

University of Georgia

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

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University of Georgia

Tropical spiderwort control in cotton

Trial ID: C11-03

Study Dir.: Stanley Culpepper

Location: Grady (Loc 1)

Investigator: Stanley Culpepper

Weed Code			GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	COMBE	COMBE
Crop Code			injury	injury	injury	injury	injury	control	control
Rating Data Type			percent	percent	percent	percent	percent	percent	percent
Rating Unit									
Rating Date			May-24-03	May-28-03	Jun-05-03	Jun-26-03	Jul-11-03	May-24-03	May-28-03
Trt-Eval Interval			24 DA-A	28 DA-A	36 DA-A	57 DA-A	72 DA-A	24 DA-A	28 DA-A
PRM Data Type									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	1	2	3	4	5	6	7
1	Prowl	2.4 pt/a	0.0	0.0	0.0	0.0	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	0.0	0.8	0.0	31.3
	Roundup Weathermax	22 fl oz/a							
	Roundup Weathermax	22 fl oz/a							
3	Prowl	2.4 pt/a	0.0	1.3	0.0	0.0	3.0	0.0	32.5
	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	13.5	2.8	0.0	2.8	0.0	80.0
	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	1.3	1.3	0.0	0.8	0.0	25.3
	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	14.5	2.8	0.0	4.0	0.0	85.0
	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	2.0	0.0	3.0	0.0	31.3
	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	2.5	2.0	0.0	4.8	78.3	59.3
	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	0.0	0.0	0.0	0.0	2.5	72.5	58.8
	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	14.0	1.3	0.0	4.5	74.3	87.5
	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			GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	COMBE	COMBE	
Crop Code			injury	injury	injury	injury	injury	control	control	
Rating Data Type			percent	percent	percent	percent	percent	percent	percent	
Rating Unit			May-24-03	May-28-03	Jun-05-03	Jun-26-03	Jul-11-03	May-24-03	May-28-03	
Rating Date			24 DA-A	28 DA-A	36 DA-A	57 DA-A	72 DA-A	24 DA-A	28 DA-A	
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
11	Prowl	2.4	pt/a	0.0	1.3	0.0	0.0	3.0	84.0	55.0
	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	2.5	0.0	4.3	88.0	50.0
	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	0.0	33.8	2.0	0.0	6.3	0.0	45.0
	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	33.8	3.3	0.0	4.0	78.3	55.0
	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	0.0	2.3	0.0	57.5
	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	1.3	0.0	0.0	2.8	0.0	36.3
	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	1.3	1.3	0.0	4.3	0.0	39.8
	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	2.0	4.0	9.5	0.0	31.3
	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	13.3	1.3	0.0	2.8	0.0	81.0
	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	14.8	3.3	0.0	2.3	0.0	81.3
	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-24-03 24 DA-A	GOSHI injury percent May-28-03 28 DA-A	GOSHI injury percent Jun-05-03 36 DA-A	GOSHI injury percent Jun-26-03 57 DA-A	GOSHI injury percent Jul-11-03 72 DA-A	COMBE control percent May-24-03 24 DA-A	COMBE control percent May-28-03 28 DA-A
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
21	Prowl	2.4	pt/a	0.0	15.8	4.5	0.0	3.0	0.0	89.0
	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	18.8	2.0	4.3	11.5	0.0	85.5
	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	0.0	13.8	1.3	0.0	5.5	0.0	80.8
	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	0.0	3.3	0.0	31.3
	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	8.8	0.0	8.0	6.0	78.3	52.5
	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	2.0	2.0	0.0	3.5	73.8	56.3
	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	32.3	1.5	0.0	4.8	74.3	48.8
	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	0.0	30.0	3.3	0.0	2.5	52.5	35.0
	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							
	Dual Magnum	1.33	pt/a							
	Surfac 820	0.25	% v/v							

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Weed Code				GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	COMBE	COMBE
Crop Code										
Rating Data Type				injury	injury	injury	injury	injury	control	control
Rating Unit				percent	percent	percent	percent	percent	percent	percent
Rating Date				May-24-03	May-28-03	Jun-05-03	Jun-26-03	Jul-11-03	May-24-03	May-28-03
Trt-Eval Interval				24 DA-A	28 DA-A	36 DA-A	57 DA-A	72 DA-A	24 DA-A	28 DA-A
PRM Data Type										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
29	Prowl	2.4	pt/a	0.0	3.8	0.0	0.0	3.0	0.0	70.5
	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	7.5	1.5	0.0	4.3	60.0	90.5
	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	4.86	3.95	3.76	4.46	11.31	17.73
Standard Deviation				0.00	3.43	2.79	2.66	3.15	8.00	12.54
CV				0.0	36.96	192.69	491.06	82.54	29.47	22.63
Bartlett's X2				0.0	21.613	5.96	0.066	83.351	34.983	40.242
P(Bartlett's X2)				.	0.422	0.998	0.968	0.001*	0.001*	0.063

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	GOSHI	GOSHI	
Crop Code								seed/ld	seed/ld	
Rating Data Type			control	control	control	control	control	lb/plot	lb/A	
Rating Unit			percent	percent	percent	percent	percent			
Rating Date			Jun-05-03	Jun-26-03	Jul-11-03	Jul-30-03	Oct-07-03	Nov-04-03	Nov-04-03	
Trt-Eval Interval			36 DA-A	57 DA-A	72 DA-A	91 DA-A	160 DA-A	188 DA-A	188 DA-A	
PRM Data Type									TY1	
# Subsamples, Dec.									1	
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
1	Prowl Select COC (Check)	2.4 8 1.0	pt/a fl oz/a % v/v	0.0	0.0	0.0	0.0	0.0	2.7	1785.3
2	Prowl Roundup Weathermax Roundup Weathermax	2.4 22 22	pt/a fl oz/a fl oz/a	32.5	74.3	67.3	60.0	41.8	5.3	3527.7
3	Prowl Roundup Weathermax Roundup Weathermax Direx	2.4 22 22 1.5	pt/a fl oz/a fl oz/a pt/a	26.3	80.3	75.3	88.3	51.3	4.5	2940.3
4	Prowl Roundup Weathermax Dual Magnum Roundup Weathermax	2.4 22 1.33 22	pt/a fl oz/a pt/a fl oz/a	67.0	92.0	88.0	92.0	81.3	5.1	3366.0
5	Prowl Roundup Weathermax Roundup Weathermax Dual Magnum	2.4 22 22 1.33	pt/a fl oz/a fl oz/a pt/a	21.0	83.5	85.0	60.8	84.3	4.9	3252.2
6	Prowl Roundup Weathermax Dual Magnum Roundup Weathermax Direx	2.4 22 1.33 22 1.5	pt/a fl oz/a pt/a fl oz/a pt/a	68.5	94.3	91.5	96.3	84.5	5.3	3507.9
7	Prowl Roundup Weathermax Roundup Weathermax Dual Magnum Direx	2.4 22 22 1.33 1.5	pt/a fl oz/a fl oz/a pt/a pt/a	25.0	96.3	95.0	94.5	91.8	5.4	3583.8
8	Prowl Cotoran Roundup Weathermax Roundup Weathermax Direx	2.4 1.5 22 22 1.5	pt/a qt/a fl oz/a fl oz/a pt/a	73.3	85.3	78.8	95.8	63.0	5.0	3300.0
9	Prowl Cotoran Roundup Weathermax Roundup Weathermax Dual Magnum Direx	2.4 1.5 22 22 1.33 1.5	pt/a qt/a fl oz/a fl oz/a pt/a pt/a	77.3	99.3	96.0	99.0	95.0	4.5	2973.3
10	Prowl Cotoran Roundup Weathermax Dual Magnum Roundup Weathermax Direx	2.4 1.5 22 1.33 22 1.5	pt/a qt/a fl oz/a pt/a fl oz/a pt/a	79.8	91.3	88.0	94.8	82.5	5.4	3590.4
11	Prowl Cotoran Zorial Roundup Weathermax Roundup Weathermax Direx	2.4 1.5 1.5 22 22 1.5	pt/a qt/a lb/a fl oz/a fl oz/a pt/a	59.5	84.8	83.5	95.8	77.0	4.7	3088.8

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Weed Code				COMBE	COMBE	COMBE	COMBE	COMBE	GOSHI	GOSHI
Crop Code									seedyld	seedyld
Rating Data Type				control	control	control	control	control	lb/plot	lb/A
Rating Unit				percent	percent	percent	percent	percent		
Rating Date				Jun-05-03	Jun-26-03	Jul-11-03	Jul-30-03	Oct-07-03	Nov-04-03	Nov-04-03
Trt-Eval Interval				36 DA-A	57 DA-A	72 DA-A	91 DA-A	160 DA-A	188 DA-A	188 DA-A
PRM Data Type										TY1
# Subsamples, Dec.										1
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
12	Prowl	2.4	pt/a	65.5	99.5	96.5	97.5	90.0	5.4	3573.9
	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	38.8	98.0	94.8	96.3	88.8	4.8	3158.1
	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	77.5	99.0	96.5	98.5	90.0	5.3	3484.8
	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	51.8	89.8	89.0	69.3	87.5	5.3	3474.9
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Command	1.33	pt/a							
16	Prowl	2.4	pt/a	27.5	83.0	78.3	94.5	41.3	5.8	3795.0
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	1.0	oz/a							
17	Prowl	2.4	pt/a	36.8	88.3	88.3	98.5	55.8	4.9	3253.8
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Valor	2.0	oz/a							
18	Prowl	2.4	pt/a	26.3	81.0	74.5	81.3	56.3	4.7	3125.1
	Roundup Weathermax	22	fl oz/a							
	Roundup Weathermax	22	fl oz/a							
	Spartan	5.5	fl oz/a							
19	Prowl	2.4	pt/a	64.5	94.3	92.8	96.0	89.5	5.3	3504.6
	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	66.3	94.3	92.5	99.0	82.5	5.9	3920.4
	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	63.8	97.3	95.0	98.5	91.0	5.3	3511.2
	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				COMBE	COMBE	COMBE	COMBE	COMBE	GOSHI	GOSHI
Crop Code									seed/ld	seed/ld
Rating Data Type				control	control	control	control	control	lb/plot	lb/A
Rating Unit				percent	percent	percent	percent	percent		
Rating Date				Jun-05-03	Jun-26-03	Jul-11-03	Jul-30-03	Oct-07-03	Nov-04-03	Nov-04-03
Trt-Eval Interval				36 DA-A	57 DA-A	72 DA-A	91 DA-A	160 DA-A	188 DA-A	188 DA-A
PRM Data Type										TY1
# Subsamples, Dec.										1
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
22	Prowl	2.4	pt/a	71.8	93.8	91.5	99.0	83.8	3.5	2339.7
	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	59.3	93.3	91.5	98.8	83.3	5.6	3722.4
	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	25.8	97.5	94.5	95.8	83.5	5.4	3544.2
	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	79.5	89.3	87.8	97.5	90.8	4.8	3194.4
	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							
	Surfac 820	0.25	% v/v							
26	Prowl	2.4	pt/a	76.0	99.5	95.5	99.0	95.0	4.8	3194.4
	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	65.3	83.0	75.8	96.0	66.3	6.0	3943.5
	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							
	Surfac 820	0.25	% v/v							
28	Prowl	2.4	pt/a	65.5	98.8	95.5	99.0	93.8	5.3	3481.5
	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	47.5	98.0	94.3	90.8	92.5	5.5	3600.3
	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	GOSHI	GOSHI
Crop Code						seedyld	seedyld
Rating Data Type	control	control	control	control	control	lb/plot	lb/A
Rating Unit	percent	percent	percent	percent	percent		
Rating Date	Jun-05-03	Jun-26-03	Jul-11-03	Jul-30-03	Oct-07-03	Nov-04-03	Nov-04-03
Trt-Eval Interval	36 DA-A	57 DA-A	72 DA-A	91 DA-A	160 DA-A	188 DA-A	188 DA-A
PRM Data Type							TY1
# Subsamples, Dec.							1
Trt No.	8	9	10	11	12	13	14
Treatment Name							
Rate							
Unit							
30 Prowl	75.5	96.3	92.0	98.3	91.0	6.0	3956.7
Dual Magnum							
Roundup Weathermax							
Dual Magnum							
Roundup Weathermax							
Direx							
Dual Magnum							
LSD (P=.05)	18.07	5.78	6.92	6.27	16.82	1.25	825.86
Standard Deviation	12.78	4.09	4.89	4.43	11.89	0.88	583.97
CV	23.75	4.62	5.72	4.96	15.48	17.4	17.4
Bartlett's X2	37.774	88.575	81.541	62.997	62.743	31.135	31.136
P(Bartlett's X2)	0.103	0.001*	0.001*	0.001*	0.001*	0.359	0.359

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

Column 14: TY1 = 660.0*[C13]

Trial Comments

OBJECTIVE: Evaluate herbicide systems for tropical spiderwort control.

CROP RESPONSE:

- 1) Soil applied herbicides did not injure cotton.
- 2) At POST, conditions were favorable for injury. Glyphosate plus Dual caused 14% necrosis where glyphosate plus Staple caused 34% chlorosis. Cotton recovered from both treatments very quickly and injury was less than 5% at 12 DAT.
- 3) Injury from layby treatments were insignificant except by Spartan which ranged from 10 to 12%.

SPIDERWORT RESPONSE:

- 1) Cotoran provided 72 to 78% control at 25 DAT. Control began to break about 20 DAT and was of little help after about 30 DAT. The addition of Zorial did not statistically improve control.
- 2) At 12 d after POST, glyphosate provided 21 to 32% control. The addition of Dual with glyphosate improved control at least 35%. Cotoran PRE followed by glyphosate plus Dual, glyphosate plus Staple, or Cotoran + MSMA were the best systems at this time.
- 3) All layby treatments were extremely effective improving control to at least 80% at 10 d after layby treatment.
- 4) At harvest, the glyphosate only POST system provided 42% control.
 - a) The addition of Dual POST or layby to this system improved control at least 39%.
 - b) The conventional system was 49% more effective than the glyphosate only system.
 - c) Systems containing split applications of Dual provided at least 91% control.
 - d) Dual still remains as the backbone of the system. However, adding Cotoran PRE may also play a key role at reducing the number of plants present at the time the POST application is made.

Seed Cotton Yield:

- 1) All treatments except one including Spartan (injury) yielded greater than the non-treated control.
- 2) As expected little competition occurred early in the season because of control or stunting from glyphosate treatments and yields were similar among most treatments.