Cotton response to Valor applied preplant followed by Reflex PRE.

Trial ID: C29-08 Study Dir.: Stanley Culpepper Location: Ponder Farm 5119 Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac Mix size: 1 liters (min .57876)

Trt	Treatment	Form	Form	Form			Grow	Appl	Amt Product	Plot N	lo. By l	Rep
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3
1	None Strip Tillage									101	205	307
2	None No-tillage									102	210	306
3	Valor Strip Tillage	51		DG	1	OZ/A	3DPREPLA	Α	0.506 g/mx	103	207	301
4	Valor No-tillage	51		DG	1	OZ/A	3DPREPLA	Α	0.506 g/mx	104	206	302
5	Valor Strip Tillage	51		DG	2	OZ/A	3DPREPLA	Α	1.012 g/mx	105	209	303
6	Valor No-tillage	51		DG	2	OZ/A	3DPREPLA	Α	1.012 g/mx	106	208	304
7	Valor Strip Tillage	51		DG	3	OZ/A	3DPREPLA	Α	1.518 g/mx	107	203	309
8	Valor No-tillage	51		DG	3	OZ/A	3DPREPLA	Α	1.518 g/mx	108	204	308
9	Valor Reflex Strip Tillage	51 2		DG L	_	OZ/A PT/A	3DPREPLA PRE	A B	1.012 g/mx 8.445 ml/mx	109	201	305
10	Valor Reflex No-tillage	51 2		DG L	2 1	OZ/A PT/A	3DPREPLA PRE	A B	1.012 g/mx 8.445 ml/mx	110	202	310

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
10.121	g	Valor	51	DG	
21.113	ml	Reflex	2	L	

^{* &#}x27;Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

Trial Comments

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

Cotton Response:

- 1. At 11 DAP, injury from 1 oz of Valor in strip tillage production caused 8% or less injury.
- 2. At 11 DAP, injury from 2 oz of Valor in strip tillage production caused 23% or less injury.
- 3. At 11 DAP, injury from 1 or 2 oz of Valor in no till production caused 63 to 95% injury.
- 4. Reflex applied PRE after Valor applied preplant did tend to increase injury in this study, especially with 1 oz of Valor in the strip tillage system. Increased Reflex injury in this trial as compared to other studies may be in response to preplant applications of Valor being only 3 d before planting.

Seed Yield:

- 1. All Valor systems in no-tillage production reduced yields.
- 2. In strip till production, Valor at 1 and 2 oz/A did not impact yields.

^{*} Product amount calculations increased 25 % for overage adjustment.

GENERAL COMMENTS:

- 1. Preplant applications were made 3 day before planting and PRE applications were made 1 day after planting.
- 2. Strip tillage operation and planting occurred at the same time.
- 3. Irrigation was implemented 1, 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.

Cotton response to Valor applied preplant followed by Reflex PRE.

Trial ID: C29-08 Study Dir.: Stanley Culpepper
Location: Ponder Farm 5119 Investigator: Stanley Culpepper

Trt Treatment No. Name Rate Unit 1 2 3 4 5 1 None Strip Tillage 0 f 0 e 0 d 9 a 2749. 2 None No-tillage 0 f 0 e 0 d 10 a 2855. 3 Valor No-tillage 1 OZ/A 4 ef 8 e 6 d 10 a 2942. 4 Valor 1 OZ/A 32 c 63 b 60 b 8 a 2216.	I YId OSHI ELD LB 5-08 OA-B TY1 1
1 None 0 f 0 e 0 d 9 a 2749. 2 None 0 f 0 e 0 d 10 a 2855.0 No-tillage 3 Valor 1 OZ/A 4 ef 8 e 6 d 10 a 2942.5 Strip Tillage	
No-tillage 8 e 6 d 10 a 2942. Strip Tillage 8 e 6 d 10 a 2942.	а
Strip Tillage	а
4 Valor 1 OZ/A 32 c 63 b 60 b 8 a 2216	' a
No-tillage	' a
5 Valor 2 OZ/A 8 def 23 d 15 d 10 a 2875.0 Strip Tillage	
6 Valor 2 OZ/A 47 b 95 a 94 a 3 bc 871.: No-tillage	bc
7 Valor 3 OZ/A 18 d 47 c 54 b 8 a 2274.i Strip Tillage	a
8 Valor 3 OZ/A 65 a 98 a 95 a 1 c 290.4 No-tillage	· C
9 Valor 2 OZ/A 15 de 38 c 34 c 9 a 2468. Reflex 1 PT/A Strip Tillage	a
10 Valor 2 OZ/A 67 a 95 a 85 a 4 b 1060.0 Reflex 1 PT/A No-tillage	b
· · · · · · · · · · · · · · · · · · ·	3.27
	5.79
	0.18
	4.97 .092

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

Column 5: TY1 = 290.4*[4]

Jun-12-09 (C29-08) Site Description Page 4 of 6

University of Georgia

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	Cotton response	to Valor applied preplant followed by Reflex PRE.	
Trial ID: C29-0	8	Study Dir.: Stanley Culpepper	
		Investigator: Stanley Culpepper	
Location Fonds			
		TRIAL INFORMATION	
	Stanley Culpepper	Title: Ext. Weed Science	
	Univ. of Georgia		
Postal Code:	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed Science	
Affiliation:	Univ. of Georgia		
Postal Code:			
	mn.	TAL LOGATION	
City: Ty		IAL LOCATION Trial Status: completed	
State/Prov.: GA	=	Trial Reliability: good	
•			
Postal Code: 31		Initiation Date: May-18-08	
Country: US	A	Planned Completion Date:	
		N-Latitude of LL Corner °:	
	Corner: Un	it: Angle y-axis to North °:	
Directions:			
	COOPE	RATOR/LANDOWNER	
Cooperator	COOI 1.	·	
_		<u> </u>	
			
City:			
State/Prov:			
Postal Code:			
Conducted Under	GLP (Y/N): N	Conducted Under GEP (Y/N): N	
		Description:	
Objective:			
Conclusions:			
Weed Code		WEED DESCRIPTION Scientific Name	
	Common Name	SCIENCILLE NAME	
1. .			
Crop 1. COCUT	COTTON, SHORT STAI	PLE Variety: Phytogen 485 WSF	
_	·		
_		Planting Method: seeded (hill drop)	
Rate: 2 8	-		
		Within Row: 8.5 in Seed Bed: flat	
Soil Temperature	e: 84 F Soil Moi	isture: fair Emergence Date: May-25-08	
		E AND DEGLEY	
ma _		E AND DESIGN	
		ot Length, Unit: 25 FT Reps: 3	
Site Type: Po			
Tillage Type: C	onventional/StripTil	l Study Design: SPLIT-PLOT	
Trial Initiation	n Comments:		

MAINTENANCE

Previous Pesticides

Year

Previous Crops

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

SOIL DESCRIPTION

%	Sand:	94	% OM:	1.3	Texture:	sand
%	Silt:	2	pH:	5.8	Soil Name:	
%	Clav:	4	CEC:		Fert. Level:	

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

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

APPLICATION DESCRIPTION

	A	В
Application Date:	May-18-08	May-21-08
Time of Day:	7:00 am	8:00 am
Application Method:	broadcast	broadcast
Application Timing:	3d prepla	PRE
Applic. Placement:	on soil	on soil
Air Temp., Unit:	70 F	77 F
% Relative Humidity:	68	67
Wind Velocity, Unit:	0 mph	2 mph
Dew Presence (Y/N):	N	N
Water Hardness:		
Soil Temp., Unit:	70 F	70 F
Soil Moisture:	moist	moist
% Cloud Cover:	15	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:		

APPLICATION EQUIPMENT

		TITON DOUTIND
	A	В
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
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:	CO2	CO2
Tank Mix (Y/N):	У	У

Trt No	Treatment Application Comment