University of Georgia

Cotton and weed response to Reflex and Caparol applied PRE.										
Tri	al ID: C42	-05			:	Study	Dir.: Stan	ely C	ulpep	per
Loc	Location: Attapulgus (new) Investigator: Stanley Culpepper									
Rep	s: 3	Plots	: 9 by 2	25 feet						
Spra	ıy vol: 14.8 ga	al/ac	Mix siz	e: 1 lite	rs (mir	n .8681	4)			
Trt	Treatment	Form Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By l	Rep
No.	Name	Conc Type	Rate	Unit	Stg	Code	to Measure	1	2	3
1	Non-treated							101	210	302
2	Caparol	4 L	1	lb ai/a	PRE	А	16.89 ml/mx	102	213	309
3	Caparol	4 L	1.25	lb ai/a	PRE	А	21.11 ml/mx	103	211	310
4	Caparol	4 L	1.5	lb ai/a	PRE	А	25.34 ml/mx	104	207	311
5	Reflex	2 L	0.185	lb ai/a	PRE	А	6.249 ml/mx	105	204	308
	Reflex	2 L		lb ai/a			8.445 ml/mx	106	205	314
	Reflex	2 L		lb ai/a			12.5 ml/mx	107	206	305
	Caparol	4 L		lb ai/a			16.89 ml/mx	108	203	301
Ŭ	Reflex	2 L		lb ai/a			6.249 ml/mx		200	001
9	Caparol	4 L		lb ai/a			16.89 ml/mx	109	216	306
_	Reflex	2 L		lb ai/a			8.445 ml/mx			
10	Caparol	4 L	1	lb ai/a	PRE	А	16.89 ml/mx	110	208	316
	Reflex	2 L		lb ai/a			12.5 ml/mx			
11	Caparol	4 L	1.25	lb ai/a	PRE	А	21.11 ml/mx	111	212	313
	Reflex	2 L	0.185	lb ai/a	PRE	Α	6.249 ml/mx			
12	Caparol	4 L	1.25	lb ai/a	PRE	A	21.11 ml/mx	112	202	304
	Reflex	2 L	0.25	lb ai/a	PRE	А	8.445 ml/mx			
13	Caparol	4 L		lb ai/a			21.11 ml/mx	113	214	312
	Reflex	2 L	0.25	lb ai/a	PRE	А	8.445 ml/mx			
14	Cotoran	4 L	1	lb ai/a	PRE	Α	16.89 ml/mx	114	201	307
	Prowl H20	3.8 L	0.93	lb ai/a	PRE	А	16.53 ml/mx			
15	Cotoran	4 L		lb ai/a			25.34 ml/mx	115	209	315
	Prowl H20	3.8 L	0.93	lb ai/a	PRE	А	16.53 ml/mx			
16	Direx	4 L		lb ai/a			16.89 ml/mx	116	215	303
	Prowl H20	3.8 L	0.93	lb ai/a	PRE	А	16.53 ml/mx			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
221.683	ml	Caparol 4 L	
96.907	ml	Reflex 2 L	
52.782	ml	Cotoran 4 L	
62.004	ml	Prowl H20 3.8 L	
21.113	ml	Direx 4 L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Cotton an	d weed response to Reflex and Caparol applied PRE.								
Trial ID: C42-05	Study Dir.: Stanely Culpepper								
Location: Attapulgus (new)	Investigator: Stanley Culpepper								
	Trial Comments								
OBJECTIVE: Evaluate cotton and weed resp	OBJECTIVE: Evaluate cotton and weed response to Caparol and Reflex applied PRE.								
Cotton response: 1) Injury was greater than 5% only when Reflex at 0.37 lb ai/A was applied. 2) By 25 DAT, no real injury was detected.									
,	 Palmer amaranth: All Reflex programs provided excellent control throughout. The data suggest excellent control was also provided by Caparol; however, the very poor grass control offered by Caparol likely impacted these 								
 Texas panicum: 1) Panicum was by far and away the most dominate weed in the trial. 2) Even at only 14 DAT, Caparol provided very poor control regardless of rate. 3) Reflex was far more effective than Caparol applied alone; however, control by Reflex was only fair to good for 23 days with Reflex at or above 0.25 lb ai/A. 4) Mixing Caparol with Reflex improved control very little when Caparol was applied at 1 lb while control was moderately improved with 1.25 lb. 5) Cotoran + Prowl provided excellent control while Direx + Prowl provided good control. 									
 Florida pusley: 1) Pusley was not evaluated at the final rating because grasses were so dense pusley could not be seen. 2) Reflex + Caparol, Direx + Prowl, and Cotoran + Prowl provided excellent control at 23 DAT. 3) Caparol alone provided only 83% with 1.5 lb at 23 DAT. 4) Reflex was more effective than Caparol and excellent control was noted with 0.25 lb ai. 5) Control by both Caparol and Reflex alone are greater than normal because of the Texas panicum shading out the Florida pusley. 									
CONCLUSIONS: 1) Reflex in cotton would be a wonderful as 2) Reflex mixed with Cotoran, Direx, or Prov	set to growers. vl would likely be a better fit for Georgia growers as compared to Caparol + Reflex.								

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Cotton and weed response to Reflex and Caparol applied PRE.								
Trial ID: C42-05		Stu	dy Dir.: S	Stanely Cu	lpepper			
Location: Attapulgus (ne	w)	Invest	tigator: S	Stanley Cu	lpepper			
Weed Code			AMAPA	AMAPA	AMAPA	PANTE	PANTE	PANTE
Crop Code	GOSHI	GOSHI						
Rating Data Type	injury	injury		control		control	control	control
Rating Unit	percent	percent		percent		percent	percent	percent
Rating Date	May-25-05		May-25-05			May-25-05		
Trt-Eval Interval	14 DA-A	23 DA-A	14 DA-A	23 DA-A	44 DA-A	14 DA-A	23 DA-A	44 DA-A
Trt Treatment Rate		0	0		_	0	-	
No. Name Rate Unit	1	2	3	4	5	6	7	8
1 Non-treated	0	0	0	0	0	0	0	0
2 Caparol 1 lb ai/a	0	0	99	90	87	42	45	15
3 Caparol 1.25 lb ai/a	0	0	99	92	90	47	52	15
4 Caparol 1.5 lb ai/a	0	0	99	95	100	48	49	12
5 Reflex 0.185 lb ai/a	0	0	99	99	100	75	72	28
6 Reflex 0.25 lb ai/a	4	0	99	98	100	93	88	57
7 Reflex 0.37 lb ai/a	11	0	99	99	100	96	95	67
8 Caparol 1 lb ai/a	3	0	99	99	100	90	85	37
Reflex 0.185 lb ai/a								
9 Caparol 1 lb ai/a	0	1	99	99	100	95	88	57
Reflex 0.25 lb ai/a								
10 Caparol 1 Ib ai/a	11	0	99	99	100	98	98	82
Reflex 0.37 lb ai/a								
11 Caparol 1.25 lb ai/a	0	0	99	99	100	88	84	46
Reflex 0.185 lb ai/a								
12 Caparol 1.25 lb ai/a	2	4	99	99	100	98	97	70
Reflex 0.25 lb ai/a								
13 Caparol 1.25 lb ai/a	8	3	99	99	100	99	98	87
Reflex 0.25 lb ai/a								
14 Cotoran 1 lb ai/a	0	0	99	99	100	97	95	91
Prowl H20 0.93 lb ai/a								
15 Cotoran 1.5 lb ai/a	0	0	99	99	100	98	94	91
Prowl H20 0.93 lb ai/a								
16 Direx 1 lb ai/a	0	0	99	99	100	94	88	83
Prowl H20 0.93 lb ai/a								
LSD (P=.05)	2.6	2.7	0.3	3.0	2.4	13.1	14.4	18.8
Standard Deviation	1.6	1.6	0.2	1.8	1.4	7.8	8.6	11.3
CV	65.85	339.64	0.21	1.96	1.56	9.97	11.25	21.47

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

\//aa				RCHSC	RCHSC
	ed Code			RCHSC	RCHSC
	o Code ng Data Type			control	control
	ng Unit	;			
	ng Date			percent May-25-05	percent Jun-03-05
	Eval Interval			14 DA-A	23 DA-A
				14 DA-A	23 DA-A
Trt	Treatment	Dete	Rate	0	40
No.	Name	Rate	Unit	9	10
1	Non-treated			0	0
2	Caparol	1	lb ai/a	95	67
3	Caparol	1.25	lb ai/a	99	77
4	Caparol	1.5	lb ai/a	99	83
5	Reflex	0.185	lb ai/a	99	92
6	Reflex	0.25	lb ai/a	99	98
7	Reflex	0.37	lb ai/a	99	99
8	Caparol	1	lb ai/a	99	97
	Reflex	0.185	lb ai/a		
9	Caparol	1	lb ai/a	99	99
	Reflex	0.25	lb ai/a		
10	Caparol	1	lb ai/a	99	99
	Reflex	0.37	lb ai/a		
11		1.25	lb ai/a	99	96
	Reflex	0.185	lb ai/a		
12	Caparol	1.25	lb ai/a	99	99
	Reflex	0.25	lb ai/a		
13	Caparol		lb ai/a	99	99
	Reflex	0.25	lb ai/a		
14	Cotoran	1	lb ai/a	99	99
	Prowl H20	0.93	lb ai/a		
15	Cotoran		lb ai/a	99	99
	Prowl H20	0.93	lb ai/a		
16	Direx	1	lb ai/a	99	99
	Prowl H20	0.93	lb ai/a		
	(P=.05)			1.5	10.9
	dard Deviatio	on		0.9	6.6
CV				0.95	7.49

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

Mar-03-06 (C42-05)

University of Georgia

	Cotton and wee	ed response to Reflex and Caparol ap	oplied PRE.
Trial ID: C42-0	5	Study Dir.: Stanely Culpepper	
Location: Attap	ulgus (new)	Investigator: Stanley Culpepper	
	GENERAL TI	RIAL INFORMATION	
	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	TRIA	AL LOCATION	
City: At	tapulgus	Trial Status:	completed
State/Prov.: GA		Trial Reliability:	excellent
Postal Code:		Initiation Date:	-
Country: US.		Planned Completion Date:	
E-Longitude of 3	LL Corner °:	N-Latitude of LL Corner °:	
Altitude of LL	Corner: Unit	t: Angle y-axis to North °:	
Directions:			
	COOPERA	ATOR/LANDOWNER	
Cooperator:		Country:	
0		Phone No:	
Address 1:			
Address 2:			
City:			
Postal Code:			
Conducted Under	GLP (Y/N): N	Conducted Under GEP (Y/N): N	
Guidelines:	Guideline I	Description:	
Objective:			
Conclusions:			

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	Palmer amaranth	
2.	PANTE	Texas panicum	
3.	RCHSC	Florida pusley	

Crop 1: GOSHI cottonVariety: DP 555 B/RRPlanting Date: May-11-05Planting Method: seeded						
Rate: 3 per ft Dept	h: 0.5 in Perennial Age:					
Row Spacing: 36 inch Spacing	g Within Row: 4 inch Seed Bed: flat					
Soil Temperature: 82 F Soil 3	Moisture: irrigated Emergence Date: May-15-05					
S	ITE AND DESIGN					
Plot Width, Unit: 9 FT	Plot Length, Unit: 25 FT Reps: 3					
Site Type: research station 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:	5.9
% Clay:	8	CEC:	

SOIL DESCRIPTION Texture: loamy sand Soil Name:

Fert. Level:

	ADDITIONAL M	EASURED	ELEMEN	TS
Element		Quant	ity	Unit

	MOISTURE CONDITIONS						
	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

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

APPLICATION DESCRIPTION

	A
Application Date:	May-11-05
Time of Day:	11 am
Application Method:	broadcast
Application Timing:	PRE
Applic. Placement:	on soil
Air Temp., Unit:	82 F
% Relative Humidity:	57
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	84 F
Soil Moisture:	irrigated
% Cloud Cover:	0

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GOSHI PRE
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	AMAPA PRE
Stage Scale:	not up
Density, Unit:	6 ydsq
Weed 2 Code, Stage:	PANTE PRE
Stage Scale:	not up
Stage Scale: Density, Unit:	not up 22 ydsq
	22 ydsq
Density, Unit:	22 ydsq

APPLICATION EQUIPMENT

	APPLICA
	A
Appl. Equipment:	backpack
Operating Pressure:	23
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 in
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