

University of Georgia

Row middle applications of Aim in pepper.

Trial ID: Veg61-06
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	Rate Rate	Grow Unit	Appl Stg	Code	Amt Product to 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
	L			9.999 ml/mx									
2	Aim	2		EC	1	OZ/A	RM	A	0.5279 ml/mx	102	203	301	403
	L			9.999 ml/mx									
	Poast			1.5					EC				
3	Aim	2		EC	1	OZ/A	RM	A	0.5279 ml/mx	103	202	303	402
	L			9.999 ml/mx									
	Select			2					EC				
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

OBJECTIVES: Evaluate weed response to Aim alone or mixed with graminicides.

WEED RESPONSE

Pink purslane:

1. The addition of Poast or Select tended to improve control by Aim.
2. Aim controlled emerged plants less than 1 inch, larger plants regrew.

Smallflower morningglory:

1. Aim provided good to excellent control, morningglory was less than 2 inches.

Goosegrass:

1. Goosegrass was huge at time of application (16+ inch).
2. Select tended to be more effective than Poast.

PEPPER INJURY:

1. Minor and similar injury was noted from drift by all treatments.

University of Georgia

Row middle applications of Aim in pepper.

Trial ID: Veg61-06
Location: Ponder farm

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Weed Code	PORPI	PORPI	PORPI	IAQTA	IAQTA	IAQTA	ELEIN	ELEIN		
Crop Code										
Rating Data Type	control	control	control	control	control	control	control	control		
Rating Unit	%	%	%	%	%	%	%	%		
Rating Date	Aug-15-06	Aug-12-06	Sep-03-06	Aug-15-06	Aug-12-06	Sep-03-06	Aug-15-06	Aug-12-06		
Trt-Eval Interval	3 DA-A	0 DA-A	22 DA-A	3 DA-A	0 DA-A	22 DA-A	3 DA-A	0 DA-A		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
			1	2	3	4	5	6		
			7	8						
1	Aim	1 OZ/A	77 a	71 b	48 a	90 a	86 a	94 a	3 a	4 c
	COC	1 % V/V								
2	Aim	1 OZ/A	84 a	80 a	60 a	90 a	86 a	91 a	3 a	36 b
	COC	1 % V/V								
	Poast	1.5 PT/A								
3	Aim	1 OZ/A	86 a	83 a	60 a	90 a	87 a	93 a	3 a	58 a
	COC	1 % V/V								
	Select	8 OZ/A								
4	Non-treated		0 b	0 c	0 b	0 b	0 b	0 b	0 a	0 c
LSD (P=.05)			8.4	6.0	17.7	0.0	1.7	3.2	4.0	16.9
Standard Deviation			5.3	3.7	11.1	0.0	1.0	2.0	2.5	10.6
CV			8.56	6.37	26.48	0.0	1.61	2.86	133.33	43.38
Bartlett's X2			0.615	4.036	1.288	0.0	0.079	0.058	0.0	6.936
P(Bartlett's X2)			0.735	0.133	0.525	.	0.961	0.972	0.001*	0.031*

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

University of Georgia

Weed Code		ELEIN		
Crop Code			CPSAN	CPSAN
Rating Data Type		control	injury	injury
Rating Unit		%	%	%
Rating Date		Sep-03-06	Aug-15-06	Aug-22-06
Trt-Eval Interval		22 DA-A	3 DA-A	10 DA-A
Trt No.	Treatment Name	Rate	Unit	
		9	10	11
1	Aim	1	OZ/A	0 b
	COC	1	% V/V	5 a
				0 a
2	Aim	1	OZ/A	60 a
	COC	1	% V/V	4 ab
	Poast	1.5	PT/A	0 a
3	Aim	1	OZ/A	68 a
	COC	1	% V/V	3 ab
	Select	8	OZ/A	0 a
4	Non-treated			0 b
				0 b
				0 a
LSD (P=.05)		7.9		3.8
Standard Deviation		4.9		2.4
CV		15.47		80.29
Bartlett's X2		0.261		0.246
P(Bartlett's X2)		0.61		0.884
				.

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

University of Georgia

Row middle applications of Aim in pepper.

Trial ID: Veg61-06 Study Dir.: Stanley Culpepper
 Location: Ponder farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794
Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: Univ. of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** good
Postal Code: 31795 **Initiation Date:** Aug-06-06
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

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.	PORPI	pink purslane	
2.	IAQTA	smallflower mg	
3.	ELEIN	goosegrass	

Crop 1: CPSAN bell pepper **Variety:** Stelleto
Planting Date: Aug-06-06 **Planting Method:** transplant
Rate: 1 ft **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 94 F **Soil Moisture:** drip **Emergence Date:** _____

SITE AND DESIGN

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

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

University of Georgia

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: _____ % OM: 0. Texture: laomy sand
 % Silt: _____ pH: 0. Soil Name: _____
 % Clay: _____ CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: row middles: fair moisture

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Aug-12-06
Time of Day:	9 am
Application Method:	banded
Application Timing:	RM
Applic. Placement:	row middl
Air Temp., Unit:	81 F
% Relative Humidity:	70
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	85 F
Soil Moisture:	moist
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN RM
Stage Scale:	4-5 leaf
Height, Unit:	5 inch

University of Georgia

WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	PORPI RM
Stage Scale:	2-3 inch
Density, Unit:	20 ydsq
Weed 2 Code, Stage:	IAQTA RM
Stage Scale:	1-2 inch
Density, Unit:	4 ydsq
Weed 3 Code, Stage:	ELEIN RM
Stage Scale:	16 inch
Density, Unit:	3 ydsq

APPLICATION EQUIPMENT

A	
Appl. Equipment:	backpack
Operating Pressure:	18
Nozzle Type:	TK 2
Nozzle Size:	floodjet
Nozzle Spacing, Unit:	24 inch
Nozzles/Row:	1
Band Width, Unit:	
Boom Length, Unit:	
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