

University of Georgia

GR Palmer amaranth control in conventional tillage Flex cotton.

Trial ID: C25-06

Protocol ID:

Location: Macon Co (Paved Rd)

Study Director: Kichler, Culpepper

Investigator: Stanley Culpepper

Reps: 4

Plots: 12 by 22 feet

Spray vol: 14.8 gal/ac

Mix size: 2 liters (min 1.3582)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Growth Stage	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
1	Non-Treated Check								111	214	305	401
2	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1 B	23.23 ml/mx	110	215	306	413
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
3	Weathermax	4.5	lbae/gal	L	44	FL OZ/A	POST-1 B	46.45 ml/mx	104	216	307	402
	Weathermax	4.5	lbae/gal	L	44	FL OZ/A	POST-2 C	46.45 ml/mx				
	Weathermax	4.5	lbae/gal	L	44	FL OZ/A	PDIR D	46.45 ml/mx				
4	Weathermax	4.5	lbae/gal	L	88	FL OZ/A	POST-1 B	92.91 ml/mx	108	212	310	404
	Weathermax	4.5	lbae/gal	L	88	FL OZ/A	POST-2 C	92.91 ml/mx				
	Weathermax	4.5	lbae/gal	L	88	FL OZ/A	PDIR D	92.91 ml/mx				
5	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1 B	23.23 ml/mx	101	208	309	412
	Staple LX	3.2	lba/gal	L	1.3	FL OZ/A	POST-1 B	1.372 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Staple LX	3.2	lba/gal	L	1.3	FL OZ/A	POST-2 C	1.372 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Valor SX	51	%	WG	1	OZ/A	PIDR D	1.012 g/mx				
6	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-1 B	23.23 ml/mx	109	204	312	407
	Dual Magnum	6.72	lba/gal	L	1.0	PT/A	POST-1 B	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Staple LX	3.2	lba/gal	L	1.3	FL OZ/A	POST-2 C	1.372 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Valor SX	51	%	WG	1	OZ/A	PIDR D	1.012 g/mx				
7	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE A	29.56 ml/mx	102	201	315	410
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR D	25.34 ml/mx				
8	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE A	29.56 ml/mx	107	211	301	415
	Staple LX	3.2	lba/gal	L	1.7	FL OZ/A	PRE A	1.795 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR D	25.34 ml/mx				
9	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE A	29.56 ml/mx	113	202	314	403
	Cotoran	4.0	lba/gal	L	1	QT/A	PRE A	33.78 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR D	25.34 ml/mx				
10	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE A	29.56 ml/mx	106	210	316	406
	Reflex	2.0	lba/gal	L	1	PT/A	PRE A	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR D	25.34 ml/mx				
11	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE A	29.56 ml/mx	103	205	313	408
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2 C	23.23 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1.0	PT/A	POST-2 C	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR D	25.34 ml/mx				

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Reps: 4 Plots: 12 by 22 feet
 Spray vol: 14.8 gal/ac Mix size: 2 liters (min 1.3582)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
12	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE	A	29.56 ml/mx	105	213	302	405
	Staple LX	3.2	lba/gal	L	1.7	FL OZ/A	PRE	A	1.795 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1.0	PT/A	POST-2	C	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR	D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR	D	25.34 ml/mx				
13	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE	A	29.56 ml/mx	115	206	311	409
	Cotoran	4.0	lba/gal	L	1	QT/A	PRE	A	33.78 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1.0	PT/A	POST-2	C	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR	D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR	D	25.34 ml/mx				
14	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE	A	29.56 ml/mx	116	203	304	414
	Reflex	2.0	lba/gal	L	1	PT/A	PRE	A	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1.0	PT/A	POST-2	C	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR	D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR	D	25.34 ml/mx				
15	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE	A	29.56 ml/mx	112	207	308	411
	Direx	4	lba/gal	L	1	QT/A	PRE	A	33.78 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR	D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR	D	25.34 ml/mx				
16	Prowl H20	3.8	lba/gal	L	1.75	PT/A	PRE	A	29.56 ml/mx	114	209	303	416
	Direx	4	lba/gal	L	2	PT/A	PRE	A	33.78 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	POST-2	C	23.23 ml/mx				
	Dual Magnum	7.62	lba/gal	L	1.0	PT/A	POST-2	C	16.89 ml/mx				
	Weathermax	4.5	lbae/gal	L	22	FL OZ/A	PDIR	D	23.23 ml/mx				
	Direx	4.0	lba/gal	L	1.5	PT/A	PDIR	D	25.34 ml/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
1,364.551	ml	Weathermax	4.5	L	
9.634	ml	Staple LX	3.2	L	
2.530	g	Valor SX	51	WG	
21.113	ml	Dual Magnum	6.72	L	
369.471	ml	Prowl H20	3.8	L	
401.140	ml	Direx	4.0	L	
84.451	ml	Cotoran	4.0	L	
42.225	ml	Reflex	2.0	L	
105.563	ml	Dual Magnum	7.62	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.

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Trial ID: C25-06

Protocol ID:

Location: Macon Co (Paved Rd)

Study Director: Kichler, Culpepper

Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Develop the most effective program to manage glyphosate-resistant Palmer amaranth.

VISUAL INJURY:

1. WeatherMax plus Staple caused up to 15% visual injury. Cotton recovered quickly.
2. No other product injured the crop.

GLYPHOSATE-RESISTANT PALMER RESPONSE:

1. At layby, the only programs providing greater than 70% control were Prowl + Reflex PRE followed by either WeatherMax or WeatherMax plus Dual POST and with Prowl + Staple PRE followed by WeatherMax + Dual POST.
2. Late in the year, the only effective program was Prowl + Reflex PRE followed by WeatherMax + Dual POST and WeatherMax + Direx at layby.

SEED YIELD

1. Only two systems could be hand harvested (2 rows by 10 ft)
Prowl + Reflex fb RU + Dual fb RU + Direx: 1617 lb/A
Prowl + Reflex fb RU fb RU + Direx: 1242 lb/A

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Location: Macon Co (Paved Rd)

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Pest Code					AMAPA	AMAPA	AMAPA		
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT		
Rating Date	May-19-06	Jun-01-06	Jun-08-06	Jun-27-06	Jun-01-06	Jun-08-06	Jun-20-06		
Rating Data Type	injury	injury	injury	injury	control	control	control		
Rating Unit	%	%	%	%	%	%	%		
Assessed By	SC	SC	AD	SC	SC	AD	SC		
Days After First/Last Applic.	18	4	11	7	4	11	0		
Trt-Eval Interval	18 DA-A	31 DA-A	38 DA-A	57 DA-A	31 DA-A	38 DA-A	50 DA-A		
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit		
1	Non-Treated Check	0 a	0 b	0 a	0 a	0 g	0 h	0 g	
2	Weathermax	22 FL OZ/A	0 a	0 b	0 a	0 a	31 f	23 g	24 f
	Weathermax	22 FL OZ/A							
	Weathermax	22 FL OZ/A							
3	Weathermax	44 FL OZ/A	0 a	0 b	0 a	0 a	62 e	65 de	45 cd
	Weathermax	44 FL OZ/A							
	Weathermax	44 FL OZ/A							
4	Weathermax	88 FL OZ/A	0 a	2 b	1 a	0 a	76 d	75 bcd	70 b
	Weathermax	88 FL OZ/A							
	Weathermax	88 FL OZ/A							
5	Weathermax	22 FL OZ/A	0 a	14 a	4 a	0 a	79 cd	76 bcd	52 c
	Staple LX	1.3 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Staple LX	1.3 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Valor SX	1 OZ/A							
6	Weathermax	22 FL OZ/A	0 a	15 a	0 a	0 a	67 e	68 cde	41 cde
	Dual Magnum	1.0 PT/A							
	Weathermax	22 FL OZ/A							
	Staple LX	1.3 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Valor SX	1 OZ/A							
7	Prowl H20	1.75 PT/A	0 a	0 b	0 a	0 a	35 f	41 f	29 ef
	Weathermax	22 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Direx	1.5 PT/A							
8	Prowl H20	1.75 PT/A	0 a	0 b	0 a	0 a	81 bcd	74 bcd	50 cd
	Staple LX	1.7 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Direx	1.5 PT/A							
9	Prowl H20	1.75 PT/A	0 a	0 b	0 a	0 a	66 e	57 e	38 de
	Cotoran	1 QT/A							
	Weathermax	22 FL OZ/A							
	Weathermax	22 FL OZ/A							
	Direx	1.5 PT/A							

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Pest Code	GOSHI	GOSHI	GOSHI	GOSHI	AMAPA	AMAPA	AMAPA			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT			
Rating Date	May-19-06	Jun-01-06	Jun-08-06	Jun-27-06	Jun-01-06	Jun-08-06	Jun-20-06			
Rating Data Type	injury	injury	injury	injury	control	control	control			
Rating Unit	%	%	%	%	%	%	%			
Assessed By	SC	SC	AD	SC	SC	AD	SC			
Days After First/Last Applic.	18	4	11	7	4	11	0			
Trt-Eval Interval	18 DA-A	31 DA-A	38 DA-A	57 DA-A	31 DA-A	38 DA-A	50 DA-A			
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
10	Prowl H20	1.75	PT/A	0 a	0 b	3 a	0 a	88 ab	85 ab	76 b
	Reflex	1	PT/A							
	Weathermax	22	FL OZ/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
11	Prowl H20	1.75	PT/A	0 a	0 b	3 a	0 a	33 f	23 g	25 f
	Weathermax	22	FL OZ/A							
	Dual Magnum	1.0	PT/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
12	Prowl H20	1.75	PT/A	0 a	2 b	0 a	0 a	85 bc	80 bc	72 b
	Staple LX	1.7	FL OZ/A							
	Weathermax	22	FL OZ/A							
	Dual Magnum	1.0	PT/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
13	Prowl H20	1.75	PT/A	0 a	0 b	1 a	0 a	82 bcd	74 bcd	46 cd
	Cotoran	1	QT/A							
	Weathermax	22	FL OZ/A							
	Dual Magnum	1.0	PT/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
14	Prowl H20	1.75	PT/A	0 a	0 b	4 a	0 a	95 a	94 a	95 a
	Reflex	1	PT/A							
	Weathermax	22	FL OZ/A							
	Dual Magnum	1.0	PT/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
15	Prowl H20	1.75	PT/A	0 a	0 b	4 a	0 a	78 cd	74 bcd	50 cd
	Direx	1	QT/A							
	Weathermax	22	FL OZ/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
16	Prowl H20	1.75	PT/A	0 a	1 b	4 a	0 a	82 bcd	77 bcd	65 b
	Direx	2	PT/A							
	Weathermax	22	FL OZ/A							
	Dual Magnum	1.0	PT/A							
	Weathermax	22	FL OZ/A							
	Direx	1.5	PT/A							
LSD (P=.05)				0.0	2.3	3.3	0.0	7.9	11.4	12.0
Standard Deviation				0.0	1.6	2.3	0.0	5.5	8.0	8.4
CV				0.0	74.9	162.83	0.0	8.55	12.99	17.38
Bartlett's X2				0.0	4.44	3.706	0.0	16.179	17.767	23.416
P(Bartlett's X2)				.	0.35	0.813	.	0.303	0.218	0.054

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

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Pest Code	AMAPA	AMAPA	AMAPA	AMAPA	Seed Yld	Seed Yld		
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT		
Rating Date	Jun-27-06	Jul-09-06	Jul-27-06	Sep-12-06	Oct-18-06	Oct-18-06		
Rating Data Type	control	control	control	control	pounds	YIELD		
Rating Unit	%	%	%	%	per 10ft	LB		
Assessed By	SC	SC	AD	SC	SC	SC		
Days After First/Last Applic.	7	19	37	84	120	120		
Trt-Eval Interval	57 DA-A	69 DA-A	87 DA-A	134 DA-A				
ARM Action Codes						TY1		
Number of Decimals						1		
Trt No.	Treatment	Rate						
	Name	Rate Unit	8	9	10	11	12	13
1	Non-Treated Check		0 g	0 h	0 d	0 d	0 c	0.0 c
2	Weathermax	22 FL OZ/A	20 f	11 g	0 d	0 d	0 c	0.0 c
	Weathermax	22 FL OZ/A						
	Weathermax	22 FL OZ/A						
3	Weathermax	44 FL OZ/A	42 e	24 f	0 d	0 d	0 c	0.0 c
	Weathermax	44 FL OZ/A						
	Weathermax	44 FL OZ/A						
4	Weathermax	88 FL OZ/A	60 cd	55 c	0 d	0 d	0 c	0.0 c
	Weathermax	88 FL OZ/A						
	Weathermax	88 FL OZ/A						
5	Weathermax	22 FL OZ/A	60 cd	39 de	0 d	0 d	0 c	0.0 c
	Staple LX	1.3 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Staple LX	1.3 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Valor SX	1 OZ/A						
6	Weathermax	22 FL OZ/A	50 de	31 def	0 d	0 d	0 c	0.0 c
	Dual Magnum	1.0 PT/A						
	Weathermax	22 FL OZ/A						
	Staple LX	1.3 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Valor SX	1 OZ/A						
7	Prowl H20	1.75 PT/A	44 e	30 def	0 d	0 d	0 c	0.0 c
	Weathermax	22 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Direx	1.5 PT/A						
8	Prowl H20	1.75 PT/A	63 c	58 c	0 d	0 d	0 c	0.0 c
	Staple LX	1.7 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Direx	1.5 PT/A						
9	Prowl H20	1.75 PT/A	48 de	24 f	0 d	0 d	0 c	0.0 c
	Cotoran	1 QT/A						
	Weathermax	22 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Direx	1.5 PT/A						
10	Prowl H20	1.75 PT/A	87 a	88 a	72 b	61 b	2 b	1241.5 b
	Reflex	1 PT/A						
	Weathermax	22 FL OZ/A						
	Weathermax	22 FL OZ/A						
	Direx	1.5 PT/A						
11	Prowl H20	1.75 PT/A	44 e	27 ef	0 d	0 d	0 c	0.0 c
	Weathermax	22 FL OZ/A						
	Dual Magnum	1.0 PT/A						
	Weathermax	22 FL OZ/A						
	Direx	1.5 PT/A						

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Pest Code	AMAPA	AMAPA	AMAPA	AMAPA	Seed Yld	Seed Yld			
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT			
Rating Date	Jun-27-06	Jul-09-06	Jul-27-06	Sep-12-06	Oct-18-06	Oct-18-06			
Rating Data Type	control	control	control	control	pounds	YIELD			
Rating Unit	%	%	%	%	per 10ft	LB			
Assessed By	SC	SC	AD	SC	SC	SC			
Days After First/Last Applic.	7	19	37	84	120	120			
Trt-Eval Interval	57 DA-A	69 DA-A	87 DA-A	134 DA-A					
ARM Action Codes						TY1			
Number of Decimals						1			
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13
12	Prowl H20	1.75	PT/A	76 b	73 b	23 c	8 c	0 c	0.0 c
	Staple LX	1.7	FL OZ/A						
	Weathermax	22	FL OZ/A						
	Dual Magnum	1.0	PT/A						
	Weathermax	22	FL OZ/A						
	Direx	1.5	PT/A						
13	Prowl H20	1.75	PT/A	51 cde	41 d	0 d	0 d	0 c	0.0 c
	Cotoran	1	QT/A						
	Weathermax	22	FL OZ/A						
	Dual Magnum	1.0	PT/A						
	Weathermax	22	FL OZ/A						
	Direx	1.5	PT/A						
14	Prowl H20	1.75	PT/A	96 a	98 a	89 a	91 a	2 a	1617.2 a
	Reflex	1	PT/A						
	Weathermax	22	FL OZ/A						
	Dual Magnum	1.0	PT/A						
	Weathermax	22	FL OZ/A						
	Direx	1.5	PT/A						
15	Prowl H20	1.75	PT/A	60 cd	58 c	5 d	0 d	0 c	0.0 c
	Direx	1	QT/A						
	Weathermax	22	FL OZ/A						
	Weathermax	22	FL OZ/A						
	Direx	1.5	PT/A						
16	Prowl H20	1.75	PT/A	59 cd	63 bc	23 c	0 d	0 c	0.0 c
	Direx	2	PT/A						
	Weathermax	22	FL OZ/A						
	Dual Magnum	1.0	PT/A						
	Weathermax	22	FL OZ/A						
	Direx	1.5	PT/A						
LSD (P=.05)				11.1	11.2	6.9	3.4	0.2	129.02
Standard Deviation				7.8	7.8	4.9	2.4	0.1	90.29
CV				14.48	17.42	36.89	23.91	50.53	50.53
Bartlett's X2				24.148	25.047	0.414	0.762	0.132	0.132
P(Bartlett's X2)				0.03*	0.034*	0.981	0.683	0.717	0.717

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

Column 13: TY1 = 726.0*[12]

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GR Palmer amaranth control in conventional tillage Flex cotton.

Trial ID: C25-06

Protocol ID:

Location: Macon Co (Paved Rd)

Study Director: Kichler, Culpepper

Investigator: Stanley Culpepper

General Trial Information

Study Director: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

E-mail: _____

Investigator: Stanley Culpepper

Title: Ext. Weed Science

Affiliation: Univ. of Georgia

Postal Code: 31794

E-mail: _____

Keywords:

Trial Location

City: Macon Co.

Trial Status: completed

State/Prov.: GA

Trial Reliability: excellent

Postal Code: 31794

Initiation Date: May-01-06

Country: USA

Planned Completion Date: _____

-Latitude of LL Corner °: _____

-Longitude of LL Corner °: _____

Altitude of LL Corner: _____

Unit: _____ **Angle y-axis to North °:** _____

Map Reference: _____

Directions:

Conducted Under GLP: _

Official Trial Code: _____

Conducted Under GEP: _

Other Trial Code: _____

	Guideline	Description
1.		

Objectives:

Conclusions:

Cooperator/Landowner

Cooperator: _____ **Country:** _____
Organization: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____ **E-mail:** _____

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Crop Description	
Crop 1: GOSHI <i>Gossypium hirsutum</i>	Cotton, American upland
Variety: WS 485 BRFlex	Description: _____
BBCH Scale: BCOT	Planting Date: May-01-06
Planting Method: hill drop/seeded	Rate, Unit: 2 per 8"
Depth, Unit: 0.5 in	Perennial Age, Unit: _____
Row Spacing, Unit: 36 inch	Spacing Within Row, Unit: _____
Seed Bed: bedded	Soil Temperature, Unit: 79 F
Soil Moisture: moist	Emergence Date: May-06-06
Harvest Date: _____	Harvest Equipment: _____
Harvested Width, Unit: _____	Harvested Length, Unit: _____
% Standard Moisture: _____	Moisture Meter: _____
Weighing Equipment: _____	

Pest Description	
Pest 1 Type: W	Code: AMAPA <i>Amaranth, Palmer</i>
	Common Name: <i>Amaranthus palmeri</i>
	Description: _____

Site and Design			
Plot Width, Unit: 12	FT	Site Type:	On farm
Plot Length, Unit: 22	FT	Tillage Type:	Conventional
Replications: 4		Study Design:	Randomized Complete Block
% Slope: _____		Soil Drainage:	_ _____

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

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

Comment:

Field Prep./Maintenance:

Soil Description			
Description Name: _____			
% Sand: 82	% OM: 6.3	Texture:	loamy sand
% Silt: 14	pH: 2.0	Soil Name:	_____
% Clay: 4	CEC: _____	Fert. Level:	_____
Analyzed By: _____			

Additional Measured Elements		
Element	Quantity	Unit

Moisture Conditions		
Overall Moisture Conditions: Moist at planting; very dry after POST 2 applicatio		
Closest Weather Station: _____	Distance: _____	Unit: _____

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	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-05-06		1	in			
2.	May-07-06		2.5	in			
3.	May-10-06		2.0	in			
4.	Jun-20-06		0.4	in			

Application Description

	A	B	C	D
Application Date:	May-01-06	May-23-06	May-28-06	Jun-20-06
Time of Day:	5 pm	11 am	1 pm	7 pm
Application Method:	broadcast	broadcast	broadcast	broadcast
Application Timing:	PRE	POST 1	POST 2	PDIR
Application Placement:	on soil	overtop	overtop	directed
Applied By:	SC	SC	SC	SC
Air Temperature, Unit:	77 F	86 F	92 F	89 F
% Relative Humidity:	35	52	45	60
Wind Velocity, Unit:	3 mph	1 mph	2 mph	4 mph
Wind Direction:				
Dew Presence (Y/N):	n	n	n	n
Water Hardness:				
Soil Temperature, Unit:	79 F	78 F	105 F	89 F
Soil Moisture:	moist	verymoist	dry/fair	moist
% Cloud Cover:	0	0	0	95
Next Rain Occurred On:				

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	not up 100	1 leaf 100	3.5 leaf 80	10 leaf 80
Stage Minimum, Percent:	.	.	3 leaf 10	9 leaf 10
Stage Maximum, Percent:			4 leaf 10	11 leaf 10
Diameter, Unit:	0 in			
Height, Unit:	0 in	1.5 in	4 in	15 in
Height Minimum, Maximum:	0 0	1.5 1.5	4 4	13 17

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	AMAPA W DESC	AMAPA W DESC	AMAPA W DESC	AMAPA W DESC
Stage Majority, Percent:	not up 100	1 inch 100	3 inch 50	10 in 50
Stage Minimum, Percent:			1-3 in 40	2 in 10
Stage Maximum, Percent:			4 in 10	15 in 40
Diameter, Unit:				
Height, Unit:	0 in	1 in		
Height Minimum, Maximum:	0 0	1 1		
Density, Unit:	0 ydsq	50 ydsq	50 ydsq	50 ydsq
Coverage, Unit:	100 %	100 %	95 %	50 %

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Application Equipment

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure, Unit:	24 PSI	24 PSI	24 PSI
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch	18 inch
Nozzles/Row:	2	2	2
Nozzle Calibration, Unit:			
Band Width, Unit:			
Boom ID:			
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft
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:	water	water	water
Spray Volume, Unit:	14.8 GAL/AC	14.8 GAL/AC	14.8 GAL/AC
Mix Size, Unit:			
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y
	D		
Appl. Equipment:	backpack		
Operating Pressure, Unit:	18 PSI		
Nozzle Type:	floodjet		
Nozzle Size:	TK2		
Nozzle Spacing, Unit:	36 inch		
Nozzles/Row:	1		
Nozzle Calibration, Unit:			
Band Width, Unit:			
Boom ID:			
Boom Length, Unit:			
Boom Height, Unit:	15 inch		
Ground Speed, Unit:	3 mph		
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water		
Spray Volume, Unit:	14.8 GAL/AC		
Mix Size, Unit:			
Spray pH:			
Propellant:	CO2		
Tank Mix (Y/N):	Y		

Equipment Comment:

Trt No Treatment Application Comment

Date By Notes

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Date	By	Deviations
_____	_____	

Reasons: