Measuring the potential for weed competition with a second weed flush.

Trial ID: C28-03 Study Director: Blaine Walden Location: Ponder farm Investigator: Stanley Culpepper

General Trial Information

Study Director: Blaine Waldon Title: Graduate student

Affiliation: University of Georgia

Postal Code: 31794

Investigator: Stanley Culpepper Title: Extension Agronomist

Affiliation: University of Georgia

Postal Code: 31794

Trial Location

City: TyTy Trial Status: completed State/Prov.: GA Trial Reliability: fair Postal Code: 31794 Initiation Date: May-20-03

Country: USA

Directions:

Objectives:

Conclusions:

Crop Description

Variety: Roundup Ready Flex

BBCH Scale: BCOT Planting Date: May-20-03

Planting Method: conventional Rate, Unit: 3 per foot

Depth, Unit: 0.5 in

Row Spacing, Unit: 36 inch
Seed Bed: bedded
Soil Temperature, Unit: 4 inch
Soil Moisture: moist
Emergence Date: May-10-03

Pest Description

Pest 1 Type: W Code: IAQTA Jacquemontia tamnifolia

Common Name: Morningglory, smallflower

Pest 2 Type: W Code: CASOB Cassia obtusifolia

Common Name: Sickle pod

Pest 3 Type: W Code: PANTE Panicum texanum

Common Name: Conchograss
Description: Texas panicum

Pest 4 Type: W Code: IPOSS Ipomoea sp.

Common Name: Morning glory

Description: Pitted and entireleaf

Site and Design

Plot Width, Unit: 12 FT Site Type: research station
Plot Length, Unit: 25 FT Tillage Type: conventional

Replications: 4 Study Design: Randomized Complete Block

Trial Initiation Comments:

Field Prep./Maintenance:

Soil Description

% Sand: 94 **% OM:** 1.3 **Texture:** sand

\$ Silt: 2 pH: 5.7 Soil Name: Tifton sandy loam

% Clay: 4

Moisture Conditions

Overall Moisture Conditions: wet

Application Description

	A	В	С	D	E
Application Date:	May-20-03	Jun-04-03	Jun-13-03	Jun-20-03	Jul-04-03
Time of Day:	11 am	3 pm	2 pm	9 am	9 am
Application Method:	broadcast	broadcast	broadcast	broadcast	broadcast
Application Timing:	PRE	1-leaf	4-leaf	7-leaf	10-leaf
Application Placement:	on soil	overtop	overtop	overtop	overtop
Applied By:	culpepper	culpepper	culpepper	culpepper	culpepper
Air Temperature, Unit:	78 F	92 F	88 F	78 F	78 F
% Relative Humidity:	60	39	39	67	70
Wind Velocity, Unit:	2 mph	3 mph	2 mph	3 mph	0 mph
Dew Presence (Y/N):	n	n	n	n	У
Soil Temperature, Unit:	76 F	94 F	92 F	82 F	81 F
Soil Moisture:	moist	fair	moist	wet	wet
% Cloud Cover:	25	45	50	30	90
	F		•	•	•
Application Date:	Jul-12-03				
-:	1.0				

	F
Application Date:	Jul-12-03
Time of Day:	10 am
Application Method:	broadcast
Application Timing:	layby
Application Placement:	directed
Applied By:	culpepper
Air Temperature, Unit:	83 F
<pre>% Relative Humidity:</pre>	56
Wind Velocity, Unit:	2 mph
Dew Presence (Y/N):	n
Soil Temperature, Unit:	83 F
Soil Moisture:	moist
% Cloud Cover:	50

Crop Stage At Each Application

crop beage ne mach approaches										
		A		В		С		D		
Crop 1 Code, BBCH Scale:	GOSHI	BCOT	GOSHI	BCOT	GOSHI	BCOT	GOSHI	BCOT		
Stage Scale Used:	PRE		1-lea:	£	4-leas	Ē	7-leaf			
Stage Majority, Percent:		0	V1-V2	100	V4	100	V6-V7	100		
Stage Minimum, Percent:		0		0		0		0		
Stage Maximum, Percent:		0		0		0		0		
Diameter, Unit:	0.	in	0	in	0.	in	0.	in		
Height, Unit:	0.	in	3.5	in	6.5	in	12	in		
Height Minimum, Maximum:	0	0	3	4	6	7	10	14		
		E		F						
Crop 1 Code, BBCH Scale:	GOSHI	BCOT	GOSHI	BCOT						
Stage Scale Used:	10-lea	af	layby							
Stage Majority, Percent:	V10	100	V13	100						
Stage Minimum, Percent:		0		0						
Stage Maximum, Percent:		0		0						
Diameter, Unit:	0.	in	0.	in						
Height, Unit:	26	in	36	in						
Height Minimum, Maximum:	24	30	32	40						

Pest Stage At Each Application

		A		В		С		D
Pest 1 Code, Disc., Scale:	IAOTA	W PRE	IAOTA	W 1-lf	IAQTA	W 4-1f	IAQTA	W 7-lf
Stage Majority, Percent:	INQIN	0	1-31f	100	INQIN	0	INQIN	0
Stage Minimum, Percent:	•	0	1 311	0	•	0		0
Stage Maximum, Percent:	•	0	•	0	•	0	•	0
Diameter, Unit:	0.	in	0.	in	0.	in	0.	in
Height, Unit:	0.	in	2	in	4.5	in	5	in
Height Minimum, Maximum:	0.	0.	0.25	3	3	6	3	6
Density, Unit:	0.	in	4	ydsq	4	ydsq	4	ydsq
Coverage, Unit:	0.	in	4	in	4	in	7	in
Pest 2 Code, Disc., Scale:	CASOB	W PRE	CASOB	W 1-lf	CASOB	W 4-lf	CASOB	W 7-1f
Stage Majority, Percent:	CASOB	0	1-31f	100	CASOB	0	CASOB	0
Stage Minimum, Percent:	•	0	1-211	0	•	0	•	0
Stage Maximum, Percent:	•	0	•	0	•	0	•	0
Diameter, Unit:	0.	in	0.	in	0.	in	0.	in
Height, Unit:	0.	in	2	in	4	in	8	in
Height Minimum, Maximum:	0.	0.	0.25	3	2	6	6	12
			2		2		2	
Density, Unit: Coverage, Unit:	0.	in	2	ydsq	2	ydsq	2	ydsq
3 .	PANTE	in W PRE	PANTE	in W 1-lf	PANTE	in W 4-lf	PANTE	in W 7-lf
Pest 3 Code, Disc., Scale:	PANIE				PANIE	0	PANIE	0
Stage Majority, Percent:	•	0	1-31f	100	•		•	_
Stage Minimum, Percent:	•	0	•	0	•	0	•	0
Stage Maximum, Percent:	•	0	•	0	•	0	•	0
Diameter, Unit:	0.	in	0.	in	0.	in	0.	in
Height, Unit:	0.	in	2	in	5	in	8	in
Height Minimum, Maximum:	0.	0.	0.25	3	4	5	6	12
Density, Unit:	0.	in	15	ydsq	15	ydsq	15	, Aqsd
Coverage, Unit:		in		in		in		in
Pest 4 Code, Disc., Scale:	IPOSS	W PRE	IPOSS	W 1-lf	IPOSS	W 4-lf	IPOSS	W 7-lf
Stage Majority, Percent:	•	0	1-31f	100	•	0	•	0
Stage Minimum, Percent:	•	0	•	0	•	0	•	0
Stage Maximum, Percent:	•	0		0	•	0	•	0
Diameter, Unit:	0.	in	0.	in	0.	in	0.	in
Height, Unit:	0.	in	2	in	5	in	5	in
Height Minimum, Maximum:	0.	0.	0.25	3	4	6	3	6
Density, Unit:	0.	in	4	ydsq	4	ydsq	3	ydsq
Coverage, Unit:		in		in		in	•	in

			- - -	
		E		F
Pest 1 Code, Disc., Scale:	IAQTA	W 10lf	IAQTA	W layb
Stage Majority, Percent:		0		0
Stage Minimum, Percent:		0		0
Stage Maximum, Percent:		0		0
Diameter, Unit:	0.	in	0.	in
Height, Unit:	12	in	8	in
Height Minimum, Maximum:	6	18	4	12
Density, Unit:	4	ydsq	4	ydsq
Coverage, Unit:		in		in
Pest 2 Code, Disc., Scale:	CASOB	W 10lf	CASOB	W layb
Stage Majority, Percent:		0		0
Stage Minimum, Percent:		0		0
Stage Maximum, Percent:		0		0
Diameter, Unit:	0.	in	0.	in
Height, Unit:	12	in	8	in
Height Minimum, Maximum:	1	18	4	12
Density, Unit:	1	ydsq	1	ydsq
Coverage, Unit:	•	in		in
Pest 3 Code, Disc., Scale:	PANTE	W 10lf	PANTE	W layb
Stage Majority, Percent:		0		0
Stage Minimum, Percent:		0		0
Stage Maximum, Percent:		0		0
Diameter, Unit:	0.	in	0.	in
Height, Unit:	12	in	8	in
Height Minimum, Maximum:	1	18	4	12
Density, Unit:	12	ydsq	12	ydsq
Coverage, Unit:		in		in
Pest 4 Code, Disc., Scale:	IPOSS	W 10lf	IPOSS	W layb
Stage Majority, Percent:		0		0
Stage Minimum, Percent:	•	0		0
Stage Maximum, Percent:		0	•	0
Diameter, Unit:	0.	in	0.	in
Height, Unit:	14	in	8	in
Height Minimum, Maximum:	1	18	4	12
Density, Unit:	2	ydsq	2	ydsq
Coverage, Unit:		in		in

Application Equipment

Application Equipment												
		A		В		С		D		E		F
Appl. Equipment:	back	pack	back	pack	back	pack	back	pack	back	pack	back	pack
Operating Pressure:	22		22		22		22		22		18	
Pressure Unit:	psi		psi		psi		psi		psi		psi	
Nozzle Type:	flat	fan	flat	fan	flat	fan	flat	fan	flat	fan	flat	fan
Nozzle Size:	1100	11002		2	11002		1100	2	1100	2	1100	2
Nozzle Spacing, Unit:	18	inch	18	inch	18	inch	18	inch	18	inch	12	inch
Nozzles/Row:	2		2		2		2		2		3	
Boom Length, Unit:	4.5	feet	4.5	feet	4.5	feet	4.5	feet	4.5	feet	2	feet
Boom Height, Unit:	15	inch	15	inch	15	inch	15	inch	15	inch	12	inch
Ground Speed, Unit:	3	mph	3	mph	3	mph	3	mph	3	mph	3	mph
Carrier:	wate	r	wate	r	water		wate	r	wate	r	wate	r
Spray Volume:	14.8		14.8		14.8		14.8		14.8		14.8	
Volume Unit:	GAL/	AC	GAL/	AC	GAL/	AC	GAL/AC		GAL/AC		GAL/	AC
Propellant:	CO2		CO2		CO2		CO2		CO2		CO2	
Tank Mix (Y/N):	Y		Y		Y		Y		Y		Y	

Measuring the potential for weed competition with a second weed flush.

Trial ID: C28-03 Study Director: Blaine Walden Location: Ponder farm Investigator: Stanley Culpepper

Pest Type	L	cion, Ponder Tarm			estigator					
Crop Code BCH BCOT Scale Rating Date STUNTING CONTRO CONTRO										
BBCH Scale Stating Date Stating Date Strunting Date Strunting Date Strunting Control Strun	Pest	Code			IAQTA	IAQTA	IAQTA	IAQTA	CASOB	CASOB
Rating Date Jun-12-03 Ju	Crop	Code								
Rating Data Type Rating Unit Unit Unit Unit Unit Unit Unit Unit										
Rating Unit	Ratin	g Date		Jun-12-03	Jun-12-03	Jul-03-03	Jul-31-03		Jun-12-03	Jul-03-03
Days After Last Applic. 8	Ratin	g Data Type		STUNTING	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Tri-Eval Interval Rate No. Name Rate No. Name Rate Unit 1 2 3 4 5 6 7	Ratin	g Unit		%	%	%	%	%	%	%
Treatment Rate No. Name Rate Unit 1 2 3 4 5 6 7	Days	After Last Applic.		8	8	13		41	8	13
No. Name	Trt-E	val Interval		23 DA-A	23 DA-A	44 DA-A	72 DA-A	94 DA-A	23 DA-A	44 DA-A
1 Roundup WeatherMax	Trt	Treatment	Rate							
Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 0.75 0.00	No.	Name	Rate Unit				4	5	6	
Roundup WeatherMax 0.75 b ae/a 18.8 100.0 97.5 100.0	1	Roundup WeatherMax	0.38 lb ae/a	2.5	100.0	97.5	100.0	100.0	100.0	100.0
2 Roundup WeatherMax		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 0.75 b ae/a 12.5 100.0 22.5 100.0 100.0 100.0 25.0	2	Roundup WeatherMax	0.38 lb ae/a	18.8	100.0	97.5	100.0	100.0	100.0	100.0
3 Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1.25 b ae/a Roun		Roundup WeatherMax	1 lb ae/a							
Roundup WeatherMax 1.25 lb ae/a Roundup WeatherMax 0.75 lb ae/a 93.8 99.5 100.0 95.0		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 0.75 b ae/a 93.8 99.5 100.0 95.0	3	Roundup WeatherMax	0.38 lb ae/a	12.5	100.0	22.5	100.0	100.0	100.0	25.0
A Prowl Roundup WeatherMax		Roundup WeatherMax	1.25 lb ae/a							
Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Prowl Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 1.25 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.38 b ae/a Dual Magnum 1 pt/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 1 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 1 pt/a Roundup WeatherMax 0.75 b ae/a Roundup WeatherMax 0.75		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 0.75 b ae/a	4	Prowl	2 pt/a			93.8	99.5	100.0		95.0
5 Prowl Roundup WeatherMax Roundup WeatherMax Roundup WeatherMax 1 lb ae/a lb ae/a lb ae/a lb ae/a lb ae/a Roundup WeatherMax 93.8 100.0 100.0 100.0 100.0 100.0 100.0 100.0 0.0		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 1 ib ae/a Roundup WeatherMax 0.75 ib ae/a		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 0.75 lb ae/a	5	Prowl	2 pt/a			93.8	100.0	100.0		100.0
6 Prowl Roundup WeatherMax 2 pt/a 1.25 lb ae/a Roundup WeatherMax 0.0 100.0 100.0 100.0 0.0 7 Roundup WeatherMax 0.38 lb ae/a Dual Magnum 1 pt/a Ib ae/a Roundup WeatherMax 1 b ae/a Ib ae/a Roundup WeatherMax 1 b ae/a Ib ae/a Roundup WeatherMax 15.0 100.0		Roundup WeatherMax	1 lb ae/a							
Roundup WeatherMax 1.25 lb ae/a Roundup WeatherMax 0.75 lb ae/a 15.0 100.0		Roundup WeatherMax								
Roundup WeatherMax 0.75 lb ae/a	6	Prowl	2 pt/a			0.0	100.0	100.0		0.0
7 Roundup WeatherMax 0.38 lb ae/a 15.0 100.0 1		Roundup WeatherMax	1.25 lb ae/a							
Dual Magnum 1 pt/a Roundup WeatherMax 1 lb ae/a Roundup WeatherMax 0.75 lb ae/a 8 Roundup WeatherMax 0.38 lb ae/a 15.0 Dual Magnum 1 pt/a Roundup WeatherMax 1.25 lb ae/a Roundup WeatherMax 0.75 lb ae/a 9 non-treated 0.0 LSD (P=.05) 18.79 Standard Deviation 12.20 CV 95.66 Bartlett's X2 3.276 0.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 </td <td></td> <td>Roundup WeatherMax</td> <td>0.75 lb ae/a</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 1 ib ae/a Roundup WeatherMax 0.75 ib ae/a	7	Roundup WeatherMax	0.38 lb ae/a	15.0	100.0	100.0	100.0	100.0	100.0	100.0
Roundup WeatherMax 0.75 lb ae/a		Dual Magnum								
8 Roundup WeatherMax 0.38 lb ae/a 15.0 100.0 92.5 100.0 100.0 100.0 81.3 Dual Magnum 1 pt/a 1.25 lb ae/a 0.0										
Dual Magnum 1 pt/a Roundup WeatherMax 1.25 lb ae/a 9 non-treated 0.0 0.0 0.0 0.0 LSD (P=.05) 18.79 0.00 22.43 0.49 0.00 0.00 28.15 Standard Deviation 12.20 0.00 15.37 0.33 0.00 0.00 19.29 CV 95.66 0.0 23.15 0.38 0.0 0.0 28.87 Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 0.0 6.307		Roundup WeatherMax	0.75 lb ae/a							
Roundup WeatherMax 1.25 lb ae/a 0.75 lb ae/a 0.00 0.0 28.15 0.0 0.0 19.29 0.0 19.29 0.0 0.0 23.15 0.38 0.0 0.0 28.87 0.0 0.0 0.0 6.307 Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 0.0 6.307				15.0	100.0	92.5	100.0	100.0	100.0	81.3
Roundup WeatherMax 0.75 lb ae/a 0.0 28.15 0.0 0.0 19.29 0.0 0.0 19.29 0.0 0.0 0.0 0.0 28.87 0.0		Dual Magnum	1 pt/a							
9 non-treated 0.0 0.0 0.0 0.0 LSD (P=.05) 18.79 0.00 22.43 0.49 0.00 0.00 28.15 Standard Deviation 12.20 0.00 15.37 0.33 0.00 0.00 19.29 CV 95.66 0.0 23.15 0.38 0.0 0.0 28.87 Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 6.307		Roundup WeatherMax								
LSD (P=.05) 18.79 0.00 22.43 0.49 0.00 0.00 28.15 Standard Deviation 12.20 0.00 15.37 0.33 0.00 0.00 19.29 CV 95.66 0.0 23.15 0.38 0.0 0.0 28.87 Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 6.307		Roundup WeatherMax	0.75 lb ae/a							
Standard Deviation 12.20 0.00 15.37 0.33 0.00 0.00 19.29 CV 95.66 0.0 23.15 0.38 0.0 0.0 28.87 Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 6.307	9	non-treated								
CV 95.66 0.0 23.15 0.38 0.0 0.0 28.87 Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 6.307				18.79	0.00	22.43	0.49	0.00	0.00	28.15
Bartlett's X2 3.276 0.0 29.376 0.0 0.0 0.0 6.307	Stand	dard Deviation							0.00	
P(Bartlett's X2) 0.513 . 0.001* 0.043*	Bartle	ett's X2			0.0	29.376	0.0	0.0	0.0	
	P(Ba	rtlett's X2)		0.513	•	0.001*				0.043*

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

			0.15		9.4			
Pest Type		W Weed						
Pest Code		CASOB	CASOB	PANTE	PANTE	PANTE	PANTE	IPOSS
Crop Code								
BBCH Scale								
Rating Date		Jul-31-03	Aug-22-03	Jun-12-03	Jul-03-03	Jul-31-03	Aug-22-03	Jun-12-03
Rating Data Type		CONTRO						
Rating Unit		%	%	%	%	%	%	%
Days After Last Applic.		19	41	8	13	19	41	8
Trt-Eval Interval		72 DA-A	94 DA-A	23 DA-A	44 DA-A	72 DA-A	94 DA-A	23 DA-A
Trt Treatment	Rate							
No. Name	Rate Unit	8	9	10	11	12	13	14
1 Roundup WeatherMax	0.38 lb ae/a	100.0	100.0	100.0	100.0	100.0	100.0	98.8
Roundup WeatherMax								
Roundup WeatherMax								
2 Roundup WeatherMax		100.0	100.0	100.0	100.0	100.0	100.0	99.5
Roundup WeatherMax								
Roundup WeatherMax								
3 Roundup WeatherMax		100.0	100.0	100.0	12.5	100.0	100.0	98.3
Roundup WeatherMax								
Roundup WeatherMax								
4 Prowl	2 pt/a	98.8	100.0		97.5	100.0	100.0	
Roundup WeatherMax		00.0	100.0		01.0	100.0	100.0	
Roundup WeatherMax								
5 Prowl	2 pt/a	100.0	100.0		98.8	100.0	100.0	
Roundup WeatherMax		100.0	100.0		00.0	100.0	100.0	
Roundup WeatherMax								
6 Prowl	2 pt/a	100.0	100.0		0.0	100.0	100.0	
Roundup WeatherMax		100.0	100.0		0.0	100.0	100.0	
Roundup WeatherMax								
7 Roundup WeatherMax		100.0	100.0	100.0	100.0	100.0	100.0	99.5
Dual Magnum	1 pt/a	100.0	100.0	100.0	100.0	100.0	100.0	00.0
Roundup WeatherMax	1 lb ae/a							
Roundup WeatherMax								
8 Roundup WeatherMax		100.0	100.0	100.0	100.0	100.0	100.0	99.5
Dual Magnum	1 pt/a	100.0	100.0	100.0	100.0	100.0	100.0	33.3
Roundup WeatherMax								
Roundup WeatherMax								
9 non-treated	0.73 ID ac/a	0.0	0.0		0.0	0.0	0.0	
LSD (P=.05)		1.22	0.00	0.00	12.52	0.00	0.00	2.08
Standard Deviation		0.83	0.00	0.00	8.58	0.00	0.00	1.35
CV		0.63	0.00	0.00	12.68	0.00	0.00	1.35
Bartlett's X2		0.0	0.0	0.0	13.577	0.0	0.0	5.338
P(Bartlett's X2)					0.001*			0.254

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

		U	HIIVEI	Sity O	i Geoi
Pest Type			W Weed	W Weed	W Weed
Pest Code			IPOSS	IPOSS	IPOSS
Crop Code					
BBCH Scale					
Rating Date			Jul-03-03	Jul-31-03	Aug-22-03
Rating Data Type			CONTRO	CONTRO	CONTRO
Rating Unit			%	%	%
Days After Last Applic.			13	19	41
Trt-Eval Interval			44 DA-A	72 DA-A	94 DA-A
Trt Treatment		Rate			
No. Name	Rate	Unit	15	16	17
1 Roundup WeatherMax	0.38	lb ae/a	92.5	100.0	100.0
Roundup WeatherMax	0.75	lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
2 Roundup WeatherMax	0.38	lb ae/a	90.0	99.0	100.0
Roundup WeatherMax	1	lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
3 Roundup WeatherMax	0.38	lb ae/a	18.8	99.5	100.0
Roundup WeatherMax	1.25	lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
4 Prowl	2	pt/a	67.5	97.5	100.0
Roundup WeatherMax	0.75	ib ae/a			
Roundup WeatherMax	0.75	lb ae/a			
5 Prowl	2	pt/a	78.8	99.5	100.0
Roundup WeatherMax	1	lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
6 Prowl	2	pt/a	0.0	97.0	100.0
Roundup WeatherMax	1.25	lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
7 Roundup WeatherMax	0.38	lb ae/a	93.8	8.89	100.0
Dual Magnum	1	pt/a			
Roundup WeatherMax		lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
8 Roundup WeatherMax		lb ae/a	67.5	100.0	100.0
Dual Magnum		pt/a			
Roundup WeatherMax	1.25	lb ae/a			
Roundup WeatherMax	0.75	lb ae/a			
9 non-treated			0.0	0.0	0.0
LSD (P=.05)			24.09	1.96	0.00
Standard Deviation	16.51	1.35	0.00		
CV	29.2	1.53	0.0		
Bartlett's X2			11.156	6.337	0.0
P(Bartlett's X2)			0.084	0.275	

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

Trial Comments

OBJECTIVE: Evaluate potential programs for Roundup Ready Flex cotton.

GENERAL COMMENTS:

1) Weed sizes at 7-leaf, 10-leaf, and layby entered in site description are behind PRE's. Following a one-leaf glyphosate, the largest weed size was 4 inches.

RESULTS AND DISCUSSION:

CROP RESPONSE:

1) Percent cotton stunting was from Cadre carryover and not from treatments. Because of herbicide carryover to cotton, the trial could not be harvested.

WEED RESPONSE:

Smallflower morningglory, Sicklepod, Panicum, Pitted morningglory:

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 1) Systems containing an initial glyphosate application at 1-leaf cotton were relatively clean throughout the season.
- Excellent control was noted with all systems, even when weeds were large at time of application.
 Although Dual in the system did not appear to be beneficial, it did reduce weed sizes by 20 to 40% at time of applications. Thus, a non-timely grower would likely benefit from this program.

CONCLUSION:

- 1) Initial application at 1 to 2-leaf cotton will greatly enhance flexibility in the Flex system for late-season control.
- 2) Environment was perfect for good control by glyphosate in this trial. Additionally, cotton grew very aggressively aiding control with plant canopy.
- 3) Dual was of little value in this trial.4) No weeds extremely difficult to control by glyphosate were present.