Cucumber and crabgrass response to clethodim products.

Trial ID: Veg70-06 Study Dir.: Stanley Culpepper Location: TVP Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

	,												
Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By	Rep	
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4
1	Untreated									101	204	305	401
2	V-10137	1		EC	9	OZ/A	POST	Α	4.751 ml/mx	102	201	302	406
	NIS			L	0.25	% V/V	POST	Α	2.5 ml/mx				
3	V-10181	1		EC	9	OZ/A	POST	Α	4.751 ml/mx	103	202	301	405
	NIS			L	0.25	% V/V	POST	Α	2.5 ml/mx				
4	V-10180	1.6		EC	6	OZ/A	POST	Α	3.167 ml/mx	104	206	304	403
	NIS			L	0.25	% V/V	POST	Α	2.5 ml/mx				
5	V-10139	1.6		EC	6	OZ/A	POST	Α	3.167 ml/mx	105	203	306	404
	NIS			L	0.25	% V/V	POST	Α	2.5 ml/mx				
6	Select	2		L	9	OZ/A	POST	Α	4.751 ml/mx	106	205	303	402
	COC			L	1	% V/V	POST	Α	9.999 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
5.939	ml	V-10137	1	EC	
12.499	ml	NIS		L	
5.939	ml	V-10181	1	EC	
3.959	ml	V-10180	1.6	EC	
3.959	ml	V-10139	1.6	EC	
5.939	ml	Select	2	L	
12.499	ml	COC		L	

^{&#}x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

Trial Comments

OBJECTIVE: Determine impact of clethodim formulations on grass and cucumber.

VISUAL CUCUMBER INJURY:

- 1. Conditions were extremely hot; however, Select with crop oil caused at most 7% injury.
- 2. With the crop oil treatment having little injury, surfactants mixed with other clethodim formulations were not able to "safen" any application.

CRABGRASS RESPONSE:

1. All treatments provided excellent control by 9 DAT, likely because of excellent conditions and small grass size.

^{*} Product amount calculations increased 25 % for overage adjustment.

^{* &#}x27;Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Cucumber and crabgrass response to clethodim products.

Trial ID: Veg70-06 Study Dir.: Stanley Culpepper
Location: TVP Investigator: Stanley Culpepper

Wee	ed Code					DIGSA
Cro	p Code			CUMSA	CUMSA	
Rati	ng Data Typ	е		injury	injury	control
Rati	ing Unit			%	%	%
	ng Date			Aug-29-06	Sep-04-06	Sep-04-06
	essed By			SC	SC	SC
Trt-E	Eval Interval			3 DA-A	9 DA-A	9 DA-A
Trt	Treatment		Rate			
No.	Name	Rate	Unit	1	2	3
1	Untreated			0 b	0 b	0 b
2	V-10137	9	OZ/A	6 a	7 a	99 a
	NIS	0.25	% V/V			
3	V-10181	9	OZ/A	4 a	7 a	99 a
	NIS	0.25	% V/V			
4	V-10180	6	OZ/A	6 a	7 a	99 a
	NIS	0.25	% V/V			
5	V-10139	6	OZ/A	4 a	7 a	99 a
	NIS	0.25	% V/V			
6	Select	9	OZ/A	4 a	7 a	98 a
	COC	1	% V/V			
LSD	(P=.05)			3.2	0.9	1.7
	ndard Devia	tion		2.1	0.6	1.1
CV				54.3	11.17	1.34
Bart	lett's X2			3.308	0.139	0.139
P(Ba	artlett's X2)			0.347	0.998	0.998

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

Feb-21-07 (Veg70-06) Site Description Page 3 of 5

University of Georgia

					_
	Cue	cumber and crabg	rass response to clethodim p	products.	
Trial ID: Veg70-0	16	Stud	dy Dir.: Stanley Culpepper		
Location: TVP			tigator: Stanley Culpepper		
		ENERAL TRIAL IN			-
Study Director: S	_		Title: Ext. Weed	Science	
Affiliation:	=		TICIC. EAC. WCCC	belefiee	
Postal Code:	-	or deorgia			
	, , , , ,				
Investigator:	Stanley Cul	lpepper	Title: Ext. Weed	Science	
Affiliation: I					
	31794				
		TRIAL LOCA	TION		
City: Tift	con		Trial Status:	Completed	
State/Prov.: GA			Trial Reliability:	excellent	
Postal Code: 3179	94		Initiation Date:	_	
Country: USA			Planned Completion Date:		
			N-Latitude of LL Corner °:		
Altitude of LL Co	orner:	Unit:	$_$ Angle y-axis to North $^{\circ}$:		
Directions:					
		COOPERATOR/LAI			
_			-		
Org:			Phone No:		
3 3 3 0					
City: State/Prov:					
Postal Code:					
roscar code					
Conducted Under (GLP (Y/N):	N Con	nducted Under GEP (Y/N): N		
			tion:		
Objective:					
Conclusions:					
	C	ROP AND WEED DES	CRIPTION		
Weed Code Comm	non Name	Sci	entific Name		
1. DIGSA large	crabgrass				
Crop 1: CUMSA	CUCUMBER		Variety: Thunder		
_		Plantir	ng Method: transplant		
Rate: 1 ft			Perennial Age:		
			ow: 12 inch Seed Bed: ra		
			drip Emergence Date:		
		SITE AND DES	SIGN		
Plot Width, Unit:	6 FT	Plot Length	n, Unit: 25 FT Reps:	4	
Site Type: Tif			-		
Tillage Type: con	_		Design: RANDOMIZED COMPLETE	BLOCK	
		•	-		
Trial Initiation	Comments:				
Previous (Crops	Pr	evious Pesticides	Year	

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

SOIL DESCRIPTION

Texture:

Soil Name: Tifton sandy loam

% Clay: 2 CEC: ____ Fert. Level: _

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: moist

_____ Distance: ____ Unit: __ Closest Weather Station:

APPLICATION DESCRIPTION

	A
Application Date:	Aug-26-06
Time of Day:	2:00pm
Application Method:	broadcast
Application Timing:	POST
Applic. Placement:	overtop
Air Temp., Unit:	89 F
% Relative Humidity:	46
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	94 F
Soil Moisture:	
% Cloud Cover:	60

CROP STAGE AT EACH APPLICATION

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

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DIGSA POST
Stage Scale:	up to 5in
Density, Unit:	5 ydsq

APPLICATION EQUIPMENT

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