	Evaluating cotton and weed response to various Suprend formulations.													
Tri	al ID: C28-	-07	10			St	tudy 1	Dir.:	Stanley Cu	lpepp	er			
LOC	investigator. Stanley curpepper													
Кер	S: 4	1/	Plots	: 12 by	25 feet		4 5 40 4	、						
Spra	pray vol. 14.0 gai/ac virk size. 2 liters (min 1.3434)													
Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By	Rep		
No.	Name	Conc	Unit	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
1	Caparol	4		L	32	OZ/A	PRE	А	33.78 ml/mx	101	205	303	404	
	WeatherMax	4.5		L	22	OZ/A	2 If	В	23.23 ml/mx					
2	Caparol	4		L	32	OZ/A	PRE	А	33.78 ml/mx	102	201	304	405	
	WeatherMax	4.5		L	22	OZ/A	2 If	В	23.23 ml/mx					
	Suprend	80		WG	1	LB/A	PD	С	16.19 g/mx					
	COC			L	1	% V/V	PD	С	20.0 ml/mx					
3	Caparol	4		L	32	OZ/A	PRE	А	33.78 ml/mx	103	202	301	402	
	WeatherMax	4.5		L	22	OZ/A	2 If	В	23.23 ml/mx					
	A12474 C	80		WG	1	LB/A	PD	С	16.19 g/mx					
	COC			L	1	% V/V	PD	С	20.0 ml/mx					
4	Caparol	4		L	32	OZ/A	PRE	А	33.78 ml/mx	104	203	302	401	
	WeatherMax	4.5		L	22	OZ/A	2 If	В	23.23 ml/mx					
	A12474 D	80		WG	1	LB/A	PD	С	16.19 g/mx					
	COC			L	1	% V/V	PD	С	20.0 ml/mx					
5	Caparol	4		L	32	OZ/A	PRE	А	33.78 ml/mx	105	204	305	403	
	WeatherMax	4.5		L	22	OZ/A	2 If	В	23.23 ml/mx					
	Caparol	4		L	32	OZ/A	PD	С	33.78 ml/mx					
	Envoke	75		DG	0.0094	LB/A	PD	С	0.1522 g/mx					
	COC			L	1	% V/V	PD	С	20.0 ml/mx					

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
253.379	ml	Caparol	4	L	
145.165	ml	WeatherMax	4.5	L	
20.241	g	Suprend	80	WG	
99.989	ml	COC		L	
20.241	g	A12474 C	80	WG	
20.241	g	A12474 D	80	WG	
0.190	g	Envoke	75	DG	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).

^r Product amount calculations increased 25 % for overage adjustment.

'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 2 liters.

Trial Comments

OBJECTIVE: Compare several formulations of Suprend applied at layby.

COTTON RESPONSE:

1. Cotton stem injury was similar with all layby options and injury was minor.

WEED RESPONSE:

Palmer amaranth: Excellent postemergent and residual control was noted with all layby treatments. At 31 DAT, A12474C was less effective than Suprend but at harvest no differences were noted.

Bristly starbur: Excellent postemergent and residual control was noted with all layby treatments.

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 12474D

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

	Evaluating cotton and weed response to various Suprend formulations.									
Trial ID: C28-07	7		Stu	dy Dir.:	Stanley	Culpeppe	r			
Location: Attapu	ılgus		Inves	tigator:	Stanley	Culpeppe	r			
Weed Code				AMAPA	AMAPA	AMAPA	AMAPA	ACNHI	ACNHI	ACNHI
Crop Code		cotton	cotton							
Rating Data Type		%	%	%	%	%	%	%	%	%
Rating Unit		injury	injury	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 Treatment	Rate									
No. Name Ra	ate 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/	5 a	5 ab	99 a						
3 Caparol WeatherMax A12474 C COC	32 OZ/A 22 OZ/A 1 LB/A 1 % 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/	6 a	5 ab	99 a	98 a	97 ab	92 a	99 a	99 a	99 a
5 Caparol WeatherMax Caparol Envoke 0. COC	32 OZ/A 22 OZ/A 32 OZ/A 0094 LB/A 1 % 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)

									-
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 Treatment Ra	е								
No. Name Rate Un	t 10	11	12	13	14	15	16	17	18
1 Caparol 32 OZ WeatherMax 22 OZ	/Α 0 b /Α	0 b	0 b	0 b	0 b	0 b	0 c	0 c	0 c
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	Ά								
Suprend 1 LB	A								
COC1 %	//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								
COC1 %	//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	Ά								
A12474 D 1 LB	A								
COC1 %	//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								
	//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)

Wee Croj Rati Rati Rati Trt-E ARN # Su	ed Code p Code ng Data Type ng Unit ng Date Eval Interval / Action Codes ubsamples, Do	S ec.		SEED cotton b plot Oct-09-07 152 DA-A	SEED cotton YIELD LB/A Oct-09-07 152 DA-A TY1 1
Trt No.	Treatment Name	Rate	Rate Unit	19	20
1	Caparol WeatherMax	32 22	OZ/A OZ/A	0 b	0.0 b
2	Caparol WeatherMax Suprend COC	32 22 1 1	OZ/A OZ/A LB/A % V/V	9 a	2629.6 a
3	Caparol WeatherMax A12474 C COC	32 22 1 1	OZ/A OZ/A LB/A % V/V	9 a	2474.2 a
4	Caparol WeatherMax A12474 D COC	32 22 1 1	OZ/A OZ/A LB/A % V/V	10 a	2780.6 a
5	Caparol WeatherMax Caparol Envoke COC	32 22 32 0.0094 1	OZ/A OZ/A OZ/A LB/A % V/V	8 a	2209.9 a
LSD Star CV Bart P(Ba) (P=.05) ndard Deviatio lett's X2 artlett's X2)	'n		2.6 1.7 24.51 0.774 0.856	762.54 494.90 24.51 0.774 0.856

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

Column 20: TY1 = 290.4*[C19]

Mar-11-08 (C28-07)

University of Georgia

	Evaluating cotton and	d weed response to various Suprem	nd formulations.
Trial ID. C20	07	Study Dir · Stanlay Culpanner	
Inial ID: C20		Investigator: Stanley Culpepper	
LOCALIOII: ALL	apuigus	investigator. Stanley Culpepper	
	GENERAL TRIA	AL INFORMATION	
Study Directo	r: Stanley Culpepper	Title: Ext. Weed	lScience
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed	l 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 o	f LL Corner °:	N-Latitude of LL Corner °:	·
Altitude of L	L Corner: Unit:	Angle y-axis to North °:	·
Directions:			
	COOPERATO	OR/LANDOWNER	
Cooperator:		Country:	
Org:		Phone No:	
Address 1:		Fax No:	
Address 2:			
City:			
State/Prov:			
Postal Code:			
Conducted Unde	er GLP (Y/N): N	Conducted Under GEP (Y/N): N	
Guidelines:	Guideline Des	scription:	
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 Plant	1: GO ing Da	SHI (te: May	COTTON, y-10-07	SHORT	STAPLE Pl	anting	Method	Vari 1: seedi	.ety: DP	555 E	BRR
Rate:	4	ft		Dep	th: 0.5	5 in		Perenni	al Age:		
Row S	pacing	: 36	inch	Spaci	ing With	nin Row	: 4	inch	Seed B	ed: fl	at
Soil	Temper	ature:	84 H	Soil Soil	Moistu	ire: mo	ist	En	ergence	Date:	May-15-07
					SITE AN	D DESI	GN				
Plot	Width,	Unit:	12	FT	Plot I	ength,	Unit:	25	FT 1	Reps:	4
Site	Type:	Atta	apulgus	Resarc	ch Farm						

 Tillage Type: Conventional
 Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

%	Sand:	84	% OM:	1.3
%	silt:	8	pH:	6.0
%	Clay:	8	CEC:	

SOIL DESCRIPTION Texture: loamy sand

Soil Name: Fert. Level: _____ ____

ADDITIONAL M	EASURED ELEMEN	TS
Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: irrigated Closest Weather Station: _____ Distance: ____ Unit: ___

	APPLICATION DESCRIPTION					
		А		в		С
Application Date:	Мау	7-10-07	May	7-28-07	Jun	-24-07
Time of Day:	8:()0 am	9:()0 am	10:	00 am
Application Method:	bro	badcast	bro	padcast	bro	adcast
Application Timing:	PRE	C	2]	Leaf	PD	
Applic. Placement:	on	soil	ove	ertop	dir	ected
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):	Ν		Ν		Ν	
Water Hardness:						
Soil Temp., Unit:	78	F	74	F	88	F
Soil Moisture:	moi	İst	fai	lr	moi	st
% Cloud Cover:	0		0		100	

CROP STAGE AT EACH APPLICATION

	A	В	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

WEED	STAGE	AT	EACH	APPLICATION

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

APPLICATION H	EQUIPMENT
---------------	-----------

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

Trt No	Treatment Application Comment