



# University of Georgia

2. By 22 days after treatment, S-metolachlor at 0.95 lb ai/A was more effective than 1 lb ai/A of metolachlor. Control from metolachlor at 1.3 lb was similar to that of S-metolachlor at 0.95 lb.
3. At 22 days after treatment, Staple and Envoke were as effective as S- metolachlor; however, control from plots treated with Staple and Envoke may have been increased because of poor grass control.
4. Grass and pigweed control was so poor in some plots that pusley ratings were discontinued at 22 DAT.

#### Broadleaf signalgrass response:

1. All herbicide treatments provided complete control of emerged signalgrass at 9 DAT.
2. Staple and Envoke provided little to no control.
3. Metolachlor products provided fair control. By 70 DAT, S-metolachlor at 0.95 lb and 1.3 lb of metolachlor were more effective than 1 lb of metolachlor.

#### GENERAL COMMENTS:

1. Culpepper rated when a SC is in the crop code while Prostko rated when EP is in the crop code.

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**Palmer amaranth response to Stalwart, Dual Mag, Staple, or Envoke mixed with RU.**

Trial ID: C39-05

Study Dir.: Stanley Culpepper

Location: Attapulgus

Investigator: Stanley Culpepper

Weed Code		GOSHI	GOSHI	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA		
Crop Code		injury	injury	SC	SC	SC	SC	SC	SC		
Rating Data Type		percent	percent	control	control	control	control	control	control		
Rating Unit				percent	percent	percent	percent	percent	percent		
Rating Date		Jun-03-05	Jun-16-05	Jun-03-05	Jun-16-05	Jun-24-05	Jul-06-05	Jul-18-05	Aug-03-05		
Trt-Eval Interval		9 DA-A	23 DA-A	9 DA-A	22 DA-A	30 DA-A	42 DA-A	54 DA-A	70 DA-A		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit		
1	Non-treated			0	0	0	0	0	0		
2	Sequence	1.67 lb ai/a		4	0	99	90	89	84	81	78
3	Touchdown Total	0.75 lb ai/a		5	0	99	90	91	85	85	80
	Dual Magnum	0.95 lb ai/a									
4	Roundup WeatherMax	0.75 lb ai/a		9	0	99	86	86	84	81	82
	Dual Magnum	0.95 lb ai/a									
5	Touchdown Total	0.75 lb ai/a		18	0	99	68	60	54	41	26
6	Roundup WeatherMax	0.75 lb ai/a		3	0	99	97	88	89	88	83
	Staple	0.6 oz/a									
7	Roundup WeatherMax	0.75 lb ai/a		4	0	99	95	94	89	86	80
	Staple	0.9 oz/a									
8	Roundup WeatherMax	0.75 lb ai/a		15	0	99	97	96	92	88	85
	Envoke	0.1 oz/a									
9	Roundup WeatherMax	0.75 lb ai/a		10	0	99	81	76	72	64	65
	Stalwart	1.0 lb ai/a									
10	Roundup WeatherMax	0.75 lb ai/a		10	0	99	86	85	86	79	79
	Stalwart	1.3 lb ai/a									
	LSD (P=.05)			4.1	0.0	0.0	9.2	11.1	10.0	13.1	16.1
	Standard Deviation			2.8	0.0	0.0	6.3	7.7	6.9	9.0	11.1
	CV			36.42	0.0	0.0	8.0	10.04	9.4	13.06	16.85

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

## University of Georgia

Weed Code	AMAPA	AMAPA	AMAPA	AMAPA	RCHSC	RCHSC	BRAPP			
Crop Code	SC	EP	EP	EP						
Rating Data Type	control	control	control	control	control	control	control			
Rating Unit	percent	percent	percent	percent	percent	percent	percent			
Rating Date	Sep-05-05	Jun-17-05	Jul-20-05	Aug-05-05	Jun-03-05	Jun-16-05	Jun-03-05			
Trt-Eval Interval	103 DA-A	23 DA-A	56 DA-A	72 DA-A	9 DA-A	22 DA-A	9 DA-A			
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15
1	Non-treated			0	0	0	0	0	0	0
2	Sequence	1.67	lb ai/a	72	91	71	71	99	96	99
3	Touchdown Total	0.75	lb ai/a	76	94	78	74	99	95	99
	Dual Magnum	0.95	lb ai/a							
4	Roundup WeatherMax	0.75	lb ai/a	74	93	71	73	99	97	99
	Dual Magnum	0.95	lb ai/a							
5	Touchdown Total	0.75	lb ai/a	21	83	31	18	99	72	99
6	Roundup WeatherMax	0.75	lb ai/a	80	93	74	74	99	97	99
	Staple	0.6	oz/a							
7	Roundup WeatherMax	0.75	lb ai/a	80	96	80	78	99	97	99
	Staple	0.9	oz/a							
8	Roundup WeatherMax	0.75	lb ai/a	85	96	80	80	99	94	99
	Envoke	0.1	oz/a							
9	Roundup WeatherMax	0.75	lb ai/a	51	92	59	49	99	86	99
	Stalwart	1.0	lb ai/a							
10	Roundup WeatherMax	0.75	lb ai/a	75	88	74	69	99	94	99
	Stalwart	1.3	lb ai/a							
LSD (P=.05)				12.9	7.3	15.8	16.3	0.0	7.7	0.0
Standard Deviation				8.9	5.1	10.9	11.3	0.0	5.3	0.0
CV				14.48	6.14	17.59	19.29	0.0	6.39	0.0

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

## University of Georgia

Weed Code		BRAPP	BRAPP	BRAPP	BRAPP	BRAPP		
Crop Code								
Rating Data Type		control	control	control	control	control		
Rating Unit		percent	percent	percent	percent	percent		
Rating Date		Jun-16-05	Jun-24-05	Jul-06-05	Jul-18-05	Aug-03-05		
Trt-Eval Interval		22 DA-A	30 DA-A	42 DA-A	54 DA-A	70 DA-A		
Trt No.	Treatment Name	Rate	Unit	16	17	18	19	20
1	Non-treated			0	0	0	0	0
2	Sequence	1.67	lb ai/a	89	84	74	78	70
3	Touchdown Total	0.75	lb ai/a	96	92	78	89	76
	Dual Magnum	0.95	lb ai/a					
4	Roundup WeatherMax	0.75	lb ai/a	94	86	77	81	79
	Dual Magnum	0.95	lb ai/a					
5	Touchdown Total	0.75	lb ai/a	70	59	45	43	38
6	Roundup WeatherMax	0.75	lb ai/a	83	66	48	58	53
	Staple	0.6	oz/a					
7	Roundup WeatherMax	0.75	lb ai/a	84	67	50	50	53
	Staple	0.9	oz/a					
8	Roundup WeatherMax	0.75	lb ai/a	82	68	49	37	50
	Envoke	0.1	oz/a					
9	Roundup WeatherMax	0.75	lb ai/a	91	85	72	74	59
	Stalwart	1.0	lb ai/a					
10	Roundup WeatherMax	0.75	lb ai/a	88	91	75	80	70
	Stalwart	1.3	lb ai/a					
LSD (P=.05)				8.0	9.7	6.5	16.8	10.5
Standard Deviation				5.5	6.7	4.5	11.6	7.3
CV				7.15	9.54	7.96	19.73	13.27

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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: 84	% OM: 1.3	Texture: loamy sand
% Silt: 8	pH: 5.9	Soil Name: _____
% Clay: 8	CEC: _____	Fert. Level: _____

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

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

### APPLICATION DESCRIPTION

	A
Application Date:	May-25-05
Time of Day:	2 pm
Application Method:	broadcast
Application Timing:	2-4 lf
Applic. Placement:	overtop
Air Temp., Unit:	77 F
% Relative Humidity:	46
Wind Velocity, Unit:	1 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	84 F
Soil Moisture:	moist
% Cloud Cover:	0

### CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI 2-4 lf
Stage Scale:	4 leaf
Height, Unit:	5 inch

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### WEED STAGE AT EACH APPLICATION

A	
Weed 1 Code, Stage:	AMAPA 2-4 lf
Stage Scale:	< 3 inch
Density, Unit:	33 ydsq
Weed 2 Code, Stage:	RCHSC 2-4 lf
Stage Scale:	< 1 inch
Density, Unit:	10 ydsq
Weed 3 Code, Stage:	BRAPP 2-4 lf
Stage Scale:	< 3 inch
Density, Unit:	17 ydsq

### APPLICATION EQUIPMENT

A	
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 inch
Nozzles/Row:	2
Band Width, Unit:	
Boom Length, Unit:	4.5 feet
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