

University of Georgia

Tomato response to V-10139 and V-10137.

Trial ID: Veg20-05(tom) Study Dir.: Stanley Culpepper
 Location: Lewis Taylor Farms Investigator: Stanley Culpepper

Reps: 4 Plots: 24 by 300 feet
 Spray vol: 14.8 gal/ac Mix size: 3 gallons (min 9.7851)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	V-10139	L		10 oz/a		POST	A	59.95 ml/mx	101	202	301	402
	NIS	L		0.25 % v/v		POST	A	28.39 ml/mx				
2	V-10137	L		16 oz/a		POST	A	95.91 ml/mx	102	201	302	401
	Select	L		8 oz/a		POST	A	47.96 ml/mx	103	203	303	403
3	COC	L		1 % v/v		POST	A	113.6 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
74.933	ml	V-10139 L	
35.484	ml	NIS L	
119.893	ml	V-10137 L	
59.946	ml	Select L	
141.938	ml	COC L	

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 3 gallons (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 3 gallons.

Trial Comments

OBJECTIVE: Compare tomato and grass response to clethodim mixtures.

VISUAL CROP RESPONSE:

1. Although extremely hot at time of application, injury was similar and insignificant among all treatments.

PANICUM RESPONSE:

1. Grass control was good and similar among all treatments.

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Weed Code	LYPES	LYPES	LYPES	PANTE	PANTE			
Crop Code	injury	injury	injury	control	control			
Rating Data Type	percent	percent	percent	percent	percent			
Rating Unit	percent	percent	percent	percent	percent			
Rating Date	Sep-03-05	Sep-18-05	Oct-28-05	Sep-18-05	Oct-28-05			
Trt-Eval Interval	2 DA-A	17 DA-A	57 DA-A	17 DA-A	57 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	V-10139 NIS	10 oz/a 0.25 % v/v		2	0	0	81	89
2	V-10137	16 oz/a		2	0	0	80	90
3	Select COC	8 oz/a 1 % v/v		2	0	0	81	90
LSD (P=.05)				0.8	0.0	0.0	5.7	7.5
Standard Deviation				0.4	0.0	0.0	3.3	4.3
CV				23.01	0.0	0.0	4.04	4.86

Means followed by same letter do not significantly differ (P=.05, LSD)

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GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794
Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31794 **Initiation Date:** Sep-01-05
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: Lewis Taylor Farms **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:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	PANTE	Texas panicum	

Crop 1: LYPES tomato **Variety:** STX 2203
Planting Date: Jul-14-05 **Planting Method:** transplant
Rate: 1 20 in **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 5 feet **Spacing Within Row:** 20 inch **Seed Bed:** plasticulture
Soil Temperature: _____ **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 24 FT **Plot Length, Unit:** 300 FT **Reps:** 4
Site Type: On farm
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: 0. Texture: sand
 % Silt: _____ pH: 0. Soil Name: Tifton sandy loam
 % Clay: _____ CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A
Application Date:	Sep-01-05
Time of Day:	4 pm
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	93 F
% Relative Humidity:	46
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	97 F
Soil Moisture:	drip
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	LYPES POST
Stage Scale:	.
Height, Unit:	17 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	PANTE POST
Stage Scale:	12-20 in
Density, Unit:	0.25 ydsq

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	4
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