

# University of Georgia

**GR Palmer amaranth and cotton response to acetochlor programs.**

Trial ID: C7-2009  
Location: Macon County

Study Director: Stanley Culpepper  
Investigator: Stanley Culpepper

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Growth Stage	Appl Code	Amt Product to Measure	Plots: 12 by 25 feet			
									Plot No.	1	2	3
										405		
1	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	101	204	302	405
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	PARRLAY	8	SC	1.33	lb ai/a	POST	C	22.46 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	DIURON	4	SC	0.75	lb ai/a	PD	D	25.34 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				
2	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	102	207	301	402
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	DUAL MAGNUM	7.62	EC	0.95	lb ai/a	POST	C	16.85 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	DIURON	4	SC	0.75	lb ai/a	PD	D	25.34 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				
3	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	103	205	304	406
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	MON 63410	3	CS	1.13	lb ai/a	POST	C	50.9 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	DIURON	4	SC	0.75	lb ai/a	PD	D	25.34 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				
4	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	104	206	305	408
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	MON 63410	3	CS	1.13	lb ai/a	POST	C	50.9 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	MON 63410	3	CS	1.13	lb ai/a	PD	D	50.9 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				
5	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	105	208	303	404
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	PARRLAY	8	SC	1.33	lb ai/a	POST	C	22.46 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	MON 63410	3	CS	1.13	lb ai/a	PD	D	50.9 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				
6	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	106	201	308	407
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	PARRLAY	8	SC	1.33	lb ai/a	POST	C	22.46 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	MON 63410	3	CS	1.5	lb ai/a	PD	D	67.56 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				

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Use 2 liters(s) per treatment mixture to spray 14.8 gal/ac

Plots: 12 by 25 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Amt Product to Measure	Plot No.	By Rep		
									1	2	3	4
7	VALOR	50	WG	0.062	lb ai/a	BD	A	2.008 g/mx	107	203	306	401
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	BD	A	22.52 ml/mx				
	COTORAN 4	4	SC	1	lb ai/a	PRE	B	33.78 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	POST	C	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	POST	C	40.0 g/mx				
	DIURON	4	SC	0.75	lb ai/a	PD	D	25.34 ml/mx				
	ROUNDUP POWERMAX	4.5	SL	0.75	lb ai/a	PD	D	22.52 ml/mx				
	AMS PREM BLEND	100	DF	2	% w/v	PD	D	40.0 g/mx				
8	Non-treated Control								108	202	307	403

Sort Order: Treatment

## Trial Comments

OBJECTIVE: Determine cotton and Palmer amaranth response to MON 63410 applied POST and POST-directed.

### VISUAL INJURY:

1. Little to no injury was noted at 2 DAT.
2. At 7 DAT, injury was similar from topical applications of glyphosate plus Parrlay, Dual, or MON 63410 (15-18%).
3. At 12 DAT, injury from these same treatments ranged from 7 to 12%.
4. No injury from topical applications was noted 19 DAT.
5. Diuron atlaby caused 10 to 15% yellowing at 7 and 16 DAT, no injury was noted with directed applications of MON 63410. Layby treatments were applied 5 inches up the cotton stem because rains had delayed an earlier application.
6. No injury from directed applications was noted 35 d after treatment.

### PALMER AMARANTH RESPONSE:

1. Preplant and at-plant residual herbicides did not provide adequate control of Palmer. On May 11, 15 plants per square yard were present in all treatments but was only 1/16 inch tall. Staple at 2.6 fl oz was applied topically to remove these plants except in the non-treated control.
2. On May 31, no pigweed was up in any system including herbicides thus the trial (except the control) was cultivated twice. Immediately after plowing topical applications were made, thus no pigweed was emerged at time of application. Rainfall occurred 4 d after application.
3. By 7 d after plowing and topical application, an intense flush of Palmer had emerged.
4. At 7 d after topical applicaitons, residual control from MON 63410, Dual Magnum, and Parrlay ranged from 99 to 99%.
5. By 12 d after topical applicaitons, resiual control from MON 63410 and Dual Magnum tended to be slightly more effective than Parrlay.
6. By 19 d after topical applications, MON63410 provided at least 15% greater control than Dual Magnum which provided at least 12% better control than Parraly.
7. At 19 d after topical applications, layby treatments were made. Glyphosate plus MON 63410 provided little control of emerged plants while diuron mixtures provided good control of pigweed in plots previously treated with MON 63410 or Dual Magnum. More pigweeds in plots previously treated with Parrlay were to large to control with diuron when compared to MON 63410 or Dual Magnum.

### PALMER POPULATION COUNTS:

1. At 19 d after topical applications, four 1 square yard counts were made per plot.
2. Results were variable as usual but less plants numerically were noted in plots treated POST with MON 63410, followed by the Dual Magnum, followed by Parrlay.

### GENERAL COMMENTS:

1. April 30, 2009: Gramoxone Inleon included with PRE treatments
2. May 11, 2009: Overspray trial exceptfor check with Staple 2.6 fl. oz. + NIS as AMAPA was 1/16 of an inch tall. Control was complete with this treatment.
3. May 31, 2009: Cultivated 2 hours before POST application

### 2009 Macon Co. Rainfall Data:

4-15: 0.75 in

4-21: 0.2 in

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4-23: 0.4 in

5-5: 0.25 in

5-6: 0.75 in

5-7: 0.25 in

5-10: 0.75 in

5-17: 0.75 in

5-28: 1.4 in

6-4: 0.77 in

6-5: 0.11 in

6-15: 0.56

7-5: 0.1 in

7-6: 0.03 in

7-8: 1.1 in

7-13: 0.24 in

7-23: 0.41 in

7-26: 0.14 in

7-27: 0.01 in

7-28: 0.46 in

7-29: 0.1 in

7-30: 0.22 in

7-31: 0.25 in

8-2: 0.01 in

8-5: 1.04 in

8-9: 0.08 in

8-11: 0.16 in

8-16: 0.22 in

8-17: 1.03 in

8-19: 0.6 in

8-21: 0.02 in

8-27: 0.21 in

8-28: 1.35 in

8-30: 0.25 in

8-31: 0.01 in

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Trial ID: C7-2009  
Location: Macon County

Study Director: Stanley Culpepper  
Investigator: Stanley Culpepper

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Pest Type									W Weed										
Pest Code									AMAPA										
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI											
BBCH Scale	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT	BCOT											
Rating Date	6/2/2009	6/7/2009	6/12/2009	6/19/2009	6/26/2009	7/5/2009	7/24/2009		6/7/2009										
Rating Data Type	injury	injury	injury	injury	injury	injury	injury		control										
Rating Unit	%	%	%	%	%	%	%		%										
Days After Last Applic.	2	7	12	0	7	16	35		7										
Trt-Eval Interval	2 DA-C	7 DA-C	12 DA-C	19 DA-C	7 DA-D	16 DA-D			7 DA-C										
ARM Action Codes																			
Trt	Treatment	Rate																	
No.	Name	Rate	Unit	1	2	3	4	5	6	7	8	9							
7	VALOR	0.062	lb ai/a	0.5	a	0.0	b	0.0	c	0.0	a	15.0	a	15.0	a	0.0	a	83.3	d
	ROUNDUP POWERMAX	0.75	lb ai/a																
	COTORAN 4	1	lb ai/a																
	ROUNDUP POWERMAX	0.75	lb ai/a																
	AMS PREM BLEND	2	% w/v																
	DIURON	0.75	lb ai/a																
	ROUNDUP POWERMAX	0.75	lb ai/a																
	AMS PREM BLEND	2	% w/v																
8	Non-treated Control			0.0	a	0.0	b	0.0	c	0.0	a	0.0	c	0.0	c	0.0	a	0.0	e
	LSD (P=.05)			2.65		3.53		3.53		0.00		1.96		4.99		0.00		.	4.60
	Standard Deviation			1.80		2.40		2.40		0.00		1.33		3.40		0.00		.	3.13
	CV			83.7		19.71		36.05		0.0		18.98		54.06		0.0		.	3.84
	Bartlett's X2			3.689		9.664		4.136		0.0		0.81		7.997		0.0		.	10.387
	P(Bartlett's X2)			0.719		0.085		0.53		.		0.667		0.018*		.	.	.	0.034*
	Replicate F			4.487		0.137		0.396		0.000		1.000		2.070		0.000		.	0.438
	Replicate Prob(F)			0.0139		0.9366		0.7571		1.0000		0.4123		0.1349		1.0000		.	0.7284
	Treatment F			2.455		39.663		13.435		0.000		127.536		16.635		0.000		.	453.838
	Treatment Prob(F)			0.0525		0.0001		0.0001		1.0000		0.0001		0.0001		1.0000		.	0.0001

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA
Crop Code								
BBCH Scale								
Rating Date	6/12/2009	6/19/2009	6/26/2009	7/5/2009	7/24/2009	9/17/2009		
Rating Data Type	control	control	control	control	control	control		
Rating Unit	%	%	%	%	%	%		
Days After Last Applic.	12	0	7	16	35	90	0	
Trt-Eval Interval	12 DA-C	19 DA-C	7 DA-D	16 DA-D	35 DA-D	90 DA-D	19 DA-C	
ARM Action Codes							T1	
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Rate	Unit	10	11	12	13	14	15
1 VALOR	0.062	Ib ai/a	88.8	c	60.0	bc	90.3	a
ROUNDUP POWERMAX	0.75	Ib ai/a						
COTORAN 4	1	Ib ai/a						
PARRLAY	1.33	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
DIURON	0.75	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
2 VALOR	0.062	Ib ai/a	89.5	c	72.3	b	95.3	a
ROUNDUP POWERMAX	0.75	Ib ai/a						
COTORAN 4	1	Ib ai/a						
DUAL MAGNUM	0.95	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
DIURON	0.75	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
3 VALOR	0.062	Ib ai/a	95.8	ab	87.3	a	93.8	a
ROUNDUP POWERMAX	0.75	Ib ai/a						
COTORAN 4	1	Ib ai/a						
MON 63410	1.13	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
DIURON	0.75	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
4 VALOR	0.062	Ib ai/a	96.5	a	88.0	a	81.0	b
ROUNDUP POWERMAX	0.75	Ib ai/a						
COTORAN 4	1	Ib ai/a						
MON 63410	1.13	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
MON 63410	1.13	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
5 VALOR	0.062	Ib ai/a	87.5	c	57.0	c	58.8	c
ROUNDUP POWERMAX	0.75	Ib ai/a						
COTORAN 4	1	Ib ai/a						
PARRLAY	1.33	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
MON 63410	1.13	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
6 VALOR	0.062	Ib ai/a	91.3	bc	60.8	bc	66.3	c
ROUNDUP POWERMAX	0.75	Ib ai/a						
COTORAN 4	1	Ib ai/a						
PARRLAY	1.33	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						
MON 63410	1.5	Ib ai/a						
ROUNDUP POWERMAX	0.75	Ib ai/a						
AMS PREM BLEND	2	% w/v						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA
Crop Code							
BBCH Scale							
Rating Date	6/12/2009	6/19/2009	6/26/2009	7/5/2009	7/24/2009	9/17/2009	6/19/2009
Rating Data Type	control	control	control	control	control	control	QUAD1-4
Rating Unit	%	%	%	%	%	%	#plants
Days After Last Applic.	12	0	7	16	35	90	0
Trt-Eval Interval	12 DA-C	19 DA-C	7 DA-D	16 DA-D	35 DA-D	90 DA-D	19 DA-C
ARM Action Codes							T1
Trt Treatment	Rate						
No. Name	Rate	Unit	10	11	12	13	14
7 VALOR	0.062	lb ai/a	71.3	d	30.0	d	82.5
ROUNDUP POWERMAX	0.75	lb ai/a			b	73.0	c
COTORAN 4	1	lb ai/a					
ROUNDUP POWERMAX	0.75	lb ai/a					
AMS PREM BLEND	2	% w/v					
DIURON	0.75	lb ai/a					
ROUNDUP POWERMAX	0.75	lb ai/a					
AMS PREM BLEND	2	% w/v					
8 Non-treated Control	0.0	e	0.0	e	0.0	d	0.0
LSD (P=.05)	5.20		12.60		7.69		9.57
Standard Deviation	3.54		8.56		5.23		6.51
CV	4.56		15.05		7.36		9.86
Bartlett's X2	5.823		15.686		10.556		11.599
P(Bartlett's X2)	0.443		0.016*		0.103		0.072
Replicate F	5.888		0.490		0.700		0.471
Replicate Prob(F)	0.0044		0.6929		0.5625		0.7060
Treatment F	333.191		47.595		144.862		83.752
Treatment Prob(F)	0.0001		0.0001		0.0001		0.0001
							0.254
							0.220
							0.8574
							0.8809
							117.736
							26.460
							0.0001
							0.0001

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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## GR Palmer amaranth and cotton response to acetochlor programs.

Trial ID: C7-2009  
Location: Macon County

Study Director: Stanley Culpepper  
Investigator: Stanley Culpepper

### General Trial Information

<b>Study Director:</b> Stanley Culpepper	<b>Title:</b> Ext. Weed Science
<b>Affiliation:</b> Univ. of Georgia	
<b>Postal Code:</b> 31794	
<b>Investigator:</b> Stanley Culpepper	<b>Title:</b> Ext. Weed Science
<b>Affiliation:</b> Univ. of Georgia	
<b>Postal Code:</b> 31794	

### Trial Location

<b>City:</b> Macon Co.	<b>Trial Status:</b>	completed
<b>State/Prov.:</b> GA	<b>Trial Reliability:</b>	good
	<b>Initiation Date:</b>	4/12/2009

**Country:** USA  
**Directions:**

### Objectives:

### Conclusions:

### Crop Description

<b>Crop 1:</b> GOSHI Gossypium hirsutum	Cotton, American upland
<b>Variety:</b> DP 0935	
<b>BBCH Scale:</b> BCOT	<b>Planting Date:</b> 4/30/2009
<b>Planting Method:</b> seeded	<b>Rate, Unit:</b> 4 foot
<b>Depth, Unit:</b> 0.5 in	
<b>Row Spacing, Unit:</b> 36 in	<b>Spacing Within Row, Unit:</b> 4 in
<b>Seed Bed:</b> flat	<b>Soil Temperature, Unit:</b> 70 F
<b>Soil Moisture:</b> moist	<b>Emergence Date:</b> 5/5/2009

### Pest Description

**Pest 1 Type:** W **Code:** AMAPA **Common Name:** Palmer amaranth

### Site and Design

<b>Plot Width, Unit:</b> 12 FT	<b>Site Type:</b> On Farm
<b>Plot Length, Unit:</b> 25 FT	<b>Tillage Type:</b> Strip tillage
<b>Replications:</b> 4	<b>Study Design:</b> Randomized Complete Block

### Trial Initiation Comments:

### Field Prep./Maintenance:

### Soil Description

<b>% Sand:</b> 82	<b>% OM:</b> 6.1	<b>Texture:</b> loamy sand
<b>% Silt:</b> 14	<b>pH:</b> 2	
<b>% Clay:</b> 4		

### Moisture Conditions

**Overall Moisture Conditions:** moist  
**Closest Weather Station:** rainfall taken on site      **Distance:** 0      **Unit:** mi

### Application Description

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Application Date:</b>	4/12/2009	4/30/2009	5/31/2009
<b>Time of Day:</b>	7:30 am	8:00 am	3:00 pm
<b>Application Method:</b>	broadcast	broadcast	broadcast
<b>Application Timing:</b>	BD	PRE	POST
<b>Application Placement:</b>	overtop	on soil	overtop
<b>Applied By:</b>	Culpepper	Culpepper	Culpepper
<b>Air Temperature, Unit:</b>	55 F	70 F	92 F
<b>% Relative Humidity:</b>	75	60	40
<b>Wind Velocity, Unit:</b>	3 mph	0 mph	4 mph
<b>Dew Presence (Y/N):</b>	N	Y	N
<b>Soil Temperature, Unit:</b>	63 F	68 F	94 F
<b>Soil Moisture:</b>	moist	moist	moist
<b>% Cloud Cover:</b>	0	0	5
			0

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**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Crop 1 Code, BBCH Scale:</b>	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT
<b>Stage Scale Used:</b>	BBCH	BBCH	BBCH	BBCH
<b>Stage Majority, Percent:</b>	preplant 100	PRE 100	5 lf 100	12 lf 100
<b>Stage Minimum, Percent:</b>	preplant 100	PRE 100	5 lf 100	12 lf 100
<b>Stage Maximum, Percent:</b>	preplant 100	PRE 100	5 lf 100	12 lf 100
<b>Height, Unit:</b>	0 in	0 in	6 in	12.5 in
<b>Height Minimum, Maximum:</b>	0 0	0 0	5 6	11 14

**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Pest 1 Code, Disc., Scale:</b>	AMAPA W .	AMAPA W .	AMAPA W .	AMAPA W .
<b>Stage Majority, Percent:</b>	prepla 100	PRE 100	plowed 100	7 inch 40
<b>Stage Minimum, Percent:</b>	prepla 100	PRE 100	plowed 100	3 inch 40
<b>Stage Maximum, Percent:</b>	prepla 100	PRE 100	plowed 100	10 inc 20
<b>Height, Unit:</b>	0 in	0 in	0 in	7 in
<b>Height Minimum, Maximum:</b>	0 0	0 0	0 0	3 10
<b>Density, Unit:</b>	0. .	0. .	0. .	15 ydsq
<b>Coverage, Unit:</b>				100 %

**Application Equipment**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>Appl. Equipment:</b>	backpack	backpack	backpack	backpack
<b>Operating Pressure:</b>	24	24	24	28
<b>Pressure Unit:</b>	psi	psi	psi	psi
<b>Nozzle Type:</b>	flat fan	flat fan	flat fan	floodjet
<b>Nozzle Size:</b>	11002	11002	11002	TK 2
<b>Nozzle Spacing, Unit:</b>	18 in	18 in	18 in	36 in
<b>Nozzles/Row:</b>	2	2	2	1
<b>Boom Length, Unit:</b>	4.5 ft	4.5 ft	4.5 ft	4.5 ft
<b>Boom Height, Unit:</b>	15 in	15 in	15 in	18 in
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph	3 mph
<b>Spray Volume:</b>	15	15	15	15
<b>Volume Unit:</b>	GAL/AC	GAL/AC	GAL/AC	GAL/AC
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y