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Weed and yellow squash response to Aim mixtures applied in row middles.

Trial ID: Veg42-05(rm) Study Dir.: Stanley Culpepper
 Location: LTF Investigator: Stanley Culpepper

Reps: 4 Plots: 2 by 30 feet
 Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min .30867)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt to Measure	Plot No. By Rep			
									1	2	3	4
1	Non-treated								101	203	301	403
2	Aim	2	EC	1 oz/a	RM	A	0.7918 ml/mx		102	201	302	401
	COC	L		1 % v/v	RM	A	15.0 ml/mx					
3	Aim	2	EC	1 oz/a	RM	A	0.7918 ml/mx		103	202	303	402
	COC	L		1 % v/v	RM	A	15.0 ml/mx					
	Select	2	EC	8 oz/a	RM	A	6.334 ml/mx					
4	COC	L		1 % v/v	RM	A	15.0 ml/mx		104	204	304	404
	Select	2	EC	8 oz/a	RM	A	6.334 ml/mx					

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
1.980	ml	Aim 2 EC	
56.244	ml	COC L	
15.836	ml	Select 2 EC	

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

Trial Comments

OBJECTIVE: Compare grass and broadleaf control with Aim/Select mixtures.

VISUAL CROP RESPONSE:

1. No visual injury was detected.

WEED RESPONSE:

Large crabgrass:

1. Aim did not impact grass control by Select.

Pink purslane:

1. Aim provided only fair control. At this location, mixing Aim with Select did not improve control.

Pigweed:

1. Aim provided excellent control and Select had no impact on control by Aim.

Vol. Cantaloupe:

1. Aim provided excellent control and Select had no impact on control by Aim.

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Location: LTF

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Weed Code	CUUPE	CUUPE	DIGSA	DIGSA	PORPI	PORPI	AMASS	AMASS
Crop Code	injury	injury	control	control	control	control	control	control
Rating Data Type	percent	percent	percent	percent	percent	percent	percent	percent
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	Sep-24-05	Oct-03-05	Sep-24-05	Oct-03-05	Sep-24-05	Oct-03-05	Sep-24-05	Oct-03-05
Trt-Eval Interval	6 DA-A	15 DA-A	6 DA-A	15 DA-A	6 DA-A	15 DA-A	6 DA-A	15 DA-A
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit						
			1	2	3	4	5	6
			7	8				
1	Non-treated		0	0	0	0	0	0
2	Aim	1 oz/a	0	0	8	0	83	74
	COC	1 % v/v						
3	Aim	1 oz/a	0	0	75	98	81	75
	COC	1 % v/v						
	Select	8 oz/a						
4	COC	1 % v/v	0	0	72	97	0	0
	Select	8 oz/a						
LSD (P=.05)			0.0	0.0	10.8	3.9	4.3	4.7
Standard Deviation			0.0	0.0	6.7	2.4	2.7	2.9
CV			0.0	0.0	17.47	4.98	6.52	7.84
								13.51
								10.77

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

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Weed Code			Vol.	Vol.
Crop Code			Cantalou	Cantalou
Rating Data Type			control	control
Rating Unit			percent	percent
Rating Date			Sep-24-05	Oct-03-05
Trt-Eval Interval			6 DA-A	15 DA-A
Trt No.	Treatment Name	Rate	Unit	
9				10
1	Non-treated			0
2	Aim	1 oz/a		100
	COC	1 % v/v		
3	Aim	1 oz/a		98
	COC	1 % v/v		
	Select	8 oz/a		100
4	COC	1 % v/v		0
	Select	8 oz/a		0
LSD (P=.05)			1.9	0.0
Standard Deviation			1.2	0.0
CV			2.39	0.0

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

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 Location: LTF 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: Tifton **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31794 **Initiation Date:** Sep-18-05
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: Lewis Taylor Farms **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.	DIGSA	large crabgrass	
2.	AMASS	pigweed	
3.	Vol.C	volunteer cantaloupe	
4.	PORPI	pink purslane	

Crop 1: CUPPE summer yellow squash **Variety:** Prelude II
Planting Date: _____ **Planting Method:** transplant
Rate: 1 per ft **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 5 feet **Spacing Within Row:** 1 ft **Seed Bed:** plasticulture
Soil Temperature: _____ **Soil Moisture:** drip irrigat **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 2 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Site Type: On farm
Tillage Type: plasticulture **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: 0.	% OM: 0.	Texture: sand
% Silt: 0.	pH: 0.	Soil Name: Tifton sandy loam
% Clay: 0.	CEC: 0.	Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: fair

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Sep-18-05
Time of Day:	9 am
Application Method:	banded
Application Timing:	RM
Applic. Placement:	row middl
Air Temp., Unit:	84 F
% Relative Humidity:	59
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	79 F
Soil Moisture:	drip irri
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CUPPE RM
Stage Scale:	befo bloo
Height, Unit:	12 inch

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WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	DIGSA RM
Stage Scale:	10-12 inc
Density, Unit:	19 ydsq
Weed 2 Code, Stage:	AMASS RM
Stage Scale:	2-7 inch
Density, Unit:	0.5 ydsq
Weed 3 Code, Stage:	Vol.C RM
Stage Scale:	6-10 inch
Density, Unit:	1 ydsq
Weed 4 Code, Stage:	PORPI RM
Stage Scale:	1-4 inch
Density, Unit:	18 ydsq

APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	18
Nozzle Type:	even tip
Nozzle Size:	8003
Nozzle Spacing, Unit:	
Nozzles/Row:	
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	18 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