

# University of Georgia

**Flex cotton response to Staple LX programs.**

Trial ID: C15-06

Study Dir.: Stanley Culpepper

Location: Ponder (5151back)

Investigator: Stanley Culpepper

Reps: 3

Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1.5 liters (min 1.1575)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
1	Staple LX	3.2	L		0.0425	LB A/A	2 leaf	B	1.346 ml/mx	101	208	305
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx			
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Layby Pro	4	L		1	LB A/A	layby	D	25.34 ml/mx			
	MSMA	6	L		1.5	LB A/A	layby	D	25.34 ml/mx			
	NIS		L		0.25	% V/V	layby	D	3.75 ml/mx			
2	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx	102	210	306
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Staple LX	3.2	L		0.0425	LB A/A	7 leaf	C	1.346 ml/mx			
	Layby Pro	4	L		1	LB A/A	layby	D	25.34 ml/mx			
	MSMA	6	L		1.5	LB A/A	layby	D	25.34 ml/mx			
	NIS		L		0.25	% V/V	layby	D	3.75 ml/mx			
3	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx	103	202	308
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	layby	D	21.11 ml/mx			
	Staple LX	3.2	L		0.0425	LB A/A	layby	D	1.346 ml/mx			
4	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx	104	201	303
	Staple LX	3.2	L		0.02125	LB A/A	2 leaf	B	0.673 ml/mx			
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Staple LX	3.2	L		0.02125	LB A/A	7 leaf	C	0.673 ml/mx			
	Layby Pro	4	L		1	LB A/A	layby	D	25.34 ml/mx			
	MSMA	6	L		1.5	LB A/A	layby	D	25.34 ml/mx			
5	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx	105	209	310
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	layby	D	21.11 ml/mx			
	Cotoran	4	L		1.5	LB A/A	PRE	A	38.0 ml/mx	106	204	302
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Staple LX	3.2	L		0.0425	LB A/A	7 leaf	C	1.346 ml/mx			
7	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx	107	205	301
	Staple LX	3.2	L		0.02125	LB A/A	2 leaf	B	0.673 ml/mx			
	Dual Magnum	7.62	L		0.95	LB A/A	2 leaf	B	12.63 ml/mx			
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Layby Pro	4	L		1	LB A/A	layby	D	25.34 ml/mx			
	MSMA	6	L		1.5	LB A/A	layby	D	25.34 ml/mx			
8	Roundup WeatherMax	4.5	L		0.9375	LB A/A	2 leaf	B	21.11 ml/mx	108	203	307
	Roundup WeatherMax	4.5	L		0.9375	LB A/A	7 leaf	C	21.11 ml/mx			
	Staple LX	3.2	L		0.02125	LB A/A	7 leaf	C	0.673 ml/mx			
	Dual Magnum	7.62	L		0.95	LB A/A	7 leaf	C	12.63 ml/mx			
	Layby Pro	4	L		1	LB A/A	layby	D	25.34 ml/mx			
	MSMA	6	L		1.5	LB A/A	layby	D	25.34 ml/mx			
9	Sequence	5.25	EW		2.5	PT/A	2 leaf	B	31.67 ml/mx	109	207	304
	Envoke	75	DF		0.0047	LB A/A	7 leaf	C	.07611 g/mx			
	NIS		L		0.25	% V/V	7 leaf	C	3.75 ml/mx			
	Layby Pro	4	L		1	LB A/A	layby	D	25.34 ml/mx			
	MSMA	6	L		1.5	LB A/A	layby	D	25.34 ml/mx			
	NIS		L		0.25	% V/V	layby	D	3.75 ml/mx			

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Reps: 3                      Plots: 12 by 25 feet  
 Spray vol: 14.8 gal/ac      Mix size: 1.5 liters (min 1.1575)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No.	By Rep		
										1	2	3	
10	Non-treated									110	206	309	

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
10.094	ml	Staple LX	3.2	L	
448.643	ml	Roundup WeatherMax	4.5	L	
221.683	ml	Layby Pro	4	L	
221.683	ml	MSMA	6	L	
37.496	ml	NIS		L	
47.503	ml	Cotoran	4	L	
31.586	ml	Dual Magnum	7.62	L	
39.586	ml	Sequence	5.25	EW	
0.095	g	Envoke	75	DF	

- \* '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: Evaluate several weed management systems in RR cotton.

**VISUAL RR COTTON RESPONSE:**

1. At 5 d after 2 leaf applications, greater than 10% injury was noted with WMax + Staple at 0.043 (12%), WMax + Staple + Dual (19%) and with Sequence (14%).
2. At 7 d after 7 leaf applications, injury was 15 to 17% with WMax + Staple at 0.043 and 22% with WMax + Staple + Dual and with Envoke. Injury from the 2 lf application of WMax + Staple + Dual was still 14%.
3. Layby treatments caused minor injury but injury from earlier topical applications still lingered.

**WEED RESPONSE:**

1. All programs provided greater than 91% control of Palmer amaranth, smallflower morningglory, sicklepod and Florida pusley. However, the system with Envoke applied at 7-leaf instead of a glyphosate mixtures provided less late-season control of these weeds except for sicklepod.
2. Late-season Texas panicum control was excellent with all programs except the system with Envoke mid-POST (81% control).

**SEED COTTON YIELD:**

1. Early and mid-season weed control was excellent with all herbicide systems and yield was similar.
2. Significant early-season cotton injury was observed but cotton recovered in this irrigated environment.

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Flex cotton response to Staple LX programs.

Trial ID: C15-06

Study Dir.: Stanley Culpepper

Location: Ponder (5151back)

Investigator: Stanley Culpepper

Weed Code			GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	AMAPA	AMAPA	
Crop Code			injury	injury	injury	injury	injury	control	control	
Rating Data Type			percent	percent	percent	percent	percent	percent	percent	
Rating Unit										
Rating Date			May-17-06	May-25-06	Jun-07-06	Jun-16-06	Jul-06-06	Jun-16-06	Jul-06-06	
Trt-Eval Interval			5 DA-B	13 DA-B	7 DA-C	16 DA-C	11 DA-D	35 DA-A	55 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	Staple LX	0.0425	LB A/A	12 b	0 b	1 d	0 b	0 b	98 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
2	Roundup WeatherMax	0.9375	LB A/A	8 c	0 b	15 bc	10 a	0 b	98 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
3	Roundup WeatherMax	0.9375	LB A/A	8 c	0 b	0 d	2 b	0 b	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
4	Roundup WeatherMax	0.9375	LB A/A	7 c	0 b	9 c	3 b	0 b	99 a	99 a
	Staple LX	0.02125	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.02125	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
5	Roundup WeatherMax	0.9375	LB A/A	4 d	0 b	0 d	0 b	0 b	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
6	Cotoran	1.5	LB A/A	0 e	0 b	17 ab	12 a	0 b	93 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
7	Roundup WeatherMax	0.9375	LB A/A	19 a	12 a	14 bc	13 a	0 b	98 a	99 a
	Staple LX	0.02125	LB A/A							
	Dual Magnum	0.95	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
8	Roundup WeatherMax	0.9375	LB A/A	3 de	0 b	22 a	12 a	3 a	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.02125	LB A/A							
	Dual Magnum	0.95	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							

## University of Georgia

Weed Code						AMAPA	AMAPA
Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	
Rating Data Type		injury	injury	injury	injury	injury	
Rating Unit		percent	percent	percent	percent	percent	percent
Rating Date		May-17-06	May-25-06	Jun-07-06	Jun-16-06	Jul-06-06	Jun-16-06
Trt-Eval Interval		5 DA-B	13 DA-B	7 DA-C	16 DA-C	11 DA-D	35 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment	Rate						
No. Name	Rate Unit	1	2	3	4	5	6
9 Sequence	2.5 PT/A	14 b	0 b	22 a	13 a	3 a	98 a
Envoke	0.0047 LB A/A						
NIS	0.25 % V/V						
Layby Pro	1 LB A/A						
MSMA	1.5 LB A/A						
NIS	0.25 % V/V						
10 Non-treated		0 e	0 b	0 d	0 b	0 b	0 b
LSD (P=.05)		3.3	1.4	5.5	5.4	2.1	6.1
Standard Deviation		1.9	0.8	3.2	3.2	1.2	3.6
CV		25.61	64.53	31.96	48.68	182.57	4.07
Bartlett's X2		16.913	0.0	7.305	3.606	0.0	15.302
P(Bartlett's X2)		0.018*	.	0.294	0.73	1.00	0.009*

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

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# University of Georgia

Weed Code			AMAPA	IAQTA	IAQTA	IAQTA	PANTE	PANTE	PANTE	
Crop Code										
Rating Data Type			control	control	control	control	control	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	
Rating Date			Aug-28-06	Jun-16-06	Jul-06-06	Aug-28-06	Jun-16-06	Jul-06-06	Aug-28-06	
Trt-Eval Interval			108 DA-A	35 DA-A	55 DA-A	108 DA-A	35 DA-A	55 DA-A	108 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate Unit	8	9	10	11	12	13	14
1	Staple LX	0.0425	LB A/A	99 a	98 a	99 a	99 a	99 a	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
2	Roundup WeatherMax	0.9375	LB A/A	99 a	92 ab	99 a	96 a	99 a	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
3	Roundup WeatherMax	0.9375	LB A/A	99 a	93 ab	94 ab	98 a	99 a	97 a	94 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
4	Roundup WeatherMax	0.9375	LB A/A	99 a	98 a	99 a	99 a	99 a	99 a	98 a
	Staple LX	0.02125	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.02125	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
5	Roundup WeatherMax	0.9375	LB A/A	99 a	93 ab	92 b	98 a	99 a	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
6	Cotoran	1.5	LB A/A	99 a	89 b	99 a	99 a	99 a	99 a	97 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
7	Roundup WeatherMax	0.9375	LB A/A	98 a	97 a	99 a	99 a	99 a	99 a	99 a
	Staple LX	0.02125	LB A/A							
	Dual Magnum	0.95	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
8	Roundup WeatherMax	0.9375	LB A/A	99 a	97 a	98 a	97 a	99 a	99 a	99 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.02125	LB A/A							
	Dual Magnum	0.95	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							

## University of Georgia

Weed Code		AMAPA	IAQTA	IAQTA	IAQTA	PANTE	PANTE	PANTE	
Crop Code									
Rating Data Type		control	control	control	control	control	control	control	
Rating Unit		percent	percent	percent	percent	percent	percent	percent	
Rating Date		Aug-28-06	Jun-16-06	Jul-06-06	Aug-28-06	Jun-16-06	Jul-06-06	Aug-28-06	
Trt-Eval Interval		108 DA-A	35 DA-A	55 DA-A	108 DA-A	35 DA-A	55 DA-A	108 DA-A	
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment									
No. Name	Rate	Unit	8	9	10	11	12	13	14
9 Sequence	2.5	PT/A	95 b	98 a	99 a	91 b	99 a	90 b	81 b
Envoke	0.0047	LB A/A							
NIS	0.25	% V/V							
Layby Pro	1	LB A/A							
MSMA	1.5	LB A/A							
NIS	0.25	% V/V							
10 Non-treated			0 c	0 c	0 c	0 c	0 b	0 c	0 c
LSD (P=.05)			2.6	6.8	4.4	3.7	0.0	2.9	5.5
Standard Deviation			1.5	3.9	2.6	2.1	0.0	1.7	3.2
CV			1.73	4.62	2.93	2.45	0.0	1.92	3.68
Bartlett's X2			1.566	13.24	9.627	4.066	0.0	14.12	5.557
P(Bartlett's X2)			0.211	0.104	0.022*	0.397	.	0.007*	0.135

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

# University of Georgia

Weed Code			CASOB	CASOB	CASOB	RCHSC	RCHSC	RCHSC	Seed Yld	
Crop Code									GOSHI	
Rating Data Type			control	control	control	control	control	control	wt/plot	
Rating Unit			percent	percent	percent	percent	percent	percent	lb	
Rating Date			Jun-16-06	Jul-06-06	Aug-28-06	Jun-16-06	Jul-06-06	Aug-28-06	Sep-05-06	
Trt-Eval Interval			35 DA-A	55 DA-A	108 DA-A	35 DA-A	55 DA-A	108 DA-A	116 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate Unit	15	16	17	18	19	20	21
1	Staple LX	0.0425	LB A/A	66 a	99 a	99 a	99 a	99 a	99 a	10 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
2	Roundup WeatherMax	0.9375	LB A/A	97 a	99 a	99 a	99 a	99 a	99 a	10 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
3	Roundup WeatherMax	0.9375	LB A/A	99 a	99 a	99 a	99 a	99 a	96 a	10 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
4	Roundup WeatherMax	0.9375	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	10 a
	Staple LX	0.02125	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.02125	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
5	Roundup WeatherMax	0.9375	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	11 a
	Roundup WeatherMax	0.9375	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
6	Cotoran	1.5	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	10 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.0425	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
7	Roundup WeatherMax	0.9375	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	10 a
	Staple LX	0.02125	LB A/A							
	Dual Magnum	0.95	LB A/A							
	Roundup WeatherMax	0.9375	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							
8	Roundup WeatherMax	0.9375	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	10 a
	Roundup WeatherMax	0.9375	LB A/A							
	Staple LX	0.02125	LB A/A							
	Dual Magnum	0.95	LB A/A							
	Layby Pro	1	LB A/A							
	MSMA	1.5	LB A/A							
	NIS	0.25	% V/V							

## University of Georgia

Weed Code	CASOB	CASOB	CASOB	RCHSC	RCHSC	RCHSC	Seed Yld
Crop Code							GOSHI
Rating Data Type	control	control	control	control	control	control	wt/plot
Rating Unit	percent	percent	percent	percent	percent	percent	lb
Rating Date	Jun-16-06	Jul-06-06	Aug-28-06	Jun-16-06	Jul-06-06	Aug-28-06	Sep-05-06
Trt-Eval Interval	35 DA-A	55 DA-A	108 DA-A	35 DA-A	55 DA-A	108 DA-A	116 DA-A
ARM Action Codes							
# Subsamples, Dec.							
Trt Treatment							
No. Name							
Rate							
Unit							
15	16	17	18	19	20	21	
9 Sequence	99 a	99 a	99 a	99 a	99 a	91 b	10 a
Envoke							
NIS							
Layby Pro							
MSMA							
NIS							
10 Non-treated	0 b	0 b	0 b	0 b	0 b	0 c	0 b
LSD (P=.05)	31.1	0.0	0.0	0.0	0.0	3.8	1.5
Standard Deviation	18.1	0.0	0.0	0.0	0.0	2.2	0.9
CV	21.17	0.0	0.0	0.0	0.0	2.49	9.97
Bartlett's X2	23.982	0.0	0.0	0.0	0.0	0.0	15.455
P(Bartlett's X2)	0.001*	.	.	.	.	1.00	0.051

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



# University of Georgia

Weed Code			Seed Yld
Crop Code			GOSHI
Rating Data Type			YIELD
Rating Unit			LB/A
Rating Date			Sep-05-06
Trt-Eval Interval			116 DA-A
ARM Action Codes			TY1
# Subsamples, Dec.			1
Trt No.	Treatment Name	Rate	Rate Unit
			22
1	Staple LX	0.0425	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
3029.8			a
2	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.0425	LB A/A
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
2894.3			a
3	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.0425	LB A/A
2867.2			a
4	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.02125	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.02125	LB A/A
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
2785.9			a
5	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
3084.0			a
6	Cotoran	1.5	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.0425	LB A/A
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
2836.2			a
7	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.02125	LB A/A
	Dual Magnum	0.95	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
2933.0			a
8	Roundup WeatherMax	0.9375	LB A/A
	Roundup WeatherMax	0.9375	LB A/A
	Staple LX	0.02125	LB A/A
	Dual Magnum	0.95	LB A/A
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
2954.3			a

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Weed Code			Seed Yld
Crop Code			GOSHI
Rating Data Type			YIELD
Rating Unit			LB/A
Rating Date			Sep-05-06
Trt-Eval Interval			116 DA-A
ARM Action Codes			TY1
# Subsamples, Dec.			1
Trt No.	Treatment Name	Rate	Unit
9	Sequence	2.5	PT/A
	Envoke	0.0047	LB A/A
	NIS	0.25	% V/V
	Layby Pro	1	LB A/A
	MSMA	1.5	LB A/A
	NIS	0.25	% V/V
10	Non-treated		
LSD (P=.05)			447.02
Standard Deviation			260.58
CV			9.97
Bartlett's X2			15.454
P(Bartlett's X2)			0.051

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

Column 22: TY1 = 290.4\*[C21]

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# University of Georgia

**Flex cotton response to Staple LX programs.**

Trial ID: C15-06 Study Dir.: Stanley Culpepper  
 Location: Ponder (5151back) Investigator: Stanley Culpepper

**GENERAL TRIAL 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

**TRIAL LOCATION**

**City:** TyTy **Trial Status:** completed  
**State/Prov.:** GA **Trial Reliability:** good  
**Postal Code:** 31795 **Initiation Date:** Apr-24-06  
**Country:** USA **Planned Completion Date:** \_\_\_\_\_  
**E-Longitude of LL Corner °:** \_\_\_\_\_ **N-Latitude of LL Corner °:** \_\_\_\_\_  
**Altitude of LL Corner: \_\_\_\_\_ Unit: \_\_\_\_\_ Angle y-axis to North °:** \_\_\_\_\_  
**Directions:**

**COOPERATOR/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 Description:** \_\_\_\_\_

**Objective:**

**Conclusions:**

**CROP AND WEED DESCRIPTION**

Weed	Code	Common Name	Scientific Name
1.	AMAPA	Palmer amaranth	
2.	IAQTA	Smallflower mg	
3.	PANTE	Texas panicum	
4.	CASOB	sicklepod	
5.	RCHSC	Florida pusley	

**Crop 1:** GOSHI cotton **Variety:** ST6565 Flex BG2  
**Planting Date:** Apr-24-06 **Planting Method:** seeded  
**Rate:** 3 per ft **Depth:** 0.5 in **Perennial Age:** \_\_\_\_\_  
**Row Spacing:** 36 inch **Spacing Within Row:** 4 inch **Seed Bed:** flat  
**Soil Temperature:** 80 F **Soil Moisture:** moist **Emergence Date:** Apr-29-06

**SITE AND DESIGN**

**Plot Width, Unit:** 12 FT **Plot Length, Unit:** 25 FT **Reps:** 3  
**Site Type:** Ponder Research Farm  
**Tillage Type:** Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

**Trial Initiation Comments:**

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	Previous Crops	Previous Pesticides	Year
1.			

### MAINTENANCE

Field Prep./Maintenance:

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

### SOIL DESCRIPTION

% Sand: 94	% OM: 1.3	Texture: sand
% Silt: 2	pH: 6.4	Soil Name: Tifton sandy loam
% Clay: 4	CEC: _____	Fert. Level: _____

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: overhead irrigation

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_

### APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	Apr-24-06	May-12-06	May-31-06	Jun-25-06
Time of Day:	2 pm	7 am	8 am	10 am
Application Method:	broadcast	broadcast	broadcast	broadcast
Application Timing:	PRE	2 leaf	7 leaf	layby
Applic. Placement:	on soil	overtop	overtop	directed
Air Temp., Unit:	87 F	65 F	77 F	81 F
% Relative Humidity:	31	46	64	63
Wind Velocity, Unit:	3 mph	0 mph	1 mph	1 mph
Dew Presence (Y/N):	n	y	n	n
Water Hardness:				
Soil Temp., Unit:	81 F	66 F	74 F	86 F
Soil Moisture:	moist	wet	moist	moist
% Cloud Cover:	0	0	0	25

### CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GOSHI PRE	GOSHI 2 leaf	GOSHI 7 leaf	GOSHI layby
Stage Scale:	not up	1-2 leaf	6-7 leaf	13 leaf
Height, Unit:	0 inch	1.5 inch	10 inch	22 inch

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## WEED STAGE AT EACH APPLICATION

	A	B	C	D
<b>Weed 1 Code, Stage:</b>	AMAPA PRE	AMAPA 2 leaf	AMAPA 7 leaf	AMAPA layby
<b>Stage Scale:</b>	not up	< 1.5inch	< 4 inch	< 6 inch
<b>Density, Unit:</b>	0 ydsq	3 ydsq	2 ydsq	1 ydsq
<b>Weed 2 Code, Stage:</b>	IAQTA PRE	IAQTA 2 leaf	IAQTA 7 leaf	IAQTA layby
<b>Stage Scale:</b>	not up	< 1.5inch	< 4 inch	< 6 inch
<b>Density, Unit:</b>	0 ydsq	3 ydsq	2 ydsq	1 ydsq
<b>Weed 3 Code, Stage:</b>	PANTE PRE	PANTE 2 leaf	PANTE 7 leaf	PANTE layby
<b>Stage Scale:</b>	not up	< 1.5inch	< 4 inch	< 6 inch
<b>Density, Unit:</b>	0 ydsq	8 ydsq	5 ydsq	3 ydsq
<b>Weed 4 Code, Stage:</b>	CASOB PRE	CASOB 2 leaf	CASOB 7 leaf	CASOB layby
<b>Stage Scale:</b>	not up	< 1.5inch	< 4 inch	< 6 inch
<b>Density, Unit:</b>	0 ydsq	2 ydsq	1 ydsq	1 ydsq
<b>Weed 5 Code, Stage:</b>	RCHSC PRE	RCHSC 2 leaf	RCHSC 7 leaf	RCHSC layby
<b>Stage Scale:</b>	not up	< 1.5inch	< 4 inch	< 6 inch
<b>Density, Unit:</b>	0 ydsq	2 ydsq	2 ydsq	3 ydsq

## APPLICATION EQUIPMENT

	A	B	C	D
<b>Appl. Equipment:</b>	backpack	backpack	backpack	backpack
<b>Operating Pressure:</b>	23	23	23	18
<b>Nozzle Type:</b>	flat fan	flat fan	flat fan	flat fan
<b>Nozzle Size:</b>	11002	11002	11002	11002
<b>Nozzle Spacing, Unit:</b>	18 inch	18 inch	18 inch	12 inch
<b>Nozzles/Row:</b>	2	2	2	3
<b>Band Width, Unit:</b>				
<b>Boom Length, Unit:</b>	4.5 feet	4.5 feet	4.5 feet	2 feet
<b>Boom Height, Unit:</b>	15 inch	15 inch	15 inch	10 inch
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph	3 mph
<b>Incorporation Equip.:</b>				
<b>Hours to Incorp.:</b>				
<b>Incorp. Depth, Unit:</b>				
<b>Carrier:</b>	water	water	water	water
<b>Spray Volume, Unit:</b>	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA
<b>Spray pH:</b>				
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y

Trt No	Treatment Application Comment