			Resi	stant	: Palme		anth su Year 1	stain	ability stu	dy.				
Tri	al ID: C29-06				Stud			ae, Cu	lpepper					
	ation: Macon (paved	lrd)							lpepper					
Rep			by 100) feet					-					
	ay vol: 14.8 gal/ac		-		ons (min	6.5234))							
			Form		,	Rate	Grow	Appl	Amt Product	Plot N	lo. By l	Rep		
			Unit		Rate	Unit	Stg		to Measure	1	2	3	4	
	RRF COTTON						~			102	208	308	404	
1	DRYLAND												-	
1	Prowl H20	3.8		L		PT/A	PRE	А	671.3 ml/mx					
	Reflex	2		L		PT/A	PRE	А	319.7 ml/mx					
	Roundup WeatherMax	4.5		L		OZ/A	POST1	В	439.6 ml/mx					
1	Roundup WeatherMax	4.5		L		OZ/A	POST2	C	439.6 ml/mx					
1	Direx	4		L		PT/A		E	639.4 ml/mx					
1	MSMA NIS	6				LB A/A		E E	852.5 ml/mx					
				L	0.25	% V/V	LFU	C	94.63 ml/mx	101	000	200	400	
2										104	206	306	408	
1	DRYLAND Prowl H20	3.8		L	0.1	PT/A	PRE	А	671.3 ml/mx					
1	Reflex	3.0 2		L		PT/A	PRE	A	319.7 ml/mx					
1	Roundup WeatherMax	4.5		L	-	OZ/A	POST1	В	439.6 ml/mx					
1	Dual Magnum	7.62		L		PT/A	POST1	В	319.7 ml/mx					
1	Roundup WeatherMax	4.5		L		OZ/A	POST2	C	439.6 ml/mx					
	Direx	4		L	2	PT/A	LPD	Е	639.4 ml/mx					
1	MSMA	6		L		LB A/A		Е	852.5 ml/mx					
	NIS			L	0.25	% V/V	LPD	E	94.63 ml/mx					
3	RRF COTTON									106	210	304	410	
1	DRYLAND													
1	Prowl H20	3.8		L		PT/A	PRE	A	671.3 ml/mx					
1	Reflex	2		L		PT/A	PRE	A	319.7 ml/mx					
1	Roundup WeatherMax	4.5		L		OZ/A	POST1	B	439.6 ml/mx					
1	Dual Magnum Roundup WeatherMax	7.62 4.5		L		PT/A OZ/A	POST1 POST2	B	319.7 ml/mx 439.6 ml/mx					
1	Roundup WeatherMax	4.5 4.5		L		OZ/A	POST2 POST3		439.6 ml/mx 439.6 ml/mx					
1	Staple	3.2		L		OZ/A	POST 3		33.97 ml/mx					
4	RRF COTTON									108	204	302	406	
	DRYLAND									.00	204	002	100	
1	Prowl H20	3.8		L	2.5	PT/A	PRE	А	799.2 ml/mx					
1	Direx	4		L		QT/A	PRE	A	639.4 ml/mx					
1	Roundup WeatherMax	4.5		L	22	OZ/A	POST1	В	439.6 ml/mx					
1	Dual Magnum	7.62		L	0.0625		POST1	В	19.98 ml/mx					
1	Roundup WeatherMax	4.5		L		OZ/A	POST2	С	439.6 ml/mx					
1	Valor SX	51		WG		OZ/A	LPD	E	38.31 g/mx					
1	MSMA	6		L		PT/A	LPD	E	767.2 ml/mx					
<u> </u>	NIS			L	0.25	% V/V	LPD	E	94.63 ml/mx					
5	RRF COTTON									110	202	310	402	
1	DRY LAND	20			04			٨	671.2 ml/m					
1	Prowl H20 Reflex	3.8 2		L		PT/A PT/A	PRE PRE	A A	671.3 ml/mx 319.7 ml/mx					
1	Roundup WeatherMax	2 4.5		L		OZ/A	PRE POST1	B	439.6 ml/mx					
1	Dual Magnum	7.62		L		PT/A	POST1	В	439.0 ml/mx 319.7 ml/mx					
1	Roundup WeatherMax	4.5		L		OZ/A	POST2	C	439.6 ml/mx					
1	Direx	4		L		PT/A	LPD	Ē	639.4 ml/mx					
1	MSMA	6		L		LB A/A		E	852.5 ml/mx					
L	NIS			L	0.25	% V/V	LPD	Е	94.63 ml/mx					
													-	l de la construcción de

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University of Georgia

Spray vol: 14.8 gal/ac Mix size: 10 gallons (min 6.5234) Trt Form Form Form Rate Grow Appl Anth Product Plot No. By Rep No. Name Conc Unit Stg Code to Measure 1 2 3 4 6 R C CORN DRYLAND Atrazine 4 L 1 QT/A PRE A 639.4 ml/mx 101 209 307 405 Atrazine 4 L 1 QT/A PRE A 639.4 ml/mx 101 209 307 405 7 RR CORN 4 L 1.5 QT/A POST1 B 439.6 ml/mx 103 205 305 403 9 Regree 4 L 1.1 QT/A PRE A 703.3 ml/mx 103 205 305 403 0 Degree Extra 4 L 1.1 QT/A PRE A 703.3 ml/mx	Rep	s: 4 Plo	ots: 48	by 10	0 feet										
No. Name Conc Unit Type Rate Unit Stg Code to Measure 1 2 3 4 6 RR CORN DRYLAND 101 209 307 405 Atrazine 4 L 1 QT/A PRE A 639.4 ml/mx 405 Atrazine 4 L 1.5 QT/A POST1 B 439.6 ml/mx 405 2,4-D as needed 4 L 1.5 QT/A POST1 B 959.0 ml/mx 403 7 RR CORN 103 205 305 403 Degree Extra 4 L 1.1 QT/A PRE A 703.3 ml/mx 403 Roundup WeatherMax 4.5 L 22 QZ/A POST1 B 439.6 ml/mx 403 8 RR CORN 105 207 301 409 Bicep II Magnum 5.5 L 1 QT/A POST2 C 439.6 ml/m	Spra	ay vol: 14.8 gal/ac	Mix	size: '	10 gallo	ons (min	6.5234)							
6 RR CORN 101 209 307 405 DRYLAND 4 L 1 QT/A PRE A 639.4 ml/mx 101 209 307 405 Atrazine 4 L 1 QT/A POST1 B 439.6 ml/mx 4 4 1.5 QT/A POST1 B 439.6 ml/mx 4 4 4 1.5 QT/A POST1 B 959.0 ml/mx 405 403 2,4-D as needed 4 L 1.7/A PRE A 703.3 ml/mx 403 403 DRYLAND Degree Extra 4 L 1.1 QT/A PRE A 703.3 ml/mx 403 Degree Extra 4 L 1.1 QT/A PRE A 703.3 ml/mx 403 Bicep II Magnum 5.5 L 1 QT/A PRE A 639.4 ml/mx 409 Bicep II Magnum 5.5 L 1 QT/A PRE A 639.4 ml/mx 409 9 RCORN 100 105 <td< td=""><td>Trt</td><td>Treatment</td><td>Form</td><td>Form</td><td>Form</td><td></td><td>Rate</td><td>Grow</td><td>Appl</td><td>Amt Product</td><td>Plot N</td><td>o. By F</td><td>Rep</td><td></td><td></td></td<>	Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	o. By F	Rep		
DRYLAND Atrazine 4 L 1 QT/A PRE A 639.4 ml/mx A farazine 4 L 12 QZ/A POST1 B 439.6 ml/mx A farazine 4 L 1.5 QT/A POST1 B 439.6 ml/mx A farazine 4 L 1.5 QT/A POST1 B 959.0 ml/mx A farazine 4 L 1.7 QT/A PRE A farazine 103 205 305 403 7 RR CORN	No.	Name	Conc	Unit	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
Atrazine4L1QT/APREA639.4 ml/mxARoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxAAtrazine4L1.5QT/APOST1B959.0 ml/mxA2,4-D as needed4L1PT/AAfter HaE319.7 ml/mxA7RR CORN103205305403Degree Extra4L1.1QT/APREA703.3 ml/mxARoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxARoundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mxABicep II Magnum5.5L1QT/APREA639.4 ml/mxARoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxANondup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxA9RR CORN107203303407DRYLANDLexar3.7L1.5QT/APREA959.0 ml/mxA10RR CORN10.720303407DRYLANDLexar3.7L1.5QT/APREA959.0 ml/mxA10RR CORN1010.720303407DRYLAND200Z/APOST1B439.6 ml/mxA	6	RR CORN									101	209	307	405	
Roundup WeatherMax 4.5 L 22 OZ/A POST1 B 439.6 ml/mx Aise Aise Atrazine 4 L 1.5 QT/A POST1 B 959.0 ml/mx -		DRYLAND													
Atrazine 4 L 1.5 QT/A POST1 B 959.0 ml/mx - - 2,4-D as needed 4 L 1 PT/A After Ha E 319.7 ml/mx -<		Atrazine	4		L	1	QT/A	PRE	А	639.4 ml/mx					
2,4-D as needed 4 L 1 PT/A After Ha E 319.7 ml/mx Image: Constraint of the state of the stat		Roundup WeatherMax	4.5		L	22	OZ/A	POST1	В	439.6 ml/mx					
7RR CORN DRYLAND Degree Extra103205305403Degree Extra4L1.1QT/APREA703.3 ml/mx403Roundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mx409Roundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mx409Bicep II Magnum5.5L1QT/APREA639.4 ml/mx639.4 ml/mx409Bicep II Magnum5.5L1QT/APREA639.4 ml/mx409409Bicep II Magnum5.5L22OZ/APOST2C439.6 ml/mx409Bicep II Magnum5.5L22OZ/APOST1B439.6 ml/mx409Bicep II Magnum5.5L22OZ/APOST2C439.6 ml/mx409Bicep II Magnum5.5L22OZ/APOST2C439.6 ml/mx401Bicep II Magnum5.5L22OZ/APOST2C439.6 ml/mx4079RR CORN107203303407407409401Lexar3.7L1.5QT/APOST2C439.6 ml/mx401Lexar3.7L1.5QT/APOST2C439.6 ml/mx401Nondup WeatherMax4.5L22OZ/APOST2C439.6 ml/mx401DRY LAND10R		Atrazine	4		L	-		POST1	В	959.0 ml/mx					
DRYLAND Degree Extra 4 L 1.1 QT/A PRE A 703.3 ml/mx A A A C A A A C A A A C A A A A A A A C A A A A A A A C A		2,4-D as needed	4		L	1	PT/A	After Ha	E	319.7 ml/mx					
Degree Extra4L1.1QT/APREA703.3 ml/mx roundup WeatherMaxImage: constraint of the state of the st	7	RR CORN									103	205	305	403	
Roundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxRoundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mx8RR CORN105207301409DRYLAND5.5L1QT/APREA639.4 ml/mxBicep II Magnum5.5L1QT/APREA639.4 ml/mxRoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mx9RR CORN200Z/APOST2C439.6 ml/mx1072033039RR CORN1.5QT/APREA959.0 ml/mx1072033034079RR CORN1.5QT/APREA959.0 ml/mx10720330340710RR CORN1.5QT/APOST2C439.6 ml/mx10720330940110RR CORN1.5L220Z/APOST2C439.6 ml/mx10710920130940110RR CORN101QT/APREA639.4 ml/mx10920130940110RR CORN1QT/APREA639.4 ml/mx10920130940110RR CORN1QT/APREA639.4 ml/mx109201309401Atrazine4L1QT/APREA639.4 ml/mx <td< td=""><td></td><td>DRYLAND</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		DRYLAND													
Roundup WeatherMax 4.5 L 22 OZ/A POST2 C 439.6 ml/mx Image: Constraint of the straint of					L					703.3 ml/mx					
8RR CORN DRYLAND105207301409Bicep II Magnum5.5L1QT/APREA639.4 ml/mx639.4 ml/mxRoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mx69RR CORN DRYLAND Lexar3.7L1.5QT/APOST2C439.6 ml/mx1072033034070RCORN DRYLAND Lexar3.7L1.5QT/APREA959.0 ml/mx66610RR CORN DRYLAND Lexar3.7L1.5QT/APREA959.0 ml/mx66610RR CORN DRY LAND Atrazine4.5L22OZ/APOST2C439.6 ml/mx10920130940110RR CORN DRY LAND Atrazine4L1QT/APREA639.4 ml/mx6444410RR CORN DRY LAND Atrazine4L1QT/APREA639.4 ml/mx44<		Roundup WeatherMax	4.5		L				В	439.6 ml/mx					
DRYLAND5.5L1QT/APREA639.4 ml/mxHLLBicep II Magnum5.5L22OZ/APOST1B439.6 ml/mxHLLRoundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mxHHH9RR CORN107203303407DRYLAND1072.033.7L1.5QT/APREA959.0 ml/mxHHHLexar3.7L1.5QT/APOST1B439.6 ml/mxHHH<		Roundup WeatherMax	4.5		L	22	OZ/A	POST2	С	439.6 ml/mx					
Bicep II Magnum5.5L1QT/APREA639.4 ml/mxARoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxAA9RR CORN22OZ/APOST2C439.6 ml/mxAAADRYLAND107203303407Lexar3.7L1.5QT/APREA959.0 ml/mxAARoundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mxAAIon R CORNIon R CORNIon R CORNIon RIon R <td>8</td> <td>RR CORN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>105</td> <td>207</td> <td>301</td> <td>409</td> <td></td>	8	RR CORN									105	207	301	409	
Roundup WeatherMax4.5L22 OZ/APOST1B439.6 ml/mxImage: Comparison of the compar		DRYLAND													
Roundup WeatherMax 4.5 L 22 OZ/A POST2 C 439.6 ml/mx Image: Constraint of the state of the st					L	1	QT/A	PRE	А	639.4 ml/mx					
9RR CORN DRYLAND Lexar3.7L1.5QT/APREA959.0 ml/mx107203303407Lexar3.7L1.5QT/APREA959.0 ml/mx439.6 ml/mx439.6 ml/mx439.6 ml/mx439.6 ml/mx439.6 ml/mxRoundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mx10920130940110RR CORN DRY LAND Atrazine4L1QT/APREA639.4 ml/mx109201309401Atrazine4L1QT/APREA639.4 ml/mx439.6 ml/mx439.6 ml/mx439.6 ml/mx		-			L				-						
DRYLANDLexar3.7L1.5QT/APREA959.0 ml/mxHIIRoundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mxIIIRoundup WeatherMax4.5L22OZ/APOST2C439.6 ml/mxIII10RR CORNImage: Constraint of the state of the stat	_	Roundup WeatherMax	4.5		L	22	OZ/A	POST2	С	439.6 ml/mx					
Lexar3.7L1.5QT/APREA959.0ml/mxRoundup WeatherMax4.5L22OZ/APOST1B439.6ml/mxRoundup WeatherMax4.5L22OZ/APOST2C439.6ml/mx10RR CORNImage: Constraint of the state of the stat	9										107	203	303	407	
Roundup WeatherMax4.5L22 OZ/APOST1B439.6 ml/mx439.6 ml/mx10RR CORN22 OZ/APOST2C439.6 ml/mx109201309401DRY LANDAtrazine4L1 QT/APREA639.4 ml/mx639.4 ml/mx401Roundup WeatherMax4.5L22 OZ/APOST1B439.6 ml/mx401		DRYLAND													
Roundup WeatherMax 4.5 L 22 OZ/A POST2 C 439.6 ml/mx Image: Constraint of the state of the st			-		L				А						
10RR CORN109201309401DRY LANDAtrazine4L1QT/APREA639.4 ml/mx401Atrazine4L22OZ/APOST1B439.6 ml/mx401Roundup WeatherMax4.5L22OZ/APOST1B439.6 ml/mx									-						
DRY LAND Atrazine 4 L 1 QT/A PRE A 639.4 ml/mx Roundup WeatherMax 4.5 L 22 OZ/A POST1 B 439.6 ml/mx		Roundup WeatherMax	4.5		L	22	OZ/A	POST2	С	439.6 ml/mx					
Atrazine4L1 QT/APREA639.4 ml/mxRoundup WeatherMax4.5L22 OZ/APOST1B439.6 ml/mx	10	RR CORN									109	201	309	401	
Roundup WeatherMax 4.5 L 22 OZ/A POST1 B 439.6 ml/mx		DRY LAND													
					L	-									
Atrazine 4 L 1.5 QT/A POST1 B 959.0 ml/mx		•	4.5		L										
					L				-						
2,4-D after harvest 4 L 1 PT/A After Ha E 319.7 ml/mx		2,4-D after harvest	4		L	1	PT/A	After Ha	E	319.7 ml/mx					

Sort Order: Treatment

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

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Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
4,355.627	ml	Prowl H20	3.8	L	
1,598.395	ml	Reflex	2	L	
10,440.648	ml	Roundup WeatherMax	4.5	L	
3,196.791	ml	Direx	4	L	
4,155.828	ml	MSMA	6	L	
473.125	ml	NIS		L	
1,223.771	ml	Dual Magnum	7.62	L	
42.462	ml	Staple	3.2	L	
47.888	g	Valor SX	51	WG	
3,995.989	ml	Atrazine	4	L	
399.599	ml	2,4-D as needed	4	L	
879.118	ml	Degree Extra	4	L	
799.198	ml	Bicep II Magnum	5.5	L	
1,198.797	ml	Lexar	3.7	L	
399.599	ml	2,4-D after harvest	4	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 10 gallons (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 10 gallons.

Resistant Palmer amaranth sustainability study.

Year 1

Trial ID: C29-06 Location: Macon (paved rd) Study Dir.: MacRae, Culpepper Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Determine the most effective management tactics for Palmer amaranth in Georgia.

VISUAL INJURY:

1. Soil applied herbicides caused minor early season stunting (7-10%) in cotton with no injury in corn.

2. Early season POST applications caused little to no injury.

3. Layby treatments in cotton caused 5 to 11% stem necrosis/leaf chlorosis except for Valor plus MSMA. Injury from Valor plus MSMA was 30% which included leaf drop and severe stem burn. Injury from Valor was significant because cotton was only 11 inches tall at time of application. Applications had to be made in an effort to control the Palmer amaranth.

VISUAL PALMER CONTROL:

1. At 19 d PRE treatments, Palmer control was excellent with all cotton and corn systems.

2. In cotton just prior to the layby, control was similar with all programs except the Prowl + Direx PRE system was less effective than the Prowl + Reflex systems.

3. Mid-season control in the corn noted at least 89% with all systems.

4. Late-season control in cotton noted the system of Prowl + Reflex PRE fb Roundup + Dual POST and Direx plus MSMA was the most effective program.

5. Late in the corn crop season during early July, excellent control was noted with 1) Atrazine fb Roundup plus Atrazine and with 2) Lexar followed by WeatherMax.

6. Control in corn plots after harvest on Sept 12 noted poor control with all programs not receiving 2,4-D after harvest.

NUMBER OF PALMER PLANTS PER PLOT:

1. In August at corn harvest, the number of pigweed in each plot were counted for the entire plot.

2. Prowl + Reflex fb RU + Dual fb Direx plus MSMA system averaged 10-12 plants per plot in the cotton. Five times that number was noted in the Prowl + Direx PRE system while nearly 3 times that number were noted with RU + Staple as compared to Direx + MSMA at layby.

2. At corn harvest, the number of plants per plot were similar in the Atrazine fb Atrazine systems and the Lexar system. Three to five times more plants were noted in the Degree Extra system and the Bicep II system.

COTTON YIELD:

1. Six rows by 10 feet were hand harvested.

2. Early-season weed control was excellent with all programs and seed yield was similar among programs with a trend for lower yield in the Valor system likely because of crop injury.

CORN YIELD:

1. One row by 50 feet was harvested for silage.

2. Early-season weed control was excellent with all programs and yield was similar among programs.

Resis	tant Palme			ability s	tudy.			
		Year		-				
Trial ID: C29-06		y Dir.: N						
Location: Macon (paved rd)	Invest	igator: S	stanley Ci					
Weed Code		_	_	AMAPA	AMAPA	AMAPA	AMAPA	
Crop Code	Crop	Crop	Crop					
Rating Data Type	injury	injury			control	control	control	
Rating Unit	%	%	%		%	%	%	
Rating Date				May-23-06				
Assessed By	SC 10 DA A	SC	SC 47 DA-A		SC	SC	SC	
Trt-Eval Interval ARM Action Codes	19 DA-A	28 DA-A	47 DA-A	19 DA-A	28 DA-A	47 DA-A	56 DA-A	
# Subsamples, Dec.								
Trt Treatment Rate	1	2	3	4	F	e	7	
No. Name Rate Unit					5	6		
1 RRF COTTON	9 a	0 a	13 b	99 a	91 ab	83 c	81 bc	
DRYLAND								
Prowl H20 2.1 PT/A Reflex 1 PT/A								
Reflex 1 PT/A Roundup WeatherMax 22 OZ/A								
Roundup WeatherMax 22 OZ/A Roundup WeatherMax 22 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/A								
NIS 0.25 % V/V								
2 RRF COTTON	11 a	0 a	8 cd	99 a	96 a	87 c	86 b	
DRYLAND	11 0	υu	0.00	55 u	50 u	07 0	00 0	
ProvI H20 2.1 PT/A								
Reflex 1 PT/A								
Roundup WeatherMax 22 OZ/A								
Dual Magnum 1 PT/A								
Roundup WeatherMax 22 OZ/A								
Direx 2 PT/A								
MSMA 2 LB A/A								
NIS 0.25 % V/V								
3 RRF COTTON	7 a	0 a	5 de	99 a	95 a	86 c	82 bc	
DRYLAND								
Prowl H20 2.1 PT/A								
Reflex 1 PT/A								
Roundup WeatherMax 22 OZ/A								
Dual Magnum 1 PT/A								
Roundup WeatherMax 22 OZ/A								
Roundup WeatherMax 22 OZ/A								
Staple 1.7 OZ/A								
4 RRF COTTON	10 a	2 a	30 a	99 a	81 c	70 d	75 c	
DRYLAND								
Prowl H20 2.5 PT/A								
Direx 1 QT/A Roundup WeatherMax 22 OZ/A								
Roundup WeatherMax 22 OZ/A Dual Magnum 0.0625 PT/A								l
Roundup WeatherMax 22 OZ/A								
Valor SX 2 OZ/A								
MSMA 2.4 PT/A								
NIS 0.25 % V/V								
0.20 /0 // /	•							ł

			Sity		orgia			
Weed Code					AMAPA	AMAPA	AMAPA	AMAPA
Crop Code		Crop	Crop	Crop				
Rating Data Type		injury	injury	injury	control	control	control	control
Rating Unit		%	%	%	%	%	%	%
Rating Date					May-23-06			
Assessed By		SC	SC	SC	SC	SC	SC	SC
Trt-Eval Interval		19 DA-A	28 DA-A	47 DA-A	19 DA-A	28 DA-A	47 DA-A	56 DA-A
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate					_		_
	Rate Unit	1	2	3	4	5	6	7
5 RRF COTTON		9 a	0 a	11 bc	99 a	97 a	83 c	84 b
DRY LAND								
Prowl H20	2.1 PT/A							
Reflex	1 PT/A							
Roundup WeatherMax Dual Magnum	22 OZ/A 1 PT/A							
Roundup WeatherMax	22 OZ/A							
Direx	2 PT/A							
MSMA	2 LB A/A							
NIS	0.25 % V/V							
6 RR CORN		0 b	0 a	0 e	99 a	100 a	99 a	100 a
DRYLAND		0.5	υu	00	55 u	100 a	55 u	100 u
Atrazine	1 QT/A							
Roundup WeatherMax	22 OZ/A							
Atrazine	1.5 QT/A							
2,4-D as needed	1 PT/A							
7 RR CORN		0 b	0 a	3 e	99 a	93 a	91 abc	81 bc
DRYLAND								
Degree Extra	1.1 QT/A							
Roundup WeatherMax	22 OZ/A							
Roundup WeatherMax	22 OZ/A							
8 RR CORN		0 b	0 a	0 e	98 a	83 bc	89 bc	75 c
DRYLAND								
Bicep II Magnum	1 QT/A							
Roundup WeatherMax	22 OZ/A							
Roundup WeatherMax	22 OZ/A							
9 RR CORN		0 b	0 a	1 e	99 a	99 a	97 ab	99 a
DRYLAND								
Lexar	1.5 QT/A							
Roundup WeatherMax	22 OZ/A							
Roundup WeatherMax	22 OZ/A							
10 RR CORN		0 b	0 a	0 e	94 b	100 a	98 ab	99 a
	4 07/							
Atrazine	1 QT/A							
Roundup WeatherMax	22 OZ/A							
Atrazine 2,4-D after harvest	1.5 QT/A 1 PT/A							
	I 11/A							
LSD (P=.05)		3.8	1.4	4.7	3.1	9.6	8.1	7.4
Standard Deviation		2.6	0.9	3.2	2.1	6.6 7.07	5.6	5.1
CV Bartlattia X2		56.9	632.46	46.62	2.17	7.07	6.3 7 975	5.95
Bartlett's X2		6.045	0.0	11.712		20.754 0.004*	7.875	17.13
P(Bartlett's X2)		0.196		0.039*	0.005*	0.004"	0.446	0.047*

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

Crop Code Rating Data Type Rating Data Type Rating Data Trating UnitControl controlZEAMX per plotZEAMX per plotGOSHI per plotGOSHI per plotRating Date Assessed By TrE-val IntervalSep 12-06 SCAug-01-06 Aug-01-06Aug-01-06 Aug-01-06Aug-01-06 Aug-01-06Aug-01-06 Aug-01-06Nov-06-06 Aug-01-06Nov-06-06 Nov-06-06Nov-06-06 Nov-06-06ARM Action Codes # Subsamples, Dec.131 DA-A R ate Unit89 DA-A89 DA-A TY289 DA-A TY2186 DA-A TY2186 DA-A TY21Tr Treatment Prowi H20Rate 2.1 PT/A Roundup WeatherMax NIS71 c 2.2 CZ/A Direx21 pT/A Reflex6 a 1409.7 a 1409.7 a2RRF COTTON DRYLAND91 ab Prowi H2012 c6 a a 1421.8 a2RRF COTTON DRYLAND91 ab Prowi H2012 c6 a a 1421.8 a2RRF COTTON DRYLAND91 ab Prowi H2012 c6 a a2RRF COTTON DRYLAND91 ab Prowi H2012 c6 a a11421.8 a A1421.8 a A1421.8 a A1Dad Magnum Reflex1 PT/A Roundup WeatherMax 22 OZ/A Direx80 bc47 bc3RRF COTTON Prowi H202.1 PT/A Roundup WeatherMax 22 OZ/A Drik80 bc47 bc3RRF COTTON Prowi H202.1 PT/A Roundup WeatherMax 22 OZ/A Roundup WeatherMax Prowi H201 PT/A Roundup WeatherMax 22 OZ/A Roundup WeatherMax 22 OZ/A6 a Round								
Crop Code ZEANX ZEANX ZEANX SEANI GOSHI GOSH Rating Data Type control per plot per plot per plot per plot per dot	Weed Code		AMAPA	AMAPA	Silage	Silage	Seed	Seed
Rating Data Type control per ptor per ptor ytELD per of ytet								
Rating Dunit 9,6 i i wt/b LB/A wt/b LB/A Rating Date Sep-12:06 Aug-01:06 Aug-01:06 Aug-01:06 Aug-01:06 Nov-06:06 Nov-06:06 Sesessed By 131 DA-A 89 DA-A 89 DA-A 89 DA-A 186 DA-7 Tr/T # Subsamples, Dec. 1 1 12 13 Tr/T 1 1 12 1 1 17 Tr/T 1			control	per plot				
Rating Date Sep-12-06 Aug-01-06 Aug-01-06 Aug-01-06 Nov-06-06 Nov-06-06 Assessed By 131 DA-A 89 DA-A 89 DA-A 89 DA-A 186 DA-A Try2 Try1 Try1 Try2 Try1 Try1 <td>a 11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>	a 11						•	
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ARM Action Codes TY2 TY1 # Subsamples, Dec. 1								
# Subsamples, Dec. 1 1 1 1 Tr. Treatment Rate Name Rate 1 1 12 13 1 RRF COTTON Prowl H20 2.1 PT/A 21 c 1 6 a 1409.7 c DRYLAND Prowl H20 2.1 PT/A Prowl H20 2.1 PT/A a			131 DA-A	89 DA-A	89 DA-A		186 DA-A	
Tri Treatment No. Name Rate Unit 8 9 10 11 12 13 1 RRF COTTON Prowl H20 2.1 PT/A 21 c 6 a 1409.7 c Prowl H20 2.1 PT/A a a a a a Reflex 1 PT/A a a a a a a Roundup WeatherMax 22 OZ/A a								IY1
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Prowl H20 2.1 PT/A Reliex 1 PT/A Roundup WeatherMax 22 OZ/A Roundup WeatherMax 22 OZ/A Direx 2 PT/A MSMA 2 LB A/A NIS 0.25 % V/V 2 RF COTTON 91 ab DRYLAND 91 ab Prowl H20 2.1 PT/A Roundup WeatherMax 22 OZ/A Dual Magnum 1 PT/A Roundup WeatherMax 22 OZ/A Dual Magnum 1 PT/A Roundup WeatherMax 22 OZ/A Dual Magnum 1 PT/A Roundup WeatherMax 22 OZ/A Direx 2 PT/A MSMA 2 LB A/A NIS 0.25 % V/V 3 RRF COTTON 80 bc 47 bc Drew 2.1 PT/A Roundup WeatherMax 22 OZ/A Dual Magnum 1 PT/A Roundup WeatherMax 22 OZ/A Dual Magnum 1 PT/A Roundup WeatherMax 22 OZ/A Prowi H20 2.5 PT/A Direx 1 QT/A A			110	21 0			0 4	1100.7 u
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Direx1 QT/ARoundup WeatherMax22 OZ/ADual Magnum0.0625 PT/ARoundup WeatherMax22 OZ/AValor SX2 OZ/AMSMA2.4 PT/ANIS0.25 % V/V5 RRF COTTON91 abProwl H202.1 PT/AProwl H202.1 PT/AReflex1 PT/ARoundup WeatherMax22 OZ/A	Prowl H20	2.5 PT/A						
Roundup WeatherMax22 OZ/ADual Magnum0.0625 PT/ARoundup WeatherMax22 OZ/AValor SX2 OZ/AMSMA2.4 PT/ANIS0.25 % V/V5 RRF COTTON91 abDRY LANDProwl H202.1 PT/AReflex1 PT/ARoundup WeatherMax22 OZ/A	Direx							
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MSMA2.4 PT/ANIS0.25 % V/V5 RRF COTTON91 abDRY LAND91 abProwl H202.1 PT/AReflex1 PT/AReflex1 PT/ARoundup WeatherMax22 OZ/A								
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5 RRF COTTON91 ab13 c6 a1349.8 aDRY LANDProwl H202.1 PT/A6 a1349.8 aProwl H202.1 PT/AAAAReflex1 PT/AAAARoundup Weather Max22 OZ/AAAA								
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Prowl H20 2.1 PT/A Reflex 1 PT/A Roundup WeatherMax 22 OZ/A			91 ab	13 c			6 a	1349.8 a
Reflex1PT/ARoundup WeatherMax22OZ/A	DRY LAND							
Roundup WeatherMax 22 OZ/A	Prowl H20	2.1 PT/A						
	Reflex	1 PT/A						
	Roundup WeatherMax							
	•							
Roundup WeatherMax 22 OZ/A								
Direx 2 PT/A	-							
NIS 0.25 % V/V	NI5	0.25 % V/V						

		Tony		orgia		
Weed Code	AMAPA	AMAPA	Silage	Silage	Seed	Seed
Crop Code			ZEAMX	ZEAMX	GOSHI	GOSHI
Rating Data Type	control	per plot		YIELD		YIELD
Rating Unit	%	#	-	LB/A		LB/A
Rating Date				Aug-01-06		
Assessed By	SC	7.ug 01 00	/lug of oo	7 tug 01 00	100 00 00	1101 00 00
Trt-Eval Interval	131 DA-A	89 DA-A	89 DA-A	89 DA-A	186 DA-A	186 DA-A
ARM Action Codes	131 DA-A	03 DA-A	03 DA-A	TY2	100 DA-A	TY1
# Subsamples, Dec.				1		1
				'		· · · ·
Trt Treatment Rate	0	0	40		10	40
No. Name Rate Unit	8	9	10	11	12	13
6 RR CORN	95 a	63 bc	81 a	23546.4 a		
DRYLAND						
Atrazine 1 QT/A						
Roundup WeatherMax 22 OZ/A						
Atrazine 1.5 QT/A						
2,4-D as needed 1 PT/A						
7 RR CORN	58 d	161 b	83 a	24009.5 a		
DRYLAND						
Degree Extra 1.1 QT/A						
Roundup WeatherMax 22 OZ/A						
Roundup WeatherMax 22 OZ/A						
8 RR CORN	50 d	284 a	75.0	21655.9 a		
DRYLAND	50 u	204 a	75 a	21055.9 a		
Bicep II Magnum 1 QT/A						
Roundup WeatherMax 22 OZ/A						
Roundup WeatherMax 22 OZ/A						
	50.1	40.1	70			
9 RR CORN	56 d	48 bc	76 a	22038.5 a		
DRYLAND						
Lexar 1.5 QT/A						
Roundup WeatherMax 22 OZ/A						
Roundup WeatherMax 22 OZ/A						
10 RR CORN	94 ab	65 bc	81 a	23583.4 a		
DRY LAND						
Atrazine 1 QT/A						
Roundup WeatherMax 22 OZ/A						
Atrazine 1.5 QT/A						
2,4-D after harvest 1 PT/A						
LSD (P=.05)	12.8	105.0	20.8	6038.62	1.8	445.82
Standard Deviation	8.8	72.3				289.35
CV	0.0 11.9	88.03				209.35
GV Bartlett's X2				6.965	-	-
P(Bartlett's X2)	31.882 0.001*	52.233 0.001*	0.965		18.061 0.001*	18.061 0.001*
	0.001	0.001	0.130	0.130	0.001	0.001

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

Column 11: TY2 = 290.4*[10] Column 13: TY1 = 242.0*[C12] Feb-21-07 (C29-06)

University of Georgia

	Resistant	Palmer amaranth sustainability st	cudy.
		Year 1	
Trial ID: C29-06		Study Dir.: MacRae, Culpepper	
Location: Macon	(paved rd)	Investigator: Stanley Culpepper	
	GENERAL TRI	AL INFORMATION	
Study Director:	Andrew MacRae	Title: Post Doc	
Affiliation:	University of Georgia	L	
Postal Code:	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed	Science
	University of Georgia	L	
Postal Code:	31794		
	TRIAL	LOCATION	
City: Mac	on Co.	Trial Status:	completed
State/Prov.: GA		Trial Reliability:	excellent
Postal Code:		Initiation Date:	May-04-06
Country: USA		Planned Completion Date:	
E-Longitude of L	L Corner °:	N-Latitude of LL Corner °:	
Altitude of LL C	orner: Unit:	Angle y-axis to North °:	
Directions:			
Directions:	COOPERAT	'OR/LANDOWNER	
		· · · · ·	
Cooperator:	COOPERAT	Country:	
Cooperator: Org:		Country: Phone No:	
Cooperator: Org: Address 1:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code:		Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under	GLP (Y/N): N	Country: Phone No: Fax No: Conducted Under GEP (Y/N): N	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under	GLP (Y/N): N	Country: Phone No: Fax No:	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under	GLP (Y/N): N	Country: Phone No: Fax No: Conducted Under GEP (Y/N): N	
Cooperator: Org: Address 1: Address 2: City: State/Prov: Postal Code: Conducted Under Guidelines:	GLP (Y/N): N	Country: Phone No: Fax No: Conducted Under GEP (Y/N): N	

			CROP AND WEED DESCRIPTION	
Weed	Code	Common Name	Scientific Name	
1.	AMAPA	Palmer amaranth	1	

Crop 1: GOSHI COTTON, SHORT STAPLE Variety: ST 6565 BR Flex Planting Date: May-02-06 Planting Method: hill drop Rate:28 inDepth:0.5 inPerennial Age:Row Spacing:36 inSpacing Within Row:_______Seed Bed _____ Seed Bed: bedded Soil Temperature: 87 F Soil Moisture: moist Emergence Date: May-09-06 Variety: DKC 6971 RR2/ygcp Crop 2: ZEAMX CORN, FIELD Planting Date: May-02-06 Planting Method: seeded Rate: 1 6 inch Depth: 1 in Perennial Age: _ Row Spacing: 36 inch Spacing Within Row: 6 inch Seed Bed: bedded Soil Temperature: 87 F Soil Moisture: moist Emergence Date: May-Emergence Date: May-09-06 SITE AND DESIGN FTPlot Width, Unit: 48 Plot Length, Unit: 100 FT Reps: 4 Site Type: on farm Study Design: RANDOMIZED COMPLETE BLOCK Tillage Type: conventional

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

					SOIL DESCRIPTION	N	
%	Sand:	82	% OM:	2.0	Texture:	loamy sand	
%	silt:	14	pH:	6.3	Soil Name:		
%	Clay:	4	CEC:		Fert. Level:		

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

				MOIS	TURE CONDITIONS		
	Date	Time	Amount	Unit	Туре	Interval	Unit
1.	May-05-06		1	in			
2.	May-07-06		2.5	in			
3.	May-10-06		2	in			
4.	Jun-20-06		0.4	in			

Overall Moisture Conditions: dryland

Closest Weather Station:

_____ Distance: _____ Unit: ___

		APPLI	CATI	ON DES	CRIP	LION				
	2	A		В	(2		D		E
Application Date:	May-0	04-06	May-	23-06	Jun-	05-06	Jun-	21-06	Aug-	22-06
Time of Day:	2 pm		2 pm		12 pr	n	1 pm		10 a	m
Application Method:	broad	lcast	broa	dcast	broad	dcast	broa	dcast	broa	dcast
Application Timing:	PRE		POST	1	POST	2	LPD		afte	rharv
Applic. Placement:	on so	oil	over	top	over	top	dire	cted	over	top
Air Temp., Unit:	88	F	87	F	90	F	94	F	94	F
<pre>% Relative Humidity:</pre>	52		47		44		44		40	
Wind Velocity, Unit:	3	mph	3	mph	2	mph	3	mph	2	mph
Dew Presence (Y/N):										
Water Hardness:										
Soil Temp., Unit:	86	F	85	F	93	F	100	F	101	F
Soil Moisture:	fair		dry		fair		dry/	fair	fair	
% Cloud Cover:	35		25		20		15		20	

CROP STAGE AT EACH APPLICATION

	A	В	С	D	Е
Crop 1 Code, Stage:	GOSHI PRE	GOSHI POST 1	GOSHI POST 2	GOSHI LPD	GOSHI .
Stage Scale:	not up	1 leaf	5 leaf	10 leaf	
Height, Unit:	0 inch	1.5 inch	5 inch	11 inch	0
Crop 2 Code, Stage:	ZEAMX PRE	ZEAMX .	ZEAMX POST 2	ZEAMX .	ZEAMX after har
Stage Scale:	not up				cut/harve
Height, Unit:	0 inch	6 inch	12 inch	0	0 inch

	WEED STAGE A	T EACH APPLICATI	ON		
	A	В	С	D	Е
Weed 1 Code, Stage:	AMAPA PRE	AMAPA POST 1	AMAPA POST 2	AMAPA LPD	AMAPA After har
Stage Scale:	not up	<0.5 inch	<6 inch	<15 inch	<8 inch
Density, Unit:	50 ydsq	10 ydsq	2 ydsq	2 ydsq	15 ydsq

		APPLICA	TION	EQUIPME	NT					
		А		в		C		D		Е
Appl. Equipment:	backp	pack	back	pack	back	pack	back	pack	back	pack
Operating Pressure:	24		24		24		18		24	
Nozzle Type:	flat	fan	flat	fan	flat	fan	flat	fan	flat	fan
Nozzle Size:	11002	2	11002	2	1100	2	1100	2	1100	2
Nozzle Spacing, Unit:	18	inch	18	inch	18	inch	12	inch	18	inch
Nozzles/Row:	2		2		2		3		2	
Band Width, Unit:										
Boom Length, Unit:	4.5	ft	4.5	ft	4.5	ft	2	ft	4.5	ft
Boom Height, Unit:	15	inch	15	inch	15	inch	12	inch	15	inch
Ground Speed, Unit:	3	mph	3	mph	3	mph	3	mph	3	mph
Incorporation Equip.:										
Hours to Incorp.:										
Incorp. Depth, Unit:										
Carrier:	water	2	wate	r	wate	r	wate	r	wate:	r
Spray Volume, Unit:	14.8	GPA	14.8	GPA	14.8	GPA	14.8	GPA	14.8	GPA
Spray pH:										
Propellant:	CO2		CO2		CO2		C02		CO2	
Tank Mix (Y/N):	Y		Y		Y		Y		Y	

Trt No	Treatment Application Comment