

# University of Georgia

**Watermelon response to Chateau applied over mulch prior to transplanting.**

Trial ID: Veg57-06  
Location: Ponder farm

Study Dir.: Stanley Culpepper  
Investigator: Stanley Culpepper

Reps: 3                      Plots: 6 by 30 feet  
Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .69451)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	2	By Rep 3
1	None										101	202	303
2	Chateau	51		WDG	1.5	OZ/A	overmulc	A	0.759 g/mx		102	203	301
3	Chateau Crop Oil	51		WDG L	1.5	OZ/A % V/V	overmulc	A	0.759 g/mx 9.999 ml/mx		103	201	302

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
1.898	g	Chateau	51	WDG	
12.499	ml	Crop Oil		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.
- \* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

### Trial Comments

OBJECTIVE: Determine if crop oil impacted watermelon injury when applying Chateau over mulch prior to transplanting.

#### CROP RESPONSE:

1. Crop Oil mixed with Chateau doubled injury from Chateau splashing from mulch.
2. Applying Chateau plus crop oil over mulch prior to transplant reduced vine lengths 26% compared the non-treated at 44 DAP.

#### GENERAL COMMENTS:

1. Treatments were applied and allowed to dry and then the crop was transplanted.
2. Rainfall did not occur to several weeks after planting thus ratings were delayed until the first signs of significant injury.

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Weed Code	CITLA	plant 1 CITLA	plant 2 CITLA	plant 3 CITLA	Avg3plan CITLA				
Crop Code	injury	runner leng	runner leng	runner leng	runner leng				
Rating Data Type	%	cm	cm	cm	cm				
Rating Unit									
Rating Date	May-05-06	May-12-06	May-12-06	May-12-06	May-12-06				
Trt-Eval Interval	37 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A				
ARM Action Codes					T1				
Trt No.	Treatment Name	Rate	Unit						
				1	2				
				3	4				
				5					
1	None		c	0	155	122	165	147	a
2	Chateau	1.5	OZ/A	20	142	129	122	131	b ab
3	Chateau Crop Oil	1.5	OZ/A 1 % V/V	40	106	121	101	109	a b
LSD (P=.05)		0.0			41.3	51.7	50.7	25.5	
Standard Deviation		0.0			18.2	22.8	22.4	11.3	
CV		0.0			13.56	18.41	17.25	8.72	
Bartlett's X2		0.0			0.234	1.3	1.163	2.86	
P(Bartlett's X2)		.			0.89	0.522	0.559	0.239	

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

Column 5: T1 = @AVG([2],[4])



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No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

**SOIL DESCRIPTION**

% Sand: 94      % OM: 6.4      Texture: Sand  
 % Silt: 2      pH: 1.3      Soil Name: Tifton sandy loam  
 % 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: drip irrigation

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

**APPLICATION DESCRIPTION**

	A
Application Date:	Mar-29-06
Time of Day:	11:00am
Application Method:	broadcast
Application Timing:	overmulch
Applic. Placement:	over mulc
Air Temp., Unit:	84 F
% Relative Humidity:	39
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	74 F
Soil Moisture:	drip
% Cloud Cover:	0

**CROP STAGE AT EACH APPLICATION**

	A
Crop 1 Code, Stage:	CITLA overmulch
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

	<b>A</b>
<b>Appl. Equipment:</b>	backpack
<b>Operating Pressure:</b>	24
<b>Nozzle Type:</b>	flat fan
<b>Nozzle Size:</b>	11002
<b>Nozzle Spacing, Unit:</b>	18 in
<b>Nozzles/Row:</b>	2
<b>Band Width, Unit:</b>	4.5 ft
<b>Boom Length, Unit:</b>	15 in
<b>Boom Height, Unit:</b>	
<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