

University of Tennessee

ACURON HERBICIDES FOR CONTROL OF WEEDS IN FIELD CORN/USSG0H3562017

Trial ID: JCRSYNRR17 Location: JACKSON TN Trial Year: 2017
 Protocol ID: HJCH0074-2017US Investigator: James Holloway
 Project ID: Study Director: LARRY STECKEL
 Sponsor Contact: James Holloway

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	Rep				Notes
							1	2	3	4	
1	CHK						101	203	305	401	
2	HERB ACURON	3.44	ZC	48 oz/a	PRE	A	102	205	303	404	
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a	PRE	A					
	ADJ NIS	0	SL	0.25 % v/v	POST	B					
	HERB HALEX GT	4.38	CS	64 oz/a	POST	B					
	HERB AATREX	4	SC	32 oz/a	POST	B					
3	HERB ACURON	3.44	ZC	40 oz/a	PRE	A	103	204	301	402	
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a	PRE	A					
	HERB AATREX	4	SC	32 oz/a	POST	B					
	HERB ACURON	3.44	ZC	40 oz/a	POST	B					
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST	B					
4	HERB ACURON	3.44	ZC	80 oz/a	POST	B	104	201	302	405	
	HERB AATREX	4	SC	32 oz/a	POST	B					
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST	B					
5	HERB AATREX	4	SC	32 oz/a	PRE	A	105	202	304	403	
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a	PRE	A					
	HERB CAPRENO	3.45	SL	3 oz/a	POST	B					
	HERB AATREX	4	SC	48 oz/a	POST	B					
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a	POST	B					
	ADJ NIS	0	SL	0.25 % v/v	POST	B					

Sort Order: Replicate 1

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ACURON HERBICIDES FOR CONTROL OF WEEDS IN FIELD CORN/USSG0H3562017

Trial ID: JCRSYNRR17 Location: JACKSON TN Trial Year: 2017
 Protocol ID: HJCH0074-2017US Investigator: James Holloway
 Project ID: Study Director: LARRY STECKEL
 Sponsor Contact: James Holloway

General Trial Information

Study Director: LARRY STECKEL
Investigator: James Holloway

Initiation Date: 3-16-17

@VAR1 49.376656 -24.53833
 -124.715843 -66.968887

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Evaluate Acuron in Field Corn for control of problem weeds

Contacts

Study Director: LARRY STECKEL

Investigator: James Holloway

Crop Description

Crop 1: ZEAMX Zea mays
Variety: PIONEER 1319
Description: Herculex/LL/RR

BBCH Scale: BCOR

Corn

Planting Date: 4-5-17

Planting Method: PLANTD planted

Planting Equipment: FE Field Equipment

Planting Rate, Unit: 32000 S/A

Depth, Unit: 2 IN

Row Spacing, Unit: 30 IN

Spacing Within Row, Unit: 6 IN

Soil Temperature, Unit: 55 F

Soil Moisture: EXCELL excellent

Seed Bed: MEDTRA medium/trashy

Pest Description

Pest 1 Type: W **Code:** ANNGR Annual Grasses

Pest 2 Type: W **Code:** AMAPA Amaranthus palmeri
Common Name: Palmer amaranth

Pest 3 Type: W **Code:** SIDSP Sida spinosa
Common Name: Teaweed

Site and Design

Treated Plot Width: 10 FT

Treated Plot Length: 30 FT

Treated Plot Area: 300 FT² **Treatments:** 5

Replications: 4

Site Type: FIELD field

Tillage Type: NOTILL no-till

Study Design: RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

11/1/16 - 0-30-60

3/20/17 32 OZ ROUNDUP WEATHERMAX + 8 OZ CLARITY

4/10 - Karate 2 oz/A

4/17 - Karate 2 oz/A

5/3- 180 LBS OF 32% LIQUID NITROGEN

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 Sponsor Contact: James Holloway

Application Description

	A	B
Application Date:	4-6-17	5-3-17
Appl. Start Time:	8:45 AM	7:59 AM
Appl. Stop Time:	8:50 AM	8:03 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOL	BROFOL
Applied By:	GM	DC
Air Temperature, Unit:	50 F	69 F
% Relative Humidity:	52	61
Wind Velocity, Unit:	10 MPH	6 MPH
Wind Direction:	N	SW
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	54 F	59 F
Soil Moisture:	EXCELL	NORMAL
% Cloud Cover:	0	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	V3-V4
Stage Majority, Percent:	00	
Height, Unit:		6 IN
Height Minimum, Maximum:		5 7

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ANNGR W --	ANNGR W 4L
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Pest 2 Code, Type, Scale:	AMAPA W --	AMAPA W 2-6L
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Pest 3 Code, Type, Scale:	SIDSP W --	SIDSP W 3-4L
Height, Unit:		1 IN
Height Minimum, Maximum:		1 2

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ACURON HERBICIDES FOR CONTROL OF WEEDS IN FIELD CORN/USSG0H3562017

Trial ID: JCRSYNRR17 Location: JACKSON TN Trial Year: 2017
 Protocol ID: HJCH0074-2017US Investigator: James Holloway
 Project ID: Study Director: LARRY STECKEL
 Sponsor Contact: James Holloway

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	33 PSI	33 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	110025	110025
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 gallons	0.528 gallons
Propellant:	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes

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LIBERTY / INCREASED RATES OF LIBERTY / LL CORN/ EFFICACY, SELECTIVITY

Trial ID: MCRBAY1-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: HP17USAWGIUZW1 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: JONES/BAYER

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
1	CHK	UNTREATED						101	212	305	411	
2	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		102	215	308	406	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	32 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
3	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		103	207	304	404	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	36 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
4	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		104	204	306	405	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	43 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
5	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		105	202	309	407	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	32 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB ATRAZINE	4	F	2 pt/a		EAPOCR B						
6	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		106	201	307	401	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	36 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB ATRAZINE	4	F	2 pt/a		EAPOCR B						
7	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		107	208	313	408	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	43 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB ATRAZINE	4	F	2 pt/a		EAPOCR B						
8	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		108	209	310	402	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	22 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB LAUDIS	3.5	SC	3 oz/a		EAPOCR B						
9	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		109	213	303	414	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	32 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB LAUDIS	3.5	SC	3 oz/a		EAPOCR B						
10	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		110	210	301	415	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	43 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB LAUDIS	3.5	SC	3 oz/a		EAPOCR B						
11	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		111	214	315	409	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	22 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB DIFLEXX	4	SC	10 oz/a		EAPOCR B						
12	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		112	205	312	413	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	32 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB DIFLEXX	4	SC	10 oz/a		EAPOCR B						
13	HERB BALANCE FLEXX	2	SC	3 oz/a		PREMCR A		113	203	311	403	
	HERB ATRAZINE	4	F	2 pt/a		PREMCR A						
	HERB LIBERTY 280	2.34	SL	43 oz/a		EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal		EAPOCR B						
	HERB DIFLEXX	4	SC	10 oz/a		EAPOCR B						

University of Tennessee

LIBERTY / INCREASED RATES OF LIBERTY / LL CORN/ EFFICACY, SELECTIVITY

Trial ID: MCRBAY1-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: HP17USAWGIUZW1 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: JONES/BAYER

Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
14	HERB BALANCE FLEXX	2	SC	3 oz/a	PREMCR A		114	211	314	412	
	HERB ATRAZINE	4	F	2 pt/a	PREMCR A						
	HERB LIBERTY 280	2.34	SL	22 oz/a	EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal	EAPOCR B						
	HERB ATRAZINE	4	F	2 pt/a	EAPOCR B						
	HERB LIBERTY 280	2.34	SL	32 oz/a	MIPOCR C						
	FERT AMS		WG	8.5 lb/100 gal	MIPOCR C						
15	HERB BALANCE FLEXX	2	SC	3 oz/a	PREMCR A		115	206	302	410	
	HERB ATRAZINE	4	F	2 pt/a	PREMCR A						
	HERB LIBERTY 280	2.34	SL	32 oz/a	EAPOCR B						
	FERT AMS		WG	8.5 lb/100 gal	EAPOCR B						
	HERB ATRAZINE	4	F	2 pt/a	EAPOCR B						
	HERB LIBERTY 280	2.34	SL	32 oz/a	MIPOCR C						
	FERT AMS		WG	8.5 lb/100 gal	MIPOCR C						

Sort Order: Replicate 1

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LIBERTY / INCREASED RATES OF LIBERTY / LL CORN/ EFFICACY, SELECTIVITY

Trial ID: MCRBAY1-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: HP17USAWGIUZW1 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: JONES/BAYER

General Trial Information

Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: PIONEER 1319 HR **BBCH Scale:** BCOR
Description: Herculex/LL/RR

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Pest Description

Pest 1 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed

Pest 2 Type: W **Code:** ANNGR Annual Grasses

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: Teaweed

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 15 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB L Randomized Complete Block (RCB)

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

Application Description

	A	B	C
Application Date:	4-10-17	5-11-17	5-22-17
Appl. Start Time:	10:28 AM	9:04 AM	10:02 AM
Appl. Stop Time:	10:41 AM	9:23 AM	10:05 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EAPOCR	MIPOCR
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	DC	DC	DC
Air Temperature, Unit:	72 F	76 F	70 F
% Relative Humidity:	56	65	57
Wind Velocity, Unit:	10 MPH	4 MPH	3.5 MPH
Wind Direction:	WSW	NW	NE
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	65	69 F	68 F
Soil Moisture:	NORMAL	DRY	NORMAL
% Cloud Cover:	65	80	80

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LIBERTY / INCREASED RATES OF LIBERTY / LL CORN/ EFFICACY, SELECTIVITY

Trial ID: MCRBAY1-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: HP17USAWGIUZW1 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: JONES/BAYER

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	00 100	V5	V7
Height, Unit:		15 IN	28 IN
Height Minimum, Maximum:		15 18	24 30

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMACH W --	AMACH W 2-4L	AMACH W --
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 3	
Pest 2 Code, Type, Scale:	ANNGR W --	ANNGR W 2-4L	ANNGR W --
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 3	
Pest 3 Code, Type, Scale:	IPOLA W --	IPOLA W 1-2L	IPOLA W 1L
Height, Unit:		1 IN	1 IN
Height Minimum, Maximum:		1 2	1 2
Pest 4 Code, Type, Scale:	SIDSP W --	SIDSP W 1-2L	SIDSP W 1LF
Height, Unit:		1 IN	1 IN
Height Minimum, Maximum:		1 2	1 2

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	33 PSI	33 PSI	33 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	110025	110025	110025
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Nozzles/Row:	2	2	2
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT
Boom Height, Unit:	16 IN	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 gallons	0.528 gallons	0.528 gallons
Propellant:	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes	Y yes

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DIFLEXX DUO/MPOST/EFFICACY/TOLERANCE

Trial ID: MCRBAY2-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: HP17USAWMXUZW1 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: JONES/BAYER

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	207	301	403	
2	HERB DIFLEXX DUO	1.62	SC	32 oz/a		POST	A	102	201	307	402	
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a		POST	A					
	HERB AATREX	4	L	16 oz/a		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
3	HERB DIFLEXX DUO	1.62	SC	32 oz/a		POST	A	103	208	309	406	
	HERB AATREX	4	L	16 oz/a		POST	A					
	ADJ COC	100	SL	1 % v/v		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
4	HERB DIFLEXX DUO	1.62	SC	24 oz/a		POST	A	104	206	304	408	
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a		POST	A					
	HERB AATREX	4	L	16 oz/a		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
5	HERB DIFLEXX DUO	1.62	SC	24 oz/a		POST	A	105	205	303	401	
	HERB LIBERTY 280	2.34	SL	32 oz/a		POST	A					
	HERB AATREX	4	L	16 oz/a		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
6	HERB CAPRENO	3.45	SL	3 oz/a		POST	A	106	209	306	409	
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a		POST	A					
	HERB AATREX	4	L	16 oz/a		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
7	HERB HALEX GT	4.37	L	3.6 pt/a		POST	A	107	204	302	407	
	HERB AATREX	4	L	16 oz/a		POST	A					
	ADJ NIS	100	SL	0.25 % v/v		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
8	HERB ARMEZON	2.8	SL	0.57 oz/a		POST	A	108	202	305	405	
	HERB OUTLOOK	6	SC	14 oz/a		POST	A					
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a		POST	A					
	HERB AATREX	4	L	16 oz/a		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					
9	HERB ARMEZON	2.8	SL	0.57 oz/a		POST	A	109	203	308	404	
	HERB STATUS	6	WG	3 oz wt/a		POST	A					
	HERB ROUNDUP POWERMAX	4.5	SL	32 oz/a		POST	A					
	HERB AATREX	4	L	16 oz/a		POST	A					
	FERT AMS		WG	8.5 lb/100 gal		POST	A					

Sort Order: Replicate 1

University of Tennessee

DIFLEXX DUO/MPOST/EFFICACY/TOLERANCE

Trial ID: MCRBAY2-17
 Protocol ID: HP17USAWMXUZW1
 Project ID:

Location: Milan, TN Trial Year: 2017
 Investigator: Dr. Larry Steckel
 Study Director:
 Sponsor Contact: JONES/BAYER

General Trial Information

Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays
Variety: PIONEER 1319 HR
Description: Herculex/LL/RR

BBCH Scale: BCOR

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT

Site Type: FIELD field

Treated Plot Area: 300 FT2
Replications: 4

Treatments: 9
Tillage Type: NOTILL no-till
Study Design: RACOB L Randomized Complete Block (RCB)

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

Application Description

	A
Application Method:	SPRAY
Application Timing:	POST
Application Placement:	BROFOL

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMX BCOR

Application Equipment

	A
Appl. Equipment:	BACKPACK
Equipment Type:	BACCAI
Operation Pressure, Unit:	33 PSI
Nozzle Type:	AIXR
Nozzle Size:	110025
Nozzle Spacing, Unit:	19 IN
Nozzles/Row:	2
Boom Length, Unit:	6.33 FT
Boom Height, Unit:	16 IN
Ground Speed, Unit:	4 MPH
Carrier:	WATER
Spray Volume, Unit:	15 GAL/AC
Mix Size, Unit:	0.528 gallons
Propellant:	COMCO2
Tank Mix (Y/N):	Y yes

University of Tennessee

DIFLEXX DUO/MPOST/EFFICACY/TOLERANCE

Trial ID: MCRBAY2-17
Protocol ID: HP17USAWMXUZW1
Project ID:

Location: Milan, TN Trial Year: 2017
Investigator: Dr. Larry Steckel
Study Director:
Sponsor Contact: JONES/BAYER

University of Tennessee

CORN HERBICIDE PROGRAMS

Trial ID: MCRBYDP17 Location: Milan, TN Trial Year: 2017
 Protocol ID: Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: BAYER/DUPONT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
1	HERB DUAL MAGNUM	7.62	EC	16	oz/a	PRE	A	101	201	309	407	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB HALEX GT	4.375	CS	3.6	pt/a	EPOST	B					
	HERB AATREX	4	L	1.5	qt/a	EPOST	B					
	ADJ NIS	100	SL	0.25	% v/v	EPOST	B					
2	HERB VERDICT	5.57	EC	10	oz/a	PRE	A	102	210	304	404	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB ARMEZON PRO	5.26	EC	18	oz/a	EPOST	B					
	HERB AATREX	4	L	1.5	qt/a	EPOST	B					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EPOST	B					
	ADJ NIS	100	SL	0.25	% v/v	EPOST	B					
3	HERB ACURON	3.44	ZC	2	qt/a	PRE	A	103	206	311	403	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB AATREX	4	L	1.5	qt/a	PRE	A					
4	HERB CORVUS	2.6	SL	5.6	oz/a	PRE	A	104	204	302	405	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB AATREX	4	L	1.5	qt/a	PRE	A					
5	HERB AATREX	4	L	1	qt/a	PRE	A	105	208	310	401	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB RESICORE	3.298	SE	1.25	qt/a	EPOST	B					
	HERB AATREX	4	L	1.5	qt/a	EPOST	B					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EPOST	B					
	ADJ NIS	100	SL	0.25	% v/v	EPOST	B					
6	HERB AATREX	4	L	1	qt/a	PRE	A	106	207	307	411	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB DIFLEXX DUO		SC	24	oz/a	EPOST	B					
	HERB AATREX	4	L	1.5	qt/a	EPOST	B					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EPOST	B					
7	HERB AATREX	4	L	1	qt/a	PRE	A	107	203	306	410	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB CAPRENO	3.45	SL	3	oz/a	EPOST	B					
	HERB AATREX	4	L	1.5	qt/a	EPOST	B					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EPOST	B					
	ADJ NIS	100	SL	0.25	% v/v	EPOST	B					
8	HERB AATREX	4	L	1	qt/a	PRE	A	108	209	301	408	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	PRE	A					
	HERB REALM Q	38.75	WG	4	oz/a	EPOST	B					
	HERB AATREX	4	L	1.5	qt/a	EPOST	B					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EPOST	B					
	ADJ NIS	100	SL	0.25	% v/v	EPOST	B					
9	HERB ABUNDIT EDGE	5.5	SL	32	oz/a	PRE	A	109	205	308	402	
	HERB LEADOFF	33.4	WG	1.5	oz/a	PRE	A					
	HERB AATREX	4	L	1	qt/a	PRE	A					
	HERB ABUNDIT EDGE	5.5	SL	32	oz/a	EPOST	B					
	HERB REALM Q	38.75	WG	4	oz/a	EPOST	B					
	HERB AATREX	4	L	1	qt/a	EPOST	B					
10	HERB ABUNDIT EDGE	5.5	SL	32	oz/a	PRE	A	110	211	305	409	
	HERB CINCH ATZ	5.5	L	1	qt/a	PRE	A					
	HERB ABUNDIT EDGE	5.5	SL	32	oz/a	EPOST	B					
	HERB REALM Q	38.75	WG	4	oz/a	EPOST	B					
	HERB AATREX	4	L	1	qt/a	EPOST	B					
11	HERB ABUNDIT EDGE	5.5	SL	32	oz/a	PRE	A	111	202	303	406	
	HERB LEADOFF	33.4	WG	1.5	oz/a	PRE	A					
	HERB AATREX	4	L	1	qt/a	PRE	A					
	HERB ABUNDIT EDGE	5.5	SL	32	oz/a	EPOST	B					
	HERB REALM Q	38.75	WG	4	oz/a	EPOST	B					
	HERB FEXAPAN	2.9	SL	11	oz/a	EPOST	B					

Sort Order: Replicate 1

University of Tennessee

CORN HERBICIDE PROGRAMS

Trial ID: MCRBYDP17 Location: Milan, TN Trial Year: 2017
 Protocol ID: Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: BAYER/DUPONT

General Trial Information

Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: PIONEER 1319 HR **BBCH Scale:** BCOR
Description: Herculex/LL/RR

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Pest Description

Pest 1 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed

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

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 11 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

Application Description

	A	B
Application Date:	4-10-17	5-11-17
Appl. Start Time:	10:06 AM	9:30 AM
Appl. Stop Time:	10:21 AM	9:45 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EPOST
Application Placement:	BROSOL	BROFOL
Applied By:	DC	DC
Air Temperature, Unit:	72 F	82 F
% Relative Humidity:	56	63
Wind Velocity, Unit:	10 MPH	4 MPH
Wind Direction:	W	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	61 F	71 F
Soil Moisture:	NORMAL	DRY
% Cloud Cover:	75	60

University of Tennessee

CORN HERBICIDE PROGRAMS

Trial ID: MCRBYDP17 Location: Milan, TN Trial Year: 2017
 Protocol ID: Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: BAYER/DUPONT

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00	V5
Height, Unit:		16 IN
Height Minimum, Maximum:		15 18

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMACH W --	AMACH W 2-4L
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Pest 2 Code, Type, Scale:	IPOLA W --	IPOLA W 2-4L
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	33 PSI	33 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	110025	110025
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 gallons	0.528 gallons
Propellant:	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes

University of Tennessee

IMPACTZ PROGRAMS FOR PERFORMANCE AND CORN SAFETY COMPARED TO STANDARDS

Trial ID: MCRAMVAC17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 17C04H060 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: Ned French/AMVAC

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	207	303	403	
2	HERB HARNESS XTRA	5.6	L	3.6	pt/a	PRE	A	102	208	301	406	
	HERB IMPACTZ	4.26	SC	8	oz/a	POST	C					
	ADJ MSO		L	1	% v/v	POST	C					
	FERT N-PAK		L	2.5	% v/v	POST	C					
3	HERB HARNESS XTRA	5.6	L	3.6	pt/a	PRE	A	103	202	306	408	
	HERB IMPACTZ	4.26	SC	8	oz/a	POST	C					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	POST	C					
	ADJ MSO		L	0.5	% v/v	POST	C					
	FERT N-PAK		L	2.5	% v/v	POST	C					
4	HERB HARNESS XTRA	5.6	L	3.6	pt/a	PRE	A	104	204	307	401	
	HERB IMPACTZ	4.26	SC	8	oz/a	POST	C					
	HERB LIBERTY 280	2.34	SL	22	oz/a	POST	C					
	FERT N-PAK		L	2.5	% v/v	POST	C					
5	HERB HARNESS XTRA	5.6	L	3.6	pt/a	PRE	A	105	205	304	402	
	HERB IMPACTZ	4.26	SC	8	oz/a	POST	C					
	HERB STATUS	56	WG	5	oz/a	POST	C					
	ADJ MSO		L	1	% v/v	POST	C					
	FERT N-PAK		L	2.5	% v/v	POST	C					
6	HERB HARNESS	7	EC	1.75	pt/a	EAPOWE	B	106	206	308	407	
	HERB IMPACTZ	4.26	SC	8	oz/a	EAPOWE	B					
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EAPOWE	B					
	ADJ NIS	100	SL	0.25	% v/v	EAPOWE	B					
	FERT N-PAK		L	2.5	% v/v	EAPOWE	B					
7	HERB ARMEZON PRO	5.35	EC	20	oz/a	EAPOWE	B	107	201	305	405	
	HERB ROUNDUP POWERMAX	5.5	SL	32	oz/a	EAPOWE	B					
	HERB ATRAZINE	4	F	8	oz/a	EAPOWE	B					
	ADJ NIS	100	SL	0.25	% v/v	EAPOWE	B					
	FERT N-PAK		L	2.5	% v/v	EAPOWE	B					
8	HERB HALEX GT	4.375	CS	3.6	pt/a	EAPOWE	B	108	203	302	404	
	HERB ATRAZINE	4	F	8	oz/a	EAPOWE	B					
	ADJ NIS	100	SL	0.25	% v/v	EAPOWE	B					
	FERT N-PAK		L	2.5	% v/v	EAPOWE	B					

Sort Order: Replicate 1

University of Tennessee

IMPACTZ PROGRAMS FOR PERFORMANCE AND CORN SAFETY COMPARED TO STANDARDS

Trial ID: MCRAMVAC17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 17C04H060 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: Ned French/AMVAC

General Trial Information

Investigator: Dr. Larry Steckel

Trial Location

Country: USA United States

Conducted Under GLP: No

Conducted Under GEP: No

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays
Variety: PIONEER 1319 HR
Description: Herculex/LL/RR

BBCH Scale: BCOR

Corn

Planting Rate, Unit: 30000 S/A

Depth, Unit: 2 IN

Row Spacing, Unit: 30 IN

Soil Temperature, Unit: 50 F

Soil Moisture: EXCELL excellent

Seed Bed: MEDIUM medium

Planting Date: 4-6-17

Planting Method: PLANTD planted

Planting Equipment: FE Field Equipment

Pest Description

Pest 1 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed

Pest 2 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: Teaweed

Pest 3 Type: W **Code:** IPOLA *Ipomoea lacunosa*
Common Name: Pitted morningglory

Pest 4 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 10 FT

Treated Plot Length: 30 FT

Treated Plot Area: 300 FT² **Treatments:** 8

Replications: 4

Site Type: FIELD field

Tillage Type: NOTILL no-till

Study Design: RACOB� Randomized Complete Block (RCB)

Untreated Arrangement: INCLUDED single control randomized in each block

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE

MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%

APR 18 - KARATE 2 OZ/A

University of Tennessee

IMPACTZ PROGRAMS FOR PERFORMANCE AND CORN SAFETY COMPARED TO STANDARDS

Trial ID: MCRAMVAC17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 17C04H060 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: Ned French/AMVAC

Application Description

	A	B	C
Application Date:	4-10-17	5-3-17	5-11-17
Appl. Start Time:	9:57 AM	9:52 AM	10:23 AM
Appl. Stop Time:	10:02 AM	9:58 AM	10:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EAPOWE	POST
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	JR	DC	DC
Air Temperature, Unit:	72 F	70 F	81 F
% Relative Humidity:	56	42	65
Wind Velocity, Unit:	10 MPH	6 MPH	6 MPH
Wind Direction:	W	SW	NW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	60 F	65 F	73 F
Soil Moisture:	NORMAL	OPT	DRY
% Cloud Cover:	75	10	50

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	00	V4	V5
Height, Unit:		6 IN	16 IN
Height Minimum, Maximum:		5 7	13 16

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMACH W --	AMACH W 2L	AMACH W 2L
Height, Unit:		2 IN	2 IN
Height Minimum, Maximum:		1 3	1 2
Pest 2 Code, Type, Scale:	SIDSP W --	SIDSP W 1L	SIDSP W --
Height, Unit:		1 IN	
Height Minimum, Maximum:		1 2	
Pest 3 Code, Type, Scale:	IPOLA W --	IPOLA W COT	IPOLA W 2LF
Height, Unit:		1 IN	1 IN
Height Minimum, Maximum:		1 2	1 2
Pest 4 Code, Type, Scale:	ANNGR W --	ANNGR W 2L	ANNGR W --
Height, Unit:		1 IN	
Height Minimum, Maximum:		1 2	

University of Tennessee

IMPACTZ PROGRAMS FOR PERFORMANCE AND CORN SAFETY COMPARED TO STANDARDS

Trial ID: MCRAMVAC17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 17C04H060 Investigator: Dr. Larry Steckel
 Project ID: Study Director:
 Sponsor Contact: Ned French/AMVAC

	Application Equipment		
	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	33 PSI	33 PSI	33 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	110025	110025	110025
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Nozzles/Row:	2	2	2
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT
Boom Height, Unit:	16 IN	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 gallons	0.528 gallons	0.528 gallons
Propellant:	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes	Y yes

University of Tennessee

ANTHEM MAXX AND SOLSTICE PROGRAMS - General University Programs for PRE/POST in Field Corn

Trial ID: MCRFMC17 Location: Southern Corn Trial Year: 2017
 Protocol ID: Anthem Maxx/Solstice Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: FMC

Trt No. Type	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	4	Notes
1	CHK	UNTREATED						101	203	305	402	
2	HERB ANTHEM MAXX	4.3	SC	3.3	oz/a	PREMCR A		102	206	303	401	
	HERB ATRAZINE	4	F	32	oz/a	PREMCR A						
	HERB SOLSTICE	4	SC	2.5	oz/a	POSPOS C						
	HERB ATRAZINE	4	F	16	oz/a	POSPOS C						
	HERB ROUNDUP POWERMAX	4.5	SL	22	oz/a	POSPOS C						
	ADJ COC	100	OL	1	% v/v	POSPOS C						
	FERT AMS	100	WG	8.5	lb/100 gal	POSPOS C						
3	HERB CRUSHER	50	WG	1.5	oz/a	PREMCR A		103	204	302	406	
	HERB GRAMOXONE INTEON	2.762	SL	32	oz/a	PREMCR A						
	ADJ COC	100	OL	1	% v/v	PREMCR A						
	HERB ANTHEM MAXX	4.3	SC	2	oz/a	EPOST B						
	HERB SOLSTICE	4	SC	2.5	oz/a	EPOST B						
	HERB ATRAZINE	4	F	32	oz/a	EPOST B						
	HERB ROUNDUP POWERMAX	4.5	SL	22	oz/a	EPOST B						
	ADJ COC	100	OL	1	% v/v	EPOST B						
	FERT AMS	100	WG	8.5	lb/100 gal	EPOST B						
4	HERB ANTHEM MAXX	4.3	SC	2	oz/a	EPOST B		104	202	301	404	
	HERB SOLSTICE	4	SC	2.5	oz/a	EPOST B						
	HERB ATRAZINE	4	F	32	oz/a	EPOST B						
	HERB ROUNDUP POWERMAX	4.5	SL	22	oz/a	EPOST B						
	ADJ COC	100	OL	1	% v/v	EPOST B						
	FERT AMS	100	WG	8.5	lb/100 gal	EPOST B						
5	HERB ANTHEM MAXX	4.3	SC	3.3	oz/a	EPOST B		105	201	306	403	
	HERB CALLISTO	4	SC	3	oz/a	EPOST B						
	HERB ATRAZINE	4	F	32	oz/a	EPOST B						
	HERB ROUNDUP POWERMAX	4.5	SL	22	oz/a	EPOST B						
	ADJ COC	100	OL	1	% v/v	EPOST B						
	FERT AMS	100	WG	8.5	lb/100 gal	EPOST B						
6	HERB HALEX GT	4.38	EC	3.6	pt/a	EPOST B		106	205	304	405	
	ADJ COC	100	OL	1	% v/v	EPOST B						
	FERT AMS	100	WG	8.5	lb/100 gal	EPOST B						

Sort Order: Replicate 1

University of Tennessee

ANTHEM MAXX AND SOLSTICE PROGRAMS - General University Programs for PRE/POST in Field Corn

Trial ID: MCRFMC17 Location: Southern Corn Trial Year: 2017
 Protocol ID: Anthem Maxx/Solstice Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: FMC

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

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: PIONEER 1319 HR **BBCH Scale:** BCOR
Description: Herculex/LL/RR
Planting Rate, Unit: 30000 P/A **Planting Date:** 4-6-17
Row Spacing, Unit: 30 IN **Planting Method:** PLANTD planted
Soil Temperature, Unit: 50 F **Planting Equipment:** FE Field Equipment
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Pest Description

Pest 1 Type: W **Code:** AMACH *Amaranthus hybridus*
Common Name: Smooth pigweed

Pest 2 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: Teaweed

Pest 3 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 7.5 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 225 FT² **Treatments:** 6 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

University of Tennessee

ANTHEM MAXX AND SOLSTICE PROGRAMS - General University Programs for PRE/POST in Field Corn

Trial ID: MCRFMC17 Location: Southern Corn Trial Year: 2017
 Protocol ID: Anthem Maxx/Solstice Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: FMC

Application Description

	A	B	C
Application Date:	4-10-17	5-3-17	5-11-17
Appl. Start Time:	9:51 AM	10:00 AM	9:47 AM
Appl. Stop Time:	9:53 AM	10:05 AM	9:52 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPOST	POSPOS
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	JR	DC	JR
Air Temperature, Unit:	73 F	70 F	82 F
% Relative Humidity:	55	42	63
Wind Velocity, Unit:	10 MPH	6 MPH	4 MPH
Wind Direction:	W	SW	SW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	60 F	64 F	72 F
Soil Moisture:	NORMAL	OPT	DRY
% Cloud Cover:	65	10	60

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	V5
Stage Majority, Percent:	00	V4	
Height, Unit:		6 IN	16 IN
Height Minimum, Maximum:		5 7	13 16

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMACH W --	AMACH W 4L	AMACH W 2L
Height, Unit:		2 IN	1.5 IN
Height Minimum, Maximum:		1 3	1 2
Pest 2 Code, Type, Scale:	SIDSP W --	SIDSP W 6L	SIDSP W COT
Height, Unit:		3 IN	1 IN
Height Minimum, Maximum:		2 4	
Pest 3 Code, Type, Scale:	ANNGR W --	ANNGR W 4+L	ANNGR W --
Height, Unit:		3 IN	
Height Minimum, Maximum:		1 4	

University of Tennessee

ANTHEM MAXX AND SOLSTICE PROGRAMS - General University Programs for PRE/POST in Field Corn

Trial ID: MCRFMC17 Location: Southern Corn Trial Year: 2017
 Protocol ID: Anthem Maxx/Solstice Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: FMC

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	28 PSI	28 PSI	28 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	11003	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom ID:	5 FT @ 15GPA	5 FT @ 15GPA	5 FT @ 15GPA
Boom Length, Unit:	5 FT	5 FT	5 FT
Boom Height, Unit:	16 IN	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 gallons	0.528 gallons	0.528 gallons
Spray pH:	0.528	0.528	0.528
Propellant:	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes	Y yes

University of Tennessee

MESOTRIONE PLUS ACETOCHLOR PREMIX ON PASS POST VS KEY COMPETITORS

Trial ID: MCR2403-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 2017-01-24-03 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: Elmore/Monsanto

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Stage	Appl Code	Rep				Notes
							1	2	3	4	
1	HERB MON 62102 HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	3.82 4.5 34	SE SL SL	40 oz/a 27 oz/a 2 % v/v	V2-V3 V2-V3 V2-V3	A A A	101	211	306	403	
2	HERB HALEX GT ADJ PREFERENCE FERT N-PAK AMS LIQUID	4.389 90 34	SL L SL	1.8 qt/a 0.25 % v/v 2 % v/v	V2-V3 V2-V3 V2-V3	A A A	102	205	302	414	
3	HERB MON 62102 HERB ROUNDUP POWERMAX HERB ATRAZINE FERT N-PAK AMS LIQUID	3.82 4.5 4 34	SE SL SC SL	40 oz/a 27 oz/a 1 qt/a 2 % v/v	V2-V3 V2-V3 V2-V3 V2-V3	A A A A	103	209	307	415	
4	HERB HALEX GT HERB ATRAZINE ADJ PREFERENCE FERT N-PAK AMS LIQUID	4.389 4 90 34	SL SC L SL	1.8 qt/a 1 qt/a 0.25 % v/v 2 % v/v	V2-V3 V2-V3 V2-V3 V2-V3	A A A A	104	201	316	407	
5	HERB MON 301144 HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	L 4.5 34	L SL SL	40 oz/a 32 oz/a 2 % v/v	V2-V3 V2-V3 V2-V3	A A A	105	212	304	406	
6	HERB MON 301144 HERB ATRAZINE HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	L 4 4.5 34	L SC SL SL	40 oz/a 1 qt/a 32 oz/a 2 % v/v	V2-V3 V2-V3 V2-V3 V2-V3	A A A A	106	216	309	401	
7	HERB RESICORE HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	3.35 4.5 34	EC SL SL	1.25 qt/a 27 oz/a 2 % v/v	V2-V3 V2-V3 V2-V3	A A A	107	208	313	408	
8	HERB CAPRENO HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID ADJ SUPERB HC	33.9 4.5 34 100	SL SL SL L	3 oz/a 32 oz/a 2 % v/v 0.5 % v/v	V2-V3 V2-V3 V2-V3 V2-V3	A A A A	108	207	303	411	
9	HERB MON 62102 HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	3.82 4.5 34	SE SL SL	40 oz/a 27 oz/a 2 % v/v	V5-V6 V5-V6 V5-V6	B B B	109	202	305	412	
10	HERB HALEX GT ADJ PREFERENCE FERT N-PAK AMS LIQUID	4.389 90 34	SL L SL	1.8 qt/a 0.25 % v/v 2 % v/v	V5-V6 V5-V6 V5-V6	B B B	110	206	308	410	
11	HERB MON 62102 HERB ROUNDUP POWERMAX HERB ATRAZINE FERT N-PAK AMS LIQUID	3.82 4.5 4 34	SE SL SC SL	40 oz/a 27 oz/a 1 qt/a 2 % v/v	V5-V6 V5-V6 V5-V6 V5-V6	B B B B	111	203	301	404	
12	HERB HALEX GT HERB ATRAZINE ADJ PREFERENCE FERT N-PAK AMS LIQUID	4.389 4 90 34	SL SC L SL	1.8 qt/a 1 qt/a 0.25 % v/v 2 % v/v	V5-V6 V5-V6 V5-V6 V5-V6	B B B B	112	213	315	413	
13	HERB MON 301144 HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	L 4.5 34	L SL SL	40 oz/a 32 oz/a 2 % v/v	V5-V6 V5-V6 V5-V6	B B B	113	214	312	416	
14	HERB MON 301144 HERB ATRAZINE HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	L 4 4.5 34	L SC SL SL	40 oz/a 32 oz/a 32 oz/a 2 % v/v	V5-V6 V5-V6 V5-V6 V5-V6	B B B B	114	204	311	409	
15	HERB RESICORE HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID	3.35 4.5 34	EC SL SL	1.25 qt/a 27 oz/a 2 % v/v	V5-V6 V5-V6 V5-V6	B B B	115	210	314	402	
16	HERB CAPRENO HERB ROUNDUP POWERMAX FERT N-PAK AMS LIQUID ADJ SUPERB HC	33.9 4.5 34 100	SL SL SL L	3 oz/a 32 oz/a 2 % v/v 0.5 % v/v	V5-V6 V5-V6 V5-V6 V5-V6	B B B B	116	215	310	405	

Sort Order: Replicate 1

University of Tennessee

MESOTRIONE PLUS ACETOCHLOR PREMIX ON PASS POST VS KEY COMPETITORS

Trial ID: MCR2403-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 2017-01-24-03 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: Elmore/Monsanto

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:

Generate weed efficacy and crop safety data for mesotrione plus acetochlor premix POST compared to commercial competitive products.

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays **Crop Description:** Corn
Variety: PIONEER 1319 HR **BBCH Scale:** BCOR
Description: Herculex/LL/RR
Planting Rate, Unit: 30000 S/A **Planting Date:** 4-6-17
Depth, Unit: 2 IN **Planting Method:** PLANTD planted
Row Spacing, Unit: 30 ZEAMD **Planting Equipment:** FE Field Equipment
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Pest Description

Pest 1 Type: W **Code:** SIDSP Sida spinosa
Common Name: Teaweed
Pest 2 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed
Pest 3 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 7.5 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 225 FT² **Treatments:** 16 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

Comment: NE - N35.93637 W088.72123
 NW - N35.93641 W088.72187
 SW - N35.93605 W088.72189
 SE - N35.93605 W088.72131

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

University of Tennessee

MESOTRIONE PLUS ACETOCHLOR PREMIX ON PASS POST VS KEY COMPETITORS

Trial ID: MCR2403-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 2017-01-24-03 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: Elmore/Monsanto

Application Description

	A	B
Application Date:	4-24-17	5-11-17
Appl. Start Time:	11:07 AM	9:55 AM
Appl. Stop Time:	11:17 AM	10:04 AM
Application Method:	SPRAY	SPRAY
Application Timing:	V2-V3	V5-V6
Application Placement:	BROFOL	BROFOL
Applied By:	DC	JR
Air Temperature, Unit:	76 F	79 F
% Relative Humidity:	46	69
Wind Velocity, Unit:	0 MPH	8 MPH
Wind Direction:		NW
Dew Presence (Y/N):	Y yes	N no
Soil Temperature, Unit:	63 F	71 F
Soil Moisture:	WET	DRY
% Cloud Cover:	25	45

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	V2	V5
Height, Unit:	6 IN	15 IN
Height Minimum, Maximum:	5 6	13 16

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SIDSP W 2LF	SIDSP W 4L
Height, Unit:	1 IN	2 IN
Height Minimum, Maximum:	1 2	1 3
Pest 2 Code, Type, Scale:	AMACH W 2L	AMACH W 6L
Height, Unit:	2 IN	3 IN
Height Minimum, Maximum:	1 2	2 4
Pest 3 Code, Type, Scale:	ANNGR W 1-2L	ANNGR W 2L
Height, Unit:	1 IN	2 IN
Height Minimum, Maximum:	1 2	1 3

University of Tennessee

MESOTRIONE PLUS ACETOCHLOR PREMIX ON PASS POST VS KEY COMPETITORS

Trial ID: MCR2403-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: 2017-01-24-03 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: Elmore/Monsanto

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	28 PSI	28 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN
Boom ID:	5 FT @ 15GPA	5 FT @ 15GPA
Boom Length, Unit:	5 FT	5 FT
Boom Height, Unit:	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 gallons	0.528 gallons
Spray pH:	0.528	0.528
Propellant:	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes

University of Tennessee

12 MONTH CROP ROTATION FROM CORN TO COTTON WITH RESICORE

Trial ID: NA17R3K001 Location: Milan, TN Trial Year: 2018
 Protocol ID: NA17R3K001 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep 1	2	3	Notes
1	HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005	SE 4 SL	1.5 1	qt/a qt/a	PRE PRE 2018	A A C	101	207	305	
2	HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005	SE 4 SL	3 1	qt/a qt/a	PRE PRE 2018	A A C	102	210	308	
3	HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005	SE 4 SL	4.5 1	qt/a qt/a	PRE PRE 2018	A A C	103	205	303	
4	HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005	SE 4 SL	6 1	qt/a qt/a	PRE PRE 2018	A A C	104	209	310	
5	HERB RESICORE HERB DURANGO DMA HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005 3.29375005	SE 4 SL SE 4 SL	1.75 1 1.5 1	qt/a qt/a qt/a qt/a	PRE PRE V2 V2 2018	A A B B C	105	208	304	
6	HERB RESICORE HERB DURANGO DMA HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005 3.29375005	SE 4 SL SE 4 SL	3.5 1 3 1	qt/a qt/a qt/a qt/a	PRE PRE V2 V2 2018	A A B B C	106	201	306	
7	HERB RESICORE HERB DURANGO DMA HERB RESICORE HERB DURANGO DMA CROP COTTON, PHY490W3FE	3.29375005 3.29375005	SE 4 SL SE 4 SL	7 1 6 1	qt/a qt/a qt/a qt/a	PRE PRE V2 V2 2018	A A B B C	107	203	302	
8	HERB DURANGO DMA HERB LEXAR EZ HERB AATREX HERB HALEX GT ADJ PREFERENCE (NIS) CROP COTTON, PHY490W3FE	4 3.65400004 4 4.375 L	SL CS SC SC L	1 3 2 3.6 0.25	qt/a qt/a qt/a pt/a % v/v	PRE PRE PRE V2 V2 2018	A A A B B C	108	206	309	
9	HERB DURANGO DMA HERB AATREX HERB PYTHON WDG HERB DURANGO DMA HERB PYTHON WDG CROP COTTON, PHY490W3FE	4 800 4 800	SL SC WG SL WG	1 2 1 1 1	qt/a qt/a oz/a qt/a oz wt/a	PRE PRE PRE V2 V2 2018	A A A B B C	109	202	301	
10	HERB DURANGO DMA HERB DURANGO DMA CROP COTTON, PHY490W3FE	4 4	SL SL	1 1	qt/a qt/a	PRE V2 2018	A B C	110	204	307	

Sort Order: Replicate 1

University of Tennessee

12 MONTH CROP ROTATION FROM CORN TO COTTON WITH RESICORE

Trial ID: NA17R3K001 Location: Milan, TN Trial Year: 2018
 Protocol ID: NA17R3K001 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

General Trial Information

Study Director: Larry Steckel
Investigator: Dr. Larry Steckel

Planned Completion Date: 7-2-18

Trial Location

Country: USA United States

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

Can the rotational interval of cotton following corn treated with Resicore be reduced to 10.5 - 12 months?

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays
Variety: PIONEER 1319 HR
Description: Herculex/LL/RR

BBCH Scale: BCOR

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Crop 2: GOSHI Gossypium hirsutum American upland cotton
Variety: PHY490W3FE **BBCH Scale:** BCOT

Pest Description

Pest 1 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Pest 2 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Pest 3 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

University of Tennessee

12 MONTH CROP ROTATION FROM CORN TO COTTON WITH RESICORE

Trial ID: NA17R3K001 Location: Milan, TN Trial Year: 2018
 Protocol ID: NA17R3K001 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

Application Description

	A	B
Application Date:	4-7-17	4-24-17
Appl. Start Time:	9:21 AM	10:28 AM
Appl. Stop Time:	9:35 AM	10:36 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	V2
Application Placement:	BROSOI	BROFOL
Applied By:	GM	DC
Air Temperature, Unit:	58 F	66 F
% Relative Humidity:	47	63
Wind Velocity, Unit:	9 MPH	3 MPH
Wind Direction:	NW	NE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	50 F	58 F
Soil Moisture:	EXCELL	WET
% Cloud Cover:	0	10

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	--	DESC
Stage Majority, Percent:		12
Height, Unit:		5 IN
Height Minimum, Maximum:		4 5
Crop 2 Code, BBCH Scale:	GOSHI BCOT	GOSHI BCOT

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ABUTH W --	ABUTH W 2LF
Height, Unit:		1 IN
Height Minimum, Maximum:		1 2
Pest 2 Code, Type, Scale:	IPOSS W --	IPOSS W COT
Height, Unit:		1 IN
Height Minimum, Maximum:		1 1.5
Pest 3 Code, Type, Scale:	ANNGR W --	ANNGR W 1LF
Height, Unit:		1 IN
Height Minimum, Maximum:		1 1.5

University of Tennessee

12 MONTH CROP ROTATION FROM CORN TO COTTON WITH RESICORE

Trial ID: NA17R3K001
 Protocol ID: NA17R3K001
 Project ID:

Location: Milan, TN Trial Year: 2018
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: DOW

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	32 PSI	32 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	16 IN	16 IN
Ground Speed, Unit:	3 MPH	3 MPH
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

University of Tennessee

KFD274 POSTEMERGENT MIXES IN CORN SMETO PLUS MESO

Trial ID: MCRUPI-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: K274-15-US-TN-17-03-CS Investigator: Dr. Larry Steckel
 Project ID: Study Director: Steckel
 Sponsor Contact: UPI

Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate	Growth Unit	Stage	Appl Code	Rep 1	Rep 2	Rep 3	Notes
1	CHK NONTREATED HERB AATREX	4	L	1	qt/a	PRE	A	101	202	304	
2	HERB AATREX HERB KFD-274 HERB INTERLINE	4 440 2.34	L L SL	1 2 22	qt/a qt/a oz/a	PRE EPOST EPOST	A B B	102	204	302	
3	HERB AATREX HERB KFD-274 HERB ROUNDUP POWERMAX	4 440 4.5	L L SL	1 2 30	qt/a qt/a oz/a	PRE EPOST EPOST	A B B	103	201	303	
4	HERB AATREX HERB HALEX GT	4 4.389	L L	1 4	qt/a pt/a	PRE EPOST	A B	104	203	301	

Sort Order: Replicate 1

University of Tennessee

KFD274 POSTEMERGENT MIXES IN CORN SMETO PLUS MESO

Trial ID: MCRUPI-17 Location: Milan, TN Trial Year: 2017
 Protocol ID: K274-15-US-TN-17-03-CS Investigator: Dr. Larry Steckel
 Project ID: Study Director: Steckel
 Sponsor Contact: UPI

General Trial Information

Study Director: Steckel
Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: PIONEER 1319 HR **BBCH Scale:** BCOR
Description: Herculex/LL/RR

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: MEDIUM medium

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Pest Description

Pest 1 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

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

Pest 3 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 4 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

Feb 20, 2017 - Roundup PowerMax 32 oz/A P Sterling Blue 12 oz/A
 Mar 20, 2017 - Gramoxone SL 48 oz/A + COC 1 %
 APR 18 - KARATE 2 OZ/A

Application Description

	A	B
Application Date:	4-7-17	5-3-17
Appl. Start Time:	9:13 AM	9:28 AM
Appl. Stop Time:	9:16 AM	9:32 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	EPOST
Application Placement:	BROSOL	BROFOL
Applied By:	JR	DC
Air Temperature, Unit:	51 F	70 F
% Relative Humidity:	52	45
Wind Velocity, Unit:	10 MPH	4 MPH
Wind Direction:	NW	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	50 F	62 F
Soil Moisture:	EXCELL	OPT
% Cloud Cover:	0	30

University of Tennessee

KFD274 POSTEMERGENT MIXES IN CORN SMETO PLUS MESO

Trial ID: MCRUPI-17
 Protocol ID: K274-15-US-TN-17-03-CS
 Project ID:

Location: Milan, TN Trial Year: 2017
 Investigator: Dr. Larry Steckel
 Study Director: Steckel
 Sponsor Contact: UPI

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	--	V4
Height, Unit:		5 IN
Height Minimum, Maximum:		5 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ABUTH W --	ABUTH W 2-4L
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Pest 2 Code, Type, Scale:	IPOLA W --	IPOLA W COT
Height, Unit:		1 IN
Height Minimum, Maximum:		1 2
Pest 3 Code, Type, Scale:	ANNGR W --	ANNGR W 2L
Height, Unit:		1 IN
Height Minimum, Maximum:		1 2

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	32 PSI	33 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11002	110025
Nozzle Spacing, Unit:	20 IN	19 IN
Nozzles/Row:		2
Boom Length, Unit:	10 FT	6.33 FT
Boom Height, Unit:	16 IN	16 IN
Ground Speed, Unit:	3 MPH	4 MPH
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

University of Tennessee

WHAT ARE THE CROP TOLERANCE, EFFICACY, AND YIELD OF DAS HERBICIDE PRODUCT WEED CONTROL PROGRAMS IN FIELD CORN AS COMPARED TO KEY COMPETITIVE HERBICIDE

Trial ID: NA17R3K999CR Location: Milan, TN Trial Year: 2017
 Protocol ID: NA17R3K999 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

Trt No.	Treatment Type Name	Form Conc	Form Type	Rate Rate	Growth Unit Stage	Appl Code	Rep 1	2	3	4	Notes	
1	HERB FULTIME NXT HERB DURANGO DMA HERB AATREX	4.04 4 4	ZC SL SC	2.9 1 1	qt/a qt/a qt/a	PRE 2-4"WEEDS 2-4"WEEDS	A C C	101	206	305	403	
2	HERB DURANGO DMA HERB AATREX HERB RESICORE HERB DURANGO DMA HERB AATREX	4 4 3.298 4 4	SL SC SE SL SC	1 1 1.5 1.5 1	qt/a qt/a qt/a pt/a qt/a	PRE PRE 2-4"WEEDS 2-4"WEEDS 2-4"WEEDS	A A C C C	102	204	301	406	
3	HERB RESICORE HERB AATREX HERB RESICORE HERB AATREX	3.298 4 3.298 4	SE SC SE SC	1.25 1.0 1.25 1	qt/a qt/a qt/a qt/a	PRE PRE 2-4"WEEDS 2-4"WEEDS	A A C C	103	201	306	405	
4	HERB RESICORE HERB DURANGO DMA HERB AATREX	3.298 4 4	SE SL SC	2.25 1.0 1.0	qt/a qt/a qt/a	V1-V2 V1-V2 V1-V2	B B B	104	203	304	401	
5	HERB DURANGO DMA HERB AATREX HERB HALEX GT HERB DURANGO DMA HERB AATREX	4 4 4.368 4 4	SL SC SC SL SC	1.0 1.0 3.6 1.0 1.0	qt/a qt/a qt/a qt/a qt/a	PRE PRE 2-4"WEEDS 2-4"WEEDS 2-4"WEEDS	A A C C C	105	205	303	404	
6	CHK NONTREATED						ABC	106	202	302	402	

Sort Order: Replicate 1

University of Tennessee

WHAT ARE THE CROP TOLERANCE, EFFICACY, AND YIELD OF DAS HERBICIDE PRODUCT WEED CONTROL PROGRAMS IN FIELD CORN AS COMPARED TO KEY COMPETITIVE HERBICIDE

Trial ID: NA17R3K999CR Location: Milan, TN Trial Year: 2017
 Protocol ID: NA17R3K999 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

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:

DAS Corn herbicide showcase treatments

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: PIONEER 1319 HR **BBCH Scale:** BCOR
Description: Herculex/LL/RR

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: ROUGH rough

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Pest Description

Pest 1 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Pest 2 Type: W **Code:** IPOSS Ipomoea sp.
Common Name: Morning glory

Pest 3 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 6 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
 -1869F

Field Prep./Maintenance:

FEB 20 - 32 OZ ROUNDUP POWERMAX + 12 OZ STERLING BLUE
 MAR 20 - GRAMOXONE SL 48 OZ/A + COC 1%
 APR 18 - KARATE 2 OZ/A

University of Tennessee

WHAT ARE THE CROP TOLERANCE, EFFICACY, AND YIELD OF DAS HERBICIDE PRODUCT WEED CONTROL PROGRAMS IN FIELD CORN AS COMPARED TO KEY COMPETITIVE HERBICIDE

Trial ID: NA17R3K999CR Location: Milan, TN Trial Year: 2017
 Protocol ID: NA17R3K999 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

Application Description

	A	B	C
Application Date:	4-7-17	4-24-17	5-11-17
Appl. Start Time:	9:12 AM	10:38 AM	10:14 AM
Appl. Stop Time:	9:17 AM	10:39 AM	10:22 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V1-V2	2-4"WEEDS
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	GM	DC	DC
Air Temperature, Unit:	51 F	66 F	81 F
% Relative Humidity:	52	63	65
Wind Velocity, Unit:	10 MPH	4 MPH	5 MPH
Wind Direction:	NW	N	NW
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	50 F	57 F	73 F
Soil Moisture:	EXCELL	WET	DRY
% Cloud Cover:	0	10	50

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	00	12 100	V5
Height, Unit:		6 IN	15 IN
Height Minimum, Maximum:		4 6	14 16

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	ABUTH W --	ABUTH W 2-3L	ABUTH W COT
Height, Unit:		2 IN	1 IN
Height Minimum, Maximum:		1 3	
Pest 2 Code, Type, Scale:	IPOSS W --	IPOSS W COT	IPOSS W --
Height, Unit:		1 IN	
Pest 3 Code, Type, Scale:	ANNGR W --	ANNGR W 2L	ANNGR W 2-4L
Height, Unit:		2 IN	2 IN
Height Minimum, Maximum:		1 2	1 3

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WHAT ARE THE CROP TOLERANCE, EFFICACY, AND YIELD OF DAS HERBICIDE PRODUCT WEED CONTROL PROGRAMS IN FIELD CORN AS COMPARED TO KEY COMPETITIVE HERBICIDE

Trial ID: NA17R3K999CR Location: Milan, TN Trial Year: 2017
 Protocol ID: NA17R3K999 Investigator: Dr. Larry Steckel
 Project ID: Study Director: Larry Steckel
 Sponsor Contact: DOW

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	33 PSI	33 PSI	33 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	110025	110025	110025
Nozzle Spacing, Unit:	19 IN	19 IN	19 IN
Nozzles/Row:	2	2	2
Boom Length, Unit:	6.33 FT	6.33 FT	6.33 FT
Boom Height, Unit:	16 IN	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 gallons	0.528 gallons	0.528 gallons
Propellant:	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes	Y yes

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CORN HERBICIDE TWO PASS PROGRAMS

Trial ID: MCRBAS17
 Protocol ID: MKD-H-2017-US-C52-S-04.1
 Project ID:

Location: Milan, TN Trial Year: 2017
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: Daniel Waldstein/Stapleton/BASF

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Rep				Notes
								1	2	3	4	
1	CHK CHECK							101	204	306	411	
2	HERB VERDICT	668	EC	10.0	fl oz/a	PRE	A	102	212	305	407	
	HERB ARMEZON PRO	642.5	EC	16.0	fl oz/a	V2	B					
	HERB AATREX	480.0	SC	16.0	fl oz/a	V2	B					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V2	B					
	ADJ PREFERENCE	100	EC	0.25	% v/v	V2	B					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V2	B					
3	HERB VERDICT	668	EC	10.0	fl oz/a	PRE	A	103	201	310	408	
	HERB STATUS	56	WG	5.0	oz wt/a	V4	C					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V4	C					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V4	C					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V4	C					
4	HERB ZIDUA SC	500	SC	3.3	fl oz/a	PRE	A	104	205	312	409	
	HERB AATREX	480.0	SC	32.0	fl oz/a	PRE	A					
	HERB ARMEZON PRO	642.5	EC	14.0	fl oz/a	V4	C					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V4	C					
	HERB AATREX	480.0	SC	16.0	fl oz/a	V4	C					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V4	C					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V4	C					
5	HERB ARMEZON PRO	642.5	EC	14.0	fl oz/a	PRE	A	105	207	304	412	
	HERB AATREX	480.0	SC	32.0	fl oz/a	PRE	A					
	HERB STATUS	56.0	WG	5.0	oz wt/a	V4	C					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V4	C					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V4	C					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V4	C					
6	HERB ARMEZON PRO	642.5	EC	14.0	fl oz/a	PRE	A	106	208	309	406	
	HERB AATREX	480.0	SC	32.0	fl oz/a	PRE	A					
	HERB ARMEZON PRO	642.5	EC	14.0	fl oz/a	V2	B					
	HERB AATREX	480.0	SC	16.0	fl oz/a	V2	B					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V2	B					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V2	B					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V2	B					
7	HERB SURESTART	499.2	SL	28.0	fl oz/a	PRE	A	107	211	302	404	
	HERB RESICORE	402.0	SL	40.0	fl oz/a	V2	B					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V2	B					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V2	B					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V2	B					
8	HERB RESICORE	402.0	SL	40.0	fl oz/a	PRE	A	108	209	301	405	
	HERB RESICORE	402.0	SL	40.0	fl oz/a	V2	B					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V2	B					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V2	B					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V2	B					
9	HERB ANTHEM ATZ	540.0	SE	32.0	fl oz/a	PRE	A	109	203	307	402	
	HERB CALLISTO	480.0	SC	3.0	fl oz/a	V2	B					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V2	B					
	HERB AATREX	480.0	SC	16.0	fl oz/a	V2	B					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V2	B					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V2	B					
10	HERB VERDICT	668.0	EC	16.0	fl oz/a	PRE	A	110	206	311	410	
	HERB STATUS	56.0	WG	5.0	oz wt/a	V4	C					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V4	C					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V4	C					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V4	C					
11	HERB VERDICT	668.0	EC	10.0	fl oz/a	PRE	A	111	202	303	401	
	HERB STATUS	56.0	WG	5.0	oz wt/a	V4	C					
	HERB ZIDUA SC	500	SC	1.64	fl oz/a	V4	C					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V4	C					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V4	C					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V4	C					
12	HERB ACURON	411.5	SL	48.0	fl oz/a	PRE	A	112	210	308	403	
	HERB HALEX GT	526.7	SE	57.6	fl oz/a	V2	B					
	HERB AATREX	480.0	SC	16.0	fl oz/a	V2	B					
	HERB ROUNDUP POWERMAX	540.0	SL	32.0	fl oz/a	V2	B					
	ADJ PREFERENCE	100.0	EC	0.25	% v/v	V2	B					
	FERT AMS	21.0	SG	8.5	lb/100 gal	V2	B					

University of Tennessee

CORN HERBICIDE TWO PASS PROGRAMS

Trial ID: MCRBAS17
Protocol ID: MKD-H-2017-US-C52-S-04.1
Project ID:

Location: Milan, TN
Investigator: Dr. Larry Steckel
Study Director: Larry Steckel
Sponsor Contact: Daniel Waldstein/Stapleton/BASF

Trial Year: 2017

Sort Order: Replicate 1

University of Tennessee

CORN HERBICIDE TWO PASS PROGRAMS

Trial ID: MCRBAS17
 Protocol ID: MKD-H-2017-US-C52-S-04.1
 Project ID:

Location: Milan, TN
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: Daniel Waldstein/Stapleton/BASF
 Trial Year: 2017

General Trial Information

Study Director: Larry Steckel
Investigator: Dr. Larry Steckel

Conducted Under GLP: No
Conducted Under GEP: No

Objectives:

1. Compare efficacy of BASF and competitors lower cost 2 pass programs with higher cost 2 pass programs.

Contacts

Study Director: Larry Steckel

Investigator: Dr. Larry Steckel

Crop Description

Crop 1: ZEAMX Zea mays
Variety: PIONEER 1319 HR
Description: Herculex/LL/RR

BBCH Scale: BCOR

Planting Date: 4-6-17
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment

Planting Rate, Unit: 30000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 50 F
Soil Moisture: EXCELL excellent
Seed Bed: ROUGH rough

Pest Description

Pest 1 Type: W **Code:** ABUTH

Pest 2 Type: W **Code:** AMACH Amaranthus hybridus
Common Name: Smooth pigweed

Pest 3 Type: W **Code:** ANNGR Annual Grasses

Site and Design

Treated Plot Width: 7.5 FT
Treated Plot Length: 10 FT

Site Type: FIELD field

Treated Plot Area: 75 FT² **Treatments:** 12
Replications: 4 **Tillage Type:** NOTILL no-till
Study Design: RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

Feb 20, 2017 - Roundup PowerMax 32 oz/A P Sterling Blue 12 oz/A
 Mar 20, 2017 - Gramoxone SL 48 oz/A + COC 1 %
 APR 18 - KARATE 2 OZ/A

University of Tennessee

CORN HERBICIDE TWO PASS PROGRAMS

Trial ID: MCRBAS17
 Protocol ID: MKD-H-2017-US-C52-S-04.1
 Project ID:

Location: Milan, TN Trial Year: 2017
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: Daniel Waldstein/Stapleton/BASF

Application Description

	A	B	C
Application Date:	4-7-17	4-24-17	5-3-17
Appl. Start Time:	9:39 AM	10:48 AM	10:13 AM
Appl. Stop Time:	9:52 AM	10:55 AM	10:19 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V4
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	GM	DC	DC
Air Temperature, Unit:	59 F	72 F	71 F
% Relative Humidity:	44	58	42
Wind Velocity, Unit:	6 MPH	2 MPH	5 MPH
Wind Direction:	N	NE	S
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	50 F	59 F	65 F
Soil Moisture:	EXCELL	WET	OPT
% Cloud Cover:	0	20	10

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	V2	
Stage Majority, Percent:	00 100		
Height, Unit:		6 IN	
Height Minimum, Maximum:		5 7	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	ABUTH W --	ABUTH W 2LF	ABUTH W 2LF
Height, Unit:		2 IN	2 IN
Height Minimum, Maximum:		1 2	1 3
Pest 2 Code, Type, Scale:	AMACH W --	AMACH W 2-4L	AMACH W 1LF
Height, Unit:		2 IN	1 IN
Height Minimum, Maximum:		1 2	1 2
Pest 3 Code, Type, Scale:	ANNGR W --	ANNGR W 2L	ANNGR W
Height, Unit:		2 IN	1 IN
Height Minimum, Maximum:		1 2	1 2

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CORN HERBICIDE TWO PASS PROGRAMS

Trial ID: MCRBAS17
 Protocol ID: MKD-H-2017-US-C52-S-04.1
 Project ID:

Location: Milan, TN Trial Year: 2017
 Investigator: Dr. Larry Steckel
 Study Director: Larry Steckel
 Sponsor Contact: Daniel Waldstein/Stapleton/BASF

Application Equipment

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Equipment Type:	BACCAI	BACCAI	BACCAI
Operation Pressure, Unit:	28 PSI	28 PSI	28 PSI
Nozzle Type:	AIXR	AIXR	AIXR
Nozzle Size:	11003	11003	11003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Boom ID:	5 FT @ 15GPA	5 FT @ 15GPA	5 FT @ 15GPA
Boom Length, Unit:	5 FT	5 FT	5 FT
Boom Height, Unit:	16 IN	16 IN	16 IN
Ground Speed, Unit:	4 MPH	4 MPH	4 MPH
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	0.528 gallons	0.528 gallons	0.528 gallons
Spray pH:	0.528	0.528	0.528
Propellant:	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N):	Y yes	Y yes	Y yes