

University of Georgia

Tomato response to various clethodim formulations.

Trial ID: Veg9-03
Location: ponder farm

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

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

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: Ga **Trial Reliability:** excellent
Postal Code: 31794 **Initiation Date:** Mar-20-03
Country: U.S.A.

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	.		

Crop 1: LYPES TOMATO **Variety:** Amelia
Planting Date: Mar-20-03 **Planting Method:** transplanted
Rate: 1 18 in **Depth:** 1.5 "
Row Spacing: 6 foot **Spacing Within Row:** 18 inch **Seed Bed:** plastic
Soil Temperature: 79 F **Soil Moisture:** drip

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

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.1 **Texture:** sand
% Silt: 2 **pH:** 5.9 **Soil Name:** Tifton sandy loam
% Clay: 4

Overall Moisture Conditions: drip

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr-06-03	May-09-03
Time of Day:	11:40am	11:00am
Application Method:	Broadcast	Broadcast
Application Timing:	2WATr	fruit
Applic. Placement:	overtop	overtop
Air Temp., Unit:	76 F	86 F
% Relative Humidity:	61	45
Wind Velocity, Unit:	2 mph	2 mph
Dew Presence (Y/N):	N	N
Soil Temp., Unit:	76 F	82 F
Soil Moisture:	moist	perfect
% Cloud Cover:	25	50

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	LYPES 2WATr	LYPES fruiting
Stage Scale:	V6	fruit 1"d
Height, Unit:	6 inch	24 inch

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WEED STAGE AT EACH APPLICATION

	A	B
	.	
Stage Scale:	.	
Density, Unit:	.	.

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	22	22
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	4	4
Boom Length, Unit:	4.5 feet	4.5 feet
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

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Crop Code		LYPES injury percent	LYPES injury percent	LYPES injury percent	LYPES injury percent	LYPES injury percent
Rating Data Type		Apr-10-03	Apr-21-03	May-11-03	May-16-03	May-26-03
Rating Unit		67 DA-A	67 DA-A			
Rating Date						
Trt-Eval Interval						
Trt No.	Treatment	1	2	3	4	5
	Rate Unit					
1	Non-treated	0.0	0.0	0.0	0.0	0.0
2	Select (high flash) COC	0.0	0.0	0.0	0.0	0.0
	8 oz/a 1 % v/v					
	Select (high flash) COC					
	8 oz/a 1 % v/v					
3	V-10177 COC	0.0	0.0	1.5	0.0	0.0
	8 oz/a 1 % v/v					
	V-10177 COC					
	8 oz/a 1 % v/v					
4	Poast COC	0.0	0.0	0.0	0.0	0.0
	1 pt/a 1 % v/v					
	Poast COC					
	1 pt/a 1 % v/v					
5	Select (high flash) COC	0.0	0.0	0.0	0.0	0.0
	16 oz/a 1 % v/v					
	Select (high flash) COC					
	16 oz/a 1 % v/v					
6	V-10177 COC	0.0	0.0	0.0	0.0	0.0
	16 oz/a 1 % v/v					
	V-10177 COC					
	16 oz/a 1 % v/v					
	LSD (P=.05)	0.00	0.00	1.85	0.00	0.00
	Standard Deviation	0.00	0.00	1.22	0.00	0.00
	CV	0.0	0.0	489.9	0.0	0.0
	Bartlett's X2	0.0	0.0	0.0	0.0	0.0
	P(Bartlett's X2)

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

Trial Comments

GENERAL COMMENTS: Telone C35 applied on Feb 3. Plastic layed on Feb. 13. Tomato transplanted on March 20.

OBJECTIVE: Evaluate phyto of clethodim plus COC to tomato.

RESULTS:

1) No treatment caused visual injury greater than 2% at any time.

CONCLUSION:

- 1) It was cooler than normal for the spring crop. Trial needs to be conducted when conditions exceed 90 degrees F.
- 2) Obviously no issues with clethodim plus COC on tomato when applied under favorable application conditions.