

University of Tennessee

TO DETERMINE SELECTIVITY OF CHA-2745 WHEN APPLIED PRE & POST TO COTTON IN 2015

Trial ID: JCTCHEM1502-15 Location: Jackson, TN Trial Year: 2015
 Protocol ID: HGOSHIPET1502 Investigator: Dr. Larry Steckel
 Project ID: HGOSHIPET1502 Study Director: LARRY STECKEL
 Sponsor Contact: JIM BARRENTINE

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Unit	Stage	Appl Code	Rep 1	2	3	4	Notes
1	CHK WEED-FREE CHK HERB LIBERTY	2.34	SL	29	oz/a	POST	B	101	206	307	406	
2	HERB CHA-2745 HERB CHA-2745 HERB LIBERTY	5 5 2.34	EC EC SL	25.6 25.6 29	oz/a oz/a oz/a	PRE POST POST	A B B	102	201	306	404	
3	HERB CHA-2745 HERB CHA-2745 HERB LIBERTY	5 5 2.34	EC EC SL	51 51 29	oz/a oz/a oz/a	PRE POST POST	A B B	103	202	301	402	
4	HERB DUAL MAGNUM HERB DUAL MAGNUM HERB LIBERTY	7.62 7.62 2.34	EC EC SL	16.8 16.8 29	oz/a oz/a oz/a	PRE POST POST	A B B	104	207	304	401	
5	HERB DUAL MAGNUM HERB DUAL MAGNUM HERB LIBERTY	7.62 7.62 2.34	EC EC SL	33.6 33.6 29	oz/a oz/a oz/a	PRE POST POST	A B B	105	203	305	403	
6	HERB WARRANT HERB WARRANT HERB LIBERTY	3 3 2.34	EC EC SL	48 48 29	oz/a oz/a oz/a	PRE POST POST	A B B	106	205	303	405	
7	HERB WARRANT HERB WARRANT HERB LIBERTY	3 3 2.34	EC EC SL	96 96 29	oz/a oz/a oz/a	PRE POST POST	A B B	107	204	302	407	

Sort Order: Replicate 1

University of Tennessee

TO DETERMINE SELECTIVITY OF CHA-2745 WHEN APPLIED PRE & POST TO COTTON IN 2015

Trial ID: JCTCHEM1502-15 Location: Jackson, TN Trial Year: 2015
 Protocol ID: HGOSHIPET1502 Investigator: Dr. Larry Steckel
 Project ID: HGOSHIPET1502 Study Director: LARRY STECKEL
 Sponsor Contact: JIM BARRENTINE

General Trial Information

Study Director: LARRY STECKEL
Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Keywords: CHA-2735, PETHOXAMID, S-METOLACHLOR, ACETOCHLOR, COTTON, PRE & POST, SELECTIVITY, HIGH RATES, YIELD

Objectives:

DETERMINE CROP SAFETY AND YIELD OF CHA-2735 WHEN APPLIED PRE + POST

Contacts

Study Director: LARRY STECKEL

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: GOSHI Gossypium hirsutum American upland cotton
Variety: STV 4946 **BBCH Scale:** BCOT
Description: LL/RR

Planting Rate, Unit: 4 S/FT
Depth, Unit: 0.5 IN
Row Spacing, Unit: 38 IN
Spacing Within Row, Unit: 3 IN

Planting Date: 4-30-15
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Site and Design

Treated Plot Width: 9.5 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 285 FT2 **Treatments:** 7 **Tillage Type:** NOTILL no-till
Replications: 6 **Study Design:** RACOBL Randomized Complete Block (RCB)

Field Prep./Maintenance:

Jan. 8 - 0-0-60
 March 17 - Roundup PowerMax 32 oz/A + Clarity 8 oz/A
 April 24 - Gramoxone SL 48 oz/A + COC1%
 May 5 - Irrigated 1 inch
 May 13 - Orthene 0.25 lb/A
 May 13 - Irrigated 0.5 inch

Application Description

	A	B
Application Date:	5-1-15	5-26-15
Appl. Start Time:	7:30 AM	1:15 PM
Appl. Stop Time:	7:43 AM	1:25 PM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	2LF COTTON
Application Placement:	BROSOI	BROFOL
Applied By:	JR	GM
Air Temperature, Unit:	50 F	79 F
% Relative Humidity:	54	65
Wind Velocity, Unit:	4 MPH	5 MPH
Wind Direction:	NE	WSW
Dew Presence (Y/N):	Y yes	N no
Soil Temperature, Unit:	53 F	80 F
Soil Moisture:	NORMAL	EXCELL
% Cloud Cover:	0	50

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TO DETERMINE SELECTIVITY OF CHA-2745 WHEN APPLIED PRE & POST TO COTTON IN 2015

Trial ID: JCTCHEM1502-15 Location: Jackson, TN Trial Year: 2015
 Protocol ID: HGOSHIPET1502 Investigator: Dr. Larry Steckel
 Project ID: HGOSHIPET1502 Study Director: LARRY STECKEL
 Sponsor Contact: JIM BARRENTINE

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GOSHI BCOT	GOSHI BCOT
Stage Scale Used:	--	2LF
Height, Unit:		4 IN
Height Minimum, Maximum:		4 5

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	40 PSI	40 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	19 IN	19 IN
Nozzles/Row:	2	2
Boom Length, Unit:	6.33 FT	6.33 FT
Boom Height, Unit:	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 GAL/AC	0.528 GAL/AC
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y yes	Y yes

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EFFICACY OF POTENTIAL HERBICIDE TANKMIXES IN XTENDFLEX COTTON

Trial ID: 2015-01-B6-01 Location: Jackson, TN Trial Year: 2015
 Protocol ID: 2015-01-B6-01 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
1	VAR 14RDGTCHK							101	210	311	404	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB MON 76832	3	SL	2 qt/a		POST2	C					
	HERB WARRANT	3	CS	1.5 qt/a		POST2	C					
2	VAR 14RDGTCHK							102	212	309	406	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB DUAL MAGNUM	7.62	EC	0.5 qt/a		POST2	C					
	HERB MON 76832	3	SL	2 qt/a		POST2	C					
3	VAR 14RDGTCHK							103	211	301	405	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	ADJ PREFERENCE	100	SL	0.25 % v/v		POST2	C					
	HERB MON 119096	2.91	SL	22 oz/a		POST2	C					
	HERB WARRANT	3	CS	1.5 qt/a		POST2	C					
4	VAR 14RDGTCHK							104	205	310	402	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	ADJ PREFERENCE	100	SL	0.25 % v/v		POST2	C					
	HERB DUAL MAGNUM	7.62	EC	0.5 qt/a		POST2	C					
	HERB MON 119096	2.91	SL	22 oz/a		POST2	C					
5	VAR 14RDGTCHK							105	204	308	411	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB LIBERTY 280 SL	2.34	SL	29 oz/a		POST2	C					
	HERB MON 119096	2.91	SL	22 oz/a		POST2	C					
6	VAR 14RDGTCHK							106	207	313	407	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB LIBERTY 280 SL	2.34	SL	29 oz/a		POST2	C					
	HERB WARRANT	3	CS	1.5 qt/a		POST2	C					
7	VAR 14RDGTCHK							107	213	303	412	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB DUAL MAGNUM	7.62	EC	0.5 qt/a		POST2	C					
	HERB LIBERTY 280 SL	2.34	SL	29 oz/a		POST2	C					
8	VAR 14RDGTCHK							108	206	304	413	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB LIBERTY 280 SL	2.34	SL	29 oz/a		POST2	C					
	HERB MON 76832	3	SL	2 qt/a		POST2	C					
9	VAR 14RDGTCHK							109	203	307	403	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	HERB MON 76832	3	SL	2 qt/a		POST2	C					
10	VAR 14RDGTCHK							110	201	302	409	
	HERB DIREX 4L	4	SC	1 qt/a		PRE	A					
	HERB WARRANT	3	CS	1.5 qt/a		PRE	A					
	HERB MON 76832	3	SL	2 qt/a		POST1	B					
	ADJ PREFERENCE	100	SL	0.25 % v/v		POST2	C					
	HERB MON 119096	2.91	SL	22 oz/a		POST2	C					

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EFFICACY OF POTENTIAL HERBICIDE TANKMIXES IN XTENDFLEX COTTON

Trial ID: 2015-01-B6-01 Location: Jackson, TN Trial Year: 2015
 Protocol ID: 2015-01-B6-01 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

Trt No.	Treatment Type	Form Conc	Form Type	Rate	Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
11	VAR	14RDGTCHK						111	209	306	401	
		HERB DIREX 4L	4	SC	1	qt/a	PRE	A				
		HERB WARRANT	3	CS	1.5	qt/a	PRE	A				
		HERB MON 76832	3	SL	2	qt/a	POST1	B				
		HERB LIBERTY 280 SL	2.34	SL	29	oz/a	POST2	C				
12	VAR	14RDGTCHK						112	208	305	408	
		HERB DIREX 4L	4	SC	1	qt/a	PRE	A				
		HERB WARRANT	3	CS	1.5	qt/a	PRE	A				
		HERB MON 76832	3	SL	2	qt/a	POST1	B				
		HERB MON 100218	3.74	SC	1.8125	qt/a	POST2	C				
13	VAR	14RDGTCHK						113	202	312	410	
		HERB DIREX 4L	4	SC	1	qt/a	PRE	A				
		HERB WARRANT	3	CS	1.5	qt/a	PRE	A				
		HERB MON 76832	3	SL	2	qt/a	POST1	B				
		CHK CHECK										

Sort Order: Replicate 1

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EFFICACY OF POTENTIAL HERBICIDE TANKMIXES IN XTENDFLEX COTTON

Trial ID: 2015-01-B6-01 Location: Jackson, TN Trial Year: 2015
 Protocol ID: 2015-01-B6-01 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

General Trial Information

Study Director: Larry Steckel
Investigator: Dr. Larry Steckel

Trial Location

Country: USA United States

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

To evaluate the potential impact on crop injury and yield from tankmix herbicides in Bollgard II XtendFlex cotton when used with dicamba or dicamba containing products.

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: GOSHI Gossypium hirsutum American upland cotton
Variety: 14RDGTCHK **BBCH Scale:** BCOT
Description: XTENDFLEX

Planting Date: 4-30-15

Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Planting Rate, Unit: 4 S/FT

Depth, Unit: 0.5 IN

Row Spacing, Unit: 38 IN

Spacing Within Row, Unit: 3 IN

Soil Moisture: NORMAL normal, adequate

Seed Bed: MEDIUM medium

Site and Design

Treated Plot Width: 12.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 380.1 FT2 **Treatments:** 13 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
 Average Total Node Count from 10 plants per plot

Field Prep./Maintenance:

Jan. 8 - 0-0-60

March 17 - Roundup PowerMax 32 oz/A + Clarity 8 oz/A

April 24 - Gramoxone SL 48 oz/A + COC 1%

May 5 - Irrigated 0.5 inch

May 13 - Orthene 0.25 lb/A

University of Tennessee

EFFICACY OF POTENTIAL HERBICIDE TANKMIXES IN XTENDFLEX COTTON

Trial ID: 2015-01-B6-01
 Protocol ID: 2015-01-B6-01
 Project ID:

Location: Jackson, TN Trial Year: 2015
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

Application Description

	A
Application Date:	4-30-15
Appl. Start Time:	1:00 pm
Appl. Stop Time:	1:30 PM
Application Method:	SPRAY
Application Timing:	PRE
Application Placement:	BROSOL
Applied By:	LS
Air Temperature, Unit:	73 F
% Relative Humidity:	32
Wind Velocity, Unit:	10 MPH
Wind Direction:	NNW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	66 F
Soil Moisture:	NORMAL
% Cloud Cover:	40

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GOSHI BCOT
Stage Scale Used:	--

Application Equipment

	A
Appl. Equipment:	Tractor
Operation Pressure, Unit:	40 PSI
Nozzle Type:	AIR INDUC
Nozzle Size:	AI110015
Nozzle Spacing, Unit:	19 IN
Nozzles/Row:	2
Boom Height, Unit:	12.6 FT
Ground Speed, Unit:	15 IN
Incorporation Equip.:	4
Hours to Incorp.:	MPH
Carrier:	WATER
Spray Volume, Unit:	11 GPA
Tank Mix (Y/N):	Y

University of Tennessee

HERBICIDE SYSTEMS IN DGT COTTON

Trial ID: MKD-H-2015-US-F01-A-01.0
 Protocol ID: MKD-H-2015-US-F01-A-01.0
 Project ID:

Location: Trial Year: 2015
 Investigator: Dr. Larry Steckel
 Study Director: LARRY STECKEL
 Sponsor Contact: BASF

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
1	CHK NONTREATED							101	210	305	402	
2	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	4LF COTTON	B	102	212	311	404	
3	HERB ROUNDUP POWERMAX HERB DGA Dicamba	5.5	SL L	32	fl oz/a	4LF COTTON	B B	103	211	301	407	
4	HERB ROUNDUP POWERMAX HERB DGA Dicamba	5.5	SL L	32	fl oz/a	8LF COTTON	C C	104	208	312	401	
5	HERB PROWL H20 HERB COTORAN HERB ROUNDUP POWERMAX HERB ENGENIA ADJ NIS	3.8 4 5.5 L 100	CS L SL L SL	32 32 32 12.8 0.25	fl oz/a fl oz/a fl oz/a fl oz/a % v/v	PREPRE PREPRE 4LF COTTON 4LF COTTON 4LF COTTON	A A B B B	105	201	310	411	
6	HERB PROWL H20 HERB COTORAN HERB ROUNDUP POWERMAX HERB ENGENIA HERB OUTLOOK ADJ NIS	3.8 4 5.5 L 6 100	CS L SL L SC SL	32 32 32 12.8 16 0.25	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a % v/v	PREPRE PREPRE 4LF COTTON 4LF COTTON 4LF COTTON 4LF COTTON	A A B B B B	106	202	307	408	
7	HERB PROWL H20 HERB COTORAN HERB ROUNDUP POWERMAX HERB ENGENIA HERB OUTLOOK ADJ NIS HERB LIBERTY HERB WARRANT	3.8 4 5.5 L 6 100 2.34 3	CS L SL L SC SL SL SL	32 32 32 12.8 16 0.25 29 48	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a % v/v fl oz/a fl oz/a	PREPRE PREPRE 4LF COTTON 4LF COTTON 4LF COTTON 4LF COTTON 8LF COTTON 8LF COTTON	A A B B B B C C	107	205	308	412	
8	HERB PROWL H20 HERB COTORAN HERB LIBERTY HERB OUTLOOK HERB ROUNDUP POWERMAX HERB ENGENIA HERB WARRANT ADJ NIS	3.8 4 2.34 6 5.5 L 3 100	CS L SL SC SL L SL SL	32 32 29 16 32 12.8 48 0.25	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a oz/a oz/a % v/v	PREPRE PREPRE 4LF COTTON 4LF COTTON 8 LF COTTON 8 LF COTTON 8 LF COTTON 8 LF COTTON	A A B B C C C C	108	207	306	409	
9	HERB PROWL H20 HERB COTORAN HERB ROUNDUP POWERMAX HERB ENGENIA HERB OUTLOOK ADJ NIS HERB LIBERTY HERB ZIDUA	3.8 4 5.5 L 6 100 2.34 85	CS L SL L SC SL SL WG	32 32 32 12.8 16 0.25 29 1.5	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a % v/v fl oz/a oz/a	PREPRE PREPRE 4LF COTTON 4LF COTTON 4LF COTTON 4LF COTTON LAYBY LAYBY	A A B B B B D D	109	204	302	405	
10	HERB PROWL H20 HERB COTORAN HERB LIBERTY HERB ROUNDUP POWERMAX HERB DUAL MAGNUM HERB LIBERTY HERB WARRANT	3.8 4 2.34 5.5 7.62 2.34 3	CS L SL SL EC SL SL	32 32 29 32 21 29 48	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a	PREPRE PREPRE 4LF COTTON 4LF COTTON 4LF COTTON 4LF COTTON 8LF COTTON 8LF COTTON	A A B B B B C C	110	209	303	406	
11	HERB ROUNDUP POWERMAX HERB DGA Dicamba HERB WARRANT HERB ROUNDUP POWERMAX HERB DGA Dicamba HERB WARRANT	5.5 L 3 5.5 L 3	SL L SL SL L SL	32 16 48 32 16 48	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a	4LF COTTON 4LF COTTON 4LF COTTON 8LF COTTON 8LF COTTON 8LF COTTON	B B B C C C	111	203	309	403	
12	HERB PROWL H20 HERB COTORAN HERB ROUNDUP POWERMAX HERB ENGENIA HERB OUTLOOK HERB LIBERTY	3.8 4 5.5 L 6 2.34	CS L SL L SC SL	32 32 32 12.8 16 29	fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a fl oz/a	PREPRE PREPRE 8LF COTTON 8LF COTTON 8LF COTTON 8LF COTTON	A A C C C C	112	206	304	410	

Sort Order: Replicate 1

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HERBICIDE SYSTEMS IN DGT COTTON

Trial ID: MKD-H-2015-US-F01-A-01.0
 Protocol ID: MKD-H-2015-US-F01-A-01.0
 Project ID:

Location: Trial Year: 2015
 Investigator: Dr. Larry Steckel
 Study Director: LARRY STECKEL
 Sponsor Contact: BASF

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:	PRE	4 leaf	8 leaf	layby

Application Equipment

	A	B	C	D
Appl. Equipment:	Tractor			
Equipment Type:	TRACTO			
Operation Pressure, Unit:	40 PSI			
Nozzle Type:	AIR INDUC			
Nozzle Size:	AI110015			
Nozzle Spacing, Unit:	19 IN			
Nozzles/Row:	2			
Boom Length, Unit:	12.6 FT			
Boom Height, Unit:	15 IN			
Ground Speed, Unit:	4 MPH			
Carrier:	WATER			
Spray Volume, Unit:	11 GPA			
Propellant:	PUMCEN			
Tank Mix (Y/N):	Y			

University of Tennessee

WEED MANAGEMENT SYSTEMS IN XTENDFLEX COTTON FOR THE MIDSOUTH

Trial ID: 2015-01-B6-06 Location: Jackson, TN Trial Year: 2015
 Protocol ID: 2015-01-B6-06 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	Rep				Notes
							1	2	3	4	
1	VAR 14RDGTCHK ADJ PREFERENCE HERB MON 119096 HERB WARRANT HERB MON 76832 HERB WARRANT HERB LIBERTY 280 SL	100 2.91 3 3 3 2.34	SL SL CS SL CS SL	0.25 % v/v 22 oz/a 1.5 qt/a 2 qt/a 1.5 qt/a 29 oz/a	PRE PRE PRE POST1 POST1 POST2	A A A B B C	101	208	305	409	
2	VAR 14RDGTCHK ADJ PREFERENCE HERB COTORAN 4L HERB MON 119096 HERB MON 76832 HERB WARRANT HERB LIBERTY 280 SL	100 4 2.91 3 3 2.34	SL SC SL SL CS SL	0.25 % v/v 1 qt/a 22 oz/a 2 qt/a 1.5 qt/a 29 oz/a	PRE PRE PRE POST1 POST1 POST2	A A A B B C	102	210	307	408	
3	VAR 14RDGTCHK HERB COTORAN 4L HERB MON 76832 HERB WARRANT HERB LIBERTY 280 SL	4 3 3 2.34	SC SL CS SL	1 qt/a 2 qt/a 1.5 qt/a 29 oz/a	PRE POST1 POST1 POST2	A B B C	103	206	303	407	
4	VAR 14RDGTCHK HERB COTORAN 4L ADJ PREFERENCE HERB MON 119096 HERB WARRANT HERB LIBERTY 280 SL	4 100 2.91 3 3 2.34	SC SL SL CS SL	1 qt/a 0.25 % v/v 22 oz/a 1.5 qt/a 29 oz/a	PRE POST1 POST1 POST1 POST2	A B B B C	104	205	301	406	
5	VAR 14RDGTCHK HERB COTORAN 4L HERB MON 76832 HERB LIBERTY 280 SL	4 3 2.34	SC SL SL	1 qt/a 2 qt/a 29 oz/a	PRE POST1 POST2	A B C	105	207	310	401	
6	VAR 14RDGTCHK HERB COTORAN 4L HERB WARRANT HERB MON 76832 HERB LIBERTY 280 SL	4 3 3 2.34	SC CS SL SL	1 qt/a 1.5 qt/a 2 qt/a 29 oz/a	PRE PRE POST1 POST2	A A B C	106	204	309	403	
7	VAR 14RDGTCHK HERB COTORAN 4L HERB MON 76832 HERB LIBERTY 280 SL HERB WARRANT	4 3 2.34 3	SC SL SL CS	1 qt/a 2 qt/a 29 oz/a 1.5 qt/a	PRE POST1 POST2 POST2	A B C C	107	203	306	405	
8	VAR 14RDGTCHK HERB COTORAN 4L HERB MON 76832 HERB MON 76832	4 3 3	SC SL SL	1 qt/a 2 qt/a 2 qt/a	PRE POST1 POST2	A B C	108	209	302	404	
9	VAR 14RDGTCHK HERB COTORAN 4L HERB MON 76832 HERB WARRANT HERB MON 76832	4 3 3 3	SC SL CS SL	1 qt/a 2 qt/a 1.5 qt/a 2 qt/a	PRE POST1 POST1 POST2	A B B C	109	201	304	410	
10	VAR 14RDGTCHK HERB COTORAN 4L HERB MON 76832 HERB MON 76832 HERB WARRANT	4 3 3 3	SC SL SL CS	1 qt/a 2 qt/a 2 qt/a 1.5 qt/a	PRE POST1 POST2 POST2	A B C C	110	202	308	402	

Sort Order: Replicate 1

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WEED MANAGEMENT SYSTEMS IN XTENDFLEX COTTON FOR THE MIDSOUTH

Trial ID: 2015-01-B6-06 Location: Jackson, TN Trial Year: 2015
 Protocol ID: 2015-01-B6-06 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

General Trial Information

Study Director: Larry Steckel
Investigator: Dr. Larry Steckel

Trial Location

Country: USA United States

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

To determine the ideal weed management strategy for XtendFlex cotton in the Midsouth and potential crop response and resulting yield impact of our supported system.

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: GOSHI	Gossypium hirsutum	American upland cotton
Variety: 14RDGTCHK		
Description: XTENDFLEX	BBCH Scale: BCOT	
Planting Rate, Unit: 4 S/FT		Planting Date: 5-5-15
Depth, Unit: 0.5 IN		Planting Method: PLANTD planted
Row Spacing, Unit: 38 IN		Planting Equipment: FE Field Equipment
Spacing Within Row, Unit: 3 in		
Soil Temperature, Unit: 73 F		
Soil Moisture: NORMAL normal, adequate		
Seed Bed: MEDIUM medium		

Pest Description

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

Pest 2 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Site and Design

Treated Plot Width: 12.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 380.1 FT² **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

jJan 8 - 0-0-60
 Mar 17 - Roundup PowerMax 32 oz/A + Clarity 8 oz/A
 April 24 - Gramoxone SL 48 oz/A + COC 1%
 May 5 - Interlock 4 oz/A was added to all dicamba treatments
 May 15 - Irrigated 0.5 inch
 May 22 - Orthene 0.25 lb/A
 May 22 - Select Max 16 oz/a + NIS 1%
 May 27 - Interlock 4 oz/A was added to all treatments

University of Tennessee

WEED MANAGEMENT SYSTEMS IN XTENDFLEX COTTON FOR THE MIDSOUTH

Trial ID: 2015-01-B6-06
 Protocol ID: 2015-01-B6-06
 Project ID:

Location: Jackson, TN Trial Year: 2015
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: B. Montgomery

Application Description

	A	B	C
Application Date:	5-5-15	5-27-15	
Appl. Start Time:	1:30 PM	7:33 AM	
Appl. Stop Time:	1:45 PM	7:53 AM	
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	POST1	POST2
Application Placement:	BROSOI	BROFOL	
Applied By:	JR	TB	
Air Temperature, Unit:	89 F	73 F	
% Relative Humidity:	43	79	
Wind Velocity, Unit:	6 MPH	4 MPH	
Wind Direction:	SSW	SE	
Dew Presence (Y/N):	N no	Y yes	
Soil Temperature, Unit:	79 F	68 F	
Soil Moisture:	NORMAL	EXCELL	
% Cloud Cover:	40	40	

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT
Stage Scale Used:	--	2LF	
Height, Unit:		3 IN	
Height Minimum, Maximum:		3 4	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMAPA W --	AMAPA W 10+L	AMAPA W
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 6	
Pest 2 Code, Type, Scale:	IPOLA W --	IPOLA W 2-4L	IPOLA W
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 3	

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	
Equipment Type:	BACCAI	BACCAI	
Operation Pressure, Unit:	35 PSI	35 PSI	
Nozzle Type:	TTI	TTI	
Nozzle Size:	003	003	
Nozzle Spacing, Unit:	19 IN	19 IN	
Boom Height, Unit:	6.33 FT	6.33 FT	
Ground Speed, Unit:	17 IN	17 IN	
Incorporation Equip.:	4	4	
Hours to Incorp.:	0	0	
Carrier:	WATER	WATER	
Spray Volume, Unit:	15 gal/ac	15 gal/ac	
Mix Size, Unit:	0.528 gallons	0.528 gallons	
Propellant:	COMCO2	COMCO2	
Tank Mix (Y/N):	Y yes	Y yes	