

# University of Georgia

## Tomato response to V-10139, V-10137, and Select.

Trial ID: Veg19-05(tom) Study Dir.: Stanley Culpepper  
 Location: Coggins Farm 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	Grow Unit	Appl Stg	Code	Amt 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: Evaluate tomato tolerance to applications of several clethodim products.

VISUAL TOMATO RESPONSE:

1. Russ Hamlin from Coggins Farm evaluated crop response on 8-24-05.
2. Select + COC was more injurious to tomato than was 10139 or 10137 at 5 and 12 DAT.

TEXAS PANICUM CONTROL:

1. Complete grass control was noted by 12 DAT.

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Weed Code	LYPES	LYPES	LYPES	PANTE	PANTE			
Crop Code	LYPES	LYPES	LYPES	PANTE	PANTE			
Rating Data Type	injury	injury	injury	control	control			
Rating Unit	percent	percent	percent	percent	percent			
Rating Date	Aug-24-05	Aug-31-05	Jun-14-05	Aug-31-05	Jun-14-05			
Trt-Eval Interval	5 DA-A	12 DA-A	-66 DA-A	12 DA-A	-66 DA-A			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5
1	V-10139 NIS	10 oz/a 0.25 % v/v		3	1	0	100	100
2	V-10137	16 oz/a		1	1	0	100	100
3	Select COC	8 oz/a 1 % v/v		14	8	0	100	100
LSD (P=.05)				3.2	2.5	0.0	0.0	0.0
Standard Deviation				1.9	1.4	0.0	0.0	0.0
CV				31.94	43.3	0.0	0.0	0.0

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:** Echols County **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** excellent  
**Postal Code:** . **Initiation Date:** Aug-19-05  
**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:** Russ Hamilin/Coggins Farm **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:** Quincy  
**Planting Date:** Jul-18-05 **Planting Method:** transplant  
**Rate:** 1 18 inch **Depth:** 1 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 5 ft **Spacing Within Row:** 18 inch **Seed Bed:** plasticulture  
**Soil Temperature:** \_\_\_\_\_ **Soil Moisture:** drip irrigat **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: 0.      % OM: 0.      Texture: sand  
 % Silt: 0.      pH: 0.      Soil Name: \_\_\_\_\_  
 % Clay: 0.      CEC: 0.      Fert. Level: \_\_\_\_\_

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

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

### APPLICATION DESCRIPTION

	A
Application Date:	Aug-19-05
Time of Day:	5:45 pm
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	92 F
% Relative Humidity:	57
Wind Velocity, Unit:	0 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	96 F
Soil Moisture:	drip
% Cloud Cover:	100

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	LYPES POST
Stage Scale:	7-11 leaf
Height, Unit:	9 inch

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	PANTE POST
Stage Scale:	1-4 leaf
Density, Unit:	0.5 ydsq

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## APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	backpack
<b>Operating Pressure:</b>	23
<b>Nozzle Type:</b>	flat fan
<b>Nozzle Size:</b>	11002
<b>Nozzle Spacing, Unit:</b>	18 inch
<b>Nozzles/Row:</b>	
<b>Band Width, Unit:</b>	
<b>Boom Length, Unit:</b>	
<b>Boom Height, Unit:</b>	15 inch
<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>	Y

Trt No	Treatment Application Comment