



## University of Georgia

Florida beggarweed: Excellent postemergent and residual control was noted with all layby treatments.

Texas panicum: Good initial control of emerged texas panicum was noted with similar control by all layby treatments. However, regrowth from layby treatments including Suprend, A12474C and Caparol + Envoke was greater than that noted with A 12474 D

Seed Cotton Yield: Little differences in yield were noted; likely a response to excellent early and mid-season weed control.

# University of Georgia

**Evaluating cotton and weed response to various Suprend formulations.**

Trial ID: C28-07

Study Dir.: Stanley Culpepper

Location: Attapulgus

Investigator: Stanley Culpepper

Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	ACNHI	ACNHI	ACNHI			
Crop Code	cotton	cotton										
Rating Data Type	%	%	%	%	%	%	%	%	%			
Rating Unit	injury	injury	control	control	control	control	control	control	control			
Rating Date	Jul-02-07	Jul-11-07	Jul-02-07	Jul-11-07	Jul-25-07	Oct-09-07	Jul-02-07	Jul-11-07	Jul-25-07			
Trt-Eval Interval	8 DA-C	17 DA-C	8 DA-C	17 DA-C	31 DA-C	107 DA-C	8 DA-C	17 DA-C	31 DA-C			
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8	9
1	Caparol WeatherMax	32 OZ/A 22 OZ/A		0 b	0 b	0 b	0 b	0 c	0 b	0 b	0 b	0 b
2	Caparol WeatherMax Suprend COC	32 OZ/A 22 OZ/A 1 LB/A 1 % V/V		5 a	5 ab	99 a	99 a	99 a	99 a	99 a	99 a	99 a
3	Caparol WeatherMax A12474 C COC	32 OZ/A 22 OZ/A 1 LB/A 1 % V/V		7 a	8 a	99 a	98 a	95 b	90 a	99 a	99 a	99 a
4	Caparol WeatherMax A12474 D COC	32 OZ/A 22 OZ/A 1 LB/A 1 % V/V		6 a	5 ab	99 a	98 a	97 ab	92 a	99 a	99 a	99 a
5	Caparol WeatherMax Caparol Envoke COC	32 OZ/A 22 OZ/A 32 OZ/A 0.0094 LB/A 1 % V/V		7 a	8 a	99 a	99 a	99 a	94 a	99 a	99 a	99 a
LSD (P=.05)				2.1	5.2	0.0	2.5	3.7	11.9	0.8	0.0	0.0
Standard Deviation				1.4	3.4	0.0	1.6	2.4	7.8	0.5	0.0	0.0
CV				27.63	65.47	0.0	2.09	3.05	10.34	0.69	0.0	0.0
Bartlett's X2				0.5	1.502	0.0	0.0	0.605	0.116	0.0	0.0	0.0
P(Bartlett's X2)				0.919	0.682	.	1.00	0.437	0.944	1.00	.	.

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

## University of Georgia

Weed Code	ACNHI	DEDTO	DEDTO	DEDTO	DEDTO	PANTE	PANTE	PANTE	PANTE			
Crop Code												
Rating Data Type	%	%	%	%	%	%	%	%	%			
Rating Unit	control	control	control	control	control	control	control	control	control			
Rating Date	Oct-09-07	Jul-02-07	Jul-11-07	Jul-25-07	Oct-09-07	Jul-02-07	Jul-11-07	Jul-25-07	Oct-09-07			
Trt-Eval Interval	107 DA-C	8 DA-C	17 DA-C	31 DA-C	107 DA-C	8 DA-C	17 DA-C	31 DA-C	107 DA-C			
ARM Action Codes												
# Subsamples, Dec.												
Trt No.	Treatment Name	Rate	Unit	10	11	12	13	14	15	16	17	18
1	Caparol	32	OZ/A	0 b	0 b	0 b	0 b	0 b	0 b	0 c	0 c	0 c
	WeatherMax	22	OZ/A									
2	Caparol	32	OZ/A	99 a	99 a	99 a	99 a	97 a	89 a	88 b	86 b	66 b
	WeatherMax	22	OZ/A									
	Suprend	1	LB/A									
	COC	1	% V/V									
3	Caparol	32	OZ/A	99 a	99 a	99 a	99 a	97 a	90 a	88 b	86 ab	72 b
	WeatherMax	22	OZ/A									
	A12474 C	1	LB/A									
	COC	1	% V/V									
4	Caparol	32	OZ/A	99 a	99 a	99 a	99 a	92 a	93 a	96 a	93 a	89 a
	WeatherMax	22	OZ/A									
	A12474 D	1	LB/A									
	COC	1	% V/V									
5	Caparol	32	OZ/A	99 a	99 a	99 a	99 a	97 a	89 a	88 b	79 b	63 b
	WeatherMax	22	OZ/A									
	Caparol	32	OZ/A									
	Envoke	0.0094	LB/A									
	COC	1	% V/V									
LSD (P=.05)				0.0	0.0	0.0	0.0	5.7	6.8	6.8	6.9	13.6
Standard Deviation				0.0	0.0	0.0	0.0	3.7	4.4	4.4	4.5	8.8
CV				0.0	0.0	0.0	0.0	4.82	6.09	6.16	6.52	15.22
Bartlett's X2				0.0	0.0	0.0	0.0	0.035	0.663	0.322	0.338	2.47
P(Bartlett's X2)				.	.	.	.	0.998	0.882	0.956	0.953	0.481

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

# University of Georgia

Weed Code		SEED	SEED
Crop Code		cotton	cotton
Rating Data Type		lb	YIELD
Rating Unit		plot	LB/A
Rating Date		Oct-09-07	Oct-09-07
Trt-Eval Interval		152 DA-A	152 DA-A
ARM Action Codes			TY1
# Subsamples, Dec.			1
Trt No.	Treatment Name	Rate	Unit
		19	20
1	Caparol	32 OZ/A	0 b
	WeatherMax	22 OZ/A	0.0 b
2	Caparol	32 OZ/A	9 a
	WeatherMax	22 OZ/A	2629.6 a
	Suprend	1 LB/A	
	COC	1 % V/V	
3	Caparol	32 OZ/A	9 a
	WeatherMax	22 OZ/A	2474.2 a
	A12474 C	1 LB/A	
	COC	1 % V/V	
4	Caparol	32 OZ/A	10 a
	WeatherMax	22 OZ/A	2780.6 a
	A12474 D	1 LB/A	
	COC	1 % V/V	
5	Caparol	32 OZ/A	8 a
	WeatherMax	22 OZ/A	2209.9 a
	Caparol	32 OZ/A	
	Envoke	0.0094 LB/A	
	COC	1 % V/V	
LSD (P=.05)		2.6	762.54
Standard Deviation		1.7	494.90
CV		24.51	24.51
Bartlett's X2		0.774	0.774
P(Bartlett's X2)		0.856	0.856

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

Column 20: TY1 = 290.4\*[C19]

# University of Georgia

**Evaluating cotton and weed response to various Suprend formulations.**

Trial ID: C28-07 Study Dir.: Stanley Culpepper  
 Location: Attapulgus 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:** Attapulgus **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** good  
**Postal Code:** \_\_\_\_\_ **Initiation Date:** May-10-07  
**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.	ACNHI	Starbur, bristly	Acanthospermum hispidum
2.	PANTE	Texas panicum	Panicum texanum
3.	DEDTO	Florida Beggarweed	Desmodium tortuosum
4.	AMAPA	Palmer amaranth	Croton glandu. septentrionalis

**Crop 1:** GOSHI COTTON, SHORT STAPLE **Variety:** DP 555 BRR  
**Planting Date:** May-10-07 **Planting Method:** seeding  
**Rate:** 4 ft **Depth:** 0.5 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 36 inch **Spacing Within Row:** 4 inch **Seed Bed:** flat  
**Soil Temperature:** 84 F **Soil Moisture:** moist **Emergence Date:** May-15-07

**SITE AND DESIGN**

**Plot Width, Unit:** 12 FT **Plot Length, Unit:** 25 FT **Reps:** 4  
**Site Type:** Attapulgus Resarch Farm  
**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: 84	% OM: 1.3	Texture: loamy sand
% Silt: 8	pH: 6.0	Soil Name: _____
% Clay: 8	CEC: _____	Fert. Level: _____

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

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

### APPLICATION DESCRIPTION

	A	B	C
Application Date:	May-10-07	May-28-07	Jun-24-07
Time of Day:	8:00 am	9:00 am	10:00 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PRE	2 leaf	PD
Applic. Placement:	on soil	overtop	directed
Air Temp., Unit:	79 F	76 F	87 F
% Relative Humidity:	38	63	41
Wind Velocity, Unit:	3 mph	0 mph	0 MPH
Dew Presence (Y/N):	N	N	N
Water Hardness:			
Soil Temp., Unit:	78 F	74 F	88 F
Soil Moisture:	moist	fair	moist
% Cloud Cover:	0	0	100

### CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GOSHI PRE	GOSHI 2 leaf	GOSHI PD
Stage Scale:	not up	2-3 leaf	11 leaf
Height, Unit:	0 inch	3 in	15 in

# University of Georgia

### WEED STAGE AT EACH APPLICATION

	A	B	C
<b>Weed 1 Code, Stage:</b>	ACNHI PRE	ACNHI 2 leaf	ACNHI PD
<b>Stage Scale:</b>	not up	< 3 inch	up to 4"
<b>Density, Unit:</b>	0 inch	4 ydsq	2 ydsq
<b>Weed 2 Code, Stage:</b>	PANTE PRE	PANTE 2 leaf	PANTE PD
<b>Stage Scale:</b>	not up	< 3 inch	up to 5"
<b>Density, Unit:</b>	0 inch	8 ydsq	3 ydsq
<b>Weed 3 Code, Stage:</b>	DEDTO PRE	DEDTO 2 leaf	DEDTO PD
<b>Stage Scale:</b>	not up	< 3 inch	up to 4"
<b>Density, Unit:</b>	0 inch	4 ydsq	2 ydsq
<b>Weed 4 Code, Stage:</b>	AMAPA PRE	AMAPA 2 leaf	AMAPA PD
<b>Stage Scale:</b>	not up	< 3 inch	up to 4"
<b>Density, Unit:</b>	0 inch	2 ydsq	2 ydsq

### APPLICATION EQUIPMENT

	A	B	C
<b>Appl. Equipment:</b>	backpack	backpack	backpack
<b>Operating Pressure:</b>	24	24	26
<b>Nozzle Type:</b>	flat fan	flat fan	floodjet
<b>Nozzle Size:</b>	11002	11002	TK 2
<b>Nozzle Spacing, Unit:</b>	18 in	18 in	36 in
<b>Nozzles/Row:</b>	2	2	1
<b>Band Width, Unit:</b>			
<b>Boom Length, Unit:</b>	4.5 ft	4.5 ft	
<b>Boom Height, Unit:</b>	15 in	15 in	12 in
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph
<b>Incorporation Equip.:</b>			
<b>Hours to Incorp.:</b>			
<b>Incorp. Depth, Unit:</b>			
<b>Carrier:</b>	water	water	water
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA	15 GPA
<b>Spray pH:</b>			
<b>Propellant:</b>	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>			

Trt No	Treatment Application Comment