

# University of Georgia

Row middle applications of Aim in cucumber.

Trial ID: Veg62-06  
Location: Ponder farm

Study Dir.: Stanley Culpepper  
Investigator: Stanley Culpepper

Reps: 4                      Plots: 6 by 30 feet  
Spray vol: 14.8 gal/ac      Mix size: 1 liters (min .92602)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product Measure	Plot No. By Rep			
											1	2	3	4
1	Aim	2		EC	1	OZ/A	RM	A	0.5279 ml/mx		101	204	302	404
	COC			L	1	% V/V	RM	A	9.999 ml/mx					
2	Aim	2		EC	1	OZ/A	RM	A	0.5279 ml/mx		102	203	301	403
	COC			L	1	% V/V	RM	A	9.999 ml/mx					
	Poast	1.5		EC	1.5	PT/A	RM	A	12.67 ml/mx					
3	Aim	2		EC	1	OZ/A	RM	A	0.5279 ml/mx		103	202	303	402
	COC			L	1	% V/V	RM	A	9.999 ml/mx					
	Select	2		EC	8	OZ/A	RM	A	4.223 ml/mx					
4	Non-treated										104	201	304	401

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
1.980	ml	Aim	2	EC	
37.496	ml	COC		L	
15.834	ml	Poast	1.5	EC	
5.279	ml	Select	2	EC	

\* '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 large crabgrass and pink purslane response to row middle applications of Aim mixed with a postemergence graminicide.

#### WEED RESPONSE:

##### Large crabgrass:

1. Mixtures of graminicides plus Aim provided good control at 18 DAT. Aim initially burned the grass but provided no control at 18 DAT.

##### Pink purslane:

1. Aim mixed with the graminicides provided at least 15% better control than Aim + Crop Oil at 18 DAT.

##### Visual Pepper Injury:

1. A hood was not used to increase the potential for plant injury.
2. Winds were minimal but 14 to 18% leaf spotting occurred.

#### CONCLUSIONS:

1. Aim should only be applied under hoods and applications should be made only prior to fruit set.
2. Grass herbicides mixed with Aim continue to increase broadleaf activity which is now documented in several trials.

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Weed Code	DIGSA	DIGSA	PORPI	PORPI	CPSAN	CPSAN		
Crop Code								
Rating Data Type	injury	injury	injury	injury	injury	injury		
Rating Unit	%	%	%	%	%	%		
Rating Date	Aug-31-06	Sep-14-06	Aug-31-06	Sep-14-06	Aug-31-06	Sep-14-06		
Assessed By	SC	SC	SC	SC	SC	SC		
Trt-Eval Interval	4 DA-A	18 DA-A	4 DA-A	18 DA-A	4 DA-A	18 DA-A		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate		
		Unit						
1	Aim	1 OZ/A	20 b	0 b	41 b	50 b	18 a	15 a
	COC	1 % V/V						
2	Aim	1 OZ/A	36 a	86 a	50 a	65 a	14 a	15 a
	COC	1 % V/V						
	Poast	1.5 PT/A						
3	Aim	1 OZ/A	38 a	85 a	53 a	69 a	18 a	15 a
	COC	1 % V/V						
	Select	8 OZ/A						
4	Non-treated		0 c	0 b	0 c	0 c	0 b	0 b
LSD (P=.05)			11.9	5.0	7.1	10.8	4.3	3.3
Standard Deviation			7.5	3.1	4.4	6.8	2.7	2.0
CV			31.85	7.35	12.32	14.77	21.89	18.14
Bartlett's X2			1.268	0.1	0.788	0.447	0.074	0.0
P(Bartlett's X2)			0.53	0.751	0.375	0.80	0.963	.

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

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Trial ID: Veg62-06    Study Dir.: Stanley Culpepper  
 Location: Ponder farm    Investigator: Stanley Culpepper

**GENERAL TRIAL INFORMATION**

<b>Study Director:</b> Stanley Culpepper <b>Affiliation:</b> University of Georgia <b>Postal Code:</b> 31974	<b>Title:</b> Ext. Weed Science
<b>Investigator:</b> Stanley Culpepper <b>Affiliation:</b> University of Georgia <b>Postal Code:</b> 31974	<b>Title:</b> Ext. Weed Science

**TRIAL LOCATION**

<b>City:</b> Tifton <b>State/Prov.:</b> GA <b>Postal Code:</b> 31794 <b>Country:</b> USA	<b>Trial Status:</b> Completed <b>Trial Reliability:</b> excellent <b>Initiation Date:</b> Aug-27-06 <b>Planned Completion Date:</b> _____
<b>E-Longitude of LL Corner °:</b> _____ <b>Altitude of LL Corner:</b> _____ <b>Unit:</b> _____	<b>N-Latitude of LL Corner °:</b> _____ <b>Angle y-axis to North °:</b> _____

**Directions:**

**COOPERATOR/LANDOWNER**

<b>Cooperator:</b> _____ <b>Org:</b> _____ <b>Address 1:</b> _____ <b>Address 2:</b> _____ <b>City:</b> _____ <b>State/Prov:</b> _____ <b>Postal Code:</b> _____	<b>Country:</b> _____ <b>Phone No:</b> _____ <b>Fax No:</b> _____
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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.	DIGSA	large crabgrass	
2.	PORPI	pink purslane	

**Crop 1:** CUMSA CUCUMBER    **Variety:** Thunder  
**Planting Date:** Aug-27-06    **Planting Method:** transplant  
**Rate:** 1 ft                                  **Depth:** 1 in                                  **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 6 ft                                  **Spacing Within Row:** 12 in                                  **Seed Bed:** raised bed, mulch  
**Soil Temperature:** 83 f                                  **Soil Moisture:** moist                                  **Emergence Date:** \_\_\_\_\_

**SITE AND DESIGN**

**Plot Width, Unit:** 6 FT                                  **Plot Length, Unit:** 30 FT                                  **Reps:** 4  
**Site Type:** Lewis Taylor Farms  
**Tillage Type:** conventional                                  **Study Design:** RANDOMIZED COMPLETE BLOCK

**Trial Initiation Comments:**

	Previous Crops	Previous Pesticides	Year
1.			

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## MAINTENANCE

Field Prep./Maintenance:

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

### SOIL DESCRIPTION

% Sand: 90	% OM: 1.1	Texture: Sand	
% Silt: 8	pH: 6.3	Soil Name: Tifton sandy loam	
% Clay: 2	CEC: _____	Fert. Level: _____	

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: wet

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

### APPLICATION DESCRIPTION

	A
Application Date:	Aug-27-06
Time of Day:	8:00am
Application Method:	broadcast
Application Timing:	RM
Applic. Placement:	row middl
Air Temp., Unit:	78 F
% Relative Humidity:	71
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	y
Water Hardness:	
Soil Temp., Unit:	83 F
Soil Moisture:	moist
% Cloud Cover:	0

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUMSA RM
Stage Scale:	runners
Height, Unit:	10 in

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DIGSA RM
Stage Scale:	4-8 in
Density, Unit:	12 ydsq
Weed 2 Code, Stage:	PORPI RM
Stage Scale:	4-6 in
Density, Unit:	8 ydsq

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## APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	backpack
<b>Operating Pressure:</b>	18
<b>Nozzle Type:</b>	flood jet
<b>Nozzle Size:</b>	11002
<b>Nozzle Spacing, Unit:</b>	36 inch
<b>Nozzles/Row:</b>	1
<b>Band Width, Unit:</b>	
<b>Boom Length, Unit:</b>	
<b>Boom Height, Unit:</b>	15 in
<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