The Ohio State University

Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

General Trial Information
Study Director: Rana, Neha
Investigator: Dr. Mark M. Loux

Trial Status: E established
ARM Trial Created On: Mar-26-2020
Initiation Date: May-13-2020
Completion Date: Jul-17-2020

Trial Location
Address (Location): 7721 South Charleston Pike
City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.85632 N
Longitude of LL Corner °: -83.67022 W
Altitude of LL Corner: 1047.00 FT

Conducted Under GLP: No
Conducted Under GEP: Yes

Keywords: EFFICACY PHYTOTOX

Objectives:
The primary objective is to evaluate POST XtendFlex soybeans safety and weed control with XtendiMax and Roundup PowerMAX plus tank-mix products.

2. Evaluate performance of MON 301286 with and without the adjuvants on weed control and crop safety.

3. Does addition of Liberty to the tank help the system or antagonizes the weed control.

Rate crop injury 3, 7, 14 DAT and weed efficacy for individual species present at 14 and 21 DAT.

MON 301286 is a premix of MEA salt of dicamba and MEA salt of glyphosate. The reason for the update in MON # from MON 119151 to MON 301286 is due to a change in the manufacturing process that required to generate a new MON#.

Treatments 1 through 11 were conducted in 2019 also, this is year 2 data on safety and weed control of XtendiMax + Roundup PowerMAX with various tank-mix combinations and MON 301286 with different adjuvants and tank-mixes.

Contacts
Study Director: Rana, Neha

Investigator: Dr. Mark M. Loux

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Crop Description

Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: May-14-2020 **Stage Scale:** BBCH
Variety: AG30XF0
Attributes: Glyphosate, Glufosinate, and Dicamba
Seed Lot No: WN9SLG11
% Germination: 90
Seed Size: 2600 S/LB
Seed Treatment Products: Fluxapyroxad Imidacloprid Metalaxyl Pyraclostrobin
Planting Date: May-13-2020 **Planting Rate:** 160000 S/A
Depth: 2 IN
Rows per Plot: 8
Row Spacing: 15 IN
Planting Method: PLANTD planted
Planting Equipment: FE field equipment
Seed Bed: MEDIUM medium
Soil Temperature: 62 F **Soil Moisture:** NORMAL normal, adequate
Emergence Date: May-25-2020

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: ragweed, giant **Entry Date:** Jun-25-2020

Pest 2 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: barnyardgrass **Entry Date:** Jun-25-2020

Pest 3 Type: W **Code:** SIDSP Sida spinosa
Common Name: sida, prickly **Entry Date:** Jun-25-2020

Pest 4 Type: W **Code:** SETFA Setaria faberi
Common Name: foxtail, giant **Entry Date:** Jun-25-2020

Pest 5 Type: W **Code:** IPOHE Ipomoea hederacea
Common Name: morningglory, ivyleaf **Entry Date:** Jun-25-2020

Pest 6 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf **Entry Date:** Jun-25-2020

Pest 7 Type: W **Code:** CHEAL Chenopodium album
Common Name: lambsquarters, common **Entry Date:** Jun-25-2020

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT2 **Treatments:** 16 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	CORN	2019

Field Prep./Maintenance:

July 17, 2020 crop destruct with a rotary mower.

Soil Description

Description Name: Big E
% Sand: 44 **% OM:** 3.1 **Texture:** L loam
% Silt: 45 **pH:** 6.6 **Soil Name:** Kokomo
% Clay: 11 **CEC:** 15.2 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date	May-13-2020	Jun-24-2020
Appl. Start Time	4:00 PM	8:30 AM
Appl. Stop Time	4:30 PM	9:00 AM
Interval to Prev. Appl.		42 DAYS
Application Method	SPRAY	SPRAY
Application Timing	PREPRE	EAPOCR
Application Placement	BROSOI	BROFOL
Applied By	Ackley and Essman	Dobbels
Appl. Entry Date	May-14-2020	Jun-25-2020
Air Temperature Start, Stop	64 64 F	66 66 F
% Relative Humidity Start, Stop	32 32	66 66
Wind Velocity+Dir. Start	10 MPH SE	8 MPH W
Wind Velocity+Dir. Stop	10 MPH SE	8 MPH W
Wind Velocity+Dir. Max	11 MPH SE	8 MPH W
Wet Leaves (Y/N)	N no	Y yes
Soil Temperature	62 F	69 F
Soil Moisture	NORMAL	SLIWET
Soil Surface Condition	MEDIUM	MEDIUM
% Cloud Cover	25	30
Next Moisture Occurred On	May-14-2020	Jun-25-2020
Time to Next Moisture	14 HR	1 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	2.52 IN	0.09 IN

Protocol Application Directions:
Experimental Field Trials must be clearly and continuously marked to avoid unauthorized entry or accidental harvest. Any harvestable portion of the crop treated with non-registered compounds or registered products experimentally tested off-label must be destroyed. Crop destruction date and method shall be reported to Bayer.

Objective:

The primary objective is to evaluate POST XtendFlex soybeans safety and weed control with XtendiMax and Roundup PowerMAX plus tank-mix products and with dicamba and glyphosate PREMIX formulations.

Start clean with tillage or a blanket burndown herbicide application across entire study prior to planting. Use burndown herbicides that are effective and DO NOT have residual activity.

Apply a blanket PRE herbicide application (A timing) of Warrant (1.125 lb ai/A) + Metribuzin (0.25 lb ai/A).

Uniform weed pressure of grass and/or broadleaf weeds is ideal, with waterhemp or Palmer amaranth preferred for the POST (B timing).

Please make "B" applications with a TTI nozzle set to deliver coarse droplets for ALL treatments in the study.

Agronomics and Trial Setup:

XtendFlex Soybean Stewarded and 10 Acre Soybean trial. Plant at your local population seeding rate. Please note soybean emergence date.

APPLICATION:

A=PREPRE = apply pre emergence after planting before weeds or crop emerges
B=EAPOCR= early POST to crop. TARGET V3-V4 soybean or no more than 45 days after planting, whichever comes first

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TREATMENTS:

Please evaluate all treatments in the protocol. All treatments (1-15) are core. **Please DO NOT alter rates or change treatment order of the core set of treatments (1-15)**.

CROP DESTRUCT REQUIREMENTS:

This is a XtendFlex Stewarded and 10 acre regulated trial. Crop destruct after final rating. It is a stewarded and 10 Acre Trial and grain CANNOT enter commerce. Please follow ALL requirements.

Trial must be conducted in accordance with “10 Acre Rule” regulations; USC-OPS-007 NONREGISTERED CROP PROTECTION PRODUCT (CPP) FIELD TRIAL REQUIREMENTS FOR THE U.S.

ASSESSMENT:

Photos would be appreciated throughout the season

Crop tolerance - PE12AD1- percent crop injury on 0-100% scale of all inclusive crop injury vs. the baseline in the untreated control plots. This needs to be just a general crop injury evaluation. Do not separate into various types (chlorosis, necrosis, etc).

Target evaluations (CI):
4 days after "B" (B1- range 3-5 days)
7 days after "B" (B2- range 6-10 days)
14 days after "B" (B3- range 11-18 days)
Note if injury persists

Weed Control - EE22AD3 - percent weed control on 0-100% scale. Please rate % weed control for each individual species. Record percent ground cover of each weed in UTC.

Target evaluations (WC):

14 days after "B" (B3- range 11-18 days)
21 days after "B" (B4- range 19-25 days)

Reporting Dates:
Final reports due: August 1st, 2020

Sample Orders:
All herbicides for this protocol should be ordered by the crop protection TDR for internal and external locations that have been assigned in SCOUT.

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY
Days after Emergence	-12	30
Stage Majority, Percent		14 100
Height Average		8 IN
Height Minimum, Maximum		6 10

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	AMBTR W	AMBTR W
Stage Majority, Percent		16 80
Stage Minimum, Percent		14
Stage Maximum, Percent		19
Height Average		9 IN
Height Minimum, Maximum		2 18
Density Average		5 PLA/m2
Density Min, Max		2 12
Pest 2 Code, Type, Scale	ECHCG W	ECHCG W
Stage Majority, Percent		16 80
Stage Minimum, Percent		14 10
Stage Maximum, Percent		19 10
Height Average		4 IN
Height Minimum, Maximum		2 9
Density Average		2 PLA/m2
Density Min, Max		2 8
Pest 3 Code, Type, Scale	SIDSP W	SIDSP W
Stage Majority, Percent		16 80
Stage Minimum, Percent		14 10
Stage Maximum, Percent		18 10
Height Average		3 IN
Height Minimum, Maximum		2 6
Density Average		3 PLA/m2
Density Min, Max		0.33 8
Pest 4 Code, Type, Scale	SETFA W	SETFA W
Stage Majority, Percent		16 80
Stage Minimum, Percent		14 10
Stage Maximum, Percent		19 10
Height Average		4 IN
Height Minimum, Maximum		3 8
Density Average		108 PLA/m2
Density Min, Max		48 360
Pest 5 Code, Type, Scale	IPOHE W	IPOHE W
Stage Majority, Percent		15 80
Stage Minimum, Percent		12 10
Stage Maximum, Percent		19 10
Height Average		2 IN
Height Minimum, Maximum		1 4
Density Average		2 PLA/m2
Density Min, Max		0 4
Pest 6 Code, Type, Scale	ABUTH W	ABUTH W
Stage Majority, Percent		14 80
Stage Minimum, Percent		12 10
Stage Maximum, Percent		16 10
Height Average		3 IN
Height Minimum, Maximum		1 4
Density Average		0 PLA/m2
Density Min, Max		0 0
Pest 7 Code, Type, Scale	CHEAL W	CHEAL W
Stage Majority, Percent		18 70
Stage Minimum, Percent		14
Stage Maximum, Percent		19
Height Average		4 IN
Height Minimum, Maximum		2 6
Density Average		0 PLA/m2
Density Min, Max		0 0

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Application Equipment

	A	B
Appl. Equipment	Tractor	10' TTI
Equipment Type	SPRAYE	BACCAI
Operation Pressure	30 PSI	44 PSI
Nozzle Type	TTI	TTI
Nozzle Size	11002	110015
Nozzle Spacing	20 IN	18 IN
Boom Length	10 FT	10 FT
Boom Height	20 FT	20 IN
Ground Speed	3.8 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	10 GAL	2 L
Propellant	PUMROL	COMCO2
Tank Mix (Y/N)	Y yes	Y yes

Context	Date	By	Notes
STATUS	Mar-26-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-14-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.
STATUS	Jul-17-2020	Dobbels	Crop Destruction was completed with rotary mower

SE Definitions

	1.	2.	3.	4.	5.
Rating Timing	B1	B2	B3	B3	B4
SE Name	PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3
SE Description	Estimation % phytotoxicity (PHYGEN) (symptoms describe in co	Estimation % phytotoxicity (PHYGEN) (symptoms describe in co	Estimation % phytotoxicity (PHYGEN) (symptoms describe in co	1 weed, % efficacy, in untreated % coverage	1 weed, % efficacy, in untreated % coverage

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Pest Type			W Weed	W Weed
							Pest Code			SETFA	ECHCG
							Pest Scientific Name			Setaria faberi	Echinochloa cr>
							Pest Name			foxtail, giant	barnyardgrass
							Crop Type, Code	C GLXMA	C GLXMA	C GLXMA	
							BBCH Scale	BSOY	BSOY	BSOY	
							Crop Scientific Name	Glycine max	Glycine max	Glycine max	
							Crop Name	Soybean	Soybean	Soybean	
							Rating Date	Jun-28-2020	Jul-1-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
							Part Rated	CANOPY C	CANOPY C	CANOPY C	CANOPY P	CANOPY P
							Rating Type	PHYNEC	PHYNEC	PHYNEC	CONTRO	CONTRO
							Rating Unit	%	%	%	%	%
							Number of Subsamples	1	1	1	1	1
							Assessed By	Dobbels				
							Data Entry Date	Jun-30-2020	Jul-1-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
							Rating Timing	4 DAT				
							Days After First/Last Applic.	46 4	49 7	56 14	56 14	56 14
							Trt-Eval Interval	4 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B
							Plant-Eval Interval	46 DP-1	49 DP-1	56 DP-1	56 DP-1	56 DP-1
							Days After Emergence	34 DE-1	37 DE-1	44 DE-1	44 DE-1	44 DE-1
							Number of Decimals	0	0	0	0	0
1	WARRANT	1268	g ai/ha	48	oz/a	A		0 h	0 e	0 e	0 c	0 e
1	MAULER	280.5	g ai/ha	8	oz/a	A						
1	UNTREATED					B						
2	WARRANT	1268	g ai/ha	48	oz/a	A		2 gh	1 de	0 e	100 b	95 cd
2	MAULER	280.5	g ai/ha	8	oz/a	A						
2	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B						
2	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B						
2	Intact	0.5	% v/v	0.5	% v/v	B						

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
	Pest Type									W Weed	W Weed
	Pest Code									SETFA	ECHCG
	Pest Scientific Name									Setaria faberi	Echinochloa cr>
	Pest Name									foxtail, giant	barnyardgrass
	Crop Type, Code						C GLXMA	C GLXMA	C GLXMA		
	BBCH Scale						BSOY	BSOY	BSOY		
	Crop Scientific Name						Glycine max	Glycine max	Glycine max		
	Crop Name						Soybean	Soybean	Soybean		
	Rating Date						Jun-28-2020	Jul-1-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
	Part Rated						CANOPY C	CANOPY C	CANOPY C	CANOPY P	CANOPY P
	Rating Type						PHYNEC	PHYNEC	PHYNEC	CONTRO	CONTRO
	Rating Unit						%	%	%	%	%
	Number of Subsamples						1	1	1	1	1
	Assessed By						Dobbels				
	Data Entry Date						Jun-30-2020	Jul-1-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
	Rating Timing						4 DAT				
	Days After First/Last Applic.						46 4	49 7	56 14	56 14	56 14
	Trt-Eval Interval						4 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B
	Plant-Eval Interval						46 DP-1	49 DP-1	56 DP-1	56 DP-1	56 DP-1
	Days After Emergence						34 DE-1	37 DE-1	44 DE-1	44 DE-1	44 DE-1
	Number of Decimals						0	0	0	0	0
3	WARRANT	1268	g ai/ha	48	oz/a	A	3 efg	1 de	0 e	100 a	100 a
3	MAULER	280.5	g ai/ha	8	oz/a	A					
3	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
3	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
3	MON 51817	1	% v/v	1	% v/v	B					
3	Intact	0.5	% v/v	0.5	% v/v	B					
4	WARRANT	1268	g ai/ha	48	oz/a	A	5 bc	5 ab	3 ab	100 a	100 a
4	MAULER	280.5	g ai/ha	8	oz/a	A					
4	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
4	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
4	Intact	0.5	% v/v	0.5	% v/v	B					
5	WARRANT	1268	g ai/ha	48	oz/a	A	3 def	2 cd	1 cde	100 a	96 bcd
5	MAULER	280.5	g ai/ha	8	oz/a	A					
5	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
5	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
5	MON 51817	1	% v/v	1	% v/v	B					
5	Intact	0.5	% v/v	0.5	% v/v	B					
6	WARRANT	1268	g ai/ha	48	oz/a	A	7 a	6 a	3 a	100 a	98 abc
6	MAULER	280.5	g ai/ha	8	oz/a	A					
6	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
6	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
6	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
6	Intact	0.5	% v/v	0.5	% v/v	B					
7	WARRANT	1268	g ai/ha	48	oz/a	A	4 c-f	2 cd	1 de	100 a	93 d
7	MAULER	280.5	g ai/ha	8	oz/a	A					
7	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
7	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
7	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
7	MON 51817	1	% v/v	1	% v/v	B					
7	Intact	0.5	% v/v	0.5	% v/v	B					
8	WARRANT	1268	g ai/ha	48	oz/a	A	4 c-f	2 cd	0 de	100 a	100 a
8	MAULER	280.5	g ai/ha	8	oz/a	A					
8	MON 301286	1680	g ai/ha	48	oz/a	B					
8	Intact	0.5	% v/v	0.5	% v/v	B					
9	WARRANT	1268	g ai/ha	48	oz/a	A	5 cd	4 bc	1 b-e	100 b	98 abc
9	MAULER	280.5	g ai/ha	8	oz/a	A					
9	MON 301286	1680	g ai/ha	48	oz/a	B					
9	MON 51817	1	% v/v	1	% v/v	B					
9	Intact	0.5	% v/v	0.5	% v/v	B					

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Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
	Pest Type									W Weed	W Weed
	Pest Code									SETFA	ECHCG
	Pest Scientific Name									Setaria faberi	Echinochloa crus-galli
	Pest Name									foxtail, giant	barnyardgrass
	Crop Type, Code						C GLXMA	C GLXMA	C GLXMA		
	BBCH Scale						BSOY	BSOY	BSOY		
	Crop Scientific Name						Glycine max	Glycine max	Glycine max		
	Crop Name						Soybean	Soybean	Soybean		
	Rating Date						Jun-28-2020	Jul-1-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
	Part Rated						CANOPY	CANOPY	CANOPY	CANOPY	CANOPY
	Rating Type						PHYNEC	PHYNEC	PHYNEC	CONTRO	CONTRO
	Rating Unit						%	%	%	%	%
	Number of Subsamples						1	1	1	1	1
	Assessed By						Dobbels				
	Data Entry Date						Jun-30-2020	Jul-1-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
	Rating Timing						4 DAT				
	Days After First/Last Applic.						46 4	49 7	56 14	56 14	56 14
	Trt-Eval Interval						4 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B
	Plant-Eval Interval						46 DP-1	49 DP-1	56 DP-1	56 DP-1	56 DP-1
	Days After Emergence						34 DE-1	37 DE-1	44 DE-1	44 DE-1	44 DE-1
	Number of Decimals						0	0	0	0	0
10	WARRANT	1268	g ai/ha	48	oz/a	A	7 ab	6 a	2 abc	100 a	99 ab
10	MAULER	280.5	g ai/ha	8	oz/a	A					
10	MON 301286	1680	g ai/ha	48	oz/a	B					
10	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
10	Intact	0.5	% v/v	0.5	% v/v	B					
11	WARRANT	1268	g ai/ha	48	oz/a	A	3 def	2 cd	1 de	100 a	98 abc
11	MAULER	280.5	g ai/ha	8	oz/a	A					
11	MON 301286	1680	g ai/ha	48	oz/a	B					
11	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
11	MON 51817	1	% v/v	1	% v/v	B					
11	Intact	0.5	% v/v	0.5	% v/v	B					
12	WARRANT	1268	g ai/ha	48	oz/a	A	4 cde	4 bc	1 de	100 a	100 a
12	MAULER	280.5	g ai/ha	8	oz/a	A					
12	MON 301286	1680	g ai/ha	48	oz/a	B					
12	REIGN	0.5	% v/v	0.5	% v/v	B					
13	WARRANT	1268	g ai/ha	48	oz/a	A	2 fg	1 de	0 e	100 a	100 a
13	MAULER	280.5	g ai/ha	8	oz/a	A					
13	MON 301286	1680	g ai/ha	48	oz/a	B					
13	REIGN	0.5	% v/v	0.5	% v/v	B					
13	MON 51817	1	% v/v	1	% v/v	B					
14	WARRANT	1268	g ai/ha	48	oz/a	A	3 def	4 bc	1 de	100 a	99 ab
14	MAULER	280.5	g ai/ha	8	oz/a	A					
14	MON 301286	1680	g ai/ha	48	oz/a	B					
14	MON 301471	1.5	% v/v	1.5	% v/v	B					
15	WARRANT	1268	g ai/ha	48	oz/a	A	3 efg	3 c	1 cde	100 a	100 a
15	MAULER	280.5	g ai/ha	8	oz/a	A					
15	MON 301286	1680	g ai/ha	48	oz/a	B					
15	MON 301916	1.25	% v/v	1.25	% v/v	B					

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							1*	2*	3*	4*	5*
Pest Type										W Weed	W Weed
Pest Code										SETFA	ECHCG
Pest Scientific Name										Setaria faberi	Echinochloa cr>
Pest Name										foxtail, giant	barnyardgrass
Crop Type, Code							C GLXMA	C GLXMA	C GLXMA		
BBCH Scale							BSOY	BSOY	BSOY		
Crop Scientific Name							Glycine max	Glycine max	Glycine max		
Crop Name							Soybean	Soybean	Soybean		
Rating Date							Jun-28-2020	Jul-1-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Part Rated							CANOPY C	CANOPY C	CANOPY C	CANOPY P	CANOPY P
Rating Type							PHYNEC	PHYNEC	PHYNEC	CONTRO	CONTRO
Rating Unit							%	%	%	%	%
Number of Subsamples							1	1	1	1	1
Assessed By							Dobbels				
Data Entry Date							Jun-30-2020	Jul-1-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Rating Timing							4 DAT				
Days After First/Last Applic.							46 4	49 7	56 14	56 14	56 14
Trt-Eval Interval							4 DA-B	7 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval							46 DP-1	49 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence							34 DE-1	37 DE-1	44 DE-1	44 DE-1	44 DE-1
Number of Decimals							0	0	0	0	0
Trt No.	**Treatment Name**	**Rate**	**Rate Unit**	**Other Rate**	**Other Rate Unit**	**Appl Code**	**1***	**2***	**3***	**4***	**5***
16	MON 301286	1680	g ai/ha	48	oz/a	B	3 def	3 bc	2 a-d	100 a	99 ab
16	CLASS ACT RIDION	1	% v/v	1	% v/v	B					
16	Intact	0.5	% v/v	0.5	% v/v	B					
LSD P=.05							1.6	1.7	1.4	0.4	3.4
Standard Deviation							1.2	1.2	1.0	0.3	2.4
CV							33.46	42.65	102.87	0.3	2.59
Grand Mean							3.5	2.8	1.0	93.7	92.1
Levene's F							1.443	0.596	0.97	1.867	1.83
Levene's Prob(F)							0.166	0.864	0.50	0.052	0.058
Rank X2							.	.	.	.	.
P(Rank X2)							.	.	.	.	.
Skewness							0.3078	0.6239*	0.6365*	-3.7012*	-3.62*
Kurtosis							-0.6963	-0.2569	-1.3673*	12.0779*	11.6801*
Replicate F							1.166	3.243	1.112	1.552	0.223
Replicate Prob(F)							0.3330	0.0306	0.3542	0.2142	0.8800
Treatment F							9.044	8.431	3.218	30994.555	427.562
Treatment Prob(F)							0.0001	0.0001	0.0012	0.0001	0.0001

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
	Pest Type						W Weed	W Weed		W Weed	W Weed
	Pest Code						AMBTR	SIDSP		SETFA	ECHCG
	Pest Scientific Name						Ambrosia trifi>	Sida spinosa		Setaria faberi	Echinochloa cr>
	Pest Name						ragweed, giant	sida, prickly		foxtail, giant	barnyardgrass
	Crop Type, Code								C GLXMA		
	BBCH Scale								BSOY		
	Crop Scientific Name								Glycine max		
	Crop Name								Soybean		
	Rating Date						Jul-8-2020	Jul-8-2020	Jul-14-2020	Jul-14-2020	Jul-14-2020
	Part Rated						CANOPY P	CANOPY P	CANOPY C	CANOPY P	CANOPY P
	Rating Type						CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
	Rating Unit						%	%	%	%	%
	Number of Subsamples						1	1	1	1	1
	Assessed By										
	Data Entry Date						Jul-9-2020	Jul-9-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
	Rating Timing										
	Days After First/Last Applic.						56 14	56 14	62 20	62 20	62 20
	Trt-Eval Interval						14 DA-B	14 DA-B	20 DA-B	20 DA-B	20 DA-B
	Plant-Eval Interval						56 DP-1	56 DP-1	62 DP-1	62 DP-1	62 DP-1
	Days After Emergence						44 DE-1	44 DE-1	50 DE-1	50 DE-1	50 DE-1
	Number of Decimals						0	0	0	0	0
1	WARRANT	1268	g ai/ha	48	oz/a	A	0 b	0 d	0 -	0 c	0 c
1	MAULER	280.5	g ai/ha	8	oz/a	A					
1	UNTREATED					B					
2	WARRANT	1268	g ai/ha	48	oz/a	A	93 a	85 c	0 -	100 a	86 ab
2	MAULER	280.5	g ai/ha	8	oz/a	A					
2	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
2	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
2	Intact	0.5	% v/v	0.5	% v/v	B					

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Pest Type						W Weed	W Weed		W Weed	W Weed
Pest Code						AMBTR	SIDSP		SETFA	ECHCG
Pest Scientific Name						Ambrosia trifi>	Sida spinosa		Setaria faberi	Echinochloa cr>
Pest Name						ragweed, giant	sida, prickly		foxtail, giant	barnyardgrass
Crop Type, Code								C GLXMA		
BBCH Scale								BSOY		
Crop Scientific Name								Glycine max		
Crop Name								Soybean		
Rating Date						Jul-8-2020	Jul-8-2020	Jul-14-2020	Jul-14-2020	Jul-14-2020
Part Rated						CANOPY P	CANOPY P	CANOPY C	CANOPY P	CANOPY P
Rating Type						CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit						%	%	%	%	%
Number of Subsamples						1	1	1	1	1
Assessed By										
Data Entry Date						Jul-9-2020	Jul-9-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Rating Timing										
Days After First/Last Applic.						56 14	56 14	62 20	62 20	62 20
Trt-Eval Interval						14 DA-B	14 DA-B	20 DA-B	20 DA-B	20 DA-B
Plant-Eval Interval						56 DP-1	56 DP-1	62 DP-1	62 DP-1	62 DP-1
Days After Emergence						44 DE-1	44 DE-1	50 DE-1	50 DE-1	50 DE-1
Number of Decimals						0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
3	WARRANT	1268	g ai/ha	48	oz/a	A	94 a	96 ab	0 -	99 a	91 a
3	MAULER	280.5	g ai/ha	8	oz/a	A					
3	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
3	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
3	MON 51817	1	% v/v	1	% v/v	B					
3	Intact	0.5	% v/v	0.5	% v/v	B					
4	WARRANT	1268	g ai/ha	48	oz/a	A	90 a	100 a	0 -	100 a	96 a
4	MAULER	280.5	g ai/ha	8	oz/a	A					
4	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
4	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
4	Intact	0.5	% v/v	0.5	% v/v	B					
5	WARRANT	1268	g ai/ha	48	oz/a	A	92 a	91 abc	0 -	96 b	96 a
5	MAULER	280.5	g ai/ha	8	oz/a	A					
5	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
5	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
5	MON 51817	1	% v/v	1	% v/v	B					
5	Intact	0.5	% v/v	0.5	% v/v	B					
6	WARRANT	1268	g ai/ha	48	oz/a	A	89 a	100 a	0 -	100 a	99 a
6	MAULER	280.5	g ai/ha	8	oz/a	A					
6	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
6	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
6	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
6	Intact	0.5	% v/v	0.5	% v/v	B					
7	WARRANT	1268	g ai/ha	48	oz/a	A	93 a	98 ab	0 -	100 a	93 a
7	MAULER	280.5	g ai/ha	8	oz/a	A					
7	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B					
7	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B					
7	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
7	MON 51817	1	% v/v	1	% v/v	B					
7	Intact	0.5	% v/v	0.5	% v/v	B					
8	WARRANT	1268	g ai/ha	48	oz/a	A	95 a	99 ab	0 -	100 a	97 a
8	MAULER	280.5	g ai/ha	8	oz/a	A					
8	MON 301286	1680	g ai/ha	48	oz/a	B					
8	Intact	0.5	% v/v	0.5	% v/v	B					
9	WARRANT	1268	g ai/ha	48	oz/a	A	86 a	100 a	0 -	100 a	99 a
9	MAULER	280.5	g ai/ha	8	oz/a	A					
9	MON 301286	1680	g ai/ha	48	oz/a	B					
9	MON 51817	1	% v/v	1	% v/v	B					
9	Intact	0.5	% v/v	0.5	% v/v	B					

The Ohio State University

Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
	Pest Type						W Weed	W Weed		W Weed	W Weed
	Pest Code						AMBTR	SIDSP		SETFA	ECHCG
	Pest Scientific Name						Ambrosia trifi>	Sida spinosa		Setaria faberi	Echinochloa cr>
	Pest Name						ragweed, giant	sida, prickly		foxtail, giant	barnyardgrass
	Crop Type, Code								C GLXMA		
	BBCH Scale								BSOY		
	Crop Scientific Name								Glycine max		
	Crop Name								Soybean		
	Rating Date						Jul-8-2020	Jul-8-2020	Jul-14-2020	Jul-14-2020	Jul-14-2020
	Part Rated						CANOPY P	CANOPY P	CANOPY C	CANOPY P	CANOPY P
	Rating Type						CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
	Rating Unit						%	%	%	%	%
	Number of Subsamples						1	1	1	1	1
	Assessed By										
	Data Entry Date						Jul-9-2020	Jul-9-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
	Rating Timing										
	Days After First/Last Applic.						56 14	56 14	62 20	62 20	62 20
	Trt-Eval Interval						14 DA-B	14 DA-B	20 DA-B	20 DA-B	20 DA-B
	Plant-Eval Interval						56 DP-1	56 DP-1	62 DP-1	62 DP-1	62 DP-1
	Days After Emergence						44 DE-1	44 DE-1	50 DE-1	50 DE-1	50 DE-1
	Number of Decimals						0	0	0	0	0
10	WARRANT	1268	g ai/ha	48	oz/a	A	86 a	93 abc	0 -	100 a	98 a
10	MAULER	280.5	g ai/ha	8	oz/a	A					
10	MON 301286	1680	g ai/ha	48	oz/a	B					
10	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
10	Intact	0.5	% v/v	0.5	% v/v	B					
11	WARRANT	1268	g ai/ha	48	oz/a	A	93 a	100 a	0 -	100 a	96 a
11	MAULER	280.5	g ai/ha	8	oz/a	A					
11	MON 301286	1680	g ai/ha	48	oz/a	B					
11	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B					
11	MON 51817	1	% v/v	1	% v/v	B					
11	Intact	0.5	% v/v	0.5	% v/v	B					
12	WARRANT	1268	g ai/ha	48	oz/a	A	95 a	96 ab	0 -	100 a	100 a
12	MAULER	280.5	g ai/ha	8	oz/a	A					
12	MON 301286	1680	g ai/ha	48	oz/a	B					
12	REIGN	0.5	% v/v	0.5	% v/v	B					
13	WARRANT	1268	g ai/ha	48	oz/a	A	91 a	90 bc	0 -	100 a	71 b
13	MAULER	280.5	g ai/ha	8	oz/a	A					
13	MON 301286	1680	g ai/ha	48	oz/a	B					
13	REIGN	0.5	% v/v	0.5	% v/v	B					
13	MON 51817	1	% v/v	1	% v/v	B					
14	WARRANT	1268	g ai/ha	48	oz/a	A	91 a	93 abc	0 -	100 a	98 a
14	MAULER	280.5	g ai/ha	8	oz/a	A					
14	MON 301286	1680	g ai/ha	48	oz/a	B					
14	MON 301471	1.5	% v/v	1.5	% v/v	B					
15	WARRANT	1268	g ai/ha	48	oz/a	A	94 a	98 ab	0 -	100 a	100 a
15	MAULER	280.5	g ai/ha	8	oz/a	A					
15	MON 301286	1680	g ai/ha	48	oz/a	B					
15	MON 301916	1.25	% v/v	1.25	% v/v	B					

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6*	7*	8*	9*	10*
	Pest Type						W Weed	W Weed		W Weed	W Weed
	Pest Code						AMBTR	SIDSP		SETFA	ECHCG
	Pest Scientific Name						Ambrosia trifi>	Sida spinosa		Setaria faberi	Echinochloa cr>
	Pest Name						ragweed, giant	sida, prickly		foxtail, giant	barnyardgrass
	Crop Type, Code								C GLXMA		
	BBCH Scale								BSOY		
	Crop Scientific Name								Glycine max		
	Crop Name								Soybean		
	Rating Date						Jul-8-2020	Jul-8-2020	Jul-14-2020	Jul-14-2020	Jul-14-2020
	Part Rated						CANOPY P	CANOPY P	CANOPY C	CANOPY P	CANOPY P
	Rating Type						CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
	Rating Unit						%	%	%	%	%
	Number of Subsamples						1	1	1	1	1
	Assessed By										
	Data Entry Date						Jul-9-2020	Jul-9-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
	Rating Timing										
	Days After First/Last Applic.						56 14	56 14	62 20	62 20	62 20
	Trt-Eval Interval						14 DA-B	14 DA-B	20 DA-B	20 DA-B	20 DA-B
	Plant-Eval Interval						56 DP-1	56 DP-1	62 DP-1	62 DP-1	62 DP-1
	Days After Emergence						44 DE-1	44 DE-1	50 DE-1	50 DE-1	50 DE-1
	Number of Decimals						0	0	0	0	0
16	MON 301286	1680	g ai/ha	48	oz/a	B	95 a	100 a	0 -	100 a	99 a
16	CLASS ACT RIDION	1	% v/v	1	% v/v	B					
16	Intact	0.5	% v/v	0.5	% v/v	B					
	LSD P=.05						9.9	8.8	.	2.0	15.8
	Standard Deviation						6.9	6.2	0.0	1.4	11.1
	CV						8.05	6.88	0.0	1.52	12.54
	Grand Mean						86.0	89.8	0.0	93.3	88.6
	Levene's F						0.665	4.20	0.00	4.715	0.988
	Levene's Prob(F)						0.805	0.001*	.	0.001*	0.482
	Rank X2						.	.	.	.	.
	P(Rank X2)						.	.	.	.	.
	Skewness						-3.2834*	-3.166*	.	-3.678*	-3.0397*
	Kurtosis						9.8676*	9.2906*	.	11.9621*	7.9282*
	Replicate F						0.071	7.493	0.000	0.400	0.361
	Replicate Prob(F)						0.9750	0.0004	1.0000	0.7537	0.7813
	Treatment F						44.613	62.236	0.000	1229.317	19.722
	Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001	0.0001

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Pest Type							W Weed	W Weed
Pest Code							AMBTR	SIDSP
Pest Scientific Name							Ambrosia trifi>	Sida spinosa
Pest Name							ragweed, giant	sida, prickly
Crop Type, Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date							Jul-14-2020	Jul-14-2020
Part Rated							CANOPY P	CANOPY P
Rating Type							CONTRO	CONTRO
Rating Unit							%	%
Number of Subsamples							1	1
Assessed By								
Data Entry Date							Jul-15-2020	Jul-15-2020
Rating Timing								
Days After First/Last Applic.							62 20	62 20
Trt-Eval Interval							20 DA-B	20 DA-B
Plant-Eval Interval							62 DP-1	62 DP-1
Days After Emergence							50 DE-1	50 DE-1
Number of Decimals							0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11*	12*
1	WARRANT	1268	g ai/ha	48	oz/a	A	0 d	0 d
1	MAULER	280.5	g ai/ha	8	oz/a	A		
1	UNTREATED					B		
2	WARRANT	1268	g ai/ha	48	oz/a	A	92 bc	100 a
2	MAULER	280.5	g ai/ha	8	oz/a	A		
2	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B		
2	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B		
2	Intact	0.5	% v/v	0.5	% v/v	B		

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11*	12*
	Pest Type						W Weed	W Weed
	Pest Code						AMBTR	SIDSP
	Pest Scientific Name						Ambrosia trifi>	Sida spinosa
	Pest Name						ragweed, giant	sida, prickly
	Crop Type, Code							
	BBCH Scale							
	Crop Scientific Name							
	Crop Name							
	Rating Date						Jul-14-2020	Jul-14-2020
	Part Rated						CANOPY P	CANOPY P
	Rating Type						CONTRO	CONTRO
	Rating Unit						%	%
	Number of Subsamples						1	1
	Assessed By							
	Data Entry Date						Jul-15-2020	Jul-15-2020
	Rating Timing							
	Days After First/Last Applic.						62 20	62 20
	Trt-Eval Interval						20 DA-B	20 DA-B
	Plant-Eval Interval						62 DP-1	62 DP-1
	Days After Emergence						50 DE-1	50 DE-1
	Number of Decimals						0	0
3	WARRANT	1268	g ai/ha	48	oz/a	A	95 ab	91 bc
3	MAULER	280.5	g ai/ha	8	oz/a	A		
3	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B		
3	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B		
3	MON 51817	1	% v/v	1	% v/v	B		
3	Intact	0.5	% v/v	0.5	% v/v	B		
4	WARRANT	1268	g ai/ha	48	oz/a	A	97 ab	100 a
4	MAULER	280.5	g ai/ha	8	oz/a	A		
4	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B		
4	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B		
4	Intact	0.5	% v/v	0.5	% v/v	B		
5	WARRANT	1268	g ai/ha	48	oz/a	A	98 ab	96 abc
5	MAULER	280.5	g ai/ha	8	oz/a	A		
5	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B		
5	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B		
5	MON 51817	1	% v/v	1	% v/v	B		
5	Intact	0.5	% v/v	0.5	% v/v	B		
6	WARRANT	1268	g ai/ha	48	oz/a	A	96 ab	100 a
6	MAULER	280.5	g ai/ha	8	oz/a	A		
6	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B		
6	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B		
6	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B		
6	Intact	0.5	% v/v	0.5	% v/v	B		
7	WARRANT	1268	g ai/ha	48	oz/a	A	95 ab	96 abc
7	MAULER	280.5	g ai/ha	8	oz/a	A		
7	ROUNDUP POWER MAX	1268	g ai/ha	32	oz/a	B		
7	XTENDIMAX VAPORGRIP	561	g ai/ha	22	oz/a	B		
7	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B		
7	MON 51817	1	% v/v	1	% v/v	B		
7	Intact	0.5	% v/v	0.5	% v/v	B		
8	WARRANT	1268	g ai/ha	48	oz/a	A	100 a	96 abc
8	MAULER	280.5	g ai/ha	8	oz/a	A		
8	MON 301286	1680	g ai/ha	48	oz/a	B		
8	Intact	0.5	% v/v	0.5	% v/v	B		
9	WARRANT	1268	g ai/ha	48	oz/a	A	100 a	100 a
9	MAULER	280.5	g ai/ha	8	oz/a	A		
9	MON 301286	1680	g ai/ha	48	oz/a	B		
9	MON 51817	1	% v/v	1	% v/v	B		
9	Intact	0.5	% v/v	0.5	% v/v	B		

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	AMBTR	SIDSP
Pest Scientific Name	Ambrosia trifi>	Sida spinosa
Pest Name	ragweed, giant	sida, prickly
Crop Type, Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Jul-14-2020	Jul-14-2020
Part Rated	CANOPY P	CANOPY P
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Assessed By		
Data Entry Date	Jul-15-2020	Jul-15-2020
Rating Timing		
Days After First/Last Applic.	62 20	62 20
Trt-Eval Interval	20 DA-B	20 DA-B
Plant-Eval Interval	62 DP-1	62 DP-1
Days After Emergence	50 DE-1	50 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11*	12*
10	WARRANT	1268	g ai/ha	48	oz/a	A	88 c	95 abc
10	MAULER	280.5	g ai/ha	8	oz/a	A		
10	MON 301286	1680	g ai/ha	48	oz/a	B		
10	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B		
10	Intact	0.5	% v/v	0.5	% v/v	B		
11	WARRANT	1268	g ai/ha	48	oz/a	A	98 a	100 a
11	MAULER	280.5	g ai/ha	8	oz/a	A		
11	MON 301286	1680	g ai/ha	48	oz/a	B		
11	LIBERTY 280 SL	656	g ai/ha	32	oz/a	B		
11	MON 51817	1	% v/v	1	% v/v	B		
11	Intact	0.5	% v/v	0.5	% v/v	B		
12	WARRANT	1268	g ai/ha	48	oz/a	A	98 ab	96 abc
12	MAULER	280.5	g ai/ha	8	oz/a	A		
12	MON 301286	1680	g ai/ha	48	oz/a	B		
12	REIGN	0.5	% v/v	0.5	% v/v	B		
13	WARRANT	1268	g ai/ha	48	oz/a	A	97 ab	90 c
13	MAULER	280.5	g ai/ha	8	oz/a	A		
13	MON 301286	1680	g ai/ha	48	oz/a	B		
13	REIGN	0.5	% v/v	0.5	% v/v	B		
13	MON 51817	1	% v/v	1	% v/v	B		
14	WARRANT	1268	g ai/ha	48	oz/a	A	97 ab	99 ab
14	MAULER	280.5	g ai/ha	8	oz/a	A		
14	MON 301286	1680	g ai/ha	48	oz/a	B		
14	MON 301471	1.5	% v/v	1.5	% v/v	B		
15	WARRANT	1268	g ai/ha	48	oz/a	A	98 ab	95 abc
15	MAULER	280.5	g ai/ha	8	oz/a	A		
15	MON 301286	1680	g ai/ha	48	oz/a	B		
15	MON 301916	1.25	% v/v	1.25	% v/v	B		

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Pest Type							W Weed	W Weed
Pest Code							AMBTR	SIDSP
Pest Scientific Name							Ambrosia trifi>	Sida spinosa
Pest Name							ragweed, giant	sida, prickly
Crop Type, Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date							Jul-14-2020	Jul-14-2020
Part Rated							CANOPY P	CANOPY P
Rating Type							CONTRO	CONTRO
Rating Unit							%	%
Number of Subsamples							1	1
Assessed By								
Data Entry Date							Jul-15-2020	Jul-15-2020
Rating Timing								
Days After First/Last Applic.							62 20	62 20
Trt-Eval Interval							20 DA-B	20 DA-B
Plant-Eval Interval							62 DP-1	62 DP-1
Days After Emergence							50 DE-1	50 DE-1
Number of Decimals							0	0
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11*	12*
16	MON 301286	1680	g ai/ha	48	oz/a	B	100 a	100 a
16	CLASS ACT RIDION	1	% v/v	1	% v/v	B		
16	Intact	0.5	% v/v	0.5	% v/v	B		
LSD P=.05							5.8	8.4
Standard Deviation							4.1	5.9
CV							4.53	6.48
Grand Mean							90.4	90.9
Levene's F							1.344	1.525
Levene's Prob(F)							0.214	0.134
Rank X2							.	.
P(Rank X2)							.	.
Skewness							-3.4397*	-3.3095*
Kurtosis							10.7764*	10.0753*
Replicate F							5.793	4.311
Replicate Prob(F)							0.0019	0.0094
Treatment F							140.571	68.799
Treatment Prob(F)							0.0001	0.0001

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Dic gly Premix/XtendFlex Soy/Postemergence/Grass & Broadleaf/Phyto & Efficacy

Title No. 2: 2020-01-N8-11
Trial ID: 20RRXFLEX Location: Trial Year:
Protocol ID: HP20USANR5 Investigator: Dr. Mark M. Loux
Project ID: LOCAL_PROJ Study Director: Rana, Neha
Sponsor Contact:

Pest Type
W, Weed = Weed or volunteer crop
Pest Code
SETFA, Setaria faberi, foxtail, giant = US
ECHCG, Echinochloa crus-galli, barnyardgrass = US
AMBTR, Ambrosia trifida, ragweed, giant = US
SIDSP, Sida spinosa, sida, prickly = US
Crop Type, Code
C = EPPO species (Bayer) codes
GLXMA, BSOY, Glycine max, Soybean = US
Part Rated
CANOPY = canopy
C = Crop is Part Rated
P = Pest is Part Rated
Rating Type
PHYNEC = phytotoxicity - necrosis /burn
CONTRO = control / burndown or knockdown
PHYGEN = phytotoxicity - general / injury
Rating Unit
% = percent
Plant-Eval Interval
46 DP-1 = 1 GLXMA May-13-2020
49 DP-1 = 1 GLXMA May-13-2020
56 DP-1 = 1 GLXMA May-13-2020
62 DP-1 = 1 GLXMA May-13-2020