Mar-03-06 (C17-05)

University of Georgia

			1.11	ung c	DI FII	st Appi	icati	on in RR FI	Lex Co	otton	
Tri	al ID: C17-05				Stu	udy Dir.	: Sta	anley Culpe	pper		
Loc	ation: Ponder Farm				Inves	stigator	: Sta	anley Culpe	pper		
Rep	s: 3 Plo	ots: 12	by 25	feet							
Spra	ay vol: 15 gal/ac	Mix s	size: 1.	.5 liters	s (min 1	.1732)					
Trt	Treatment	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	o. By l	Rep
No.	Name	Conc	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3
1	No PRE								102	204	305
	No Roundup										
2	No PRE								104	201	302
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 0	В	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 3	Е	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 5	G	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 7		21.88 ml/mx			
3	No PRE								105	202	304
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 1	С	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 3	Е	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 5	G	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 7		21.88 ml/mx			
4	No PRE								103	205	303
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 2	D	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 4	F	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 5	G	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 6	Н	21.88 ml/mx			
5	No PRE								101	203	301
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 3	Е	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 5	G	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 7		21.88 ml/mx			
6	Prowl	3.3	EC	2.4	pt/a	PRE	А	30.0 ml/mx	110	207	309
	No Roundup										
7	Prowl	3.3	EC	2.4	pt/a	PRE	А	30.0 ml/mx	107	208	310
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 0	В	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 3	E	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	tl oz/a	POST 5	G	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	tl oz/a	POST 7	I	21.88 ml/mx			
8	Prowl	3.3	EC	2.4	pt/a	PRE	A	30.0 ml/mx	108	209	307
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 1	C	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	tl oz/a	POST 3	F	21.88 ml/mx			
	Roundup Weathermax	4.5	L	28	TI OZ/A	PUSI 5	G	21.88 ml/mx			
-	Roundup weathermax	4.5		28	n oz/a	FUSI /	1	21.00 ml/mx	4.0.0	010	
9	Prowl	3.3	EC	2.4	pt/a	PRE	A	30.0 ml/mx	106	210	306
	Roundup Weathermax	4.5	L	28	fl oz/a	POST 2	D F	21.88 ml/mx			
	Roundup Weathermax	4.5	L 1	28	11 OZ/A	PUSI 4	г С	∠1.88 ml/mx			
	Roundup Weathermax	4.5 1 F	L 1	28	II UZ/A	PUSI 5	ы С	21.88 ml/mX			
4.0		4.3	<u> </u>	20	ii uz/a	PDF		21.00 III/IIX	400	000	000
10	Prowi Doubdup Weatharres	3.3	EC	2.4	pt/a	PKE	A F	30.0 ml/mx	109	206	308
	Roundup Weathermax	4.5	L 1	28	11 OZ/A	POST 3		∠1.88 ml/mx			
	Roundup Weathermax	4.5 1 F	L I	∠ຽ ວ໑	fl oz/a	PUSI 5	G I	∠ 1.00 III/INX			
	Roundup weathermax	4.3	L	20	11 UZ/d	rusi /	I	∠1.00 IIII/IIIX			

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
820.314	ml	Roundup Weathermax 4.5 L	
187.480	ml	Prowl 3.3 EC	

Reps: 3Plots: 12 by 25 feetSpray vol: 15 gal/acMix size: 1.5 liters (min 1.1732)							
Trt Tr> Form Form Plot No. By Rep No. N> Conc Type							
Product quantities required for listed treatments and applications in one trial:							
Amount* Unit Treatment Name Lot Code							
* 'Per area' calculations based on spray volume= 15 gal/ac, mix size= 1.5 liters (mix size basis). * Product amount calculations increased 25 % for overage adjustment.							
Trial Comments							
OBJECTIVE: Determine when the initial glyphosate application should be applied in RR Flex Cotton.							
WEED RESPONSE: Texas Panicum and Palmer Amaranth: 1. Excellent control was noted after glyphosate applications were initiated.							
Seed cotton yields: 1. Yields were over 4000 lb/A when glyphosate was initiated at the 0.5 leaf stage following no PRE or when glyphosate was initiated at the 0.5 or 2.5 leaf stage when following Prowl PRE. 2. Yields were significantly reduced in the no PRE system when glyphosate was initiated at the 4.5 leaf stage, although trends for less yield were noted when waiting only to the 2.5 leaf stage. 3. Yields were significantly reduce in the PRE system when glyphosate was initiated at the 4.5 leaf stage.							

		Tin	ning of Fi	rst Appli	cation in	1 RR Flex	Cotton
Trial ID: C17-05 Location: Ponder Farm			St Inve	udy Dir.: stigator:	Stanley Stanley	Culpeppe: Culpeppe:	r
Weed Code Crop Code			AMAPA	PANTE	GOSHI	GOSHI	
Rating Data Type Rating Unit			control percent	control percent	seed yld lb/plot	seed yld Ib/A	
Rating Date			Aug-31-05	Aug-31-05	Oct-15-05	Oct-15-05	
# Subsamples. Dec.						1	
Trt Treatment		Rate					
No. Name	Rate	Unit	1	2	3	4	
1 No PRE No Roundup			0	0	0	0.0	
2 No PRE			100	100	14	4148.8	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28 28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
3 No PRE	_		100	100	13	3792.6	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
	28	n oz/a	100	100	10	2400 7	
4 NO PRE Roundun Weatherman	28	fl oz/a	100	100	12	3488.7	
Roundup Weathermax	20	fl oz/a					
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
5 No PRE			100	100	10	2966.0	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
6 Prowl	2.4	pt/a	70	43	3	752.1	
	2.4	nt/o	100	100	15	4202.4	
7 FIOWI Roundun Weathermax	2.4 28	pva fl oz/a	100	100	15	4292.1	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
8 Prowl	2.4	pt/a	100	100	15	4237.9	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28 28	TI OZ/A					
	20	nt/a	100	100	12	3507 1	
Roundup Weathermax	2.4	fl oz/a	100	100	14	0007.1	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
10 Prowl	2.4	pt/a	100	100	11	3278.6	
Roundup Weathermax	28	fl oz/a					
Roundup Weathermax	28	fl oz/a					
	28	ii oz/a			. –	F 00 16	
LSD (P=.05) Standard Doviation			5.4	4.1	1.7	506.13	
CV			3.2 3.63	2.4 2.86	0.1 83 P	295.04 9.68	
U V			3.03	2.00	9.00	9.00	l de la constante de la consta

Weed Code	AMAPA	PANTE		
Crop Code			GOSHI	GOSHI
Rating Data Type	control	control	seed yld	seed yld
Rating Unit	percent	percent	lb/plot	lb/A
Rating Date	Aug-31-05	Aug-31-05	Oct-15-05	Oct-15-05
ARM Action Codes				TY1
# Subsamples, Dec.				1
Means followed by same letter do not sign	nificantly diff	er (P=.05, L	.SD)	
Column 4. TV(4				

Column 4: TY1 = 290.4*[C3]

Mar-03-06 (C17-05)

University of Georgia

	Timing	of First Application in RR Flex Cot	ton
Trial ID: C17-0	5	Study Dir.: Stanley Culpepper	
Location: Ponde	r Farm	Investigator: Stanley Culpepper	
	GENERAL TH	RIAL INFORMATION	
Study Director: Affiliation: Postal Code:	Alan York Univ. of Georgia 31794	Title: Ext. Weed	Science
Investigator: Affiliation: Postal Code:	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	TRIA	AL LOCATION	
City: Ty	Ту	Trial Status:	completed
State/Prov.: GA		Trial Reliability:	
Postal Code: 31	794	Initiation Date:	
Country: US	A	Planned Completion Date:	
E-Longitude of	LL Corner °:	N-Latitude of LL Corner °:	
Altitude of LL	Corner: Unit	Angle y-axis to North °:	
Directions:			
	COOPERA	ATOR/LANDOWNER	
Cooperator:		Country:	
Org:		Phone No:	
Address 1:		Fax No:	
Address 2:			
City:			
State/Prov:			
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	

Crop 1: GOSHI cotton Planting Date: Apr-28-05	Planting Method	Variety: RR/BG2 Flex Cotton : hill drop					
Rate: 2 8 inch	Depth: 0.5 in	Perennial Age:					
Row Spacing: 36 inch	Spacing Within Row:	Seed Bed: bedded					
Soil Temperature: 72 F	Soil Moisture: irrigated	Emergence Date: May-03-05					
SITE AND DESIGN							
Plot Width, Unit: 12 F	T Plot Length, Unit:	25 FT Reps: 3					
Site Type: Research sta	Site Type: Research station						
Tillage Type: no tillage a	after plan Study Design:	SPLIT-PLOT					
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:	94	% OM:	1.1
%	silt:	2	pH:	6.1
%	Clay:	4	CEC:	

SOIL DESCRIPTION Texture: sand Soil Name: Tifton sandy loam Fert. Level:

ADDITIONAL M	IEASURED ELEMEN	TS
Element	Quantity	Unit

	MOISTURE CONDITIONS									
	Date	Time	Amount	Unit	Туре	Interval	Unit			
1.	ľ									

Overall Moisture Conditions: wet

Closest Weather Station: _____ Distance: ____ Unit: ___

APPLICATION DESCRIPTION

		А		в		C		D		E		F		G		н
Application Date:	Apr-	28-05	May-	07-05	May-	17-05	May-	24-05	Jun-	02-05	Jun-	06-05	Jun-	13-05	Jun-	17-05
Time of Day:	3 pm	l	9 am	l	9 am	l	12 pi	m	8 am		5 pm		8 am		11 a	ım
Application Method:	broa	dcast	broa	dcast	broa	dcast	broa	dcast	broa	dcast	broa	dcast	broa	dcast	broa	adcast
Application Timing:	PRE		POST	0	POST	' 1	POST	2	POST	3	POST	4	POST	5	POST	5
Applic. Placement:	on s	oil	over	top	over	top	over	top	over	top	over	top	over	top	over	top
Air Temp., Unit:	78	F	74	F	78	F	80	F	80	F	87	F	82	F	87	F
% Relative Humidity:	46		62		60		48		76		44		64		66	
Wind Velocity, Unit:	3	mph	3	mph	0	mph	2	mph	2	mph	3	mph	3	mph	0	mph
Dew Presence (Y/N):	n		У		n		n		У		n		n		n	
Water Hardness:																
Soil Temp., Unit:	72	F	71	F	75	F	79	F	75	F	89	F	80	F	85	F
Soil Moisture:	mois	t	mois	t	mois	t	fair		wet		mois	t	wet		mois	st
% Cloud Cover:	0		0		0		0		100		0		40		40	
		I														
Application Date:	Jun-	23-05														
Time of Day:	8 am	l														
Application Method:	broa	dcast														
Application Timing:	POST	' 7														
Applic. Placement:	over	top														
Air Temp., Unit:	71	F														
% Relative Humidity:	64															
Wind Velocity, Unit:	2	mph														
Dew Presence (Y/N):	n															
Water Hardness:																
Soil Temp., Unit:	72	F														
Soil Moisture:	mois	t														
% Cloud Cover:	0															

CROP STAGE AT EACH APPLICATION

	A	В	С	D	Е
Crop 1 Code, Stage:	GOSHI PRE	GOSHI POST 0	GOSHI POST 1	GOSHI POST 2	GOSHI POST 3
Stage Scale:	not up	0.5 leaf	2.5 leaf	4.5 leaf	6.5 leaf
Height, Unit:	0 inch	0.75 inch	2.5 inch	7 inch	10 inch
	F	G	Н	I	
Crop 1 Code, Stage:	GOSHI POST 4	GOSHI POST 5	GOSHI POST 6	GOSHI POST 7	
Stage Scale:	7.5 leaf	10 leaf	11 leaf	13 leaf	
Height, Unit:	12 inch	16 inch	19 inch	24 inch	

WEED STAGE AT EACH APPLICATION

	А	В	C	D	Е
Weed 1 Code, Stage:	AMAPA PRE	AMAPA POST 0	AMAPA POST 1	AMAPA POST 2	AMAPA POST 3
Stage Scale:	not up	<0.75 in	< 3 inch	4-8 inch	6-10 inch
Density, Unit:		7 ydsq			
Weed 2 Code, Stage:	PANTE PRE	PANTE POST 0	PANTE POST 1	PANTE POST 2	pante post 3
Stage Scale:	not up	<0.75 in	< 3 inch	4-6 inch	6-10 inch
Density, Unit:		25 ydsq			
	F	G	Н	I	
Weed 1 Code, Stage:	AMAPA POST 4	AMAPA POST 5	AMAPA POST 6	AMAPA POST 7	
Stage Scale:	new < 2in	new < 4in	new < 4in	new < 4in	
Density, Unit:					
Weed 2 Code, Stage:	PANTE POST 4	PANTE POST 5	PANTE POST 6	PANTE POST 7	
Stage Scale:	new < 2in	new < 4in	new < 4in	new < 4in	
Density, Unit:					

APPLICATION EQUIPMENT

		A		В		С		D		Е		F
Appl. Equipment:	back	pack	back	pack	back	pack	back	pack	back	pack	back	pack
Operating Pressure:	23		23		23		23		23		23	
Nozzle Type:	flat	fan	flat	fan	flat	fan	flat	fan	flat	fan	flat	fan
Nozzle Size:	11002	2	1100	2	1100	2	1100	2	1100	2	1100	2
Nozzle Spacing, Unit:	18	inch	18	inch	18	inch	18	inch	18	inch	18	inch
Nozzles/Row:	2		2		2		2		2		2	
Band Width, Unit:												
Boom Length, Unit:	4.5	feet	4.5	feet	4.5	feet	4.5	feet	4.5	feet	4.5	feet
Boom Height, Unit:	15	inch	15	inch	15	inch	15	inch	15	inch	15	inch
Ground Speed, Unit:	3	mph	3	mph	3	mph	3	mph	3	mph	3	mph
Incorporation Equip.:												
Hours to Incorp.:												
Incorp. Depth, Unit:												
Carrier:	wate	r	wate	r	wate	r	wate	r	wate	r	wate	r
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA	15	GPA	15	GPA	15	GPA
Spray pH:												
Propellant:	CO2		CO2		CO2		CO2		CO2		CO2	
Tank Mix (Y/N):	Y		Y		Y		Y		Y		Y	

					-	
		G		н		I
Appl. Equipment:	back	pack	back	pack	back	pack
Operating Pressure:	23		23		23	
Nozzle Type:	flat	fan	flat	fan	flat	fan
Nozzle Size:	11002	2	1100	2	1100	2
Nozzle Spacing, Unit:	18	inch	18	inch	18	inch
Nozzles/Row:	2		2		2	
Band Width, Unit:						
Boom Length, Unit:	4.5	feet	4.5	feet	4.5	feet
Boom Height, Unit:	15	inch	15	inch	15	inch
Ground Speed, Unit:	3	mph	3	mph	3	mph
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	wate	r	wate	r	wate	r
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA
Spray pH:						
Propellant:	C02		C02		C02	
Tank Mix (Y/N):	Y		Y		Y	

Trt No

Treatment Application Comment

Site Description Page 8 of 8