

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

### General Trial Information

**Trial Initiation Date:** Apr-27-2021    **Protocol Edition No.:** 1.05  
**Trial Status:** A    **Trial Status Date:** Mar-31-2021  
**Last change done by:** Dr. Mark M. Loux    **Date of last export:** Mar-31-2021 11:41 AM  
**External Trial:** X

**Final Data Due:** Sep-15-2021

**Please verify that the crop/harvest have been destroyed.**

**Destroyed? Explanation Method Destruction Date**  
 YES    Mowed    MOWED Jul-22-2021

**TD Number(s):** LOCALCREATED<sup>1</sup>

**License User:** Michael, Janis  
**Department:** Bayer CropScience LP

**Protocol Developer:** Riley, Eric  
**Department:** Bayer CropScience LP

**Trial Officer:** Stevenson, Rod

**Cooperator (Outside service):** Mark Loux  
**Affiliation:** Ohio State University  
**Street:** Western Ag Research Station  
**City:** South Charleston  
**Postal Code:** 45368  
**Telephone:** (614) 292-9081  
**E-Mail:** loux.1@osu.edu

### Site and Design

**Field Name:** Western Branch F-8  
**City:** South Charleston  
**Postal Code:** 45368  
**County:** Clark  
**State/Province:** OH  
**Country:** USA

### Latitude, Longitude of Trial Corners

**Lower Left**  
**Latitude:** 39.85997  
**Longitude:** -83.67065

**No. of Replicates:** 3    **No. of Treatments:** 15    **No. of Plots:** 45  
**Plot Width:** 3.048 m    **Plot Length:** 9.14 m  
**Plot Area:** 27.87 m<sup>2</sup>  
**Site Type:** FIELD    **Test Type:** EXTER  
**Tillage Type:** CONTIL    **Trial Design:** RACOBL

**Most relevant weather station:** Western OARDC  
**Distance:** 243.8 M    **Official Weather Station:** X

### Previous Crops and Agricultural Chemicals

**Previous Crops**    **Year**  
 ZEAMX    C BCOR 2020

### Soil Description

**Soil Name:** Kokomo  
**Texture:** SICL    **% Sand:** 36    **% Silt:** 49  
                                  **% Clay:** 15  
**% Organic Matter:** 2.7  
                                  **pH:** 6    **Cation Exchange Capacity:** 16.9  
**Fertility Level:** G  
**Soil Drainage:** G

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<b>Crop 1:</b> GLXMA	<b>Discipline:</b> C	<b>Crop Scale:</b> BSOY
	<b>Crop Description</b>	
	<b>Use Group:</b> P	
	Glycine max (L.) MERR. Soybean	
	<b>Variety:</b> AG38XF1	
	<b>Variety Characteristic:</b> RR+LL+DIC	
	<b>% Germination:</b> 90	
<b>Seed Treatment Products:</b>	Standard FI-ILEVO	
<b>Seed/Planting Date:</b>	May-14-2021	
<b>Depth:</b>	3.81	CM
	<b>Seed/Plant Count:</b> 370700 S/HA	
	<b>Rows Per Plot:</b> 8	
	<b>Row Spacing:</b> 38.1    CM	
<b>Planting Method:</b>	PLANTD	
<b>Planting Implement:</b>	FE	
<b>Emergence Crop Date:</b>	Jun-1-2021	
	<b>Seed Bed:</b> MEDIUM	
	<b>Soil Temperature:</b> 17.22    C	

<b>Target 1:</b> SETFA	<b>Discipline:</b> W	<b>Target Scale:</b> BGRM
	Setaria faberi HERRM. Foxtail, giant	
<b>Target 2:</b> ECHCG	<b>Discipline:</b> W	<b>Target Scale:</b> BGRM
	Echinochloa crus-galli (L.) P. Barnyardgrass, common	
<b>Target 3:</b> AMBTR	<b>Discipline:</b> W	<b>Target Scale:</b> BDIC
	Ambrosia trifida L. Ragweed, giant	
<b>Target 4:</b> CHEAL	<b>Discipline:</b> W	<b>Target Scale:</b> BDIC
	Chenopodium album L. Lambsquarters, common	
<b>Target 5:</b> AMARE	<b>Discipline:</b> W	<b>Target Scale:</b> BDIC
	Amaranthus retroflexus L. Redroot pigweed	
<b>Target 6:</b> ABUTH	<b>Discipline:</b> W	<b>Target Scale:</b> BDIC
	Abutilon theophrasti MEDIK. Velvetleaf	
<b>Target 7:</b> SIDSP	<b>Discipline:</b> W	<b>Target Scale:</b> BDIC
	Sida spinosa L. Prickly sida / Teaweed	

**Target Description**

**Application Description**

	<b>A</b>
<b>Application Date</b>	Jun-12-2021
<b>Application Timing</b>	EAPOCR
<b>Appl. Start - Time of Day</b>	9:00 AM
<b>Appl. Stop</b>	9:30 AM
<b>Appl. Rain 0-6H</b>	0    CM
<b>% Relative Humidity</b>	88
<b>Air Temperature</b>	23.9    C
<b>% Cloud Cover</b>	30
<b>Appl. Wind Strength</b>	LIG
<b>Wind Velocity</b>	11.3 KPH
<b>Wind Direction/Degrees</b>	N
<b>Plant Condition</b>	NORMAL
<b>Soil Temperature</b>	19.44    C
<b>Soil Moisture</b>	DRY
<b>Soil Condition (surface)</b>	MEDIUM
<b>Problems with Application?</b>	No

**Crop Stage at Application**

	<b>A</b>
<b>Crop 1/Disc./Scale</b>	GLXMA C BSOY
<b>Days after Emergence</b>	11
<b>Stage Majority/Percent</b>	14    100
<b>Stage Minimum/Percent</b>	14    100
<b>Stage Maximum/Percent</b>	14    100
<b>Majority Height/Unit</b>	10.16    CM
<b>Min/Max (Unit=Height Unit)</b>	7.62    10.16

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### Target Stage at Application

	A
Target 1/Disc./Scale	SETFA W BGRM
Stage Majority/Percent	13 80
Stage Minimum/Percent	12 10
Stage Maximum/Percent	14 10
Majority Height/Unit	17.78 CM
Min/Max (Unit=Height Unit)	12.7 22.86
Target 2/Disc./Scale	ECHCG W BGRM
Stage Majority/Percent	13 80
Stage Minimum/Percent	12 10
Stage Maximum/Percent	14 10
Majority Height/Unit	17.78 CM
Min/Max (Unit=Height Unit)	12.7 22.86
Target 3/Disc./Scale	AMBTR W BDIC
Stage Majority/Percent	18 70
Stage Minimum/Percent	14 10
Stage Maximum/Percent	19 10
Majority Height/Unit	20.32 CM
Min/Max (Unit=Height Unit)	20.32 30.48
Target 4/Disc./Scale	CHEAL W BDIC
Stage Majority/Percent	18 80
Stage Minimum/Percent	14 10
Stage Maximum/Percent	19 10
Majority Height/Unit	10.16 CM
Min/Max (Unit=Height Unit)	7.62 12.7
Target 5/Disc./Scale	AMARE W BDIC
Stage Majority/Percent	16 80
Stage Minimum/Percent	12 10
Stage Maximum/Percent	18 10
Majority Height/Unit	7.62 CM
Min/Max (Unit=Height Unit)	5.08 7.62
Target 6/Disc./Scale	ABUTH W BDIC
Stage Majority/Percent	13 90
Stage Minimum/Percent	13 90
Stage Maximum/Percent	14 10
Majority Height/Unit	7.62 CM
Min/Max (Unit=Height Unit)	5.08 7.62
Target 7/Disc./Scale	SIDSP W BDIC
Stage Majority/Percent	12 80
Stage Minimum/Percent	12 80
Stage Maximum/Percent	13 10
Majority Height/Unit	5.08 CM
Min/Max (Unit=Height Unit)	2.54 5.08

### Application Equipment

	A
Application Method	SPRAY
Application Placement	BROFOL
Application Equipment	BACCAI
Ground Speed	4.82999992 KPH
Propellant Type	COMCO2
Carrier	WATER
Water Hardness	240
Carrier pH	7.8
Appl./Slurry Volume	140.3
Appl./Slurry Volume Unit	L/HA
Minimum Mix/Treatment	1.173 L
Mix Size	2 L
Operating Pressure	3.31 BAR
Flow Rate (per boom)	8.66 ML/SEC
Spray Swath Width	2.03299999 M
Nozzle Type	TTI
Nozzle Size	110015
Nozzle Spacing	45.7 CM
Boom Height	50.7999992 CM
Plot Size	27.871 M2

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### Assessment Table

	1	2							
<b>SE ID</b>	PE12AD1	EE22AD3							
<b>SE Label</b>	Estimation % phytotoxicity (PHYGEN) (symptoms describe in co PLANT	1 weed, % efficacy, in untreated % coverage PLANT							
<b>Part Rated</b>	PHYGEN	CONTRO							
<b>Assessment Type</b>	PHYGEN	CONTRO							
<b>Assessment Unit</b>	%	%							
<b>Sample Size</b>	1 PLOT	1 PLOT							
<b># Subsamples</b>	1	1							
<b>ARM Action Codes</b>	P	P EC							
<b>Untreated</b>	CANOPY	CANOPY							
Unique Col. ID			2	3	4	5	6		
Orig./Calc. Flag			O	O	O	O	O		
SE Group			3	1	2	3	3		
SE ID			PE12AD1	PE12AD1	PE12AD1	PE12AD1	PE12AD1		
SE Label			Estimat	Estimat	Estimat	Estimat	Estimat		
Target									
-Disc./Scale									
Crop			1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA		
-Disc./Scale			C BSOY	C BSOY	C BSOY	C BSOY	C BSOY		
Variety			AG38XF1	AG38XF1	AG38XF1	AG38XF1	AG38XF1		
-Characteristic			RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC		
Part Rated			PLANT	PLANT	PLANT	PLANT	PLANT		
Assessment Type			PHYCHL	PHYNEC	PHYCHL	PHYNEC	PHYLMA		
Assessment Unit			%	%	%	%	%		
Sample Size			1	1	1	1	1		
Sample Size Unit			PLOT	PLOT	PLOT	PLOT	PLOT		
Sample Size (total)			1	1	1	1	1		
# Subsamples			1	1	1	1	1		
Assessment Date			Jun-15-202	Jun-15-202	Jun-21-2021	Jun-21-2021	Jun-21-2021		
Assessment Code			1	1	1	1	1		
Appl.-Ass.Interval			A1	A1	A2	A2	A2		
Days after first Appl.			3 DAA	3 DAA	9 DAA	9 DAA	9 DAA		
Days after last Appl.			3 DAA	3 DAA	9 DAA	9 DAA	9 DAA		
Plant.-Ass.Interval			3 DAA	3 DAA	9 DAA	9 DAA	9 DAA		
Days after Emergence			32 DP1	32 DP1	38 DP1	38 DP1	38 DP1		
Decimals Printed			14 DE-1	14 DE-1	20 DE-1	20 DE-1	20 DE-1		
ARM Action Codes			0	0	0	0	0		
Untreated			P	P	AA P	P	AA P		

Entry No.	Entry/Trt. Description	Dose Unit	Appl. Code	1*	2*	3* dAA	4*	5* dAA
1	UNTREATED			0 b	0 b	0 -	0 -	1 -
2	MON 301668	1212 g ai/ha A		1 b	0 b	0 -	1 -	2 -
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
3	MON 301668	1697 g ai/ha A		0 b	0 b	0 -	2 -	1 -
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
4	WARRANT	1259 g ai/ha A		1 b	0 b	0 -	1 -	1 -
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
5	WARRANT	1679 g ai/ha A		1 b	0 b	0 -	0 -	0 -
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
6	MON 301668	1212 g ai/ha A		0 b	3 a	0 -	1 -	0 -
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha A						
	INTACT	0.5 % v/v A						
	VAPORGRIP XTRA AGENT	576 g ai/ha A						
	CLASS ACT RIDION	1 % v/v A						

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Unique Col. ID	2	3	4	5	6
Orig./Calc. Flag	O	O	O	O	O
SE Group	3	1	2	3	3
SE ID	PE12AD1	PE12AD1	PE12AD1	PE12AD1	PE12AD1
SE Label	Estimat	Estimat	Estimat	Estimat	Estimat
Target					
-Disc./Scale					
Crop	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA
-Disc./Scale	C BSOY	C BSOY	C BSOY	C BSOY	C BSOY
Variety	AG38XF1	AG38XF1	AG38XF1	AG38XF1	AG38XF1
-Characteristic	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYCHL	PHYNEC	PHYCHL	PHYNEC	PHYLMA
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jun-15-202	Jun-15-202	Jun-21-2021	Jun-21-2021	Jun-21-2021
Assessment Code	1	1			
Appl.-Ass.Interval	A1	A1	A2	A2	A2
Days after first Appl.	3 DAA	3 DAA	9 DAA	9 DAA	9 DAA
Days after last Appl.	3 DAA	3 DAA	9 DAA	9 DAA	9 DAA
Plant.-Ass.Interval	32 DP1	32 DP1	38 DP1	38 DP1	38 DP1
Days after Emergence	14 DE-1	14 DE-1	20 DE-1	20 DE-1	20 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	P	P	AA P	P	AA P
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	1*	2*	3* dAA	4*	5* dAA
7	MON 301668	1697 g ai/ha	A		0 b	3 a	0 -	1 -	2 -
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
8	MON 301668	1212 g ai/ha	A		4 a	2 a	1 -	0 -	1 -
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
9	MON 301668	1212 g ai/ha	A		4 a	3 a	1 -	2 -	0 -
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
10	WARRANT	1259 g ai/ha	A		0 b	3 a	2 -	1 -	1 -
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
11	WARRANT	1259 g ai/ha	A		4 a	0 b	1 -	2 -	0 -
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
12	WARRANT	1259 g ai/ha	A		4 a	2 a	2 -	2 -	0 -
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
13	TAVIUM	1672 g ai/ha	A		0 b	3 a	0 -	2 -	0 -
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
14	OUTLOOK	735.5 g ai/ha	A		0 b	3 a	0 -	3 -	0 -
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						

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Unique Col. ID	2	3	4	5	6			
Orig./Calc. Flag	O	O	O	O	O			
SE Group	3	1	2	3	3			
SE ID	PE12AD1	PE12AD1	PE12AD1	PE12AD1	PE12AD1			
SE Label	Estimat	Estimat	Estimat	Estimat	Estimat			
Target								
-Disc./Scale								
Crop	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA			
-Disc./Scale	C BSOY	C BSOY	C BSOY	C BSOY	C BSOY			
Variety	AG38XF1	AG38XF1	AG38XF1	AG38XF1	AG38XF1			
-Characteristic	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC			
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type	PHYCHL	PHYNEC	PHYCHL	PHYNEC	PHYLMA			
Assessment Unit	%	%	%	%	%			
Sample Size	1	1	1	1	1			
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)	1	1	1	1	1			
# Subsamples	1	1	1	1	1			
Assessment Date	Jun-15-202	Jun-15-202	Jun-21-2021	Jun-21-2021	Jun-21-2021			
Assessment Code	1	1						
Appl.-Ass.Interval	A1	A1	A2	A2	A2			
Days after first Appl.	3 DAA	3 DAA	9 DAA	9 DAA	9 DAA			
Days after last Appl.	3 DAA	3 DAA	9 DAA	9 DAA	9 DAA			
Plant.-Ass.Interval	32 DP1	32 DP1	38 DP1	38 DP1	38 DP1			
Days after Emergence	14 DE-1	14 DE-1	20 DE-1	20 DE-1	20 DE-1			
Decimals Printed	0	0	0	0	0			
ARM Action Codes	P	P	AA P	P	AA P			
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry No.	Entry/Trt. Description	Dose Unit	App. Code	1*	2*	3* dAA	4*	5* dAA
15	ZIDUA HERBICIDE	119.1 g ai/ha A		0 b	3 a	0 -	2 -	2 -
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	XTENDIMAX VAPORGRIP INTACT	562.6 g ai/ha A						
	VAPORGRIP XTRA AGENT	0.5 % v/v A						
	CLASS ACT RIDION	576 g ai/ha A						
		1 % v/v A						
LSD P=.05				1.4	1.2	2.1 - 2.2	2.0	2.0 - 2.2
Standard Deviation				0.9	0.7	4.0t	1.2	3.9t
CV				72.87	44.14	113.92t	94.97	84.14t
Levene's F^				0.662	1.262	0.354	0.566	0.361
Levene's Prob(F)				0.792	0.286	0.978	0.87	0.976
Skewness^				0.6726	1.7067*	0.5394	-0.0726	0.1636
Kurtosis^				0.6916	13.5243*	-0.4299	-0.7614	-0.7347
Replicate F				0.935	1.181	1.143	0.015	4.030
Replicate Prob(F)				0.4044	0.3219	0.3334	0.9853	0.0290
Treatment F				11.694	11.428	1.389	1.585	1.160
Treatment Prob(F)				0.0001	0.0001	0.2222	0.1456	0.3551

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Unique Col. ID	17	19	20	10	11
Orig./Calc. Flag	O	O	O	O	O
SE Group	11	12	13	24	6
SE ID	PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3
SE Label	Estimat	Estimat	Estimat	1 weed, 1 SETFA W BGRM	1 weed, 2 ECHCG W BGRM
Target					
-Disc./Scale					
Crop	1 GLXMA	1 GLXMA	1 GLXMA		
-Disc./Scale	C BSOY	C BSOY	C BSOY		
Variety	AG38XF1	AG38XF1	AG38XF1		
-Characteristic	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC		
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jun-28-2021	Jun-28-202	Jun-28-2021	Jun-28-202	Jun-28-202
Assessment Code	A3	A3	A3	A3	A3
Appl.-Ass.Interval	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after first Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after last Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Plant.-Ass.Interval	45 DP1	45 DP1	45 DP1	45 DP1	45 DP1
Days after Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	AS P	P	AL P	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose Unit	Appl. Code	6* dAS	7*	8* dAL	9*	10*
1	UNTREATED			0 -	0 b	0 c	0	0
2	MON 301668	1212 g ai/ha A		0 -	0 b	8 a	100 a	83 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
3	MON 301668	1697 g ai/ha A		0 -	0 b	9 a	100 a	78 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
4	WARRANT	1259 g ai/ha A		0 -	0 b	4 a	100 a	88 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
5	WARRANT	1679 g ai/ha A		0 -	0 b	4 a	100 a	82 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
6	MON 301668	1212 g ai/ha A		0 -	1 b	4 a	100 a	79 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha A						
	INTACT	0.5 % v/v A						
	VAPORGRIP XTRA AGENT	576 g ai/ha A						
	CLASS ACT RIDION	1 % v/v A						

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	17	19	20	10	11
Orig./Calc. Flag	O	O	O	O	O
SE Group	11	12	13	24	6
SE ID	PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3
SE Label	Estimat	Estimat	Estimat	1 weed, 1 SETFA W BGRM	1 weed, 2 ECHCG W BGRM
Target					
-Disc./Scale					
Crop	1 GLXMA	1 GLXMA	1 GLXMA		
-Disc./Scale	C BSOY	C BSOY	C BSOY		
Variety	AG38XF1	AG38XF1	AG38XF1		
-Characteristic	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC		
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jun-28-2021	Jun-28-202	Jun-28-2021	Jun-28-202	Jun-28-202
Assessment Code	A3	A3	A3	A3	A3
Appl.-Ass.Interval	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after first Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after last Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Plant.-Ass.Interval	45 DP1	45 DP1	45 DP1	45 DP1	45 DP1
Days after Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	AS P	P	AL P	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	6* dAS	7*	8* dAL	9*	10*
7	MON 301668	1697 g ai/ha	A		0 -	0 b	6 a	100 a	78 a
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
8	MON 301668	1212 g ai/ha	A		0 -	0 b	4 a	88 b	37 b
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
9	MON 301668	1212 g ai/ha	A		0 -	0 b	10 a	100 a	72 a
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
10	WARRANT	1259 g ai/ha	A		0 -	1 b	6 a	100 a	72 a
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
11	WARRANT	1259 g ai/ha	A		0 -	0 b	4 a	82 c	30 b
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
12	WARRANT	1259 g ai/ha	A		0 -	0 b	4 a	100 a	83 a
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
13	TAVIUM	1672 g ai/ha	A		0 -	3 a	2 ab	100 a	81 a
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
14	OUTLOOK	735.5 g ai/ha	A		0 -	2 b	0 bc	100 a	90 a
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						



# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID		17	19	20	10	11			
Orig./Calc. Flag		O	O	O	O	O			
SE Group		11	12	13	24	6			
SE ID		PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3			
SE Label		Estimat	Estimat	Estimat	1 weed,	1 weed,			
Target					1 SETFA	2 ECHCG			
-Disc./Scale					W BGRM	W BGRM			
Crop		1 GLXMA	1 GLXMA	1 GLXMA					
-Disc./Scale		C BSOY	C BSOY	C BSOY					
Variety		AG38XF1	AG38XF1	AG38XF1					
-Characteristic		RR+LL+DIC	RR+LL+DIC	RR+LL+DIC					
Part Rated		PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type		PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO			
Assessment Unit		%	%	%	%	%			
Sample Size		1	1	1	1	1			
Sample Size Unit		PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)		1	1	1	1	1			
# Subsamples		1	1	1	1	1			
Assessment Date		Jun-28-2021	Jun-28-202	Jun-28-2021	Jun-28-202	Jun-28-202			
Assessment Code		A3	A3	A3	A3	A3			
Appl.-Ass.Interval		16 DAA	16 DAA	16 DAA	16 DAA	16 DAA			
Days after first Appl.		16 DAA	16 DAA	16 DAA	16 DAA	16 DAA			
Days after last Appl.		16 DAA	16 DAA	16 DAA	16 DAA	16 DAA			
Plant.-Ass.Interval		45 DP1	45 DP1	45 DP1	45 DP1	45 DP1			
Days after Emergence		27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Decimals Printed		0	0	0	0	0			
ARM Action Codes		AS P	P	AL P	P EC	P EC			
Untreated		CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry No.	Entry/Trt. Description	Dose Unit	Dose Unit	Appl. Code	6* dAS	7*	8* dAL	9*	10*
15	ZIDUA HERBICIDE	119.1 g ai/ha A			0 -	1 b	0 bc	100 a	84 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A							
	XTENDIMAX VAPORGRIP	562.6 g ai/ha A							
	INTACT	0.5 % v/v A							
	VAPORGRIP XTRA AGENT	576 g ai/ha A							
	CLASS ACT RIDION	1 % v/v A							
LSD P=.05					0.5 - 0.7	1.2	1.7 - 6.0	2.9	14.3
Standard Deviation					0.2t	0.7	0.2t	1.8	8.5
CV					25.14t	142.03	31.17t	1.79	11.53
Levene's F^					0.96	0.757	0.544	0.919	0.566
Levene's Prob(F)					0.512	0.703	0.886	0.547	0.86
Skewness^					1.8882*	0.0575	0.6394	2.0225*	-0.7781*
Kurtosis^					8.6514*	2.8358*	0.4872	11.1691*	2.4184*
Replicate F					0.483	1.181	1.452	0.582	7.052
Replicate Prob(F)					0.6221	0.3219	0.2512	0.5658	0.0036
Treatment F					0.897	4.506	7.315	30.687	13.399
Treatment Prob(F)					0.5713	0.0003	0.0001	0.0001	0.0001

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	12	13	14	15	16
Orig./Calc. Flag	0	0	0	0	0
SE Group	7	8	9	10	10
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,
Target	3 AMBTR	4 CHEAL	5 AMARE	6 ABUTH	7 SIDSP
-Disc./Scale	W BDIC	W BDIC	W BDIC	W BDIC	W BDIC
Crop					
-Disc./Scale					
Variety					
-Characteristic					
Part Rated					
Assessment Type	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Unit	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Sample Size	%	%	%	%	%
Sample Size Unit	1	1	1	1	1
Sample Size (total)	PLOT	PLOT	PLOT	PLOT	PLOT
# Subsamples	1	1	1	1	1
Assessment Date	1	1	1	1	1
Assessment Code	Jun-28-202	Jun-28-202	Jun-28-202	Jun-28-202	Jun-28-202
Appl.-Ass.Interval	A3	A3	A3	A3	A3
Days after first Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after last Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Plant.-Ass.Interval	45 DP1	45 DP1	45 DP1	45 DP1	45 DP1
Days after Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	AA P EC	AA P EC	P EC	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose Unit	Appl. Code	11* dAA	12* dAA	13*	14*	15*
1	UNTREATED			0	0	0	0	0
2	MON 301668	1212 g ai/ha A		77 b	98 ab	100 -	100 -	75 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
3	MON 301668	1697 g ai/ha A		90 ab	98 ab	98 -	100 -	80 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
4	WARRANT	1259 g ai/ha A		77 b	91 ab	100 -	100 -	83 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
5	WARRANT	1679 g ai/ha A		86 ab	98 ab	100 -	98 -	87 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
6	MON 301668	1212 g ai/ha A		100 a	100 a	100 -	100 -	62 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha A						
	INTACT	0.5 % v/v A						
	VAPORGRIP XTRA AGENT	576 g ai/ha A						
	CLASS ACT RIDION	1 % v/v A						

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	12	13	14	15	16
Orig./Calc. Flag	O	O	O	O	O
SE Group	7	8	9	10	10
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,
Target	3 AMBTR	4 CHEAL	5 AMARE	6 ABUTH	7 SIDSP
-Disc./Scale	W BDIC	W BDIC	W BDIC	W BDIC	W BDIC
Crop					
-Disc./Scale					
Variety					
-Characteristic					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jun-28-202	Jun-28-202	Jun-28-202	Jun-28-202	Jun-28-202
Assessment Code	A3	A3	A3	A3	A3
Appl.-Ass.Interval	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after first Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Days after last Appl.	16 DAA	16 DAA	16 DAA	16 DAA	16 DAA
Plant.-Ass.Interval	45 DP1	45 DP1	45 DP1	45 DP1	45 DP1
Days after Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	AA P EC	AA P EC	P EC	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	11* dAA	12* dAA	13*	14*	15*
7	MON 301668	1697 g ai/ha	A		98 a	100 a	100 -	100 -	68 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
8	MON 301668	1212 g ai/ha	A		100 a	89 ab	87 -	100 -	65 ab
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
9	MON 301668	1212 g ai/ha	A		98 a	90 ab	100 -	100 -	42 b
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
10	WARRANT	1259 g ai/ha	A		99 a	100 a	98 -	100 -	58 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
11	WARRANT	1259 g ai/ha	A		96 ab	80 b	100 -	100 -	85 ab
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
12	WARRANT	1259 g ai/ha	A		100 a	97 ab	100 -	100 -	72 ab
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
13	TAVIUM	1672 g ai/ha	A		100 a	98 ab	98 -	98 -	62 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
14	OUTLOOK	735.5 g ai/ha	A		100 a	96 ab	95 -	100 -	50 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID		12	13	14	15	16			
Orig./Calc. Flag		O	O	O	O	O			
SE Group		7	8	9	10	10			
SE ID		EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3			
SE Label		1 weed,	1 weed,	1 weed,	1 weed,	1 weed,			
Target		3 AMBTR	4 CHEAL	5 AMARE	6 ABUTH	7 SIDSP			
-Disc./Scale		W BDIC	W BDIC	W BDIC	W BDIC	W BDIC			
Crop									
-Disc./Scale									
Variety									
-Characteristic									
Part Rated		PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Assessment Unit		%	%	%	%	%			
Sample Size		1	1	1	1	1			
Sample Size Unit		PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)		1	1	1	1	1			
# Subsamples		1	1	1	1	1			
Assessment Date		Jun-28-202	Jun-28-202	Jun-28-202	Jun-28-202	Jun-28-202			
Assessment Code		1	1	1	1	1			
Appl.-Ass.Interval		A3	A3	A3	A3	A3			
Days after first Appl.		16 DAA	16 DAA	16 DAA	16 DAA	16 DAA			
Days after last Appl.		16 DAA	16 DAA	16 DAA	16 DAA	16 DAA			
Plant.-Ass.Interval		45 DP1	45 DP1	45 DP1	45 DP1	45 DP1			
Days after Emergence		27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Decimals Printed		0	0	0	0	0			
ARM Action Codes		AA P EC	AA P EC	P EC	P EC	P EC			
Untreated		CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	11* dAA	12* dAA	13*	14*	15*
15	ZIDUA HERBICIDE	119.1 g	ai/ha A		99 a	99 a	99 -	100 -	63 ab
	ROUNDUP POWERMAX 3	1260 g	ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g	ai/ha A						
	INTACT	0.5 %	v/v A						
	VAPORGRIP XTRA AGENT	576 g	ai/ha A						
	CLASS ACT RIDION	1 %	v/v A						
LSD P=.05					5.3 - 16.1	4.2 - 13.5	7.3	1.9	24.9
Standard Deviation					7.9t	7.0t	4.3	1.1	14.8
CV					9.88t	8.82t	4.42	1.11	21.81
Levene's F^					0.70	0.495	1.277	0.957	0.489
Levene's Prob(F)					0.748	0.909	0.283	0.513	0.912
Skewness^					-0.0086	0.0343	0.0807	-1.8196*	-0.0156
Kurtosis^					1.0494	0.0794	5.5755*	7.8942*	0.1412
Replicate F					0.567	10.537	0.789	0.481	3.259
Replicate Prob(F)					0.5741	0.0004	0.4649	0.6233	0.0546
Treatment F					5.230	3.747	2.088	0.889	2.415
Treatment Prob(F)					0.0002	0.0020	0.0534	0.5740	0.0270

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	22	23	24	25	26
Orig./Calc. Flag	O	O	O	O	O
SE Group	14	15	16	17	18
SE ID	PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3
SE Label	Estimat	Estimat	Estimat	1 weed, W BGRM	1 weed, 2 ECHCG W BGRM
Target					
-Disc./Scale					
Crop		1 GLXMA	1 GLXMA		
-Disc./Scale		C BSOY	C BSOY		
Variety		AG38XF1	AG38XF1		
-Characteristic		RR+LL+DIC	RR+LL+DIC		
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYNEC	PHYCHL	PHYLMA	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jul-12-202	Jul-12-2021	Jul-12-2021	Jul-12-202	Jul-12-2021
Assessment Code	A4	A4	A4	A4	A4
Appl.-Ass.Interval	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Days after first Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Days after last Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Plant.-Ass.Interval	59 DP1	59 DP1	59 DP1	59 DP1	59 DP1
Days after Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	P	P	P	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose Unit	Appl. Code	16*	17*	18*	19*	20*
1	UNTREATED			0 -	0 -	0 -	0	0
2	MON 301668	1212 g ai/ha A		0 -	0 -	3 -	87 a	70 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
3	MON 301668	1697 g ai/ha A		0 -	0 -	4 -	85 a	57 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
4	WARRANT	1259 g ai/ha A		0 -	0 -	1 -	90 a	78 a
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
5	WARRANT	1679 g ai/ha A		0 -	0 -	3 -	90 a	75 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	N-PAK AMS LIQUID	2 % v/v A						
6	MON 301668	1212 g ai/ha A		0 -	0 -	3 -	83 a	60 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha A						
	INTACT	0.5 % v/v A						
	VAPORGRIP XTRA AGENT	576 g ai/ha A						
	CLASS ACT RIDION	1 % v/v A						

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	22	23	24	25	26
Orig./Calc. Flag	O	O	O	O	O
SE Group	14	15	16	17	18
SE ID	PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3
SE Label	Estimat	Estimat	Estimat	1 weed, 1 SETFA W BGRM	1 weed, 2 ECHCG W BGRM
Target					
-Disc./Scale					
Crop		1 GLXMA	1 GLXMA		
-Disc./Scale		C BSOY	C BSOY		
Variety		AG38XF1	AG38XF1		
-Characteristic		RR+LL+DIC	RR+LL+DIC		
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYNEC	PHYCHL	PHYLMA	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jul-12-202	Jul-12-2021	Jul-12-2021	Jul-12-202	Jul-12-2021
Assessment Code	1			1	
Appl.-Ass.Interval	A4	A4	A4	A4	A4
Days after first Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Days after last Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Plant.-Ass.Interval	59 DP1	59 DP1	59 DP1	59 DP1	59 DP1
Days after Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	P	P	P	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	16*	17*	18*	19*	20*
7	MON 301668	1697 g ai/ha	A		0 -	0 -	3 -	83 a	68 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
8	MON 301668	1212 g ai/ha	A		0 -	0 -	1 -	43 b	30 c
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
9	MON 301668	1212 g ai/ha	A		0 -	0 -	2 -	83 a	63 ab
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
10	WARRANT	1259 g ai/ha	A		0 -	0 -	4 -	75 a	53 b
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
11	WARRANT	1259 g ai/ha	A		0 -	0 -	3 -	53 b	33 c
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
12	WARRANT	1259 g ai/ha	A		0 -	0 -	2 -	87 a	77 a
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
13	TAVIUM	1672 g ai/ha	A		0 -	0 -	1 -	75 a	63 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
14	OUTLOOK	735.5 g ai/ha	A		0 -	0 -	0 -	82 a	67 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID		22	23	24	25	26			
Orig./Calc. Flag		O	O	O	O	O			
SE Group		14	15	16	17	18			
SE ID		PE12AD1	PE12AD1	PE12AD1	EE22AD3	EE22AD3			
SE Label		Estimat	Estimat	Estimat	1 weed,	1 weed,			
Target					1 SETFA	2 ECHCG			
-Disc./Scale					W BGRM	W BGRM			
Crop			1 GLXMA	1 GLXMA					
-Disc./Scale			C BSOY	C BSOY					
Variety			AG38XF1	AG38XF1					
-Characteristic			RR+LL+DIC	RR+LL+DIC					
Part Rated		PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type		PHYNEC	PHYCHL	PHYLMA	CONTRO	CONTRO			
Assessment Unit		%	%	%	%	%			
Sample Size		1	1	1	1	1			
Sample Size Unit		PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)		1	1	1	1	1			
# Subsamples		1	1	1	1	1			
Assessment Date		Jul-12-202	Jul-12-2021	Jul-12-2021	Jul-12-202	Jul-12-2021			
Assessment Code		1	A4	A4	A4	A4			
Appl.-Ass.Interval		30 DAA	30 DAA	30 DAA	30 DAA	30 DAA			
Days after first Appl.		30 DAA	30 DAA	30 DAA	30 DAA	30 DAA			
Days after last Appl.		30 DAA	30 DAA	30 DAA	30 DAA	30 DAA			
Plant.-Ass.Interval		59 DP1	59 DP1	59 DP1	59 DP1	59 DP1			
Days after Emergence		41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1			
Decimals Printed		0	0	0	0	0			
ARM Action Codes		P	P	P	P EC	P EC			
Untreated		CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	16*	17*	18*	19*	20*
15	ZIDUA HERBICIDE	119.1 g	ai/ha A		0 -	0 -	0 -	87 a	72 ab
	ROUNDUP POWERMAX 3	1260 g	ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g	ai/ha A						
	INTACT	0.5 %	v/v A						
	VAPORGRIP XTRA AGENT	576 g	ai/ha A						
	CLASS ACT RIDION	1 %	v/v A						
LSD P=.05							2.6	11.1	13.0
Standard Deviation					0.0	0.0	1.5	6.6	7.7
CV					0.0	0.0	80.79	8.38	12.48
Levene's F^					.	.	0.322	0.351	0.56
Levene's Prob(F)					.	.	0.986	0.975	0.865
Skewness^					.	.	-0.011	-0.4273	-0.2162
Kurtosis^					.	.	-0.7366	-0.4529	0.1799
Replicate F					0.000	0.000	4.735	4.761	14.796
Replicate Prob(F)					1.0000	1.0000	0.0169	0.0173	0.0001
Treatment F					0.000	0.000	2.047	13.116	10.935
Treatment Prob(F)					1.0000	1.0000	0.0519	0.0001	0.0001

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	27	28	29	31	30
Orig./Calc. Flag	O	O	O	O	O
SE Group	19	20	21	23	22
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,
Target	3 AMBTR	4 CHEAL	5 AMARE	6 ABUTH	7 SIDSP
-Disc./Scale	W BDIC	W BDIC	W BDIC	W BDIC	W BDIC
Crop					
-Disc./Scale					
Variety					
-Characteristic					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jul-12-202	Jul-12-202	Jul-12-202	Jul-12-202	Jul-12-202
Assessment Code	1	1	1	1	1
Appl.-Ass.Interval	A4	A4	A4	A4	A4
Days after first Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Days after last Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Plant.-Ass.Interval	59 DP1	59 DP1	59 DP1	59 DP1	59 DP1
Days after Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	P EC	AA P EC	P EC	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose Unit	Appl. Code	21*	22* dAA	23*	24*	25*
1	UNTREATED			0	0	0	0	0
2	MON 301668	1212 g ai/ha	A	88 -	92 ab	77 ab	100 -	68 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A					
	N-PAK AMS LIQUID	2 % v/v	A					
3	MON 301668	1697 g ai/ha	A	100 -	77 ab	88 ab	100 -	73 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A					
	N-PAK AMS LIQUID	2 % v/v	A					
4	WARRANT	1259 g ai/ha	A	98 -	73 ab	97 a	100 -	85 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A					
	N-PAK AMS LIQUID	2 % v/v	A					
5	WARRANT	1679 g ai/ha	A	93 -	75 ab	90 ab	98 -	82 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A					
	N-PAK AMS LIQUID	2 % v/v	A					
6	MON 301668	1212 g ai/ha	A	100 -	100 a	97 a	100 -	40 b
	ROUNDUP POWERMAX 3	1260 g ai/ha	A					
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A					
	INTACT	0.5 % v/v	A					
	VAPORGRIP XTRA AGENT	576 g ai/ha	A					
	CLASS ACT RIDION	1 % v/v	A					



# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
 Project ID: MD-NATIONAL  
 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID	27	28	29	31	30
Orig./Calc. Flag	O	O	O	O	O
SE Group	19	20	21	23	22
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,
Target	3 AMBTR	4 CHEAL	5 AMARE	6 ABUTH	7 SIDSP
-Disc./Scale	W BDIC	W BDIC	W BDIC	W BDIC	W BDIC
Crop					
-Disc./Scale					
Variety					
-Characteristic					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Sample Size	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1
# Subsamples	1	1	1	1	1
Assessment Date	Jul-12-202	Jul-12-202	Jul-12-202	Jul-12-202	Jul-12-202
Assessment Code	A4	A4	A4	A4	A4
Appl.-Ass.Interval	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Days after first Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Days after last Appl.	30 DAA	30 DAA	30 DAA	30 DAA	30 DAA
Plant.-Ass.Interval	59 DP1	59 DP1	59 DP1	59 DP1	59 DP1
Days after Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1
Decimals Printed	0	0	0	0	0
ARM Action Codes	P EC	AA P EC	P EC	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	21*	22* dAA	23*	24*	25*
7	MON 301668	1697 g ai/ha	A		97 -	100 a	100 a	100 -	60 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
8	MON 301668	1212 g ai/ha	A		95 -	91 ab	70 ab	100 -	70 ab
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
9	MON 301668	1212 g ai/ha	A		90 -	61 b	77 ab	100 -	43 b
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
10	WARRANT	1259 g ai/ha	A		100 -	92 ab	85 ab	100 -	43 b
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
11	WARRANT	1259 g ai/ha	A		93 -	91 ab	73 ab	100 -	90 a
	LIBERTY 280	655 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
12	WARRANT	1259 g ai/ha	A		100 -	85 ab	67 ab	100 -	50 ab
	LIBERTY 280	655 g ai/ha	A						
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	N-PAK AMS LIQUID	2 % v/v	A						
13	TAVIUM	1672 g ai/ha	A		100 -	90 ab	53 b	98 -	57 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						
14	OUTLOOK	735.5 g ai/ha	A		100 -	98 ab	62 ab	100 -	60 ab
	ROUNDUP POWERMAX 3	1260 g ai/ha	A						
	XTENDIMAX VAPORGRIP	562.6 g ai/ha	A						
	INTACT	0.5 % v/v	A						
	VAPORGRIP XTRA AGENT	576 g ai/ha	A						
	CLASS ACT RIDION	1 % v/v	A						

# The Ohio State University

## High Load Warrant/XF Soybean/POST/Phyto & Efficacy

Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
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 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

Unique Col. ID		27	28	29	31	30			
Orig./Calc. Flag		O	O	O	O	O			
SE Group		19	20	21	23	22			
SE ID		EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3			
SE Label		1 weed,	1 weed,	1 weed,	1 weed,	1 weed,			
Target		3 AMBTR	4 CHEAL	5 AMARE	6 ABUTH	7 SIDSP			
-Disc./Scale		W BDIC	W BDIC	W BDIC	W BDIC	W BDIC			
Crop									
-Disc./Scale									
Variety									
-Characteristic									
Part Rated		PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Assessment Unit		%	%	%	%	%			
Sample Size		1	1	1	1	1			
Sample Size Unit		PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)		1	1	1	1	1			
# Subsamples		1	1	1	1	1			
Assessment Date		Jul-12-202	Jul-12-202	Jul-12-202	Jul-12-202	Jul-12-202			
		1	1	1	1	1			
Assessment Code		A4	A4	A4	A4	A4			
Appl.-Ass.Interval		30 DAA	30 DAA	30 DAA	30 DAA	30 DAA			
Days after first Appl.		30 DAA	30 DAA	30 DAA	30 DAA	30 DAA			
Days after last Appl.		30 DAA	30 DAA	30 DAA	30 DAA	30 DAA			
Plant.-Ass.Interval		59 DP1	59 DP1	59 DP1	59 DP1	59 DP1			
Days after Emergence		41 DE-1	41 DE-1	41 DE-1	41 DE-1	41 DE-1			
Decimals Printed		0	0	0	0	0			
ARM Action Codes		P EC	AA P EC	P EC	P EC	P EC			
Untreated		CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry No.	Entry/Trt. Description	Dose	Dose Unit	App. Code	21*	22* dAA	23*	24*	25*
15	ZIDUA HERBICIDE	119.1 g	ai/ha A		100 -	98 ab	84 ab	100 -	65 ab
	ROUNDUP POWERMAX 3	1260 g	ai/ha A						
	XTENDIMAX VAPORGRIP	562.6 g	ai/ha A						
	INTACT	0.5 %	v/v A						
	VAPORGRIP XTRA AGENT	576 g	ai/ha A						
	CLASS ACT RIDION	1 %	v/v A						
LSD P=.05		9.1			9.8 - 27.0	21.8	1.9	26.1	
Standard Deviation		5.4			10.9t	13.0	1.1	15.5	
CV		5.61			15.16t	16.24	1.11	24.55	
Levene's F^		0.568			0.493	0.403	0.957	0.661	
Levene's Prob(F)		0.858			0.91	0.956	0.513	0.782	
Skewness^		-0.8063*			0.2688	0.1799	-1.8196*	-0.4351	
Kurtosis^		1.7713*			-0.2366	0.1862	7.8942*	0.3265	
Replicate F		1.152			1.137	1.100	0.481	6.031	
Replicate Prob(F)		0.3315			0.3361	0.3477	0.6233	0.0071	
Treatment F		1.719			3.378	3.506	0.889	3.129	
Treatment Prob(F)		0.1163			0.0040	0.0031	0.5740	0.0064	

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Trial ID: HN21USAEOFTRS2    TD Number: LOCALCREATED    Protocol Edition No.: 1.05  
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 Project Number(s): 0 % MD\_CROP\_PROT % 100 % MD\_CROP\_PROT  
 Protocol Developer: Riley, Eric  
 License User: Michael, Janis

SE ID

PE12AD1 = Estimation % phytotoxicity (PHYGEN) (symptoms describe in co  
 EE22AD3 = 1 weed, % efficacy, in untreated % coverage

Target

- 1, SETFA, W, BGRM, , , = Setaria faberi HERRM.
- 2, ECHCG, W, BGRM, , , = Echinochloa crus-galli (L.) P.
- 3, AMBTR, W, BDIC, , , = Ambrosia trifida L.
- 4, CHEAL, W, BDIC, , , = Chenopodium album L.
- 5, AMARE, W, BDIC, , , = Amaranthus retroflexus L.
- 6, ABUTH, W, BDIC, , , = Abutilon theophrasti MEDIK.
- 7, SIDSP, W, BDIC, , , = Sida spinosa L.

Crop

- 1, GLXMA, C, BSOY, AG38XF1, RR+LL+DIC = Glycine max (L.) MERR.

Part Rated

PLANT = Plant

Assessment Type

PHYCHL = Phytotoxicity - Chlorosis  
 PHYNEC = Phytotoxicity - Necrosis, Burn  
 PHYLMA = Phytotoxicity - Leaf Malformation  
 CONTRO = Control

Assessment Unit

% = Percent

Sample Size Unit

PLOT = Plot

Plant.-Ass.Interval

- 32 DP1 = 1 GLXMA May-14-2021
- 38 DP1 = 1 GLXMA May-14-2021
- 45 DP1 = 1 GLXMA May-14-2021
- 59 DP1 = 1 GLXMA May-14-2021

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. control or injury)  
 AA = Automatic arcsin square root % transformation  
 AS = Automatic square root transformation of x+0.5  
 AL = Automatic log transformation of x+1  
 EC = Do not analyze untreated check, and report check treatment mean on AOV Means Tab

Untreated

CANOPY = Canopy