bed: raised

Soil Temperature: 94 F

Soil Moisture: drip

Emergence Date: _____

SITE AND DESIGN

Plot Width, Unit: 10 FT

Plot Length, Unit: 250 FT

Reps: 4

Site Type: Lewis Taylor Farms

Tillage Type: Plasticulture

Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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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:	Jul-23-08
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	preplant
Applic. Placement:	on mulch
Air Temp., Unit:	80 F
% Relative Humidity:	60
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	78 F
Soil Moisture:	moist
% Cloud Cover:	25

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUUPE
Stage Scale:	preplant
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

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

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	tractor
Operating Pressure:	32
Nozzle Type:	flat fan
Nozzle Size:	8002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	4
Band Width, Unit:	
Boom Length, Unit:	10 feet
Boom Height, Unit:	20 inch
Ground Speed, Unit:	4 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	14.8 GPS
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment