

University of Georgia

Tomato response to Dual Magnum applied topically.

Trial ID: Veg28-05

Study Dir.: Stanley Culpepper

Location: Ponder

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .77168)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Plot No. By Rep			
									1	2	3	4
1	Dual Magnum	7.62 L	L	1 pt/a	POT	A	8.445 ml/mx	101	202	301	402	
2	Dual Magnum	7.62 L	L	2 pt/a	POT	A	16.89 ml/mx	102	201	302	401	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
31.669	ml	Dual Magnum 7.62 L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine tomato response to Dual Magnum applied topically.

VISUAL RESPONSE:

1. Visual injury was not acceptable.
2. Injury appeared to be ajuvant burn.
3. Injury ranged from 18 to 26% at 6 d after treatment.
4. Tomato fully recovered but again, this injury is not acceptable.

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Crop Code		LYPES	LYPES
Rating Data Type		injury	injury
Rating Unit		percent	percent
Rating Date		Apr-05-05	May-16-05
Trt-Eval Interval		6 DA-A	47 DA-A
Trt Treatment	Rate		
No. Name	Rate Unit	1	2
1 Dual Magnum	1 pt/a	18	0
2 Dual Magnum	2 pt/a	26	0
LSD (P=.05)		3.8	0.0
Standard Deviation		1.7	0.0
CV		7.55	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 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: TyTy State/Prov.: GA Postal Code: 31794 Country: USA	Trial Status: completed Trial Reliability: excellent Initiation Date: Jul-14-05 Planned Completion Date: _____ E-Longitude of LL Corner °: _____ N-Latitude of LL Corner °: _____ Altitude of LL Corner: _____ Unit: _____ Angle y-axis to North °: _____ Directions:
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COOPERATOR/LANDOWNER

Cooperator: _____ Org: _____ Address 1: _____ Address 2: _____ City: _____ State/Prov: _____ Postal Code: _____	Country: _____ Phone No: _____ Fax No: _____
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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.	none	weed free	

Crop 1: LYPES TOMATO Planting Date: Mar-30-05 Rate: 1 18 inch Row Spacing: 6 feet Soil Temperature: 76 F	Variety: Amelia Planting Method: transplant Depth: 1 in Perennial Age: _____ Spacing Within Row: 18 inch Seed Bed: plasticulture Soil Moisture: drip Emergence Date: _____
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SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: research station
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: 94 % OM: 1.6 Texture: loamy sand
 % Silt: 2 pH: 6.3 Soil Name: _____
 % Clay: 4 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:	Mar-30-05
Time of Day:	6 pm
Application Method:	broadcast
Application Timing:	POT
Applic. Placement:	overtop
Air Temp., Unit:	74 F
% Relative Humidity:	38
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	84 F
Soil Moisture:	moist
% Cloud Cover:	60

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	LYPES POT
Stage Scale:	5-6 leaf
Height, Unit:	7 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	none POT
Stage Scale:	weed free
Density, Unit:	0 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:	
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