		C	otton res	ponse	to '	Valor appl	ied p	replant fol	llowed	l by I	Reflex	PRE.
Tri	al ID: C28	-08				Study Dir	:.: St	anley Culp	epper			
Loc	ation: Pond	der Far	m 5119		I	-		anley Culp				
Rep	s: 3	F	Plots: 6 by 2	25 feet								
	ay vol: 14.8 ga		•		ers (m	nin .57876)						
Trt	Treatment	Form F				Grow	Appl	Amt Product	Plot N	lo. By l	Rep	
No.	Name	Conc U	nit Type	Rate I	Unit	Stg	Code	to Measure	1	2	3	
1	None Strip Tillage								101	205	306	
2	None No-tillage								102	210	307	
3	Valor Strip Tillage	51	DG	1 (OZ/A	PREPLANT	А	0.506 g/mx	103	206	301	
4	Valor No-tillage	51	DG	1 (OZ/A	PREPLANT	A	0.506 g/mx	104	207	302	
5	Valor Strip Tillage	51	DG	2	OZ/A	PREPLANT	A	1.012 g/mx	105	208	303	
6	Valor No-tillage	51	DG	2 (OZ/A	PREPLANT	A	1.012 g/mx	110	209	304	
7	Valor Reflex Strip Tillage	51 2	DG L			PREPLANT PRE	A B	0.506 g/mx 8.445 ml/mx	106	203	308	
8	Valor Reflex No-tillage	51 2	DG L			PREPLANT PRE	A B	0.506 g/mx 8.445 ml/mx	107	204	309	
9	Valor Reflex Strip Tillage	51 2	DG L			PREPLANT PRE	A B	1.012 g/mx 8.445 ml/mx	108	201	310	
10	Valor Reflex No-tillage	51 2	DG L			PREPLANT PRE	A B	1.012 g/mx 8.445 ml/mx	109	202	305	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
7.590	g	Valor	51	DG	
42.225	ml	Reflex	2	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.

Trial Comments

OBJECTIVE: Determine impact of strip tillage operation on cotton injury from Valor.

Cotton Injury:

- 1. Injury was 10% or less when a strip till operation occurred between Valor application and planting.
- 2. When no tillage operation occurred, Valor at 1 oz caused up to 16% injury while 2 oz caused up to 67% injury.
- 3. The addition of Reflex applied PRE following Valor preplant had little effect.

Crop Response:

- 1. Cotton yields were similar if a strip tillage operation was implemented, regardless of Valor application.
- 2. Cotton yield was reduced when applying Valor at 2 oz in a no-tillage system.

GENERAL COMMENTS:

- 1. Valor applications were made 13 d before planting or 1 d after planting.
- 2. Strip tillage operation and planting occurred at the same time.
- 3. Irrigation was implemented 3 and 6 d after planting
- 4. May 27, June 20, and July 10 Oversprayed with 22 oz. of WMax.
- 5. Trials was maintained weed free.

Cot	ton respon	se to Val	or applie	d preplan	t followed
Trial ID: C28-08		St	udy Dir.:	Stanley	Culpepper
Location: Ponder Farm	5119				Culpepper
Weed Code	INJURY	INJURY			
Crop Code			GOSHI		
Rating Data Type Rating Unit	control %	control %	control %	yield lb/plot	-
Rating Date					Sep-15-08
Trt-Eval Interval	6 DA-B	11 DA-B		131 DA-A	-
ARM Action Codes					TY1
# Subsamples, Dec.					1
Trt Treatment Rate No. Name Rate Unit		2	3	4	5
1 None	0 e	0 d	0 d	4 4 a	1272.9 a
Strip Tillage	00	υü	υü	÷α	1212.0 a
2 None	0 e	0 d	0 d	4 ab	1161.6 ab
No-tillage					
3 Valor 1 OZ/A	2 e	3 cd	0 d	5 a	1412.3 a
Strip Tillage	40.1				1005.0
4 Valor 1 OZ/A No-tillage	16 b	12 bcd	0 d	4 ab	1205.2 ab
5 Valor 2 OZ/A	6 de	10 bcd	7 b	5 a	1383.3 a
Strip Tillage	0 00		10	5 a	1000.0 a
6 Valor 2 OZ/A	67 a	73 a	53 a	3 bc	914.8 bc
No-tillage					
7 Valor 1 OZ/A		11 bcd	1 cd	5 a	1306.8 a
Reflex 1 PT/A	·				
Strip Tillage 8 Valor 1 OZ/A	17 b	18 b	5 bc	4.0	1263.2 a
Reflex 1 PT/A		10 0	5 00	4 a	1203.2 a
No-tillage					
9 Valor 2 OZ/A		16 bc	0 d	4 a	1253.6 a
Reflex 1 PT/A					
Strip Tillage	05 -	70 -	50 -	0 -	007.0
10 Valor 2 OZ/A Reflex 1 PT/A		73 a	53 a	3 c	837.3 c
No-tillage					
LSD (P=.05)	5.7	12.1	4.1	1.0	284.66
Standard Deviation	3.3	7.1	2.4	0.6	
CV	16.92	32.68			
Bartlett's X2 P(Bartlett's X2)	4.803	6.159	3.105 0.376	3.004 0.964	
	0.569	0.521			

Column 5: TY1 = 290.4*[4]

Field Prep./Maintenance:

Jun-12-09 (C28-08)

University of Georgia

	Cotton response t	to Valor applied preplant followed b	by Reflex PRE.
Trial ID: C28-0 Location: Ponde		Study Dir.: Stanley Culpepper Investigator: Stanley Culpepper	
	GENERAL T	RIAL INFORMATION	
Study Director: Affiliation: Postal Code:	Stanley Culpepper Univ. of Georgia	Title: Ext. Weed	Science
Affiliation:	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	TRI	AL LOCATION	
-	795 A LL Corner °:	Trial Status: Trial Reliability: Initiation Date: Planned Completion Date: N-Latitude of LL Corner °: t: Angle y-axis to North °:	good May-07-08
	COODED	ATOR/LANDOWNER	
Address 1: Address 2: City: State/Prov:		Country: Phone No: Fax No:	
	GLP (Y/N): N	Conducted Under GEP (Y/N): N Description:	
Objective:			
Conclusions:			

CROP AND WEED DESCRIPTION

Weed	Code	Comm	non Name	Scientific Name
1.				
Crop	1: 0	GOSHI COTTON,	SHORT STAPLE	Variety: Phytogen 485 WSF

Planting Date	e: May-20-08	Pla	anting Metho	d: seeded	
Rate: 2	8 in	Depth: 0.5	in	Perennial Ag	je:
Row Spacing:	36 in	Spacing Withi	in Row: 8.5	in Seed	Bed: flat
Soil Temperat	ure: 84 F	Soil Moistur	:e: fair	Emerger	nce Date: May-25-08
		SITE ANI	DESIGN		
Plot Width, U	mit: 6	FT Plot Le	ength, Unit:	25 FT	Reps: 3
Site Type:	Ponder Farm				
Tillage Type:	Conventiona	l/StripTil St	udy Design:	SPLIT-PLOT	

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

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

			SOIL DESCRIPTION	N
% Sand: 94	% OM:	1.3	Texture:	sandy loam
% Silt: 2	pH:	5.8	Soil Name:	
% Clay: 4	CEC:		Fert. Level:	

	ADDITIONAL M	IEASURED	ELEMEN	TS
Element		Quant	ity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: Dry (except at planting) Closest Weather Station:

Distance: ____ Unit: ___

		APPLI	CAT	ION DES
		А		В
Application Date:	May	-07-08	May	-21-08
Time of Day:	7:0	0 pm	7:0	0 am
Application Method:	broa	adcast	broa	adcast
Application Timing:	pre	plant	PRE	
Applic. Placement:	on	soil	on	soil
Air Temp., Unit:	87	F	74	F
% Relative Humidity:	47		69	
Wind Velocity, Unit:	3	mph	2	mph
Dew Presence (Y/N):	Ν		N	
Water Hardness:				
Soil Temp., Unit:	91	F	70	F
Soil Moisture:	fai	r	moi	st
% Cloud Cover:	0		100	

CROP STAGE AT EACH APPLICATION

	A	В	
Crop 1 Code, Stage:	GOSHI A	GOSHI B	
Stage Scale:	preplant	PRE	
Height, Unit:	0 inch	0 inch	

WEED STAGE AT EACH APPLICATION

	A	В
Weed 1 Code, Stage:		
Stage Scale:		
Density, Unit:		

	AFFIICATI			
		А		В
Appl. Equipment:	backpack		backpack	
Operating Pressure:	24		24	
Nozzle Type:	flat	fan	flat	fan
Nozzle Size:	11002	2	11002	2
Nozzle Spacing, Unit:	18	in	18	in
Nozzles/Row:	2		2	
Band Width, Unit:				
Boom Length, Unit:	4.5	ft	4.5	ft
Boom Height, Unit:	15	in	15	in
Ground Speed, Unit:	3	mph	3	mph
Incorporation Equip.:				
Hours to Incorp.:				
Incorp. Depth, Unit:				
Carrier:	water		water	
Spray Volume, Unit:	15	GPA	15	GPA
Spray pH:				
Propellant:	C02		C02	
Tank Mix (Y/N):	У		У	

APPLICATION EQUIPMENT

Trt No

Treatment Application Comment