

University of Georgia

Tropical spiderwort response to Aim and ET mixtures applied post-directed.

Trial ID: C26-07

Study Dir.: Tim Flanders

Location: Berrien County

Investigator: Stanley Culpepper

Reps: 4

Plots: 9 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1.5 liters (min 1.1575)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Stg	Appl Code	Amt to Product Measure	Plot No. By Rep				
									1	2	3	4	
1	ET	0.21	L	L	1	OZ/A	PD	A	0.7918 ml/mx	101	203	311	412
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
2	ET	0.21	L	L	1.5	OZ/A	PD	A	1.188 ml/mx	102	210	312	407
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
3	ET	0.21	L	L	2.0	OZ/A	PD	A	1.584 ml/mx	103	211	301	410
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
4	Aim	2	L	L	1	OZ/A	PD	A	0.7918 ml/mx	104	205	306	402
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
5	Aim	2	L	L	1.5	OZ/A	PD	A	1.188 ml/mx	105	204	302	408
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
6	Aim	2	L	L	2.0	OZ/A	PD	A	1.584 ml/mx	106	201	303	404
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
7	ET	0.21	L	L	1	OZ/A	PD	A	0.7918 ml/mx	107	209	310	405
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
	Roundup WeatherMax	4.5	L	L	22	OZ/A	PD	A	17.42 ml/mx				
8	ET	0.21	L	L	1.5	OZ/A	PD	A	1.188 ml/mx	108	212	308	411
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
	Roundup WeatherMax	4.5	L	L	22	OZ/A	PD	A	17.42 ml/mx				
9	ET	0.21	L	L	2.0	OZ/A	PD	A	1.584 ml/mx	109	202	307	409
	COC			L	1	% V/V	PD	A	15.0 ml/mx				
	Roundup WeatherMax	4.5	L	L	22	OZ/A	PD	A	17.42 ml/mx				
10	ET	0.21	L	L	1	OZ/A	PD	A	0.7918 ml/mx	110	206	309	403
	Roundup WeatherMax	4.5	L	L	22	OZ/A	PD	A	17.42 ml/mx				
11	Aim	2	L	L	1	OZ/A	PD	A	0.7918 ml/mx	111	208	305	401
	Roundup WeatherMax	4.5	L	L	22	OZ/A	PD	A	17.42 ml/mx				
12	Non-treated control									112	207	304	406

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
9.898	ml	ET	0.21	L	
168.732	ml	COC		L	
5.444	ml	Aim	2	L	
108.874	ml	Roundup WeatherMax	4.5	L	

* '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.

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Trial Comments

OBJECTIVE: Compare Aim and ET for the control of tropical spiderwort.

Cotton Response:

1. Stem necrosis injury ranged from 7 to 11% with all ET and Aim mixtures.
2. No cotton injury was noted at 21 DAT.

Tropical Spiderwort Response:

1. At 7 or 21 DAT, ET plus COC provided less than 42% control.
2. At 7 or 21 DAT, Aim plus COC provided 80 to 95% control.
3. Mixing glyphosate with ET greatly improved control to at least 75%.
4. Glyphosate plus Aim was more effective than glyphosate plus ET.

Pitted Morningglory:

1. Control was excellent with all directed treatments.

CONCLUSIONS:

1. Results suggest Aim is more effective than ET on tropical spiderwort.

GENERAL COMMENTS:

July 6: Oversprayed 22 oz. WMax overtop of entire trial.

August 19: New Flush 20 sq/yd.

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Weed Code		INJURY	INJURY	COMBE	COMBE	IPOLA	IPOLA	
Crop Code		cotton	cotton	cotton	cotton	cotton	cotton	
Rating Data Type		%	%	%	%	%	%	
Rating Unit		control	control	control	control	control	control	
Rating Date		Aug-05-07	Aug-19-07	Aug-05-07	Aug-19-07	Aug-05-07	Aug-19-07	
Trt-Eval Interval		7 DA-A	21 DA-A	7 DA-A	21 DA-A	7 DA-A	21 DA-A	
Trt No.	Treatment Name	Rate						
		Rate Unit	1	2	3	4	5	
							6	
1	ET COC	1 OZ/A 1 % V/V	7 a	0 a	23 e	19 e	99 a	99 a
2	ET COC	1.5 OZ/A 1 % V/V	10 a	0 a	31 d	37 d	99 a	99 a
3	ET COC	2.0 OZ/A 1 % V/V	10 a	0 a	31 d	41 d	99 a	99 a
4	Aim COC	1 OZ/A 1 % V/V	11 a	0 a	94 a	81 c	99 a	99 a
5	Aim COC	1.5 OZ/A 1 % V/V	9 a	0 a	95 a	91 ab	99 a	99 a
6	Aim COC	2.0 OZ/A 1 % V/V	11 a	0 a	96 a	92 ab	99 a	99 a
7	ET COC Roundup WeatherMax	1 OZ/A 1 % V/V 22 OZ/A	9 a	0 a	79 bc	84 bc	99 a	99 a
8	ET COC Roundup WeatherMax	1.5 OZ/A 1 % V/V 22 OZ/A	11 a	0 a	75 bc	86 bc	99 a	99 a
9	ET COC Roundup WeatherMax	2.0 OZ/A 1 % V/V 22 OZ/A	10 a	0 a	83 b	92 ab	99 a	99 a
10	ET Roundup WeatherMax	1 OZ/A 22 OZ/A	10 a	0 a	71 c	87 bc	99 a	99 a
11	Aim Roundup WeatherMax	1 OZ/A 22 OZ/A	12 a	0 a	95 a	97 a	99 a	99 a
12	Non-treated control		0 b	0 a	0 f	0 f	0 b	0 b
LSD (P=.05)			4.1	0.0	8.0	7.1	0.0	0.0
Standard Deviation			2.8	0.0	5.5	4.9	0.0	0.0
CV			31.2	0.0	8.57	7.32	0.0	0.0
Bartlett's X2			7.328	0.0	18.35	19.798	0.0	0.0
P(Bartlett's X2)			0.694	.	0.049*	0.031*	.	.

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

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

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: .

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A
Application Date:	Jul-29-07
Time of Day:	8:00 am
Application Method:	broadcast
Application Timing:	PD
Applic. Placement:	directed
Air Temp., Unit:	80 F
% Relative Humidity:	64
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	Y
Water Hardness:	
Soil Temp., Unit:	80 F
Soil Moisture:	moist
% Cloud Cover:	40

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI PD
Stage Scale:	15 leaf
Height, Unit:	22 in

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	COMBE PD
Stage Scale:	<or= 5 in
Density, Unit:	28 ydsq
Weed 2 Code, Stage:	IPOLA PD
Stage Scale:	2-3 in
Density, Unit:	4 ydsq

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	backpack
Operating Pressure:	26
Nozzle Type:	floodjet
Nozzle Size:	D2
Nozzle Spacing, Unit:	36 in
Nozzles/Row:	1
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	12 in
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	15 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment