

# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

### Previous Crops and Agricultural Chemicals

Previous Crops Year  
 A2 CBCOR2021

### Soil Description

Soil Name: Kokomo, Big E  
 Texture: SICL % Sand: 44 % Silt: 45  
 % Clay: 11 % Gravel: 0  
 % Organic Matter: 3.1  
 pH: 6.6 Cation Exchange Capacity: 15  
 Fertility Level: G  
 Soil Drainage: G  
 Overall Soil Moisture Condition: G

### Crop Description

<p>Crop 1: GLXMA Discipline: C Crop Scale: BSOY          Glycine max (L.) MERR.          Soybean          Variety: AG35XF1          Variety Characteristic: RR+LL+DIC          % Germination: 85          Seed Treatment Products: Acceleron          Seed/Planting Date: Apr-27-2022          Depth: 3.81 CM          Planting Method: PLANTD          Planting Implement: PP          Emergence Crop Date: May-16-2022          Planting Crop Stage: 00</p>	<p>Use Group: P          Seed Lot No.: WN1SBT1WN1          1000 Grain Weight: 0.38 LB          Seed/Plant Rate: 407700 S/HA          Rows Per Plot: 8          Row Spacing: 38.1 CM          Seed Bed: MEDIUM          Soil Temperature: 11.11 C          Soil Moisture (at Planting): SLIDRY</p>
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### Target Description

<p>Target 1: SETFA Discipline: W Target Scale: BGRM          Setaria faberi HERRM.          Foxtail, giant          Target 2: ECHCG Discipline: W Target Scale: BGRM          Echinochloa crus-galli (L.) P.          Barnyardgrass, common          Target 3: AMBTR Discipline: W Target Scale: BDIC          Ambrosia trifida L.          Ragweed, giant          Resistance Characteristics: HG/9          Target 4: CHEAL Discipline: W Target Scale: BDIC          Chenopodium album L.          Lambsquarters, common          Target 5: AMARE Discipline: W Target Scale: BDIC          Amaranthus retroflexus L.          Redroot pigweed          Target 6: ABUTH Discipline: W Target Scale: BDIC          Abutilon theophrasti MEDIK.          Velvetleaf          Target 7: POLPY Discipline: W Target Scale: BDIC          Polygonum pensylvanicum L.          Smartweed, Pennsylvania          Target 8: HIBTR Discipline: W Target Scale: BDIC          Hibiscus trionum L.          Mallow, Venice</p>	
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### Application Description

	A
Application Date	Apr-28-2022
Application Timing	PREPRE
Appl. Start - Time of Day	9:00 AM
Appl. Stop	9:20 AM
Appl. Rain 0-6H	0 CM
Time to Next Rain	2 DAY
% Relative Humidity	44
Air Temperature	6.11 C
% Cloud Cover	90
Appl. Wind Strength	LIG
Wind Velocity	6.44 KPH
Wind Direction/Degrees	E
Soil Temperature	6.11 C
Soil Moisture	SLIDRY
Soil Condition (surface)	MEDIUM
Problems with Application? No	

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### Crop Stage at Application

A

Crop 1/Disc./Scale GLXMA, C, BSOY  
 Days after Emergence -18

### Target Stage at Application

A

Target 1/Disc./Scale SETFA, W, BGRM  
 Density 215 PLA/M2  
 Target 2/Disc./Scale ECHCG, W, BGRM  
 Density 36 PLA/M2  
 Target 3/Disc./Scale AMBTR, W, BDIC  
 Density 13 PLA/M2  
 Target 4/Disc./Scale CHEAL, W, BDIC  
 Density 24 PLA/M2  
 Target 5/Disc./Scale AMARE, W, BDIC  
 Density 3 PLA/M2  
 Target 6/Disc./Scale ABUTH, W, BDIC  
 Target 7/Disc./Scale POLPY, W, BDIC  
 Density 2 PLA/M2  
 Target 8/Disc./Scale HIBTR, W, BDIC  
 Density 3 PLA/M2

### Application Equipment

A

Application Method SPRAY  
 Application Placement BROSOL  
 Application Equipment BACCAI  
 Ground Speed 4.82999992 KPH  
 Propellant Type COMCO2  
 Carrier WATER  
 Water Hardness 250  
 Carrier pH 7.5  
 Appl./Slurry Volume 140.3  
 Appl./Slurry Volume Unit L/HA  
 Minimum Mix/Treatment 1.0433 L  
 Mix Overage 0 ML  
 Mix Size 1.5 L  
 Operating Pressure 3.31 BAR  
 Nozzle Type TEEJTA  
 Nozzle Size 015  
 Nozzle Spacing 45.7 CM  
 Boom Height 50 CM

	2	3	4	5	6	7
Unique Col. ID	2	3	4	5	6	7
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	1	2	3	4	5	6
SE ID	PE12AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	Estimat	estimat	estimat	estimat	estimat	estimat
Target	1, SETFA	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH	
-Disc./Scale	W, BGRM	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC
-Resistance Characteristics			HG/9			
Crop	1, GLXMA					
-Disc./Scale	C, BSOY					
Variety	AG35XF1					
-Characteristic	RR+LL+DIC					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	May-20-2022	May-20-2022	May-20-2022	May-20-2022	May-20-2022	May-20-2022
Assessment Code		A1				
Appl.-Ass.Interval	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA
Days after first Appl.	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA
Days after last Appl.	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA
Plant.-Ass.Interval	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1
Days after Emergence	4 DE-1	4 DE-1	4 DE-1	4 DE-1	4 DE-1	4 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes	P	P	P	P	P	P
Untreated	CANOPY					

Entry No.	Entry/Trt. Description	Dose Unit	Dose Unit	Appl. Code	1*	2*	3*	4*	5*	6*
1	UNTREATED			A	0-	0d	0b	0b	0b	0d

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Unique Col. ID	2	3	4	5	6	7
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	1	2	3	4	5	6
SE ID	PE12AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	Estimat	estimat	estimat	estimat	estimat	estimat
Target		1, SETFA	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH
-Disc./Scale		W, BGRM	W, BDIC	W, BDIC	W, BDIC	W, BDIC
-Resistance Characteristics			HG/9			
Crop	1, GLXMA					
-Disc./Scale	C, BSOY					
Variety	AG35XF1					
-Characteristic	RR+LL+DIC					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	May-20-2022	May-20-2022	May-20-2022	May-20-2022	May-20-2022	May-20-2022
Assessment Code		A1				
Appl.-Ass.Interval	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA
Days after first Appl.	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA
Days after last Appl.	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA	22 DAA
Plant.-Ass.Interval	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1
Days after Emergence	4 DE-1	4 DE-1	4 DE-1	4 DE-1	4 DE-1	4 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes	P	P	P	P	P	P
Untreated	CANOPY					

Entry/Trt. No.	Description	Dose	Dose Unit	Appl. Code	1*	2*	3*	4*	5*	6*
2	WARRANT	1259g	ai/ha	A	0-	98a	73a	100a	100a	78abc
	2DIMETRIC LIQUID	280.6g	ai/ha	A						
3	WARRANT	1259g	ai/ha	A	1-	92ab	69a	85a	100a	65c
4	WARRANT ULTRA HERBICIDE	1509g	ai/ha	A	0-	97a	89a	100a	100a	86abc
5	FIERCE EZ	159.7g	ai/ha	A	1-	97a	81a	100a	100a	100a
6	VALOR EZ	70.15g	ai/ha	A	1-	91ab	74a	95a	100a	95ab
7	AUTHORITY MTZ	315.2g	ai/ha	A	25-	78b	76a	95a	100a	88abc
8	WARRANT	1259g	ai/ha	A	1-	99a	84a	100a	100a	70bc
	8DIMETRIC LIQUID	280.6g	ai/ha	A						
	8XTENDIMAX VAPORGRIP	562.6g	ai/ha	A						
	8VAPORGRIP XTRA AGENT	1.462l	l/ha	A						
9	WARRANT	1259g	ai/ha	A	1-	99a	73a	100a	100a	65c
	9XTENDIMAX VAPORGRIP	562.6g	ai/ha	A						
	9VAPORGRIP XTRA AGENT	1.462l	l/ha	A						
10	WARRANT ULTRA HERBICIDE	1509g	ai/ha	A	0-	100a	94a	100a	100a	100a
	10INTACT	0.5%	v/v	A						
	10XTENDIMAX VAPORGRIP	562.6g	ai/ha	A						
	10VAPORGRIP XTRA AGENT	1.462l	l/ha	A						
11	FIERCE EZ	159.7g	ai/ha	A	0-	98a	85a	100a	100a	95ab
	11XTENDIMAX VAPORGRIP	562.6g	ai/ha	A						
	11VAPORGRIP XTRA AGENT	1.462l	l/ha	A						
	11INTACT	0.5%	v/v	A						
12	VALOR EZ	70.15g	ai/ha	A	0-	90ab	85a	100a	98a	95ab
	12XTENDIMAX VAPORGRIP	562.6g	ai/ha	A						
	12VAPORGRIP XTRA AGENT	1.462l	l/ha	A						
13	AUTHORITY MTZ	315.2g	ai/ha	A	1-	93ab	78a	100a	100a	90abc
	13XTENDIMAX VAPORGRIP	562.6g	ai/ha	A						
	13VAPORGRIP XTRA AGENT	1.462l	l/ha	A						



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 License User: Michael, Janis

	8	9	10	11	12	13			
Unique Col. ID	8	9	10	11	12	13			
Orig./Calc. Flag	O	O	O	O	O	O			
SE Group	7	8	9	10	11	12			
SE ID	EE21AD1	EE21AD1	PE12AD1	PE12AD1	PE12AD1	PE12AD1			
SE Label	estimat	estimat	Estimat	Estimat	Estimat	Estimat			
Target	8, HIBTR	7, POLPY							
-Disc./Scale	W, BDIC	W, BDIC							
-Resistance Characteristics									
Crop			1, GLXMA	1, GLXMA	1, GLXMA	1, GLXMA			
-Disc./Scale			C, BSOY	C, BSOY	C, BSOY	C, BSOY			
Variety			AG35XF1	AG35XF1	AG35XF1	AG35XF1			
-Characteristic			RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC			
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type	CONTRO	CONTRO	PHYSTU	PHYCHL	PHYNEC	PHYLMA			
Assessment Unit	%	%	%	%	%	%			
Sample Size	1	1	1	1	1	1			
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)	1	1	1	1	1	1			
# Subsamples	1	1	1	1	1	1			
Assessment Date	May-20-2022	May-20-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022			
Assessment Code						A2			
Appl.-Ass.Interval	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA			
Days after first Appl.	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA			
Days after last Appl.	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA			
Plant.-Ass.Interval	23 DP1	23 DP1	28 DP1	28 DP1	28 DP1	28 DP1			
Days after Emergence	4 DE-1	4 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1			
Decimals Printed	0	0	0	0	0	0			
ARM Action Codes	P	P	P	P	P	P			
Untreated			CANOPY	CANOPY	CANOPY	CANOPY			
Entry Entry/Trt. No. Description	Dose Unit	Dose Unit	Appl. Code	7*	8*	9*	10*	11*	12*
1 UNTREATED			A	0b	0b	0b	0-	0-	0-

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	8	9	10	11	12	13
Unique Col. ID	8	9	10	11	12	13
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	7	8	9	10	11	12
SE ID	EE21AD1	EE21AD1	PE12AD1	PE12AD1	PE12AD1	PE12AD1
SE Label	estimat	estimat	Estimat	Estimat	Estimat	Estimat
Target	8, HIBTR	7, POLPY				
-Disc./Scale	W, BDIC	W, BDIC				
-Resistance Characteristics						
Crop			1, GLXMA	1, GLXMA	1, GLXMA	1, GLXMA
-Disc./Scale			C, BSOY	C, BSOY	C, BSOY	C, BSOY
Variety			AG35XF1	AG35XF1	AG35XF1	AG35XF1
-Characteristic			RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	PHYSTU	PHYCHL	PHYNEC	PHYLMA
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	May-20-2022	May-20-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022
Assessment Code						A2
Appl.-Ass.Interval	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Days after first Appl.	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Days after last Appl.	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Plant.-Ass.Interval	23 DP1	23 DP1	28 DP1	28 DP1	28 DP1	28 DP1
Days after Emergence	4 DE-1	4 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes	P	P	P	P	P	P
Untreated			CANOPY	CANOPY	CANOPY	CANOPY

Entry/Trt. No.	Description	Dose Unit	Appl. Code	7*	8*	9*	10*	11*	12*
2	WARRANT 2DIMETRIC LIQUID	1259g ai/ha A 280.6g ai/ha A		100a	100a	8ab	0-	0-	4-
3	WARRANT	1259g ai/ha A		100a	98a	6ab	0-	0-	1-
4	WARRANT ULTRA HERBICIDE	1509g ai/ha A		90a	100a	9ab	0-	0-	5-
5	FIERCE EZ	159.7g ai/ha A		100a	100a	15a	0-	0-	7-
6	VALOR EZ	70.15g ai/ha A		100a	100a	6ab	0-	0-	3-
7	AUTHORITY MTZ	315.2g ai/ha A		95a	100a	4ab	0-	0-	1-
8	WARRANT 8DIMETRIC LIQUID	1259g ai/ha A 280.6g ai/ha A		100a	100a	7ab	0-	0-	3-
8	XTENDIMAX VAPORGRIP	562.6g ai/ha A							
8	VAPORGRIP XTRA AGENT	1.462l/ha A							
9	WARRANT 9XTENDIMAX VAPORGRIP	1259g ai/ha A 562.6g ai/ha A		100a	100a	6ab	0-	0-	3-
9	VAPORGRIP XTRA AGENT	1.462l/ha A							
10	WARRANT ULTRA HERBICIDE	1509g ai/ha A		100a	100a	10ab	0-	0-	5-
10	INTACT	0.5% v/v A							
10	XTENDIMAX VAPORGRIP	562.6g ai/ha A							
10	VAPORGRIP XTRA AGENT	1.462l/ha A							
11	FIERCE EZ	159.7g ai/ha A		100a	100a	15a	0-	0-	5-
11	XTENDIMAX VAPORGRIP	562.6g ai/ha A							
11	VAPORGRIP XTRA AGENT	1.462l/ha A							
11	INTACT	0.5% v/v A							
12	VALOR EZ	70.15g ai/ha A		100a	100a	11ab	0-	0-	4-
12	XTENDIMAX VAPORGRIP	562.6g ai/ha A							
12	VAPORGRIP XTRA AGENT	1.462l/ha A							
13	AUTHORITY MTZ	315.2g ai/ha A		100a	100a	8ab	0-	0-	0-
13	XTENDIMAX VAPORGRIP	562.6g ai/ha A							
13	VAPORGRIP XTRA AGENT	1.462l/ha A							

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Unique Col. ID	8	9	10	11	12	13			
Orig./Calc. Flag	O	O	O	O	O	O			
SE Group	7	8	9	10	11	12			
SE ID	EE21AD1	EE21AD1	PE12AD1	PE12AD1	PE12AD1	PE12AD1			
SE Label	estimat	estimat	Estimat	Estimat	Estimat	Estimat			
Target	8, HIBTR	7, POLPY							
-Disc./Scale	W, BDIC	W, BDIC							
-Resistance Characteristics									
Crop			1, GLXMA	1, GLXMA	1, GLXMA	1, GLXMA			
-Disc./Scale			C, BSOY	C, BSOY	C, BSOY	C, BSOY			
Variety			AG35XF1	AG35XF1	AG35XF1	AG35XF1			
-Characteristic			RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC			
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type	CONTRO	CONTRO	PHYSTU	PHYCHL	PHYNEC	PHYLMA			
Assessment Unit	%	%	%	%	%	%			
Sample Size	1	1	1	1	1	1			
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)	1	1	1	1	1	1			
# Subsamples	1	1	1	1	1	1			
Assessment Date	May-20-2022	May-20-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022			
Assessment Code						A2			
Appl.-Ass.Interval	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA			
Days after first Appl.	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA			
Days after last Appl.	22 DAA	22 DAA	27 DAA	27 DAA	27 DAA	27 DAA			
Plant.-Ass.Interval	23 DP1	23 DP1	28 DP1	28 DP1	28 DP1	28 DP1			
Days after Emergence	4 DE-1	4 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1			
Decimals Printed	0	0	0	0	0	0			
ARM Action Codes	P	P	P	P	P	P			
Untreated			CANOPY	CANOPY	CANOPY	CANOPY			
Entry/Trt. No.									
Entry/Trt. Description									
	Dose	Dose	Appl.	7*	8*	9*	10*	11*	12*
	Unit	Unit	Code						
14 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A		83a	75a	6ab	0-	0-	1-
14 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
LSD P=.05				11.7	19.3	6.6	.	.	4.3
Standard Deviation				8.2	13.5	4.6	0.0	0.0	3.0
CV				9.02	14.81	58.85	0.0	0.0	101.85
Grand Mean				90.4	90.9	7.8	0.0	0.0	2.9
Levene's F^				2.417	0.797	0.871	.	.	1.004
Levene's Prob(F)				0.016*	0.659	0.587	.	.	0.465
Rank X2				.	.	.	.	.	.
P(Rank X2)				.	.	.	.	.	.
Skewness^				-1.2399*	-3.8982*	-0.1274	.	.	0.6177
Kurtosis^				5.1311*	27.102*	0.1966	.	.	0.1693
Replicate F				1.251	0.929	0.674	0.000	0.000	8.775
Replicate Prob(F)				0.3050	0.4357	0.5734	1.0000	1.0000	0.0001
Treatment F				42.380	16.075	3.069	0.000	0.000	2.055
Treatment Prob(F)				0.0001	0.0001	0.0033	1.0000	1.0000	0.0415

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 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	14	15	16	17	18	19
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	13	14	15	16	17	18
SE ID	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	estimat	estimat	estimat	estimat	estimat	estimat
Target	1, SETFA	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH	8, HIBTR
-Disc./Scale	W, BGRM	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC
-Resistance Characteristics		HG/9				
Crop						
-Disc./Scale						
Variety						
-Characteristic						
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	May-25-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022
Assessment Code	A2	A2	A2	A2	A2	A2
Appl.-Ass.Interval	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Days after first Appl.	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Days after last Appl.	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Plant.-Ass.Interval	28 DP1	28 DP1	28 DP1	28 DP1	28 DP1	28 DP1
Days after Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes	P	P	P	P	P	P
Untreated						

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	13*	14*	15*	16*	17*	18*
1	UNTREATED			A	0d	0b	0c	0b	0c	0b



# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	14	15	16	17	18	19
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	13	14	15	16	17	18
SE ID	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	estimat	estimat	estimat	estimat	estimat	estimat
Target	1, SETFA	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH	8, HIBTR
-Disc./Scale	W, BGRM	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC
-Resistance Characteristics		HG/9				
Crop						
-Disc./Scale						
Variety						
-Characteristic						
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	May-25-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022
Assessment Code	A2	A2	A2	A2	A2	A2
Appl.-Ass.Interval	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Days after first Appl.	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Days after last Appl.	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA	27 DAA
Plant.-Ass.Interval	28 DP1	28 DP1	28 DP1	28 DP1	28 DP1	28 DP1
Days after Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes	P	P	P	P	P	P
Untreated						

Entry/Trt. No. Description	Dose	Dose Unit	Appl. Code	13*	14*	15*	16*	17*	18*
2 WARRANT	1259 g	ai/ha	A	100 a	45 a	100 a	100 a	100 a	100 a
2 DIMETRIC LIQUID	280.6 g	ai/ha	A						
3 WARRANT	1259 g	ai/ha	A	93 a	43 a	88 a	100 a	74 b	94 a
4 WARRANT ULTRA HERBICIDE	1509 g	ai/ha	A	98 a	75 a	100 a	100 a	88 a	99 a
5 FIERCE EZ	159.7 g	ai/ha	A	99 a	58 a	100 a	100 a	100 a	100 a
6 VALOR EZ	70.15 g	ai/ha	A	88 a	44 a	100 a	100 a	100 a	100 a
7 AUTHORITY MTZ	315.2 g	ai/ha	A	68 b	35 a	100 a	100 a	98 a	100 a
8 WARRANT	1259 g	ai/ha	A	98 a	55 a	100 a	100 a	100 a	100 a
8 DIMETRIC LIQUID	280.6 g	ai/ha	A						
8 XTENDIMAX VAPORGRIP	562.6 g	ai/ha	A						
8 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
9 WARRANT	1259 g	ai/ha	A	100 a	60 a	100 a	100 a	70 b	95 a
9 XTENDIMAX VAPORGRIP	562.6 g	ai/ha	A						
9 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
10 WARRANT ULTRA HERBICIDE	1509 g	ai/ha	A	100 a	79 a	100 a	100 a	99 a	100 a
10 INTACT	0.5 %	v/v	A						
10 XTENDIMAX VAPORGRIP	562.6 g	ai/ha	A						
10 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
11 FIERCE EZ	159.7 g	ai/ha	A	98 a	76 a	100 a	100 a	100 a	100 a
11 XTENDIMAX VAPORGRIP	562.6 g	ai/ha	A						
11 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
11 INTACT	0.5 %	v/v	A						
12 VALOR EZ	70.15 g	ai/ha	A	94 a	58 a	100 a	100 a	100 a	100 a
12 XTENDIMAX VAPORGRIP	562.6 g	ai/ha	A						
12 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
13 AUTHORITY MTZ	315.2 g	ai/ha	A	94 a	55 a	100 a	100 a	99 a	100 a
13 XTENDIMAX VAPORGRIP	562.6 g	ai/ha	A						
13 VAPORGRIP XTRA AGENT	1.462 l/ha	A							



# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	20	21	22	23	24	25	26		
Orig./Calc. Flag	O	O	O	O	O	O	O		
SE Group	19	20	21	22	23	24	25		
SE ID	EE21AD1	PE12AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1		
SE Label	estimat	Estimat	estimat	estimat	estimat	estimat	estimat		
Target	7, POLPY					1, SETFA 2, ECHCG			
-Disc./Scale	W, BDIC					W, BGRM	W, BGRM		
-Resistance Characteristics									
Crop		1, GLXMA	1, GLXMA	1, GLXMA	1, GLXMA				
-Disc./Scale		C, BSOY	C, BSOY	C, BSOY	C, BSOY				
Variety		AG35XF1	AG35XF1	AG35XF1	AG35XF1				
-Characteristic		RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC				
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT		
Assessment Type	CONTRO	PHYSTU	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO		
Assessment Unit	%	%	%	%	%	%	%		
Sample Size	1	1	1	1	1	1	1		
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT		
Sample Size (total)	1	1	1	1	1	1	1		
# Subsamples	1	1	1	1	1	1	1		
Assessment Date	May-25-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022		
Assessment Code	A2	A3	A3	A3	A3	A3	A3		
Appl.-Ass.Interval	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA		
Days after first Appl.	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA		
Days after last Appl.	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA		
Plant.-Ass.Interval	28 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1		
Days after Emergence	9 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1		
Decimals Printed	0	0	0	0	0	0	0		
ARM Action Codes	P	P				P	P		
Untreated		CANOPY							
Entry Entry/Trt. No. Description	Dose Dose Unit	Appl. Code	19*	20*	21*	22*	23*	24*	25*
1 UNTREATED		A	0c	0-	0-	0-	0b	0d	0e

# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

	20	21	22	23	24	25	26
Unique Col. ID	20	21	22	23	24	25	26
Orig./Calc. Flag	O	O	O	O	O	O	O
SE Group	19	20	21	22	23	24	25
SE ID	EE21AD1	PE12AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	estimat	Estimat	estimat	estimat	estimat	estimat	estimat
Target	7, POLPY					1, SETFA	2, ECHCG
-Disc./Scale	W, BDIC					W, BGRM	W, BGRM
-Resistance Characteristics							
Crop		1, GLXMA	1, GLXMA	1, GLXMA	1, GLXMA		
-Disc./Scale		C, BSOY	C, BSOY	C, BSOY	C, BSOY		
Variety		AG35XF1	AG35XF1	AG35XF1	AG35XF1		
-Characteristic		RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC		
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	PHYSTU	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1	1
Assessment Date	May-25-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Assessment Code	A2	A3	A3	A3	A3	A3	A3
Appl.-Ass.Interval	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Days after first Appl.	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Days after last Appl.	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Plant.-Ass.Interval	28 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1
Days after Emergence	9 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1
Decimals Printed	0	0	0	0	0	0	0
ARM Action Codes	P	P				P	P
Untreated		CANOPY					

Entry/Trt. No.	Description	Dose Unit	Appl. Code	19*	20*	21*	22*	23*	24*	25*
2	WARRANT	1259 g ai/ha	A	100a	3-	0-	0-	3b	92a	90a
	2 DIMETRIC LIQUID	280.6 g ai/ha	A							
3	WARRANT	1259 g ai/ha	A	100a	0-	0-	0-	3b	78ab	70abc
4	WARRANT ULTRA HERBICIDE	1509 g ai/ha	A	100a	3-	0-	0-	4b	92a	84ab
5	FIERCE EZ	159.7 g ai/ha	A	100a	4-	0-	0-	10a	95a	88ab
6	VALOR EZ	70.15 g ai/ha	A	100a	4-	0-	0-	10a	68b	65abc
7	AUTHORITY MTZ	315.2 g ai/ha	A	100a	0-	0-	0-	1b	43c	33d
8	WARRANT	1259 g ai/ha	A	100a	0-	0-	0-	2b	93a	91a
	8 DIMETRIC LIQUID	280.6 g ai/ha	A							
	8 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A							
	8 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
9	WARRANT	1259 g ai/ha	A	100a	0-	0-	0-	3b	89a	86ab
	9 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A							
	9 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
10	WARRANT ULTRA HERBICIDE	1509 g ai/ha	A	100a	5-	0-	0-	5b	87a	87ab
	10 INTACT	0.5% v/v	A							
	10 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A							
	10 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
11	FIERCE EZ	159.7 g ai/ha	A	100a	9-	0-	0-	11a	90a	88ab
	11 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A							
	11 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
	11 INTACT	0.5% v/v	A							
12	VALOR EZ	70.15 g ai/ha	A	100a	4-	0-	0-	10a	63b	63bc
	12 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A							
	12 VAPORGRIP XTRA AGENT	1.462 l/ha	A							
13	AUTHORITY MTZ	315.2 g ai/ha	A	100a	2-	0-	0-	1b	63b	50c
	13 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A							
	13 VAPORGRIP XTRA AGENT	1.462 l/ha	A							

# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	20	21	22	23	24	25	26			
Orig./Calc. Flag	O	O	O	O	O	O	O			
SE Group	19	20	21	22	23	24	25			
SE ID	EE21AD1	PE12AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1			
SE Label	estimat	Estimat	estimat	estimat	estimat	estimat	estimat			
Target	7, POLPY					1, SETFA 2, ECHCG				
-Disc./Scale	W, BDIC					W, BGRM	W, BGRM			
-Resistance Characteristics										
Crop		1, GLXMA	1, GLXMA	1, GLXMA	1, GLXMA					
-Disc./Scale		C, BSOY	C, BSOY	C, BSOY	C, BSOY					
Variety		AG35XF1	AG35XF1	AG35XF1	AG35XF1					
-Characteristic		RR+LL+DIC	RR+LL+DIC	RR+LL+DIC	RR+LL+DIC					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT			
Assessment Type	CONTRO	PHYSTU	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO			
Assessment Unit	%	%	%	%	%	%	%			
Sample Size	1	1	1	1	1	1	1			
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)	1	1	1	1	1	1	1			
# Subsamples	1	1	1	1	1	1	1			
Assessment Date	May-25-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022			
Assessment Code	A2	A3	A3	A3	A3	A3	A3			
Appl.-Ass.Interval	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA			
Days after first Appl.	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA			
Days after last Appl.	27 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA			
Plant.-Ass.Interval	28 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1			
Days after Emergence	9 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1			
Decimals Printed	0	0	0	0	0	0	0			
ARM Action Codes	P	P				P	P			
Untreated		CANOPY								
Entry/Trt. No. Description	Dose Unit	Dose Unit	Appl. Code	19*	20*	21*	22*	23*	24*	25*
14 XTENDIMAX VAPORGRIP	562.6 g ai/ha		A	45b	0-	0-	0-	0b	0d	0e
14 VAPORGRIP XTRA AGENT	1.462 l/ha		A							
LSD P=.05	16.1	5.7	.	.	.	.	3.4	14.4	16.6	
Standard Deviation	11.2	4.0	0.0	0.0	0.0	0.0	2.4	10.0	11.6	
CV	12.63	172.11	0.0	0.0	0.0	0.0	54.0	14.79	18.23	
Grand Mean	88.9	2.3	0.0	0.0	0.0	0.0	4.4	67.9	63.8	
Levene's F^	4.747	1.383	.	.	.	.	1.041	1.387	0.827	
Levene's Prob(F)	0.00*	0.208	.	.	.	.	0.433	0.206	0.631	
Rank X2	.	.	.	.	.	.	.	.	.	
P(Rank X2)	.	.	.	.	.	.	.	.	.	
Skewness^	1.2766*	0.3614	.	.	.	.	0.3687	-0.6532*	-0.0912	
Kurtosis^	21.8883*	1.7815*	.	.	.	.	0.4111	2.8285*	-0.7156	
Replicate F	1.000	0.704	0.000	0.000	0.000	0.000	3.406	8.224	6.354	
Replicate Prob(F)	0.4031	0.5554	1.0000	1.0000	1.0000	1.0000	0.0269	0.0002	0.0013	
Treatment F	27.575	1.769	0.000	0.000	0.000	0.000	11.770	42.200	30.335	
Treatment Prob(F)	0.0001	0.0843	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001	

# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	27	28	29	30	31	32
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	26	27	28	29	30	31
SE ID	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	estimat	estimat	estimat	estimat	estimat	estimat
Target	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH	8, HIBTR	7, POLPY
-Disc./Scale	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC
-Resistance Characteristics	HG/9					
Crop						
-Disc./Scale						
Variety						
-Characteristic						
Part Rated						
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Assessment Code	A3	A3	A3	A3	A3	A3
Appl.-Ass.Interval	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Days after first Appl.	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Days after last Appl.	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Plant.-Ass.Interval	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1
Days after Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes						
Untreated						

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	26*	27*	28*	29*	30*	31*
1	UNTREATED			A	0f	0d	0c	0d	0d	0c

# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	27	28	29	30	31	32
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	26	27	28	29	30	31
SE ID	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1
SE Label	estimat	estimat	estimat	estimat	estimat	estimat
Target	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH	8, HIBTR	7, POLPY
-Disc./Scale	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC
-Resistance Characteristics	HG/9					
Crop						
-Disc./Scale						
Variety						
-Characteristic						
Part Rated						
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Assessment Code	A3	A3	A3	A3	A3	A3
Appl.-Ass.Interval	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Days after first Appl.	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Days after last Appl.	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA
Plant.-Ass.Interval	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1
Days after Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes						
Untreated						

Entry/Trt. No.	Description	Dose Unit	Appl. Code	26*	27*	28*	29*	30*	31*
2	WARRANT 2 DIMETRIC LIQUID	1259 g ai/ha 280.6 g ai/ha	A A	10 def	99 a	100 a	99 a	100 a	100 a
3	WARRANT	1259 g ai/ha	A	0 f	55 b	100 a	48 bc	61 b	88 a
4	WARRANT ULTRA HERBICIDE	1509 g ai/ha	A	50 ab	100 a	100 a	87 a	93 a	100 a
5	FIERCE EZ	159.7 g ai/ha	A	30 cd	100 a	100 a	100 a	100 a	100 a
6	VALOR EZ	70.15 g ai/ha	A	5 ef	90 a	100 a	100 a	100 a	100 a
7	AUTHORITY MTZ	315.2 g ai/ha	A	0 f	98 a	100 a	93 a	95 a	100 a
8	WARRANT 8 DIMETRIC LIQUID 8 XTENDIMAX VAPORGRIP 8 VAPORGRIP XTRA AGENT	1259 g ai/ha 280.6 g ai/ha 562.6 g ai/ha 1.462 l/ha	A A A A	25 cde	100 a	100 a	100 a	100 a	100 a
9	WARRANT 9 XTENDIMAX VAPORGRIP 9 VAPORGRIP XTRA AGENT	1259 g ai/ha 562.6 g ai/ha 1.462 l/ha	A A A	20 c-f	83 a	100 a	63 b	95 a	95 a
10	WARRANT ULTRA HERBICIDE 10 INTACT 10 XTENDIMAX VAPORGRIP 10 VAPORGRIP XTRA AGENT	1509 g ai/ha 0.5 % v/v 562.6 g ai/ha 1.462 l/ha	A A A A	58 a	100 a	100 a	98 a	100 a	100 a
11	FIERCE EZ 11 XTENDIMAX VAPORGRIP 11 VAPORGRIP XTRA AGENT 11 INTACT	159.7 g ai/ha 562.6 g ai/ha 1.462 l/ha 0.5 % v/v	A A A A	40 bc	100 a	100 a	100 a	100 a	100 a
12	VALOR EZ 12 XTENDIMAX VAPORGRIP 12 VAPORGRIP XTRA AGENT	70.15 g ai/ha 562.6 g ai/ha 1.462 l/ha	A A A	23 c-f	100 a	100 a	98 a	98 a	100 a
13	AUTHORITY MTZ 13 XTENDIMAX VAPORGRIP 13 VAPORGRIP XTRA AGENT	315.2 g ai/ha 562.6 g ai/ha 1.462 l/ha	A A A	5 ef	100 a	100 a	98 a	98 a	100 a

# The Ohio State University

## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
 Project ID: MD-NATIONAL  
 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

Unique Col. ID	27	28	29	30	31	32			
Orig./Calc. Flag	O	O	O	O	O	O			
SE Group	26	27	28	29	30	31			
SE ID	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1	EE21AD1			
SE Label	estimat	estimat	estimat	estimat	estimat	estimat			
Target	3, AMBTR	4, CHEAL	5, AMARE	6, ABUTH	8, HIBTR	7, POLPY			
-Disc./Scale	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC	W, BDIC			
-Resistance Characteristics	HG/9								
Crop									
-Disc./Scale									
Variety									
-Characteristic									
Part Rated									
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Assessment Unit	%	%	%	%	%	%			
Sample Size	1	1	1	1	1	1			
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)	1	1	1	1	1	1			
# Subsamples	1	1	1	1	1	1			
Assessment Date	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022			
Assessment Code	A3	A3	A3	A3	A3	A3			
Appl.-Ass.Interval	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA			
Days after first Appl.	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA			
Days after last Appl.	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA	40 DAA			
Plant.-Ass.Interval	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1	41 DP1			
Days after Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1			
Decimals Printed	0	0	0	0	0	0			
ARM Action Codes									
Untreated									
Entry/Trt. No.									
Entry/Trt. Description									
	Dose	Dose	Appl.	26*	27*	28*	29*	30*	31*
	Unit	Unit	Code						
14 XTENDIMAX VAPORGRIP	562.6 g ai/ha	A	A	0f	25c	30b	30c	30c	30b
14 VAPORGRIP XTRA AGENT	1.462 l/ha	A	A						
LSD P=.05	14.5	14.6	13.6	17.6	19.3	17.4			
Standard Deviation	10.1	10.2	9.5	12.3	13.5	12.2			
CV	53.6	12.48	10.83	15.5	16.05	14.06			
Grand Mean	18.9	82.0	87.9	79.3	83.8	86.6			
Levene's F^	1.673	9.488	28.484	9.282	5.511	4.365			
Levene's Prob(F)	0.103	0.00*	0.00*	0.00*	0.00*	0.00*			
Rank X2	.	.	.	.	.	.			
P(Rank X2)	.	.	.	.	.	.			
Skewness^	-0.0657	-0.1842	0.5257	0.2477	0.5088	-0.5145			
Kurtosis^	-0.6542	3.2442*	12.7332*	4.4022*	5.7814*	7.8885*			
Replicate F	5.297	1.526	1.000	0.396	1.008	0.429			
Replicate Prob(F)	0.0037	0.2230	0.4031	0.7567	0.4000	0.7330			
Treatment F	14.861	39.773	43.652	27.127	21.451	26.079			
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			



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## Dicamba Paired Soil Residual/Soybean/PRE/Efficacy and Phyto

Trial ID: HN22USADHDTRSX TD Number: LOCALCREATED Protocol Edition No.: 1.01  
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 Project Number(s): 0% PMBRACRE % 100% PMBRACRE  
 Protocol Developer: Hammer, Devin  
 License User: Michael, Janis

SE ID

PE12AD1 = Estimation % phytotoxicity (PHYGEN) (symptoms describe in co  
 EE21AD1 = estimation, % control, in untreated no value or 0

Target

- 1, SETFA, W, BGRM, , , = Setaria faberi HERRM.
- 3, AMBTR, W, BDIC, , , HG/9, = Ambrosia trifida L.
- 4, CHEAL, W, BDIC, , , = Chenopodium album L.
- 5, AMARE, W, BDIC, , , = Amaranthus retroflexus L.
- 6, ABUTH, W, BDIC, , , = Abutilon theophrasti MEDIK.
- 8, HIBTR, W, BDIC, , , = Hibiscus trionum L.
- 7, POLPY, W, BDIC, , , = Polygonum pensylvanicum L.
- 2, ECHCG, W, BGRM, , , = Echinochloa crus-galli (L.) P.

Crop

- 1, GLXMA, C, BSOY, AG35XF1, RR+LL+DIC = Glycine max (L.) MERR.

Part Rated

PLANT = Plant

Assessment Type

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

Assessment Unit

% = Percent

Sample Size Unit

PLOT = Plot

Plant.-Ass.Interval

- 23 DP1 = 1 GLXMA Apr-27-2022  
 28 DP1 = 1 GLXMA Apr-27-2022  
 41 DP1 = 1 GLXMA Apr-27-2022

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. control or injury)

Untreated

CANOPY = Canopy