

University of Georgia

Tropical spiderwort control in cotton

Trial ID: C12-03 Study Dir.: Stanley Culpepper
 Location: Grady (Loc 2) Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** ext. weed science
Affiliation: University of Georgia **Postal Code:** 31794
Investigator: Stanley Culpepper **Title:** ext.weed science
Affiliation: University of Georgia **Postal Code:** 31794

Trial Status: completed **Initiation Date:** May-06-03 **Country:** U.S.A.
City: Cairo (Loc 2) **State/Prov.:** Ga
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

CROP AND PEST DESCRIPTION

Weed 1.COMBE Tropical spiderwort

Crop 1:GOSHI cotton **Variety:** DP 5690 RR **Planting Date:** May-06-03
Planting Method: conventional **Rate:** 3 seed/ft **Depth:** 0.5 in
Row Spacing: 36 inch **Seed Bed:** bed
Soil Temperature: 91 F **Soil Moisture:** fair **Emergence Date:** May-11-03

Plot Width, Unit: 12 FT **Plot Length, Unit:** 22 FT **Reps:** 4
Site Type: On farm
Tillage Type: conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: Loamy sand **% OM:** 1.88 **% Sand:** 84 **% Silt:** 8 **% Clay:** 10
pH: 5.7

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-06-03	May-28-03	May-28-03	Jun-02-03		
Time of Day:	2:00pm	11 am	11 am	8 am		
Application Method:	Broadcast	Broadcast	Broadcast	Broadcast		
Application Timing:	PRE	POST	EPD	Layby		
Applic. Placement:	on soil	overtop	directed	directed		
Air Temp., Unit:	91 F	85 F	85 F	79 F		
% Relative Humidity:	45	93	93	57		
Wind Velocity, Unit:	3 mph	4 mph	4 mph	2 mph		
Dew Presence (Y/N):	n	n	n	y		
Soil Temp., Unit:	80 F	82 F	82 F	81 F		
Soil Moisture:	fair	perfect	perfect	wet		
% Cloud Cover:	45	0	0	25		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 GOSHI Stage:	PRE	POST	EPD	Layby		
Stage Scale:	.	V4	V4	V10		
Height, Unit:	0. .	5 inch	5 inch	22 inch		

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 COMBE Stage:	PRE	POST	EPD	Layby		
Stage Scale:	.	V2	V2	V5		
Density, Unit:	. .	1 inch	1 inch	3.5 inch		

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APPLICATION EQUIPMENT								
	A	B		C		D	E	F
Appl. Equipment:	backpack	backpack	backpack	backpack	backpack			
Operating Pressure:	22	22	18	18				
Nozzle Type:	flat fan	flat fan	flat fan	flat fan				
Nozzle Size:	11002	11002	11002	11002				
Nozzle Spacing, Unit:	18 inch	18 inch	12 inch	12 inch				
Nozzles/Row:	2	2	3	3				
Boom Length, Unit:	4.5 feet	4.5 feet	2 feet	2 feet				
Boom Height, Unit:	15 inch	15 inch	12 inch	12 inch				
Ground Speed, Unit:	3 mph	3 mph	3 mph	3 mph				
Carrier:	water	water	water	water				
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA				
Propellant:	CO2	CO2	CO2	CO2				
Tank Mix (Y/N):	Y	Y	Y	Y				

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Tropical spiderwort control in cotton

Trial ID: C12-03

Study Dir.: Stanley Culpepper

Location: Grady (Loc 2)

Investigator: Stanley Culpepper

Weed Code			GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	COMBE
Crop Code			injury	injury	injury	injury	injury	injury	control
Rating Data Type			percent	percent	percent	percent	percent	percent	percent
Rating Unit									
Rating Date			May-28-03	Jun-02-03	Jun-09-03	Jun-26-03	Jun-30-03	Jul-25-03	May-28-03
Trt-Eval Interval			22 DA-A			51 DA-A			
PRM Data Type									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate Unit	1	2	3	4	5	6	7
1	Prowl	2.4 pt/a	0.0	0.0	0.0	2.8	0.0	0.0	0.0
	Select	8 fl oz/a							
	COC (Check)	1.0 % v/v							
2	Prowl	2.4 pt/a	0.0	0.0	0.0	3.5	0.8	0.0	0.0
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
3	Prowl	2.4 pt/a	0.0	0.0	0.0	7.8	4.5	0.0	0.0
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
	Direx	1.5 pt/a							
4	Prowl	2.4 pt/a	0.0	10.5	0.0	5.3	3.0	0.0	0.0
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	1.33 pt/a							
	Roundup Weathermax	22 fl oz/a							
5	Prowl	2.4 pt/a	0.0	0.0	0.0	5.0	1.8	0.8	0.0
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	1.33 pt/a							
6	Prowl	2.4 pt/a	0.0	11.0	0.0	5.0	2.0	0.0	0.0
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	1.33 pt/a							
	Roundup Weathermax	22 fl oz/a							
	Direx	1.5 pt/a							
7	Prowl	2.4 pt/a	0.0	0.0	0.0	6.0	4.0	0.8	0.0
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	1.33 pt/a							
	Direx	1.5 pt/a							
8	Prowl	2.4 pt/a	0.0	0.0	0.0	6.8	3.5	0.8	70.8
	Cotoran	1.5 qt/a							
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
	Direx	1.5 pt/a							
9	Prowl	2.4 pt/a	0.0	0.0	0.0	4.3	2.8	0.0	64.3
	Cotoran	1.5 qt/a							
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	1.33 pt/a							
	Direx	1.5 pt/a							
10	Prowl	2.4 pt/a	0.0	0.0	0.0	3.8	4.8	0.0	69.5
	Cotoran	1.5 qt/a							
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	1.33 pt/a							
	Roundup Weathermax	22 fl oz/a							
	Direx	1.5 pt/a							

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.				GOSHI injury percent May-28-03 22 DA-A	GOSHI injury percent Jun-02-03	GOSHI injury percent Jun-09-03	GOSHI injury percent Jun-26-03 51 DA-A	GOSHI injury percent Jun-30-03	GOSHI injury percent Jul-25-03	COMBE control percent May-28-03
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
11	Prowl	2.4	pt/a	0.0	0.0	0.0	2.0	7.8	0.0	78.0
	Cotoran	1.5	qt/a							
	Zorial	1.5	lb/a							
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
12	Prowl	2.4	pt/a	0.0	0.0	0.0	3.3	4.5	0.8	77.5
	Cotoran	1.5	qt/a							
	Zorial	1.5	lb/a							
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	1.33	pt/a							
13	Prowl	2.4	pt/a	0.0	13.0	0.0	5.0	3.0	2.8	0.0
	Roundup Weathermax	22	fl oz/a							
	Staple	0.6	oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	1.33	pt/a							
14	Prowl	2.4	pt/a	0.0	13.3	0.0	2.8	2.8	3.0	72.5
	Cotoran	1.5	qt/a							
	Roundup Weathermax	22	fl oz/a							
	Staple	0.6	oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	1.33	pt/a							
15	Prowl	2.4	pt/a	0.0	0.0	0.0	3.8	3.5	1.5	0.0
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Command	1.33	pt/a							
16	Prowl	2.4	pt/a	0.0	0.0	0.0	6.0	3.3	1.5	0.0
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	1.0	oz/a							
17	Prowl	2.4	pt/a	0.0	0.0	0.0	3.8	3.5	1.5	0.0
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	2.0	oz/a							
18	Prowl	2.4	pt/a	0.0	0.0	0.0	12.8	22.5	0.0	0.0
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Spartan	5.5	fl oz/a							
19	Prowl	2.4	pt/a	0.0	9.8	0.0	3.8	8.8	3.0	0.0
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Command	1.33	pt/a							
20	Prowl	2.4	pt/a	0.0	10.8	0.0	8.8	4.0	0.0	0.0
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	1.0	oz/a							

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.				GOSHI injury percent May-28-03 22 DA-A	GOSHI injury percent Jun-02-03	GOSHI injury percent Jun-09-03	GOSHI injury percent Jun-26-03 51 DA-A	GOSHI injury percent Jun-30-03	GOSHI injury percent Jul-25-03	COMBE control percent May-28-03
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
21	Prowl	2.4	pt/a	0.0	11.0	0.0	3.0	3.0	1.5	0.0
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	2.0	oz/a							
22	Prowl	2.4	pt/a	0.0	10.5	0.0	14.0	13.5	1.5	0.0
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Spartan	5.5	fl oz/a							
23	Prowl	2.4	pt/a	0.0	10.5	0.0	9.0	4.0	0.0	0.0
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
24	Prowl	2.4	pt/a	0.0	0.0	0.0	6.8	5.3	24.8	0.0
	Roundup Weathermax	22	fl oz/a							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							
25	Prowl	2.4	pt/a	0.0	6.0	0.0	11.0	5.3	3.0	71.3
	Cotoran	1.5	qt/a							
	Cotoran	1	qt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
26	Prowl	2.4	pt/a	0.0	5.5	0.0	4.3	4.8	5.5	63.3
	Cotoran	1.5	qt/a							
	Cotoran	1	qt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							
27	Prowl	2.4	pt/a	0.0	6.0	0.0	4.3	4.3	5.5	70.0
	Cotoran	1.5	qt/a							
	Staple	1.2	oz/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
28	Prowl	2.4	pt/a	0.0	7.3	0.0	10.3	6.0	4.0	64.8
	Cotoran	1.5	qt/a							
	Staple	1.2	oz/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.				GOSHI injury percent May-28-03 22 DA-A	GOSHI injury percent Jun-02-03	GOSHI injury percent Jun-09-03	GOSHI injury percent Jun-26-03 51 DA-A	GOSHI injury percent Jun-30-03	GOSHI injury percent Jul-25-03	COMBE control percent May-28-03
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
29	Prowl	2.4	pt/a	0.0	6.0	0.0	5.5	4.3	1.3	0.0
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	0.67	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	0.67	pt/a							
30	Prowl	2.4	pt/a	0.0	4.8	0.0	8.5	4.5	1.3	84.5
	Dual Magnum	0.44	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	0.44	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	0.44	pt/a							
LSD (P=.05)				0.00	1.97	0.00	6.14	5.37	13.42	7.51
Standard Deviation				0.00	1.39	0.00	4.34	3.80	9.49	5.31
CV				0.0	30.81	0.0	73.06	78.46	441.0	20.25
Bartlett's X2				0.0	33.485	0.0	31.942	75.097	128.583	7.226
P(Bartlett's X2)				.	0.002*	.	0.322	0.001*	0.001*	0.704

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

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Weed Code			COMBE	COMBE	COMBE	COMBE	COMBE	COMBE	GOSHI
Crop Code									seed/yl
Rating Data Type			control	control	control	control	control	control	lb/plot
Rating Unit			percent	percent	percent	percent	percent	percent	
Rating Date			Jun-09-03	Jun-26-03	Jun-30-03	Jul-14-03	Jul-25-03	Oct-07-03	Oct-07-03
Trt-Eval Interval						69 DA-A	80 DA-A		
PRM Data Type									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate Unit	8	9	10	11	12	13	14
1	Prowl Select COC (Check)	2.4 pt/a 8 fl oz/a 1.0 % v/v	0.0	0.0	0.0	0.0	0.0	0.0	1.6
2	Prowl Roundup Weathermax Roundup Weathermax	2.4 pt/a 22 fl oz/a 22 fl oz/a	43.0	82.3	80.5	77.0	78.8	65.0	3.8
3	Prowl Roundup Weathermax Roundup Weathermax Direx	2.4 pt/a 22 fl oz/a 22 fl oz/a 1.5 pt/a	37.5	97.8	99.0	88.5	85.8	83.0	4.7
4	Prowl Roundup Weathermax Dual Magnum Roundup Weathermax	2.4 pt/a 22 fl oz/a 1.33 pt/a 22 fl oz/a	77.0	98.8	99.0	87.0	90.0	81.5	4.4
5	Prowl Roundup Weathermax Roundup Weathermax Dual Magnum	2.4 pt/a 22 fl oz/a 22 fl oz/a 1.33 pt/a	33.5	90.3	88.5	88.8	81.3	94.0	4.3
6	Prowl Roundup Weathermax Dual Magnum Roundup Weathermax Direx	2.4 pt/a 22 fl oz/a 1.33 pt/a 22 fl oz/a 1.5 pt/a	78.5	99.5	99.0	91.0	86.8	84.8	4.2
7	Prowl Roundup Weathermax Roundup Weathermax Dual Magnum Direx	2.4 pt/a 22 fl oz/a 22 fl oz/a 1.33 pt/a 1.5 pt/a	35.0	99.0	99.0	98.5	85.8	99.0	4.0
8	Prowl Cotoran Roundup Weathermax Roundup Weathermax Direx	2.4 pt/a 1.5 qt/a 22 fl oz/a 22 fl oz/a 1.5 pt/a	83.3	97.8	99.0	92.0	92.3	88.0	4.3
9	Prowl Cotoran Roundup Weathermax Roundup Weathermax Dual Magnum Direx	2.4 pt/a 1.5 qt/a 22 fl oz/a 22 fl oz/a 1.33 pt/a 1.5 pt/a	87.3	99.5	99.0	99.0	96.0	99.0	4.7
10	Prowl Cotoran Roundup Weathermax Dual Magnum Roundup Weathermax Direx	2.4 pt/a 1.5 qt/a 22 fl oz/a 1.33 pt/a 22 fl oz/a 1.5 pt/a	89.8	99.5	99.0	92.5	94.8	87.8	4.5
11	Prowl Cotoran Zorial Roundup Weathermax Roundup Weathermax Direx	2.4 pt/a 1.5 qt/a 1.5 lb/a 22 fl oz/a 22 fl oz/a 1.5 pt/a	79.5	96.8	97.5	93.0	93.0	89.5	4.4

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.				COMBE	COMBE	COMBE	COMBE	COMBE	COMBE	GOSHI seed/ylt lb/plot Oct-07-03
				control percent Jun-09-03	control percent Jun-26-03	control percent Jun-30-03	control percent Jul-14-03 69 DA-A	control percent Jul-25-03 80 DA-A	control percent Oct-07-03	
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
12	Prowl	2.4	pt/a	75.5	89.8	99.0	99.0	93.0	98.5	4.0
	Cotoran	1.5	qt/a							
	Zorial	1.5	lb/a							
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	1.33	pt/a							
13	Prowl	2.4	pt/a	48.8	98.8	99.0	99.0	88.8	99.0	4.3
	Roundup Weathermax	22	fl oz/a							
	Staple	0.6	oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	1.33	pt/a							
14	Prowl	2.4	pt/a	86.3	99.5	99.0	99.0	96.0	99.0	4.4
	Cotoran	1.5	qt/a							
	Roundup Weathermax	22	fl oz/a							
	Staple	0.6	oz/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	1.33	pt/a							
15	Prowl	2.4	pt/a	58.8	80.0	83.3	85.8	80.8	87.0	4.4
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Command	1.33	pt/a							
16	Prowl	2.4	pt/a	41.3	97.5	99.0	92.8	84.3	96.5	4.5
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	1.0	oz/a							
17	Prowl	2.4	pt/a	46.8	95.3	99.0	93.0	83.8	93.5	3.9
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	2.0	oz/a							
18	Prowl	2.4	pt/a	36.3	97.0	99.0	92.3	85.0	96.0	3.5
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Spartan	5.5	fl oz/a							
19	Prowl	2.4	pt/a	74.3	95.3	99.0	93.8	90.5	89.3	4.4
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Command	1.33	pt/a							
20	Prowl	2.4	pt/a	76.3	97.8	99.0	95.8	88.8	88.0	3.9
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	1.0	oz/a							
21	Prowl	2.4	pt/a	73.8	99.3	99.0	95.8	87.5	93.5	3.7
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	2.0	oz/a							

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.				COMBE	COMBE	COMBE	COMBE	COMBE	COMBE	GOSHI seed/ylt lb/plot Oct-07-03
				control percent Jun-09-03	control percent Jun-26-03	control percent Jun-30-03	control percent Jul-14-03 69 DA-A	control percent Jul-25-03 80 DA-A	control percent Oct-07-03	
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
22	Prowl	2.4	pt/a	81.8	99.0	96.0	95.5	93.5	95.0	3.5
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Spartan	5.5	fl oz/a							
23	Prowl	2.4	pt/a	69.3	99.3	99.0	93.5	92.5	89.3	4.1
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	1.33	pt/a							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
24	Prowl	2.4	pt/a	32.5	99.3	99.0	98.5	63.8	98.0	3.8
	Roundup Weathermax	22	fl oz/a							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							
25	Prowl	2.4	pt/a	87.5	99.3	99.0	92.3	95.3	87.5	4.1
	Cotoran	1.5	qt/a							
	Cotoran	1	qt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
26	Prowl	2.4	pt/a	86.0	99.3	99.0	99.0	96.0	98.8	4.4
	Cotoran	1.5	qt/a							
	Cotoran	1	qt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							
27	Prowl	2.4	pt/a	75.5	91.8	99.0	89.3	92.8	83.0	3.8
	Cotoran	1.5	qt/a							
	Staple	1.2	oz/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Surfac 820	0.25	% v/v							
28	Prowl	2.4	pt/a	74.5	99.0	99.0	98.5	94.3	98.5	3.8
	Cotoran	1.5	qt/a							
	Staple	1.2	oz/a							
	Surfac 820	0.25	% v/v							
	Direx	2	pt/a							
	MSMA 6.6	2.4	pt/a							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							
29	Prowl	2.4	pt/a	53.8	99.5	99.0	97.5	95.5	96.8	4.2
	Roundup Weathermax	22	fl oz/a							
	Dual Magnum	0.67	pt/a							
	Roundup Weathermax	22	fl oz/a							
	Direx	1.5	pt/a							
	Dual Magnum	0.67	pt/a							

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Weed Code			COMBE	COMBE	COMBE	COMBE	COMBE	COMBE	GOSHI
Crop Code									seed/yl
Rating Data Type			control	control	control	control	control	control	lb/plot
Rating Unit			percent	percent	percent	percent	percent	percent	
Rating Date			Jun-09-03	Jun-26-03	Jun-30-03	Jul-14-03	Jul-25-03	Oct-07-03	Oct-07-03
Trt-Eval Interval						69 DA-A	80 DA-A		
PRM Data Type									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate Unit	8	9	10	11	12	13	14
30	Prowl	2.4 pt/a	83.5	97.8	99.0	93.0	91.8	97.0	3.8
	Dual Magnum	0.44 pt/a							
	Roundup Weathermax	22 fl oz/a							
	Dual Magnum	0.44 pt/a							
	Roundup Weathermax	22 fl oz/a							
	Direx	1.5 pt/a							
	Dual Magnum	0.44 pt/a							
LSD (P=.05)			10.05	6.25	3.99	4.94	12.77	7.95	0.88
Standard Deviation			7.11	4.42	2.82	3.50	9.03	5.62	0.62
CV			11.19	4.74	3.0	3.87	10.51	6.35	15.36
Bartlett's X2			43.188	163.832	5.107	60.505	134.958	65.759	32.72
P(Bartlett's X2)			0.033*	0.001*	0.277	0.001*	0.001*	0.001*	0.289

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

University of Georgia

Weed Code				GOSHI
Crop Code				seed/yld
Rating Data Type				lb/A
Rating Unit				Oct-07-03
Rating Date				
Trt-Eval Interval				
PRM Data Type				TY1
# Subsamples, Dec.				1
Trt No.	Treatment Name	Rate	Unit	15
1	Prowl	2.4	pt/a	1042.8
	Select	8	fl oz/a	
	COC (Check)	1.0	% v/v	
2	Prowl	2.4	pt/a	2514.6
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
3	Prowl	2.4	pt/a	3098.7
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
	Direx	1.5	pt/a	
4	Prowl	2.4	pt/a	2897.4
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Roundup Weathermax	22	fl oz/a	
5	Prowl	2.4	pt/a	2821.5
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
6	Prowl	2.4	pt/a	2785.2
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Roundup Weathermax	22	fl oz/a	
	Direx	1.5	pt/a	
7	Prowl	2.4	pt/a	2636.7
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Direx	1.5	pt/a	
8	Prowl	2.4	pt/a	2841.3
	Cotoran	1.5	qt/a	
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
	Direx	1.5	pt/a	
9	Prowl	2.4	pt/a	3082.2
	Cotoran	1.5	qt/a	
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Direx	1.5	pt/a	
10	Prowl	2.4	pt/a	2940.3
	Cotoran	1.5	qt/a	
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Roundup Weathermax	22	fl oz/a	
	Direx	1.5	pt/a	
11	Prowl	2.4	pt/a	2894.1
	Cotoran	1.5	qt/a	
	Zorial	1.5	lb/a	
	Roundup Weathermax	22	fl oz/a	
	Roundup Weathermax	22	fl oz/a	
	Direx	1.5	pt/a	

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Weed Code			
Crop Code			GOSHI
Rating Data Type			seed/yld
Rating Unit			lb/A
Rating Date			Oct-07-03
Trt-Eval Interval			
PRM Data Type			TY1
# Subsamples, Dec.			1
Trt No.	Treatment Name	Rate	Rate Unit
			15
12	Prowl	2.4	pt/a
	Cotoran	1.5	qt/a
	Zorial	1.5	lb/a
	Roundup Weathermax	22	fl oz/a
	Roundup Weathermax	22	fl oz/a
	Direx	1.5	pt/a
	Dual Magnum	1.33	pt/a
			2643.3
13	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Staple	0.6	oz/a
	Roundup Weathermax	22	fl oz/a
	Direx	1.5	pt/a
	Dual Magnum	1.33	pt/a
			2811.6
14	Prowl	2.4	pt/a
	Cotoran	1.5	qt/a
	Roundup Weathermax	22	fl oz/a
	Staple	0.6	oz/a
	Roundup Weathermax	22	fl oz/a
	Direx	1.5	pt/a
	Dual Magnum	1.33	pt/a
			2904.0
15	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Roundup Weathermax	22	fl oz/a
	Command	1.33	pt/a
			2920.5
16	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Roundup Weathermax	22	fl oz/a
	Valor	1.0	oz/a
			2966.7
17	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Roundup Weathermax	22	fl oz/a
	Valor	2.0	oz/a
			2560.8
18	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Roundup Weathermax	22	fl oz/a
	Spartan	5.5	fl oz/a
			2303.4
19	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Dual Magnum	1.33	pt/a
	Roundup Weathermax	22	fl oz/a
	Command	1.33	pt/a
			2877.6
20	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Dual Magnum	1.33	pt/a
	Roundup Weathermax	22	fl oz/a
	Valor	1.0	oz/a
			2574.0
21	Prowl	2.4	pt/a
	Roundup Weathermax	22	fl oz/a
	Dual Magnum	1.33	pt/a
	Roundup Weathermax	22	fl oz/a
	Valor	2.0	oz/a
			2471.7

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Weed Code			GOSHI seed/yld lb/A Oct-07-03 TY1 1	
Crop Code				
Rating Data Type				
Rating Unit				
Rating Date				
Trt-Eval Interval				
PRM Data Type				
# Subsamples, Dec.				
Trt No.	Treatment Name	Rate	Unit	15
22	Prowl	2.4	pt/a	2290.2
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Roundup Weathermax	22	fl oz/a	
	Spartan	5.5	fl oz/a	
23	Prowl	2.4	pt/a	2712.6
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	1.33	pt/a	
	Direx	2	pt/a	
	MSMA 6.6	2.4	pt/a	
	Surfac 820	0.25	% v/v	
24	Prowl	2.4	pt/a	2514.6
	Roundup Weathermax	22	fl oz/a	
	Direx	2	pt/a	
	MSMA 6.6	2.4	pt/a	
	Dual Magnum	1.33	pt/a	
	Surfac 820	0.25	% v/v	
25	Prowl	2.4	pt/a	2706.0
	Cotoran	1.5	qt/a	
	Cotoran	1	qt/a	
	MSMA 6.6	2.4	pt/a	
	Surfac 820	0.25	% v/v	
	Direx	2	pt/a	
	MSMA 6.6	2.4	pt/a	
	Surfac 820	0.25	% v/v	
26	Prowl	2.4	pt/a	2907.3
	Cotoran	1.5	qt/a	
	Cotoran	1	qt/a	
	MSMA 6.6	2.4	pt/a	
	Surfac 820	0.25	% v/v	
	Direx	2	pt/a	
	MSMA 6.6	2.4	pt/a	
	Dual Magnum	1.33	pt/a	
	Surfac 820	0.25	% v/v	
27	Prowl	2.4	pt/a	2484.9
	Cotoran	1.5	qt/a	
	Staple	1.2	oz/a	
	Surfac 820	0.25	% v/v	
	Direx	2	pt/a	
	MSMA 6.6	2.4	pt/a	
	Surfac 820	0.25	% v/v	
28	Prowl	2.4	pt/a	2491.5
	Cotoran	1.5	qt/a	
	Staple	1.2	oz/a	
	Surfac 820	0.25	% v/v	
	Direx	2	pt/a	
	MSMA 6.6	2.4	pt/a	
	Dual Magnum	1.33	pt/a	
	Surfac 820	0.25	% v/v	
29	Prowl	2.4	pt/a	2762.1
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	0.67	pt/a	
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	0.67	pt/a	

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Weed Code				
Crop Code				GOSHI
Rating Data Type				seed/yld
Rating Unit				lb/A
Rating Date				Oct-07-03
Trt-Eval Interval				
PRM Data Type				TY1
# Subsamples, Dec.				1
Trt No.	Treatment Name	Rate	Rate Unit	15
30	Prowl	2.4	pt/a	2504.7
	Dual Magnum	0.44	pt/a	
	Roundup Weathermax	22	fl oz/a	
	Dual Magnum	0.44	pt/a	
	Roundup Weathermax	22	fl oz/a	
	Direx	1.5	pt/a	
	Dual Magnum	0.44	pt/a	
LSD (P=.05)				578.82
Standard Deviation				409.29
CV				15.36
Bartlett's X2				32.72
P(Bartlett's X2)				0.289

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

Column 15: TY1 = 660.0*[C14]

Trial Comments

OBJECTIVE: Evaluate herbicide systems for the control of tropical spiderwort.

Cotton Response:

- 1) Soil applied herbicides did not injure crop.
- 2) Glyphosate plus Staple or Dual injured cotton 8 to 15%. Cotton recovered quickly.
- 3) Layby treatments caused less than 10% necrosis or chlorosis except for a couple of Spartan treatments. Injury from Spartan actually was movement through the plant showing injury in leaf tissue above where the directed application was made.

Spiderwort Response:

- 1) Cotoran PRE provided 64 to 72% control for about 3 weeks.
- 2) At mid-season prior to layby: Glyphosate POST provided 34 to 43% control. The addition of Dual with glyphosate improved control at least 30%. Similarly the addition of Cotoran in the glyphosate only POST system improved control at least 40%. The conventional program provided 88% control.
- 3) All systems, immediately after layby, provided at least 80% control.
- 4) At harvest, the glyphosate POST system provided 65% control:
 - a) The addition of Dual to this system improved control at least 15%. Dual applied at layby was more effective than applied early POST.
 - b) The conventional program was 23% more effective than the glyphosate only program.

Seed Cotton Yield:

- 1) Yields from all plots treated with a herbicide system were greater than the non-treated control.
- 2) Trends for similar yields were noted among most systems, except a couple of systems including Spartan tended to be among the lowest yielding systems.

GENERAL COMMENTS:

- 1) Low populations of starbur, sicklepod and beggarweed were present in this trial. ALL treatments provided perfect control of these weeds.