Mar-03-06 (C24-05)

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				Her	bicide	e tole	erance	e for Roundu	ıp Rea	ady F	lex c	otton	
Tri Loc	al ID: C24- ation: Pond	05 er				S Inv	tudy I estiga	Dir.: Culpe ator: Stanl	pper ey Cui	lpepp	er		
Rep	s: 4		Plots:	12 by 3	30 feet								
Spra	ay vol: 14.8 gal	/ac	Ν	Mix size	: 2 liters	s (min	1.852)						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot N 1	o. By F 2	Rep 3	4	
1	No Roundup PHY425RF								101	206	308	408	
2	No Roundup PHY475WRF								102	204	305	403	
3	No Roundup PHY485WRF								105	203	301	406	
4	No Roundup Monsanto V.								106	205	302	402	
5	WeatherMax WeatherMax WeatherMax WeatherMax PHY425RF	4.5 4.5 4.5 4.5	L L L	1.125 1.125 1.125 1.125 1.125	lb ai/a lb ai/a lb ai/a lb ai/a	2 lf 6 lf 10 lf 14 lf	A B C D	33.78 ml/mx 33.78 ml/mx 33.78 ml/mx 33.78 ml/mx	103	208	306	407	
6	WeatherMax WeatherMax WeatherMax WeatherMax PHY475WRF	4.5 4.5 4.5 4.5	L L L	1.125 1.125 1.125 1.125 1.125	lb ai/a lb ai/a lb ai/a lb ai/a	2 lf 6 lf 10 lf 14 lf	A B C D	33.78 ml/mx 33.78 ml/mx 33.78 ml/mx 33.78 ml/mx	104	202	307	404	
7	WeatherMax WeatherMax WeatherMax WeatherMax PHY485WRF	4.5 4.5 4.5 4.5	L L L	1.125 1.125 1.125 1.125 1.125	lb ai/a lb ai/a lb ai/a lb ai/a	2 lf 6 lf 10 lf 14 lf	A B C D	33.78 ml/mx 33.78 ml/mx 33.78 ml/mx 33.78 ml/mx	107	201	303	405	
8	WeatherMax WeatherMax WeatherMax WeatherMax Monsanto V.	4.5 4.5 4.5 4.5	L L L	1.125 1.125 1.125 1.125 1.125	lb ai/a lb ai/a lb ai/a lb ai/a	2 lf 6 lf 10 lf 14 lf	A B C D	33.78 ml/mx 33.78 ml/mx 33.78 ml/mx 33.78 ml/mx	108	207	304	401	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
675.604	ml	WeatherMax 4.5 L	

'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).
 Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Compare stand counts, yield, and cotton boll set of several RR Flex cultivars treated and not treated with glyphosate.

Results (main effects were significant and are reported):

Stand Count:

1. PHY475WFR was slow to emerged compared to other cultivars.

2. By 11 or 22 DAP, no differences in stand was noted.

Fiber Samples:

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1. 25 bolls per plot were sampled and weighed.

2. No differences in boll sample weights were noted.

Field seed yield:

1. Pooled over herbicide programs, yield from the "Monsanto V." was less than that of all other cultivars.

Total seed yield (contains plot yield and fiber samples):

1. Pooled over herbicide programs, yield from the "Monsanto V." was less than that of all other cultivars.

Plant Mapping:

1. 10 plants per plot have been mapped. Data is not reported.

GENERAL COMMENTS:

1. May 1: Prowl + Cotoran applied PRE over the trial to minimize weed emergence.

- 2. May 24: Select + Crop Oil applied topically over entire trial area.
- 3. June 24: Direx + MSMA applied as a directed spray over the entire trial area.

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	Herbicide	tolerance	e for Round	up Ready	Flex cotto	on		
Trial ID: C24-05		Study I	Dir.: Culpe	epper				
Location: Ponder		Investiga	ator: Stanl	ley Culpep	per			
Weed Code						Seed	Total	Total
Crop Code	GOSHI	GOSHI	GOSHI	25 boll	25 boll	Yield	Seed	Seed
Rating Data Type	stand count	stand count	stand count	sample	sample	lb	Yld	Yld
Rating Unit	#/20ft	#/20ft	#/20ft	lbs	lbs	plot	lb/plot	lb/A
Rating Date	May-06-05	May-09-05	May-20-05	Sep-23-05	Sep-23-05	Sep-21-05	Sep-21-05	Sep-21-05
Trt-Eval Interval	-10 DA-A	-7 DA-A	4 DA-A	130 DA-A	130 DA-A	128 DA-A	128 DA-A	128 DA-A
ARM Action Codes					T1		12	TY3
# Subsamples, Dec.					3		1	1
Trt Treatment Rate				_	_			
No. Name Rate Unit	1	2	3	4	5	6	7	8
1 No Roundup PHY425RF	14	38	59	0	0.173	16	16.0	3879.9
2 No Roundup PHY475WRF	4	32	56	0	0.179	16	15.7	3803.9
3 No Roundup PHY485WRF	11	34	56	0	0.170	16	16.3	3938.6
4 No Roundup Monsanto V.	7	37	56	0	0.178	15	15.0	3635.4
5 WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a PHY425RF	12	36	60	0	0.176	17	16.7	4046.5
6 WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a PHY475WRF	5	34	49	0	0.181	15	15.7	3792.4
7 WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a PHY485WRF	10	34	54	0	0.174	16	15.7	3801.5
8 WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a WeatherMax 1.125 lb ai/a Monsanto V.	11	41	56	0	0.184	14	14.1	3422.8
LSD (P=.05)	8.3	7.2	11.9	0.0	0.0343	1.5	1.50	363.86
Standard Deviation	5.6	4.9	8.1	0.0	0.0233	1.0	1.02	247.39
CV	61.61	13.79	14.59	13.2	13.2	6.54	6.53	6.53

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

Column 5: T1 = [C4]+0 Column 7: T2 = [C5]+[C6]

Column 8: TY3 = 242.0*[7]

Mar-03-06 (C24-05)

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	Herbicide	e tolerance for Roundup Ready Flex o	cotton
Trial ID: C24-0)5	Study Dir.: Culpepper	
Location: Ponde	er	Investigator: Stanley Culpepper	
	GENERAL T	RIAL INFORMATION	
Study Director:	Stanley Culpepper	Title: Ext. Weed	Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed	Science
Affiliation:	Univ. of Georgia		
Postal Code:	31794		
	TRI	AL LOCATION	
City: Ty	rТу	Trial Status:	completed
State/Prov.: GA	7	Trial Reliability:	excellent
Postal Code: 31	.794	Initiation Date:	Apr-19-05
Country: 94	Ł	Planned Completion Date:	
E-Longitude of	LL Corner °:	N-Latitude of LL Corner °:	
Altitude of LL	Corner: Uni	t: Angle y-axis to North °:	
Directions:			
		ATOR / LANDOWNER	
	COOPER		
Cooperator:	COOPER	Country:	
Cooperator: Org:	COOPER	Country: Phone No:	
Cooperator: Org: Address 1:	COOPER	Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2:	COOPER	Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City:	COOPER	Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code:	COOPER	Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under	COOPER	Conducted Under GEP (Y/N): N	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under Guidelines:	COOPER	Conducted Under GEP (Y/N): N Description:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under Guidelines: Objective:	COOPER	Conducted Under GEP (Y/N): N Description:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under Guidelines: Objective: Conclusions:	COOPER	Conducted Under GEP (Y/N): N Description:	

		CROP AND WEED DES	SCRIPTION
Weed	Code	Common Name	Scientific Name
1.			

Crop 1: GOSHI cotton	Variety: various, see plot plan
Planting Date: Apr-29-05	Planting Method: seeded
Rate: 3.5 per ft	Depth: 0.5 in Perennial Age:
Row Spacing: 36 inch	Spacing Within Row: 3.4 in Seed Bed: bedded
Soil Temperature: 72 F	Soil Moisture: moist Emergence Date: May-05-05
Plot Width, Unit: 12 F	SITE AND DESIGN TT Plot Length, Unit: 30 FT Reps: 4
Tillage Type: conventional	Study Design: SPLIT-PLOT

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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MAINTENANCE

Field Prep./Maintenance:

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

%	Sand:	94	% OM:	1.2
%	silt:	2	pH:	5.9
%	Clay:	4	CEC:	

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

ADDITIONAL M	IEASURED ELEMEN	TS
Element	Quantity	Unit

		I	IOISTU	JRE CONDITIONS		
Date	Time	Amount	Unit	Туре	Interval	Unit

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

	APPLICATION DESCRIPTION								
		А		В		C		D	
Application Date:	May	-18-05	Jur	u-01-05	Jun	-13-05	Jun	-19-05	
Time of Day:	10 8	am	10	am	11	am	2 p	m	
Application Method:	broa	adcast	bro	adcast	bro	adcast	bro	adcast	
Application Timing:	2 1:	f	6 1	.f	10	lf	14	lf	
Applic. Placement:	ove	rtop	ove	ertop	ove	rtop	ove	rtop	
Air Temp., Unit:	78	F	76	F	88	F	85	F	
% Relative Humidity:	51		42		54		50		
Wind Velocity, Unit:	2	mph	3	mph	0	mph	2	mph	
Dew Presence (Y/N):	У		n		n		n		
Water Hardness:									
Soil Temp., Unit:	76	F	77	F	85	F	84	F	
Soil Moisture:	irr	igated	wet	/irrig	irr	igated	irr	igated	
% Cloud Cover:	0		0		45		80		

CROP STAGE AT EACH APPLICATION

	A	В	С	D	
Crop 1 Code, Stage:	GOSHI 2 lf	GOSHI 6 lf	GOSHI 10 lf	GOSHI 14 lf	
Stage Scale:	2 lf	6 leaf	10-11 lf	13-14 lf	
Height, Unit:	2.5 inch	7 inch	13 inch	18 inch	

WEED STAGE AT EACH APPLICATION

	A	В	С	D
Weed 1 Code, Stage:	•			
Stage Scale:	•			
Density, Unit:				

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APPLICATION EQUIPMENT										
	A		В		С		D			
Appl. Equipment:	backpack		backpack		backpack		backpack			
Operating Pressure:	23		23		23		23			
Nozzle Type:	flat	fan	flat	fan	flat	fan	flat	fan		
Nozzle Size:	11002		11002		11002		11002			
Nozzle Spacing, Unit:	18	inch	18	inch	18	inch	18	inch		
Nozzles/Row:	2		2		2		2			
Band Width, Unit:										
Boom Length, Unit:	4.5	feet	4.5	feet	4.5	feet	4.5	feet		
Boom Height, Unit:	15	inch	15	inch	15	inch	15	inch		
Ground Speed, Unit:	3	mph	3	mph	3	mph	3	mph		
Incorporation Equip.:										
Hours to Incorp.:										
Incorp. Depth, Unit:										
Carrier:	water		water		water		water			
Spray Volume, Unit:	14.8	GPA	14.8	GPA	14.8	GPA	14.8	GPA		
Spray pH:										
Propellant:	CO2		CO2		C02		CO2			
Tank Mix (Y/N):	Y		Y		Y		Y			

APPLICATION FOULPMENT

Trt No

Treatment Application Comment