	V-10137 and V-10139 mixed with Valor at layby in RR cotton.											
Tri	al ID: C21-05				St	udy I	Dir.:	Culpepper				
Loc	ation: Ponder (511	.5)			Inve	estiga	ator:	Stanley Cu	lpepp	er		
Rep	Reps: 3 Plots: 12 by 25 feet											
Spra	Spray vol: 14.8 gal/ac Mix size: 1.5 liters (min 1.1575)											
Trt	Treatment	Form	Form	F	Rate	Grow	Appl	Amt Product	Plot N	o. By	Rep	
No.	Name	Conc	Туре	Rate L	Jnit	Stg	Code	to Measure	1	2	3	
1	Non-treated								101	208	302	
2	Valor SX	51	WDG	2 0	oz/a	9 in	А	1.518 g/mx	102	204	306	
	Roundup OriginalMax	4.5	L	22 o	oz/a	9 in	А	17.42 ml/mx				
3	Valor SX		WDG	2 o	oz/a	9 in	А	1.518 g/mx	103	207	309	
	Select (High Flash)	2	EC	8 o		9 in	А	6.334 ml/mx				
	COC		L	1 p	ot/a	9 in	А	12.67 ml/mx				
4	Valor SX		WDG	2 o		9 in	А	1.518 g/mx	104	206	304	
	V-10137	1	EC	16 o	oz/a	9 in	А	12.67 ml/mx				
5	Valor SX		WDG	2 o		9 in	А	1.518 g/mx	105	203	308	
	V-10139	1.6	EC			9 in	А	6.334 ml/mx				
	NIS		L	0.25 %	% v/v	9 in	А	3.75 ml/mx				
6	Valor SX	51	WDG	2 o	oz/a	15 in	В	1.518 g/mx	106	202	305	
	Roundup OriginalMax	4.5	L	22 o	oz/a	15 in	В	17.42 ml/mx				
7	Valor SX	51	WDG	2 o	oz/a	15 in	В	1.518 g/mx	107	209	301	
	Select (High Flash)	2	EC	8 o		15 in	-	6.334 ml/mx				
	COC		L	1 p	ot/a	15 in	В	12.67 ml/mx				
8	Valor SX		WDG	2 o		15 in	-	1.518 g/mx	108	201	303	
	V-10137	1	EC	16 o	oz/a	15 in	В	12.67 ml/mx				
9	Valor SX	51	WDG	2 0	oz/a	15 in	В	1.518 g/mx	109	205	307	
	V-10139	1.6	EC	8 o		15 in	-	6.334 ml/mx				
	NIS		L	0.25 %	% v/v	15 in	В	3.75 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
15.181	g	Valor SX 51 WDG	
43.550	ml	Roundup OriginalMax 4.5 L	
15.836	ml	Select (High Flash) 2 EC	
31.669	ml	COC L	
31.672	ml	V-10137 1 EC	
15.836	ml	V-10139 1.6 EC	
9.374	ml	NIS L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).

Product amount calculations increased 25 % for overage adjustment.

'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

Trial Comments

OBJECTIVE: Determine crop and grass response to Valor mixed with glyphosate or several clethodim mixtures.

COTTON VISUAL RESPONSE:

1. Cotton was fairly tough with some bark already showing at the 9 inch application timing.

2. Cotton injury by Valor mixed with glyphosate was much less than by Valor mixed with clethodim mixtures; there was less injury by Valor plus

V-10139 than by Valor plus V-10137 or Select + COC at two evaluation dates.

3. Cotton was much more tolerant at the second application timing as cotton had 3 or more inches of bark. Injury at this timing was 10% or less by all treatments but again there were trends for less injury by glyphosate + Valor than with Valor plus clethodim mixtures.

TEXAS PANICUM CONTROL:

- 1. Control by all mixtures within an application timing was essentially similar.
- 2. Grass was actually larger at the first application timing than the second because of the early POST herbicide selection (see general comments).

SEED COTTON YIELD:

1. Cotton yield followed trends noted with injury with lowest yields noted with clethodim/Valor mixtures applied to 9 inch cotton.

GENERAL COMMENTS:

- 1. Telone II was applied preplant over the trial area.
- 2. April 28: Applied Staple plus Reflex over the trial area.
- 3. May 24: Treatments 2-5 were treated with Staple + NIS while treatments 6-10 were treated with WeatherMax.

University of Georgia V-10137 and V-10139 mixed with Valor at layby in RR cotton.

	Trial ID: C21-05 Study Dir.: Culpepper										
Loc	Location: Ponder (5115) Investigator: Stanley Culpepper										
	ed Code						PANTE	PANTE	PANTE	PANTE	SEED YLD
	p Code			GOSHI	GOSHI	GOSHI				۱ ۱	GOSHI
	ing Data Type			injury	injury	injury	control	control	control	control	wt
	ing Unit			percent				percent	percent		
	ing Date				Jun-22-05					Sep-06-05	
	Eval Interval			8 DA-A	16 DA-A	35 DA-A	8 DA-A	16 DA-A	35 DA-A	92 DA-A	107 DA-A
	M Action Codes			۹ k	1	1	۱ ۱	1		۱ ۱	1
	ubsamples, Dec.		Deti	┞────┧	ب ا	۱ ا	ιι	۱ ا	ļ	ιί	·
	Treatment	Data	Rate	1		· ·	4	_	e	7	0
		Rate	Unit	1	2	3	4	5	6	7	8
	Non-treated			0	0	0	0	0	0	0	0
2	Valor SX		oz/a	9	6	2	90	97	94	89	11
<u> </u>	Roundup OriginalMax		oz/a	٩ـــــــــــــــــــــــــــــــــ	۱	<u>ا</u>	۱		<u> </u>	٩	<u>ا</u>
3	Valor SX		oz/a	33	32	40	96	97	92	79	7
1	Select (High Flash)	-	oz/a	۹ k	1	1	۱ ۱	1		۱ ۱	1
┣—	COC		pt/a	اا	<u>ا</u>	L	اـــــــــــــــــــــــــــــــــــــ	L		۱	
4	Valor SX		oz/a	27	27	31	93	97	97	85	8
┣—	V-10137		oz/a	٩ه	۱	۱ <u> </u>	۱	L	<u> </u>	۱	1
5	Valor SX		oz/a	24	23	23	95	98	87	80	9
l	V-10139	-	oz/a	y k		1	y k	1	1	۱ I	1
┣—	NIS		% v/v		۱	L	۱		ļ	ļi	
6	Valor SX		oz/a	0	1	1	75	96	93	97	11
<u> </u>	Roundup OriginalMax		oz/a	ا ا	<u>ا</u>	<u>ا</u>	۱		۱ <u> </u>	ļi	
7	Valor SX		oz/a	0	11	9	77	97	99	99	9
I	Select (High Flash)		oz/a	y k		1	y k	1	1	۱ I	1
<u> </u>	COC		pt/a	۹ه	<u>ا</u>	L	۱۱		<u>ا</u>	اـــــــــــــــــــــــــــــــــــــ	L
8	Valor SX		oz/a	0	8	10	75	95	99	99	11
<u> </u>	V-10137		oz/a	٩ ١		1	۱ <u> </u> ۱	1	۱ <u> </u>	۱	
9	Valor SX		oz/a	0	4	4	75	98	99	99	12
[V-10139	-	oz/a	y k		1	y k	1	1	۱ I	1
	NIS	0.25	% v/v								
	D (P=.05)			7.3	9.1	7.1	5.3	2.9	10.6	14.2	2.4
	ndard Deviation			4.2	5.3	4.1	3.1	1.7	6.1	8.2	1.4
CV				40.73	42.67	30.84	4.08	1.97	7.22	10.13	15.89

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

Crop Rati Rati Rati Trt-E ARM	ed Code o Code ng Data Type ng Unit ng Date Eval Interval A Action Codes ubsamples, Dec. Treatment		Rate	SEED YLD GOSHI wt Ib/A Sep-21-05 107 DA-A TY1 1
	Name	Rate		9
1	Non-treated			0.0
2	Valor SX Roundup OriginalMax	_	oz/a oz/a	3153.7
3	Valor SX Select (High Flash) COC	8	oz/a oz/a pt/a	2162.5
4	Valor SX V-10137		oz/a oz/a	2389.0
5	Valor SX V-10139 NIS	8	oz/a oz/a % v/v	2476.1
6	Valor SX Roundup OriginalMax	_	oz/a oz/a	3269.9
7	Valor SX Select (High Flash) COC	8	oz/a oz/a pt/a	2658.1
8	Valor SX V-10137		oz/a oz/a	3289.3
9	Valor SX V-10139 NIS	8	oz/a oz/a % v/v	3434.5
	(P=.05) ndard Deviation			697.92 403.19 15.89

Means followed by same letter do not significantly differ (P=.05, LSD) Column 9: TY1 = 290.4*[C8] Mar-03-06 (C21-05)

University of Georgia

	V-10137 and	V-10139 mixed with Valor at layby in	RR cotton.
Trial ID: C21-0 Location: Ponde		Study Dir.: Culpepper Investigator: Stanley Culpepper	
Affiliation:	GENERAL Stanley Culpepper Univ. of Georgia 31794	TRIAL INFORMATION Title: Ext. Weed	Science
	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	ΨE	IAL LOCATION	
	Ty 794 A LL Corner °:		
-	COOPE	_1	
Address 2: City: State/Prov: Postal Code: Conducted Under	GLP (Y/N): N	Conducted Under GEP (Y/N): N	
Guidelines: Objective:	Guideline	Description:	
Conclusions:			
	CROP AND	WEED DESCRIPTION	
Weed Code Com	mon Name	Scientific Name	
1.PANTETexa		SCICINGITIC MANC	
Rate: 2 8 Row Spacing: 36	Apr-28-05 inch Depth: inch Spacing	Variety: DP 555 E Planting Method: conventional 0.5 in Perennial Age: Within Row: 0. Seed Bed: be isture: moist Emergence Date:	edded
Plot Width, Unit Site Type: re Tillage Type: co	t: 12 FT Pl esearch station	E AND DESIGN ot Length, Unit: 25 FT Reps: Study Design: RANDOMIZED COMPLETE	
Trial Initiation	n Comments:		

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

		SOIL DESCRIPTION
% Sand: 94	% OM: 1.3	Texture: sand
% Silt: 2	pH: 5.9	Soil Name: Tifton sandy loam
% Clay: 4	CEC:	Fert. Level:

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

			N	IOISTU	JRE CONDITIONS		
	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions: excellent conditions throughout the crop Closest Weather Station: _____ Distance: ____ Unit: __

		APPLI	CAT	TION DES
		А		в
Application Date:	Jun-	07-05	Jur	n-16-05
Time of Day:	1 pm	Ļ	6 g	om
Application Method:	broa	dcast	bro	badcast
Application Timing:	8 in	PD	16	in PD
Applic. Placement:	dire	cted	diı	rected
Air Temp., Unit:	88	F	96	F
% Relative Humidity:	59		64	
Wind Velocity, Unit:	2	mph	3	mph
Dew Presence (Y/N):	n		n	
Water Hardness:				
Soil Temp., Unit:	91	F	92	F
Soil Moisture:	mois	t	mo	ist
% Cloud Cover:	0		0	

CROP STAGE AT EACH APPLICATION

	A	В		
Crop 1 Code, Stage:	GOSHI 9 in PD	GOSHI 16 in PD		
Stage Scale:	8 leaf	11 leaf		
Height, Unit:	9.5 inch	16 inch		

WEED STAGE AT EACH APPLICATION

	A	В	
Weed 1 Code, Stage:	PANTE 9 in PD	PANTE 15 in PD	
Stage Scale:	5-8 inch	2-6 inch	
Density, Unit:	12 ydsq	8 ydsq	

	AFFEICATION			
		А		В
Appl. Equipment:	backpack		backpack	
Operating Pressure:	18		18	
Nozzle Type:	flat	fan	flat	fan
Nozzle Size:	11002	2	11002	2
Nozzle Spacing, Unit:	12	inch	12	inch
Nozzles/Row:	3		3	
Band Width, Unit:				
Boom Length, Unit:	24	inch	24	inch
Boom Height, Unit:	12	inch	12	inch
Ground Speed, Unit:	3	mph	3	mph
Incorporation Equip.:				
Hours to Incorp.:				
Incorp. Depth, Unit:				
Carrier:	water	r	wate	r
Spray Volume, Unit:	14.8	GPA	14.8	GPA
Spray pH:				
Propellant:	CO2		C02	
Tank Mix (Y/N):	Y		Y	

APPLICATION EQUIPMENT

Trt No

Treatment Application Comment