

University of Georgia

Cucumber response to clethodim formulations.

Trial ID: Veg30-11
Location: Ponder Farm

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Use 1.5 liters(s) per treatment mixture to spray 14.8 gal/ac
Plots: 6 by 25 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No.	By Rep	1	2	3	4
1	No herbicide								101	210	312	413		
2	HM0714 A	0.97	L	12	oz/a	POST	A	9.501 ml/mx	102	204	313	408		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
3	HM0714 A	0.97	L	12	oz/a	POST	A	9.501 ml/mx	103	213	309	412		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
	HM9110		L	0.25	% v/v	POST	A	3.75 ml/mx						
4	HM0714 A	0.97	L	10	oz/a	POST	A	7.917 ml/mx	104	201	314	409		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
5	HM0714 A	0.97	L	10	oz/a	POST	A	7.917 ml/mx	105	206	307	401		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
	HM9110		L	0.25	% v/v	POST	A	3.75 ml/mx						
6	Select Max	0.97	L	12	oz/a	POST	A	9.501 ml/mx	106	214	302	411		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
7	Select Max	0.97	L	12	oz/a	POST	A	9.501 ml/mx	107	202	305	402		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
	HM9110		L	0.25	% v/v	POST	A	3.75 ml/mx						
8	Select	2	L	6	oz/a	POST	A	4.75 ml/mx	108	203	311	404		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
9	Select	2	L	6	oz/a	POST	A	4.75 ml/mx	109	211	304	406		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
	HM9110		L	0.25	% v/v	POST	A	3.75 ml/mx						
10	Select	2	L	12	oz/a	POST	A	9.501 ml/mx	110	212	306	410		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
11	Select	2	L	12	oz/a	POST	A	9.501 ml/mx	111	205	308	405		
	HM9001		L	1	qt/a	POST	A	25.34 ml/mx						
	HM9110		L	0.25	% v/v	POST	A	3.75 ml/mx						
12	Select Max	0.97	L	12	oz/a	POST	A	9.501 ml/mx	112	209	310	403		
13	HM0714 A	0.97	L	12	oz/a	POST	A	9.501 ml/mx	113	207	303	407		
14	Select	2	L	6	oz/a	POST	A	4.75 ml/mx	114	208	301	414		
	COC		L	1	qt/a	POST	A	25.34 ml/mx						

Sort Order: Treatment

Trial Comments

OBJECTIVE: Compare clethodim formulations/adjuvants for cucumber response.

VISUAL INJURY:

1. Conditions were selected where significant crop injury has occurred in the past. However, no cucumber injury was detected with any application.

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Crop Code	CUMSA	CUMSA	CUMSA	CUMSA
Rating Data Type	INJURY	INJURY	INJURY	INJURY
Rating Unit	%	%	%	%
Rating Date	5/12/2011	5/14/2011	5/16/2011	5/25/2011
Trt-Eval Interval	1 DA-A	3 DA-A	5 DA-A	14 DA-A

Trt No.	Treatment Name	Rate	Unit	1	2	3	4	
1	No herbicide			0.0	a 0.0	a 0.0	a 0.0	a
2	HM0714 A	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
3	HM0714 A	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
	HM9110	0.25	% v/v					
4	HM0714 A	10	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
5	HM0714 A	10	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
	HM9110	0.25	% v/v					
6	Select Max	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
7	Select Max	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
	HM9110	0.25	% v/v					
8	Select	6	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
9	Select	6	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
	HM9110	0.25	% v/v					
10	Select	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
11	Select	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	HM9001	1	qt/a					
	HM9110	0.25	% v/v					
12	Select Max	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
13	HM0714 A	12	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
14	Select	6	oz/a	0.0	a 0.0	a 0.0	a 0.0	a
	COC	1	qt/a					
LSD (P=.05)				0.00	0.00	0.00	0.00	
Standard Deviation				0.00	0.00	0.00	0.00	
CV				0.0	0.0	0.0	0.0	
Bartlett's X2				0.0	0.0	0.0	0.0	
P(Bartlett's X2)				.	.	.	.	
Replicate F				0.000	0.000	0.000	0.000	
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	
Treatment F				0.000	0.000	0.000	0.000	
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial ID: Veg30-11 Study Dir.: Stanley Culpepper
 Location: Ponder Farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31795
Investigator: Stanley Culpepper
Affiliation: University of Georgia
Postal Code: 31795

TRIAL LOCATION

City: Scooterville **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31795 **Initiation Date:** 4/25/2011
Country: USA

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Crop 1: CUMSA CUCUMBER **Variety:** Thunder
Planting Date: 4/25/2011 **Planting Method:** transplant
Rate: 1 foot **Depth:** 2 in
Row Spacing: 6 foot **Spacing Within Row:** 12 inch **Seed Bed:** flat
Soil Temperature: 75 F **Soil Moisture:** drip

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: LTF Farms
Tillage Type: Raised bed plastic **Study Design:** RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% Sand: 85 **% OM:** 1.7 **Texture:** loamy sand
% Silt: 5 **pH:** 6.5
% Clay: 10

Overall Moisture Conditions: drip irrigation

Closest Weather Station: Ponder Farm **Distance:** 7 **Unit:** mi

APPLICATION DESCRIPTION

A
Application Date: 5/11/2011
Time of Day: 2:00 PM
Application Method: BROADCAST
Application Timing: POST
Applic. Placement: OVERTOP
Air Temp., Unit: 96 F
% Relative Humidity: 51
Wind Velocity, Unit: 1 MPH
Dew Presence (Y/N): Y
Soil Temp., Unit: 105 F
Soil Moisture: MOIST
% Cloud Cover: 0

CROP STAGE AT EACH APPLICATION

A
Crop 1 Code, Stage: CUMSA POST
Stage Scale: 6 leaf
Height, Unit: 10 inch

APPLICATION EQUIPMENT

A
Appl. Equipment: BACKPACK
Operating Pressure: 26 PSI
Nozzle Type: FLAT FAN
Nozzle Size: 11002
Nozzle Spacing, Unit: 18 IN
Nozzles/Row: 2
Boom Height, Unit: 15 IN
Ground Speed, Unit: 3 MPH
Carrier: H2O
Spray Volume, Unit: 15 GPA
Propellant: CO2
Tank Mix (Y/N): Y