Mar-02-04 (C19-03) Site Description Page 1 of 9

University of Georgia

Prowl, Outlook, and Dual evaluation in RR cotton

Trial ID: C19-03 Study Dir.: Stanley Culpepper Location: Ponder farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley CulpepperTitle: Ext. weed scienceAffiliation: University of GeorgiaPostal Code: 31794Investigator: Stanley CulpepperTitle: Ext.weed scienceAffiliation: University of GeorgiaPostal Code: 31794

Trial Status: completed Initiation Date: May-05-03 Country: U.S.A. City: TyTy State/Prov.: Ga Postal Code: 31795

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND PEST DESCRIPTION

Weed1.XANSTcommon cocklebur2.PANTETexas panicumWeed3.CASOBsicklepod4.AMAPAPalmer amaranth

Row Spacing: 36 inch Seed Bed: bedded

Soil Temperature: 88 F Soil Moisture: moist Emergence Date: May-10-03

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 4

Site Type: research station

Tillage Type: conventional Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

Texture: Sand **% OM:** 1.3 **% Sand:** 94 **% Silt:** 2 **% Clay:** 4

pH: 5.7 Soil Name: Tifton sandy lao

APPLICATION DESCRIPTION

A B C D E

Application Date: May-06-03 May-14-03 May-28-03 Jun-14-03

Application Method: Broadcast Broadcast Broadcast Application Timing: PRE 1-leaf 4-leaf layby Applic. Placement: on soil overtop overtop directed Air Temp., Unit: 89 F 76 F 80 F 85 F Time of Day: 6:00pm 8:00am 7:30pm 11:00am Air Temp., Unit: 89 F 76 F 80 F 85 F 8 Relative Humidity: 54 56 33 68 Wind Velocity, Unit: 0 mph 0 mph 2 mph 3 Dew Presence (Y/N): n V n n Soil Temp., Unit: 90 F 80 F 82 F 84 F Soil Moisture: moist moist moist moist 100 % Cloud Cover: 40 20 40

CROP STAGE AT EACH APPLICATION

A B C D E F

F

Crop 1 GOSHI Stage:PRE1-leaf4-leaflaybyStage Scale:V1V4-V5V11Height, Unit:0.1.5 inch 5 inch 22 inch

Mar-02-04 (C19-03) Site Description Page 2 of 9

University of Georgia

	WEED	STAGE AT	EACH APPLICA	TION		
	A	В	С	D	E	F
Weed 1 XANST Stage:	PRE	1-leaf	4-leaf	layby		
Stage Scale:			<3 inch	<4 inch		
Density, Unit:			2 ydsq			
Weed 2 PANTE Stage:	PRE	1-leaf	4-leaf	layby		
Stage Scale:		<0.25"	<3", 3T	<4 inch		
Density, Unit:			46 ydsq			
Weed 3 CASOB Stage:	PRE	1-leaf	4-leaf	layby		
Stage Scale:		<0.25"	<3"	<4 inch		
Density, Unit:			3 ydsq			
Weed 4 AMAPA Stage:	PRE	1-leaf	4-leaf			
Stage Scale:		<0.25"	<4 inch	<4 inch		
Density, Unit:			2 ydsq			

	APPLICATION EQUIPMENT									
	2	A	1	3		С	I)	E	
Appl. Equipment:	back	pack	backı	pack	back	pack	backı	pack		
Operating Pressure:	23		23		23		18			
Nozzle Type:	flat	fan	flat	fan	flat	fan	flat	fan		
Nozzle Size:	11002	2	1100	2	1100	2	11002	2		
Nozzle Spacing, Unit	:18	inch	18	inch	18	inch	12	inch		
Nozzles/Row:	2		2		2		3			
Boom Length, Unit:	4.5	feet	4.5	feet	4.5	feet	2	feet		
Boom Height, Unit:	15	inch	15	inch	15	inch	12	inch		
Ground Speed, Unit:	3	mph	3	mph	3	mph	3	mph		
Carrier:	wate	r	wate:	r	wate	r	wate	r		
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			

University of Georgia Prowl, Outlook, and Dual evaluation in RR cotton

Trial ID: C19-03 Location: Ponder farm Study Dir.: Stanley Culpepper Investigator: Stanley Culpepper

Weed Code Crop Code Rating Data Type Rating	Location: Ponder fa	rm	In	vestigator	: Stanley	Culpeppe				
Rating Date Type Rating Date Percent Rating Date	Weed Code						PANTE	PANTE	PANTE	CASOB
Rating Date				GOSHI	GOSHI	GOSHI				
Rating Date	Rating Data Type			injury	injury	injury	control	control	control	control
TIT-EVAII Interval PRIM Data Type #Subsamples, Dec. #Subsamples, D	Rating Unit			percent	percent	percent	percent	percent	percent	percent
TI-Eval Interval PRM Data Type # Subsamples, Dec.	Rating Date			May-31-03	Jun-08-03	Jun-22-03	May-31-03	Jun-22-03	Sep-20-03	May-31-03
PRM Data Type	Trt-Eval Interval			25 DA-A	33 DA-A	47 DA-A	·		·	,
#Subsamples, Dec. Tri Treatment No. Name Rate Unit 1 2 3 4 5 6 7 1 Untreated No. Name Rate Unit 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRM Data Type									
Trit Treatment Rate No. Name Rate No. Name Rate Unit 1 2 3 4 5 6 7										
No. Name			Rate							
1 Untreated		Rate		1	2	3	4	5	6	7
2 Roundup Weathermax 16 fl oz/a 0.8 0.0 0.0 95.3 99.0 98.5 96.0 Roundup Weathermax 22 fl oz/a 2.3 0.0 0.0 30.0 98.0 97.8 31.3 31.3 Roundup Weathermax 22 fl oz/a 2.3 0.0 0.0 30.0 98.0 97.8 31.3 31.3 Roundup Weathermax 22 fl oz/a 2.3 0.0 0.0 0.0 46.3 99.0 98.5 32.5 3				0.0						
Roundup Weathermax 22 fl oz/a 2.3 0.0 0.0 30.0 98.0 97.8 31.3		ax 16	fl oz/a							
Roundup Weathermax 22 fl oz/a 2.3 0.0 0.0 30.0 98.0 97.8 31.3					0.0	0.0	00.0	55.5	00.0	00.0
3 Roundup Weathermax 22 fl oz/a 2.3 0.0 0.0 30.0 98.0 97.8 31.3										
Roundup Weathermax 22 fl oz/a Roun				2.3	0.0	0.0	30.0	98.0	97.8	31.3
4 Prowl EC 2 pta				2.0	0.0	0.0	00.0	00.0	07.0	01.0
Roundup Weathermax 22 fl oz/a				13	0.0	0.0	46.3	00.0	08.5	32.5
Roundup Weathermax 22 fl oz/a 1.3 0.0 3.0 55.8 99.0 98.5 57.0				4.5	0.0	0.0	40.5	99.0	90.5	32.3
ForwitH20										
Roundup Weathermax 22 fl oz/a Prow HZO Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl				1.2	0.0	2.0	EE 0	00.0	00.5	57.0
Roundup Weathermax 22 fl oz/a 22 fl oz				1.3	0.0	3.0	55.6	99.0	96.5	57.0
6 Dual Magnum 16 fl oz/a 0.0 0.0 3.3 56.3 98.5 99.0 44.0 Roundup Weathermax 22 fl oz/a 0.5 0.0 4.0 67.5 98.5 96.8 43.5 7 Outlook 14 fl oz/a 0.5 0.0 4.0 67.5 98.5 96.8 43.5 8 Roundup Weathermax 22 fl oz/a 10.0 29.3 24.3 97.0 99.0 97.3 97.0 8 Roundup Weathermax 16 fl oz/a 10.0 29.3 24.3 97.0 99.0 97.3 97.0 9 Roundup Weathermax 16 fl oz/a 6.5 19.8 5.5 97.0 99.0 99.0 97.0 8 Roundup Weathermax 16 fl oz/a 6.5 19.8 5.5 97.0 99.0 99.0 97.0 9 Roundup Weathermax 16 fl oz/a 9.5 0.8 5.0 97.0 99.0 99.0 97.0 10 Roundup Weathermax 16 fl oz/a 0.0 0.8 97.3 99.0										
Roundup Weathermax 22 fl oz/a				0.0	0.0	2.2	FC 2	00.5	00.0	44.0
Roundup Weathermax 22 fl oz/a				0.0	0.0	3.3	50.3	98.5	99.0	44.0
Toutlook Toutlook Roundup Weathermax 22 fl oz/a Roundup Weatherm										
Roundup Weathermax 22 fl oz/a Roun	•			0.5				00.5		40.5
Roundup Weathermax 22 fl oz/a 29.3 24.3 97.0 99.0 97.3 97.0				0.5	0.0	4.0	67.5	98.5	96.8	43.5
Roundup Weathermax										
Roundup Weathermax 22 fl oz/a 2 pt/a 2 pt/a 2 pt/a 2 pt/a 2 pt/a 3 pt/a 3 pt/a 4 pt/a 2 pt/a 3 p										
Prowl EC Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl				10.0	29.3	24.3	97.0	99.0	97.3	97.0
Roundup Weathermax 22 fl oz/a 6.5 19.8 5.5 97.0 99.0 99.0 97.0										
Roundup Weathermax										
Roundup Weathermax 22 fl oz/a 1.75 pt/a 22 fl oz/a 2 fl										
Prowl H2O				6.5	19.8	5.5	97.0	99.0	99.0	97.0
Roundup Weathermax 22 fl oz/a 9.5 0.8 5.0 97.0 99.0 99.0 97.0										
10 Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a Stalwart C 26 fl oz/a Roundup Weathermax 22 fl oz			pt/a							
Roundup Weathermax 22 fl oz/a Dual Magnum 16 fl oz/a Roundup Weathermax 22 fl oz/a 11 Roundup Weathermax 16 fl oz/a 6.0 0.0 2.8 97.3 99.0 96.3 97.3 99.0 96.3 97.3 99.0 96.3 97.3 99.0 96.3 97.3 99.0 96.3 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 97.3 99.0 99.0 99.0 97.0 99.0 99.0 99.0 97.0 99.0 99.0 99.0 97.0 99.0 99.0 99.0 97.0 99.0 99.0 99.0 97.0 99.0 99.0 99.0 97.0 99.0	Roundup Weatherm									
Dual Magnum	10 Roundup Weatherm	ax 16	fl oz/a	9.5	8.0	5.0	97.0	99.0	99.0	97.0
Roundup Weathermax 22 fl oz/a 22 fl oz/a 24 fl oz/a 25 fl oz/a 26 fl oz/a 27 fl oz	Roundup Weatherm	ax 22	fl oz/a							
Roundup Weathermax 22 fl oz/a 22 fl oz/a 24 fl oz/a 25 fl oz/a 26 fl oz/a 27 fl oz			fl oz/a							
11 Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a Qutlook Roundup Weathermax 22 fl oz/a Stalwart C Roundup Weathermax 22 fl oz/a Prowl EC 2 pt/a Prowl H2O 1.75 pt/a 1.0 Roundup Weathermax 22 fl oz/a Roundup Weathermax		ax 22	fl oz/a							
Roundup Weathermax 22 fl oz/a				6.0	0.0	2.8	97.3	99.0	96.3	97.3
Outlook Roundup Weathermax 14 fl oz/a 22 fl oz/a 19.5 3.8 3.0 97.3 99.0 99.0 97.3 12 Roundup Weathermax Roundup Weathermax 22 fl oz/a 26 fl oz/a Roundup Weathermax 22 fl oz/a 21 oz/a Roundup Weathermax 22 fl oz/a 21 oz/a Roundup Weathermax 2.3 0.0 1.5 97.3 99.0 99.0 97.3 13 Roundup Weathermax Roundup Weathermax 22 fl oz/a 2 pt/a 2.3 0.0 1.5 97.3 99.0 99.0 97.3 14 Roundup Weathermax Roundup Weathermax 16 fl oz/a 22 fl oz/a Prowl H2O 0.3 0.0 1.8 97.0 99.0 99.0 97.0 15 Roundup Weathermax Roundup Weathermax 22 fl oz/a 22 fl oz/a Roundup Weathermax 16 fl oz/a 22 fl oz/a 22 fl oz/a 1.0 0.0 0.8 97.0 98.5 98.5 97.0										
Roundup Weathermax 22 fl oz/a 19.5 3.8 3.0 97.3 99.0 99.0 97.3	- I									
12 Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a Stalwart C 26 fl oz/a Roundup Weathermax 22 fl oz/a Prowl EC 2 pt/a Prowl H2O 1.75 pt/a D.0 D										
Roundup Weathermax 22 fl oz/a Stalwart C 26 fl oz/a Roundup Weathermax 22 fl oz/a 2.3 0.0 1.5 97.3 99.0 99.0 97.3				19.5	3.8	3.0	97.3	99 N	99 N	97.3
Stalwart C 26 fl oz/a Roundup Weathermax 22 fl oz/a 13 Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a Prowl EC 2 pt/a 14 Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a Prowl H2O 1.75 pt/a 15 Roundup Weathermax 16 fl oz/a Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a				10.0	0.0	0.0	57.5	55.0	55.0	57.5
Roundup Weathermax 16 fl oz/a 2.3 0.0 1.5 97.3 99.0 99.0 97.3										
13 Roundup Weathermax 16 fl oz/a 2.3 0.0 1.5 97.3 99.0 99.0 97.3 Roundup Weathermax 22 fl oz/a Prowl EC 2 pt/a 2 fl oz/a Roundup Weathermax 22 fl oz/a Prowl H2O 1.75 pt/a 1.0 0.0 0.8 97.0 98.5 98.5 97.0 99.0 99.0 97.0 99.0 99.0 97.0 99.0 99.0 97.0 99.0 99.0 97.0 99.0 97.0 99.0 99.0 97.0 99.0 9										
Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a Prowl EC 2 pt/a				2.3	0.0	1 5	07.2	00.0	00.0	07.3
Roundup Weathermax 22 fl oz/a				2.3	0.0	1.5	31.3	99.0	99.0	31.3
Prowl EC 2 pt/a 0.3 0.0 1.8 97.0 99.0 99.0 97.0 14 Roundup Weathermax Roundup Weathermax Prowl H2O 22 fl oz/a Prowl H2O 1.75 pt/a 97.0 99.0 99.0 97.0 15 Roundup Weathermax Roundup Weathermax Prowledge Roundup Weathermax Roundup Wea										
14 Roundup Weathermax 16 fl oz/a 0.3 0.0 1.8 97.0 99.0 99.0 97.0 Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a 97.0 99.0 99.0 97.0 Prowl H2O 1.75 pt/a 1.0 0.0 0.8 97.0 98.5 98.5 97.0 Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a 0.0 0.8 97.0 98.5 98.5 97.0										
Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a Prowl H2O 1.75 pt/a 15 Roundup Weathermax 16 fl oz/a Roundup Weathermax 22 fl oz/a				0.0	0.0	4.0	07.0	00.0	00.0	07.0
Roundup Weathermax 22 fl oz/a				0.3	0.0	٦.٥	97.0	99.0	99.0	97.0
Prowl H2O 1.75 pt/a 0.0 0.8 97.0 98.5 97.0 15 Roundup Weathermax 22 fl oz/a 1.0 0.0 0.8 97.0 98.5 98.5 97.0 Roundup Weathermax 22 fl oz/a 22 fl oz/a 97.0 98.5 97.0										
15 Roundup Weathermax 16 fl oz/a 1.0 0.0 0.8 97.0 98.5 98.5 97.0 Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a 97.0 98.5 97.0										
Roundup Weathermax 22 fl oz/a Roundup Weathermax 22 fl oz/a								00 -		0= 0
Roundup Weathermax 22 fl oz/a				1.0	0.0	0.8	97.0	98.5	98.5	97.0
Dual Magnum 16 fl oz/a										
	Dual Magnum	16	fl oz/a							

		_	J		<u> </u>			
Weed Code					PANTE	PANTE	PANTE	CASOB
Crop Code		GOSHI	GOSHI	GOSHI				
Rating Data Type		injury	injury	injury	control	control	control	control
Rating Unit		percent						
Rating Date		May-31-03	Jun-08-03	Jun-22-03	May-31-03	Jun-22-03	Sep-20-03	May-31-03
Trt-Eval Interval		25 DA-A	33 DA-A	47 DA-A				
PRM Data Type								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	1	2	3	4	5	6	7
16 Roundup Weathermax	16 fl oz/a	0.0	0.0	1.5	96.5	99.0	99.0	96.5
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
Outlook	14 fl oz/a							
LSD (P=.05)		2.76	2.60	4.27	13.17	0.72	2.43	14.12
Standard Deviation		1.93	1.82	2.99	9.22	0.50	1.70	9.88
CV		48.3	54.36	84.92	12.05	0.54	1.85	13.43
Bartlett's X2		12.527	4.232	12.629	77.055	0.095	16.121	77.494
P(Bartlett's X2)		0.404	0.237	0.318	0.001*	0.992	0.024*	0.001*

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

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Weed Code		CASOB	CASOB	XANST	XANST	AMAPA	AMAPA	Seed
Crop Code								GOSHI
Rating Data Type		control	control	control	control	control	control	yield
Rating Unit		percent	percent	percent	percent	percent	percent	lb/plot
Rating Date		May-31-03	Jun-22-03	Jun-22-03	Sep-20-03	May-31-03	Sep-20-03	Sep-24-03
Trt-Eval Interval								
PRM Data Type								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	14
1 Untreated		0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	96.8	99.0	10.2
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
3 Roundup Weathermax	22 fl oz/a	99.0	99.0	98.5	99.0	88.8	99.0	7.9
Roundup Weathermax	22 fl oz/a							
4 Prowl EC	2 pt/a	99.0	98.3	99.0	99.0	90.0	99.0	9.1
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
5 Prowl H20	1.75 pt/a	99.0	99.0	99.0	99.0	89.8	99.0	8.8
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
6 Dual Magnum	16 fl oz/a	99.0	99.0	99.0	99.0	90.0	99.0	9.3
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
7 Outlook	14 fl oz/a	99.0	99.0	99.0	99.0	92.3	99.0	9.5
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
8 Roundup Weathermax	16 fl oz/a	99.0	97.5	99.0	99.0	99.0	99.0	6.2
Roundup Weathermax	22 fl oz/a							
Prowl EC	2 pt/a							
Roundup Weathermax	22 fl oz/a							
9 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	99.0	99.0	8.6
Roundup Weathermax	22 fl oz/a							
Prowl H2O	1.75 pt/a							
Roundup Weathermax	22 fl oz/a							
10 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	99.0	99.0	10.0
Roundup Weathermax	22 fl oz/a							
Dual Magnum	16 fl oz/a							
Roundup Weathermax	22 fl oz/a							
11 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	99.0	99.0	9.4
Roundup Weathermax	22 fl oz/a							
Outlook	14 fl oz/a							
Roundup Weathermax	22 fl oz/a							
12 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	99.0	99.0	9.6
Roundup Weathermax	22 fl oz/a							
Stalwart C	26 fl oz/a							
Roundup Weathermax	22 fl oz/a							
13 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	99.0	99.0	9.1
Roundup Weathermax	22 fl oz/a							
Roundup Weathermax	22 fl oz/a							
Prowl EC	2 pt/a							
14 Roundup Weathermax	16 fl oz/a	99.0	99.0	99.0	99.0	99.0	99.0	9.5
Roundup Weathermax	22 fl oz/a		-		-	-	-	-
Roundup Weathermax	22 fl oz/a							
Prowl H2O	1.75 pt/a							
15 Roundup Weathermax	16 fl oz/a	99.0	99.0	98.5	99.0	99.0	99.0	9.4
Roundup Weathermax	22 fl oz/a				22.0			
Roundup Weathermax	22 fl oz/a							
Dual Magnum	16 fl oz/a							
	.5 02.0	I.						

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Weed Code			CASOB	CASOB	XANST	XANST	AMAPA	AMAPA	Seed
Crop Code									GOSHI
Rating Data Type			control	control	control	control	control	control	yield
Rating Unit			percent	percent	percent	percent	percent	percent	lb/plot
Rating Date			May-31-03	Jun-22-03	Jun-22-03	Sep-20-03	May-31-03	Sep-20-03	Sep-24-03
Trt-Eval Interval			_						
PRM Data Type									
# Subsamples, Dec.									
Trt Treatment		Rate							
No. Name	Rate	Unit	8	9	10	11	12	13	14
16 Roundup Weathermax	16	fl oz/a	99.0	99.0	99.0	99.0	95.5	99.0	9.5
Roundup Weathermax	22	fl oz/a							
Roundup Weathermax	22	fl oz/a							
Outlook	14	fl oz/a							
LSD (P=.05)			0.00	1.17	0.49	0.00	3.67	0.00	1.02
Standard Deviation			0.00	0.82	0.34	0.00	2.57	0.00	0.72
CV			0.0	0.88	0.37	0.0	2.86	0.0	8.42
Bartlett's X2			0.0	1.325	0.0	0.0	12.981	0.0	48.047
P(Bartlett's X2)			-	0.25	1.00	•	0.011*		0.001*

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

Seed Crop Code Rating Data Type Rating Data Type Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.			•	JIIIVEI
Rating Data Type Rating Unit Rating Unit Rating Unit Rating Date Trt-Eval Interval PRM Data Type Ty1 # Subsamples, Dec. Trt Treatment Rate No. Name Rate Unit 15 O.7 2 Roundup Weathermax 22 fl oz/a Roundup Weathermax Roundup Weathermax 22 fl oz/a Roundup Weathermax R	Weed Code			Seed
Rating Data Type Rating Unit Rating Unit Rating Unit Rating Date Trt-Eval Interval PRM Data Type Ty1 # Subsamples, Dec. Trt Treatment Rate No. Name Rate Unit 15 O.7 2 Roundup Weathermax 22 fl oz/a Roundup Weathermax Roundup Weathermax 22 fl oz/a Roundup Weathermax R	Crop Code			GOSHI
Rating Date Trt-Eval Interval PRM Data Type TY1 # Subsamples, Dec.				
Rating Date Trt-Eval Interval PRM Data Type TY1 # Subsamples, Dec.				
Try				
PRM Data Type	Trt-Eval Interval			00p 2 i 00
# Subsamples, Dec. Trit				TV1
Trit Treatment No. Name Rate Unit 15				
No. Name			- .	1
1 Untreated 2 Roundup Weathermax 22 fl oz/a 2966.4 Roundup Weathermax 22 fl oz/a 2966.4 Roundup Weathermax 22 fl oz/a 2966.4 Roundup Weathermax 22 fl oz/a 2294.2 Roundup Weathermax 22 fl oz/a 2633.9 Roundup Weathermax 22 fl oz/a 2633.9 Roundup Weathermax 22 fl oz/a 2633.9 Frowl H20 1.75 pt/a 2559.9 Roundup Weathermax 22 fl oz/a 2708.0 Roundup Weathermax 22 fl oz/a 2708.0 Roundup Weathermax 22 fl oz/a 2708.0 Roundup Weathermax 22 fl oz/a 2761.7 Roundup Weathermax 16 fl oz/a 2761.7 Roundup Weath				
2 Roundup Weathermax Rou		Rate	Unit	
Roundup Weathermax				
Roundup Weathermax 22 fl oz/a 2294.2 Roundup Weathermax 22 fl oz/a 2633.9 Roundup Weathermax 22 fl oz/a 2633.9 Roundup Weathermax 22 fl oz/a 2789.3 Roundup Weathermax 22 fl oz/a 2761.7 Roundup Weathermax 22 fl oz/a 276	2 Roundup Weathermax	16	fl oz/a	2966.4
Roundup Weathermax 22 fl oz/a 2294.2 Roundup Weathermax 22 fl oz/a 2633.9 Roundup Weathermax 22 fl oz/a 2633.9 Roundup Weathermax 22 fl oz/a 2789.3 Roundup Weathermax 22 fl oz/a 2761.7 Roundup Weathermax 22 fl oz/a 276	Roundup Weathermax	22	fl oz/a	
3 Roundup Weathermax Rou		22	fl oz/a	
Roundup Weathermax		22	fl oz/a	2294.2
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CV 8.4	12
Bartlett's X2 48.04	18
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Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Column 15: TY1 = 290.4*[C14]

Trial Comments

OBJECTIVE: Evaluate Prowl EC, Prowl H20, Dual Magnum, Stalwart C, and Outlook in a RR cotton weed management programs.

RESULTS:

Visual Crop Response:

- 1) Prowl EC or H20, Outlook, or Dual Magnum applied PRE caused insignificant stunting (<5%). Injury from Dual and Outlook was avoided because no significant rain occurred within 5 days of planting.
- 2) Prowl EC mixed with glyphosate and applied POT of 4-leaf cotton injured cotton 10, 29 and 24% at 17,25, and 39 DAT, respectively. Injury was still detectable at harvest. Prowl H20 was safer than Prowl EC but injury was still detectable late in the season.
- 3) Dual Magnum and Outlook applied overtop of 4-leaf cotton with glyphosate caused 6 to 10% initial speckling but recovered very quickly.
- 4) Injury from Stalwart C applied overtop of 4-leaf cotton was twice that of Dual Magnum at 17 DAT, however, cotton recovered very quickly from the necrotic spotting.
- 5) Neither Prowl EC, Prowl H20, Outlook, nor Dual Magnum caused any visual injury when directed to the base of the cotton plant.

Weed Control:

- 1) Texas panicum:
 - a) Initial control from PRE treatments was weak because of little no no rain after application.
 - b) All glyphosate mixtures provided excellent control.
 - c) Late-season control was excellent with all programs.
- 2) Sicklepod:
 - a) As expected, PRE's provided poor control.
 - b) All glyphosate mixtures provided excellent control.
 - c) Late-season control was excellent with all programs.
- 3) Common cocklebur:
 - a) Cocklebur emerged a little late, thus glyphosate was applied prior to being able to rate PRE activity.
 - b) All glyphosate programs provided excellent control.
 - c) Late-season control was excellent with all programs.
- 4) Palmer amaranth:
 - a) PRE's provided excellent early season control even without rainfall.
 - b) All glyphosate applications provided excellent control.
 - c) Late-season control was excellent with all programs.

COTTON YIELDS:

1) Treatments obtaining 3 applications of glyphosate generally yielded higher than a PRE followed by two glyphosate applications. This was likely do to poor panicum control from PRE's allowing early-season weed competition to occur prior to the 4-leaf glyphsoate application.

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- 2) Early season competition was extreme. Starting the glyphosate application at 4-leaf compared to 1-leaf (even when maintaining plots weed free with additional glyphosate applications) reduced yields 23%.
- 3) Applying Prowl EC overtop in mixture with glyphosate reduced yields 39% when compared to the same system without Prowl EC. Less yield loss was noted with Prowl H20 but yields were still reduced 16%.
- 4) Dual Magnum, Outlook, or Stalwart C mixed with glyphosate and appliedtopically to 4-leaf cotton had no negative impact on cotton yield.
- 5) Layby applications including Prowl H20, Dual Magnum, or Outlook had no negative effects on seed cotton yield.

CONCLUSIONS:

- 1) Prowl H20 is much safter to cotton when foliar contact is made as compared to Prowl EC. A study should be conducted comparing these formulations of Prowl applied PRE and then causing a splash foliar injury affect.
- 2) Mixing Dual or Outlook with glyphosate and applying topically had no negative effects on cotton.
- 3) Sequential glyphosate applications provided excellent control, thus, residual herbicides were not needed at this location.