

The Ohio State University

PowerMAX tankmix with Enlist/Bareground/Grass Efficacy

Trial ID: HN21USADHGTRS1 TD Number: LOCALCREATED Protocol Edition No.: 1.06
 Project ID: MD-NATIONAL
 Project Number(s): 0 % PM_BROAD_ACRE % 100 % PM_BROAD_ACRE
 Protocol Developer: Hammer, Devin
 License User: Michael, Janis

General Trial Information

Trial Initiation Date: Jun-14-2021 **Protocol Edition No.:** 1.06
Trial Status: A **Trial Status Date:** Mar-31-2021
Last change done by: Dr. Mark M. Loux **Date of last export:** Mar-31-2021 11:28 AM
External Trial: X

Please verify that the crop/harvest have been destroyed.

Destroyed?	Explanation	Method	Destruction Date
YES	Mowed off plot area even though it was bare ground	MOWED	Jul-22-2021

1

TD Number(s): LOCALCREATED

License User: Michael, Janis
Department: Bayer CropScience LP

Protocol Developer: Hammer, Devin
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 G-6
City: South Charleston
Postal Code: 45368
County: Clark
State/Province: OH
Country: USA

Latitude, Longitude of Trial Corners

Lower Left		
Latitude: 39.8597		
Longitude: -83.67713		
No. of Replicates: 3	No. of Treatments: 14	No. of Plots: 42
Plot Width: 2.033 m	Plot Length: 9.14 m	
Plot Area: 18.59 m ²		
Site Type: FIELD	Test Type: EXTER	
Tillage Type: CONTIL	Trial Design: RACOBL	

Previous Crops and Agricultural Chemicals

Previous Crops	Year
ZEAMX	C BCOR 2020

Soil Description

Soil Name: Kokomo
Texture: SICL **% Sand:** 32 **% Silt:** 53
 % Clay: 15
% Organic Matter: 2.2
pH: 5.9 **Cation Exchange Capacity:** 14
Fertility Level: G
Soil Drainage: G

Crop Description

Crop 1: YSOIL **Discipline:** C **Crop Scale:** DESC **Use Group:** YZ
 SOIL
 Barground

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Target Description

- Target 1:** HORVS **Discipline:** W **Target Scale:** BCER
 Hordeum vulgare (spring)
 Spring barley
 Artificial Target Population: X
 Artificial Establishment Date: May-28-2021
- Target 2:** SETFA **Discipline:** W **Target Scale:** BGRM
 Setaria faberi HERRM.
 Foxtail, giant
- Target 3:** ECHCG **Discipline:** W **Target Scale:** BGRM
 Echinochloa crus-galli (L.) P.
 Barnyardgrass, common
- Target 4:** AMBTR **Discipline:** W **Target Scale:** BDIC
 Ambrosia trifida L.
 Ragweed, giant
- Target 5:** CHEAL **Discipline:** W **Target Scale:** BDIC
 Chenopodium album L.
 Lambsquarters, common
- Target 6:** AMARE **Discipline:** W **Target Scale:** BDIC
 Amaranthus retroflexus L.
 Redroot pigweed
- Target 7:** IPOHE **Discipline:** W **Target Scale:** BDIC
 Ipomoea hederacea (L.) JACQ.
 Morningglory, ivyleaf

Application Description

A

Application Date	Jun-14-2021
Application Timing	NCPOPE
Appl.Start - Time of Day	9:10 AM
Appl. Stop	9:30 AM
Appl. Rain 0-6H	0 CM
Time b. Appl./first Rain	4 DAY
% Relative Humidity	55
Air Temperature	25.56 C
% Cloud Cover	45
Appl. Wind Strength	CLM
Wind Velocity	1.61 KPH
Wind Direction/Degrees	WSW
Plant Condition	NORMAL
Soil Temperature	21.67 C
Soil Moisture	DRY
Soil Condition (surface)	MEDIUM
Problems with Application?	No

Crop Stage at Application

A
Crop 1/Disc./Scale YSOIL C DESC

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Target Stage at Application

	A
Target 1/Disc./Scale	HORVS W BCER
Stage Majority/Percent	12 90
Stage Minimum/Percent	11 10
Stage Maximum/Percent	12 90
Majority Height/Unit	12.7 CM
Min/Max (Unit=Height Unit)	10.16 15.24
Density	30 PLA/M2
Target 2/Disc./Scale	SETFA W BGRM
Stage Majority/Percent	12 80
Stage Minimum/Percent	12 80
Stage Maximum/Percent	13 20
Majority Height/Unit	17.78 CM
Min/Max (Unit=Height Unit)	13 30
Density	256 PLA/M2
Target 3/Disc./Scale	ECHCG W BGRM
Stage Majority/Percent	12 80
Stage Minimum/Percent	12 80
Stage Maximum/Percent	13 20
Majority Height/Unit	17.78 CM
Min/Max (Unit=Height Unit)	13 25
Density	75 PLA/M2
Target 4/Disc./Scale	AMBTR W BDIC
Stage Majority/Percent	19 100
Stage Minimum/Percent	19 100
Stage Maximum/Percent	19 100
Majority Height/Unit	20.32 CM
Min/Max (Unit=Height Unit)	13 30
Density	23 PLA/M2
Target 5/Disc./Scale	CHEAL W BDIC
Stage Majority/Percent	19 100
Stage Minimum/Percent	19 100
Stage Maximum/Percent	19 100
Majority Diameter/Unit	10.16 CM
Majority Height/Unit	12.7 CM
Min/Max (Unit=Height Unit)	11 18
Density	13 PLA/M2
Target 6/Disc./Scale	AMARE W BDIC
Stage Majority/Percent	14 90
Stage Minimum/Percent	12 10
Stage Maximum/Percent	14 90
Majority Diameter/Unit	5.08 CM
Majority Height/Unit	7.62 CM
Min/Max (Unit=Height Unit)	2.54 7.62
Density	3 PLA/M2
Target 7/Disc./Scale	IPOHE W BDIC
Stage Majority/Percent	12 90
Stage Minimum/Percent	12 90
Stage Maximum/Percent	13 10
Majority Diameter/Unit	3.81 CM
Majority Height/Unit	5 CM
Min/Max (Unit=Height Unit)	3 5
Density	1 PLA/M2

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Application Equipment

Application Method A
Application Placement SPRAY
Application Equipment BROFOL
Ground Speed BACSPR
 4.82999992 KPH
Propellant Type COMCO2
Carrier WATER
Water Hardness 280
Carrier pH 7.8
Appl./Slurry Volume 140.3
Appl./Slurry Volume Unit L/HA
Minimum Mix/Treatment 0.7825 L
Mix Size 1 L
Operating Pressure 3.172 BAR
Nozzle Type AI XR
Nozzle Size 015
Nozzle Spacing 45.7 CM
Boom Height 45.7000008 CM

Unique Col. ID	3	4	14	5
Orig./Calc. Flag	O	O	O	O
SE Group	1	2	2	3
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,
Target	1 HORVS	2 SETFA	3 ECHCG	4 AMBTR
-Disc./Scale	W BCER	W BGRM	W BGRM	W BDIC
Part Rated	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%
Sample Size	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1
# Subsamples	1	1	1	1
Assessment Date	Jun-28-202	Jun-28-2021	Jun-28-202	Jun-28-202
Assessment Code	A1	A1	A1	A1
Appl.-Ass.Interval	14 DAA	14 DAA	14 DAA	14 DAA
Days after first Appl.	14 DAA	14 DAA	14 DAA	14 DAA
Days after last Appl.	14 DAA	14 DAA	14 DAA	14 DAA
Decimals Printed	0	0	0	0
ARM Action Codes	P EC	P EC	AA P EC	AA P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY

Entry/Trt.	Trans. Dose	Trans. Dose	Appl. Unit Code	1*	2*	3*	4*
No. Description				dAA	dAA	dAA	dAA
1 UNTREATED			A	0	0	0	0
2 ROUNDUP POWER MAX	32 oz/a		A	100 -	100 -	100 a	53 d
N-PAK AMS LIQUID			A				
3 ROUNDUP POWERMAX 3	30 oz/a		A	100 -	100 -	100 ab	65 cd
N-PAK AMS LIQUID			A				
4 DURANGO DMA	36 oz/a		A	100 -	100 -	97 abc	57 d
N-PAK AMS LIQUID			A				
5 XTENDIMAX VAPORGRIP	22 oz/a		A	100 -	100 -	99 abc	77 bcd
CLASS ACT RIDION			A				
INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A				
MON 51817	20 oz/a		A				
ROUNDUP POWERMAX 3	30 oz/a		A				
6 ENLIST ONE	1.5 pt/a		A	100 -	100 -	100 a	95 ab
N-PAK AMS LIQUID			A				
ROUNDUP POWERMAX 3	30 oz/a		A				
7 DURANGO DMA	36 oz/a		A	100 -	100 -	100 a	89 abc
N-PAK AMS LIQUID			A				
ENLIST ONE	1.5 pt/a		A				
8 ENLIST ONE	2 pt/a		A	100 -	100 -	98 abc	97 ab
N-PAK AMS LIQUID			A				
ROUNDUP POWERMAX 3	30 oz/a		A				
9 DURANGO DMA	36 oz/a		A	100 -	100 -	98 abc	99 a
N-PAK AMS LIQUID			A				
ENLIST ONE	2 pt/a		A				

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Unique Col. ID	3	4	14	5				
Orig./Calc. Flag	O	O	O	O				
SE Group	1	2	2	3				
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3				
SE Label	1 weed,	1 weed,	1 weed,	1 weed,				
Target	1 HORVS	2 SETFA	3 ECHCG	4 AMBTR				
-Disc./Scale	W BCER	W BGRM	W BGRM	W BDIC				
Part Rated	PLANT	PLANT	PLANT	PLANT				
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO				
Assessment Unit	%	%	%	%				
Sample Size	1	1	1	1				
Sample Size Unit	PLOT	PLOT	PLOT	PLOT				
Sample Size (total)	1	1	1	1				
# Subsamples	1	1	1	1				
Assessment Date	Jun-28-202	Jun-28-2021	Jun-28-202	Jun-28-202				
Assessment Code	1	1	1	1				
Appl.-Ass.Interval	A1	A1	A1	A1				
Days after first Appl.	14 DAA	14 DAA	14 DAA	14 DAA				
Days after last Appl.	14 DAA	14 DAA	14 DAA	14 DAA				
Decimals Printed	0	0	0	0				
ARM Action Codes	P EC	P EC	AA P EC	AA P EC				
Untreated	CANOPY	CANOPY	CANOPY	CANOPY				
Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	1*	2*	3*	4*
10	ENLIST DUO	3.5 pt/a		A	100 -	100 -	85 bcd	94 ab
	N-PAK AMS LIQUID			A				
11	LIBERTY 280	32 oz/a		A	100 -	100 -	70 d	90 abc
	ENLIST ONE	1.5 pt/a		A				
	N-PAK AMS LIQUID			A				
	ROUNDUP POWERMAX 3	30 oz/a		A				
12	DURANGO DMA	36 oz/a		A	100 -	100 -	72 d	98 a
	LIBERTY 280	32 oz/a		A				
	ENLIST ONE	1.5 pt/a		A				
	N-PAK AMS LIQUID			A				
13	ROUNDUP POWERMAX 3	30 oz/a		A	100 -	100 -	92 a-d	81 a-d
	MON 119144	16 oz/a		A				
	CLASS ACT RIDION			A				
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A				
	MON 51817	20 oz/a		A				
14	ROUNDUP POWERMAX 3	30 oz/a		A	100 -	100 -	84 cd	95 ab
	LIBERTY 280	32 oz/a		A				
	N-PAK AMS LIQUID			A				
	LSD P=.05				.	.	4.9 - 17.8	9.3 - 20.7
	Standard Deviation				0.0	0.0	7.6t	7.4t
	CV				0.0	0.0	9.84t	10.79t
	Levene's F^				.	.	0.878	0.521
	Levene's Prob(F)				.	.	0.578	0.882
	Skewness^				.	.	-0.3492	-0.8112*
	Kurtosis^				.	.	0.5987	2.1756*
	Replicate F				0.000	0.000	4.283	0.241
	Replicate Prob(F)				1.0000	1.0000	0.0257	0.7876
	Treatment F				0.000	0.000	7.316	8.596
	Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001

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Unique Col. ID	6	7	8	9	10			
Orig./Calc. Flag	O	O	O	O	O			
SE Group	4	5	6	7	8			
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3			
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,			
Target	5 CHEAL	6 AMARE	1 HORVS	2 SETFA	3 ECHCG			
-Disc./Scale	W BDIC	W BDIC	W BCER	W BGRM	W BGRM			
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	Jul-6-202	Jul-6-2021	Jul-6-2021			
Assessment Code	A1	A1	A2	A2	A2			
Appl.-Ass.Interval	14 DAA	14 DAA	22 DAA	22 DAA	22 DAA			
Days after first Appl.	14 DAA	14 DAA	22 DAA	22 DAA	22 DAA			
Days after last Appl.	14 DAA	14 DAA	22 DAA	22 DAA	22 DAA			
Decimals Printed	0	0	0	0	0			
ARM Action Codes	P EC	AA P EC	P EC	P EC	AA P EC			
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry Entry/Trt.	Trans. Dose	Trans. Dose	Appl. Unit Code	5*	6*	7*	8*	9*
No.	Description				dAA			dAA
1	UNTREATED		A	0	0	0	0	0
2	ROUNDUP POWER MAX N-PAK AMS LIQUID	32 oz/a	A	100 -	100 a	100 a	98 -	94 ab
3	ROUNDUP POWERMAX 3 N-PAK AMS LIQUID	30 oz/a	A	98 -	100 ab	100 a	100 -	99 a
4	DURANGO DMA N-PAK AMS LIQUID	36 oz/a	A	98 -	97 abc	100 a	100 -	99 a
5	XTENDIMAX VAPORGRIP CLASS ACT RIDION INTACT DRIFT CONTROL & FOLIAR AGENT (DFR) MON 51817	22 oz/a	A	100 -	99 abc	100 a	98 -	83 abc
	ROUNDUP POWERMAX 3	30 oz/a	A					
6	ENLIST ONE N-PAK AMS LIQUID	1.5 pt/a	A	100 -	100 a	100 a	98 -	99 a
	ROUNDUP POWERMAX 3	30 oz/a	A					
7	DURANGO DMA N-PAK AMS LIQUID	36 oz/a	A	98 -	100 a	100 a	100 -	95 ab
	ENLIST ONE	1.5 pt/a	A					
8	ENLIST ONE N-PAK AMS LIQUID	2 pt/a	A	100 -	98 abc	100 a	100 -	95 ab
	ROUNDUP POWERMAX 3	30 oz/a	A					
9	DURANGO DMA N-PAK AMS LIQUID	36 oz/a	A	100 -	98 abc	100 a	100 -	97 ab
	ENLIST ONE	2 pt/a	A					

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Unique Col. ID	6	7	8	9	10				
Orig./Calc. Flag	O	O	O	O	O				
SE Group	4	5	6	7	8				
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3				
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,				
Target	5 CHEAL	6 AMARE	1 HORVS	2 SETFA	3 ECHCG				
-Disc./Scale	W BDIC	W BDIC	W BCER	W BGRM	W BGRM				
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	Jul-6-202	Jul-6-2021	Jul-6-2021				
Assessment Code	A1	A1	A2	A2	A2				
Appl.-Ass.Interval	14 DAA	14 DAA	22 DAA	22 DAA	22 DAA				
Days after first Appl.	14 DAA	14 DAA	22 DAA	22 DAA	22 DAA				
Days after last Appl.	14 DAA	14 DAA	22 DAA	22 DAA	22 DAA				
Decimals Printed	0	0	0	0	0				
ARM Action Codes	P EC	AA P EC	P EC	P EC	AA P EC				
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY				
Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	5*	6*	7*	8*	9*
10	ENLIST DUO	3.5 pt/a		A	100 -	85 bcd	100 a	100 -	81 abc
	N-PAK AMS LIQUID			A					
11	LIBERTY 280	32 oz/a		A	93 -	70 d	97 b	97 -	62 c
	ENLIST ONE	1.5 pt/a		A					
	N-PAK AMS LIQUID			A					
	ROUNDUP POWERMAX 3	30 oz/a		A					
12	DURANGO DMA	36 oz/a		A	100 -	72 d	100 a	97 -	65 c
	LIBERTY 280	32 oz/a		A					
	ENLIST ONE	1.5 pt/a		A					
	N-PAK AMS LIQUID			A					
13	ROUNDUP POWERMAX 3	30 oz/a		A	100 -	92 a-d	100 a	98 -	83 abc
	MON 119144	16 oz/a		A					
	CLASS ACT RIDION			A					
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A					
	MON 51817	20 oz/a		A					
14	ROUNDUP POWERMAX 3	30 oz/a		A	98 -	84 cd	100 a	98 -	77 bc
	LIBERTY 280	32 oz/a		A					
	N-PAK AMS LIQUID			A					
LSD P=.05					5.7	4.9 - 17.8	1.4	3.6	8.3 - 18.4
Standard Deviation					3.4	7.6t	0.8	2.1	7.0t
CV					3.44	9.84t	0.81	2.14	9.86t
Levene's F^					0.653	0.878	0.785	0.516	0.545
Levene's Prob(F)					0.778	0.578	0.661	0.885	0.865
Skewness^					-1.6785*	-0.3492	2.1936*	-0.4145	-0.5396
Kurtosis^					9.0122*	0.5987	14.2962*	-0.0622	0.7153
Replicate F					2.378	4.283	1.212	0.626	2.258
Replicate Prob(F)					0.1142	0.0257	0.3153	0.5430	0.1264
Treatment F					0.903	7.316	3.883	1.115	7.694
Treatment Prob(F)					0.5570	0.0001	0.0023	0.3929	0.0001

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Unique Col. ID	11	12	13	15	16			
Orig./Calc. Flag	O	O	O	O	O			
SE Group	9	10	11	12	13			
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3			
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,			
Target	4 AMBTR	6 AMARE	5 CHEAL	1 HORVS	2 SETFA			
-Disc./Scale	W BDIC	W BDIC	W BDIC	W BCER	W BGRM			
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-6-202	Jul-6-202	Jul-6-2021	Jul-12-202	Jul-12-202			
Assessment Code	A2	A2	A2	A3	A3			
Appl.-Ass.Interval	22 DAA	22 DAA	22 DAA	28 DAA	28 DAA			
Days after first Appl.	22 DAA	22 DAA	22 DAA	28 DAA	28 DAA			
Days after last Appl.	22 DAA	22 DAA	22 DAA	28 DAA	28 DAA			
Decimals Printed	0	0	0	0	0			
ARM Action Codes	P EC	P EC	P EC	P EC	AA P EC			
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY			
Entry Entry/Trt.		Trans. Trans.	Appl.	10*	11*	12*	13*	14*
No. Description		Dose Dose	Unit Code					dAA

1 UNTREATED			A	0	0	0	0	0
2 ROUNDUP POWER MAX	32 oz/a		A	65 b	87 -	63 abc	100 -	89 -
N-PAK AMS LIQUID			A					
3 ROUNDUP POWERMAX 3	30 oz/a		A	70 ab	77 -	60 bc	100 -	87 -
N-PAK AMS LIQUID			A					
4 DURANGO DMA	36 oz/a		A	63 b	80 -	60 bc	100 -	89 -
N-PAK AMS LIQUID			A					
5 XTENDIMAX VAPORGRIP	22 oz/a		A	88 a	87 -	84 ab	100 -	87 -
CLASS ACT RIDION			A					
INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A					
MON 51817	20 oz/a		A					
ROUNDUP POWERMAX 3	30 oz/a		A					
6 ENLIST ONE	1.5 pt/a		A	93 a	88 -	73 abc	100 -	89 -
N-PAK AMS LIQUID			A					
ROUNDUP POWERMAX 3	30 oz/a		A					
7 DURANGO DMA	36 oz/a		A	89 a	80 -	73 abc	100 -	87 -
N-PAK AMS LIQUID			A					
ENLIST ONE	1.5 pt/a		A					
8 ENLIST ONE	2 pt/a		A	92 a	90 -	77 abc	100 -	92 -
N-PAK AMS LIQUID			A					
ROUNDUP POWERMAX 3	30 oz/a		A					
9 DURANGO DMA	36 oz/a		A	86 ab	85 -	82 ab	100 -	89 -
N-PAK AMS LIQUID			A					
ENLIST ONE	2 pt/a		A					

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

Unique Col. ID	11	12	13	15	16
Orig./Calc. Flag	O	O	O	O	O
SE Group	9	10	11	12	13
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,
Target	4 AMBTR	6 AMARE	5 CHEAL	1 HORVS	2 SETFA
-Disc./Scale	W BDIC	W BDIC	W BDIC	W BCER	W BGRM
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-6-202	Jul-6-202	Jul-6-2021	Jul-12-202	Jul-12-202
Assessment Code	A2	A2	A2	A3	A3
Appl.-Ass.Interval	22 DAA	22 DAA	22 DAA	28 DAA	28 DAA
Days after first Appl.	22 DAA	22 DAA	22 DAA	28 DAA	28 DAA
Days after last Appl.	22 DAA	22 DAA	22 DAA	28 DAA	28 DAA
Decimals Printed	0	0	0	0	0
ARM Action Codes	P EC	P EC	P EC	P EC	AA P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	10*	11*	12*	13*	14* dAA
10	ENLIST DUO	3.5 pt/a		A	85 ab	80 -	80 abc	100 -	85 -
	N-PAK AMS LIQUID			A					
11	LIBERTY 280	32 oz/a		A	81 ab	70 -	67 abc	100 -	75 -
	ENLIST ONE	1.5 pt/a		A					
	N-PAK AMS LIQUID			A					
	ROUNDUP POWERMAX 3	30 oz/a		A					
12	DURANGO DMA	36 oz/a		A	86 ab	78 -	80 abc	100 -	82 -
	LIBERTY 280	32 oz/a		A					
	ENLIST ONE	1.5 pt/a		A					
	N-PAK AMS LIQUID			A					
13	ROUNDUP POWERMAX 3	30 oz/a		A	91 a	100 -	100 a	100 -	82 -
	MON 119144	16 oz/a		A					
	CLASS ACT RIDION			A					
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A					
	MON 51817	20 oz/a		A					
14	ROUNDUP POWERMAX 3	30 oz/a		A	77 ab	70 -	43 c	100 -	80 -
	LIBERTY 280	32 oz/a		A					
	N-PAK AMS LIQUID			A					
	LSD P=.05				14.4	16.6	22.2	.	11.2 - 12.7
	Standard Deviation				8.5	9.9	13.2	0.0	5.6t
	CV				10.41	11.97	18.21	0.0	8.28t
	Levene's F^				0.676	0.481	0.633	.	0.698
	Levene's Prob(F)				0.758	0.908	0.795	.	0.739
	Skewness^				-0.9165*	-0.1053	0.1536	.	-0.5003
	Kurtosis^				1.8629*	-0.1758	0.7948	.	1.0439
	Replicate F				3.482	9.505	5.105	0.000	6.267
	Replicate Prob(F)				0.0470	0.0009	0.0142	1.0000	0.0065
	Treatment F				4.271	2.078	3.408	0.000	1.314
	Treatment Prob(F)				0.0012	0.0615	0.0051	1.0000	0.2735

The Ohio State University

PowerMAX tankmix with Enlist/Bareground/Grass Efficacy

Trial ID: HN21USADHGTRS1 TD Number: LOCALCREATED Protocol Edition No.: 1.06
 Project ID: MD-NATIONAL
 Project Number(s): 0 % PM_BROAD_ACRE % 100 % PM_BROAD_ACRE
 Protocol Developer: Hammer, Devin
 License User: Michael, Janis

Unique Col. ID	17	18	19	20			
Orig./Calc. Flag	O	O	O	O			
SE Group	14	15	16	17			
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3			
SE Label	1 weed,	1 weed,	1 weed,	1 weed,			
Target	3 ECHCG	4 AMBTR	6 AMARE	5 CHEAL			
-Disc./Scale	W BGRM	W BDIC	W BDIC	W BDIC			
Part Rated	PLANT	PLANT	PLANT	PLANT			
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO			
Assessment Unit	%	%	%	%			
Sample Size	1	1	1	1			
Sample Size Unit	PLOT	PLOT	PLOT	PLOT			
Sample Size (total)	1	1	1	1			
# Subsamples	1	1	1	1			
Assessment Date	Jul-12-2021	Jul-12-202	Jul-12-2021	Jul-12-202			
Assessment Code	A3	A3	A3	A3			
Appl.-Ass.Interval	28 DAA	28 DAA	28 DAA	28 DAA			
Days after first Appl.	28 DAA	28 DAA	28 DAA	28 DAA			
Days after last Appl.	28 DAA	28 DAA	28 DAA	28 DAA			
Decimals Printed	0	0	0	0			
ARM Action Codes	P EC	P EC	P EC	P EC			
Untreated	CANOPY	CANOPY	CANOPY	CANOPY			
Entry Entry/Trt.	Trans. Dose	Trans. Dose	Appl. Unit Code	15*	16*	17*	18*
1 UNTREATED			A	0	0	0	0
2 ROUNDUP POWER MAX	32 oz/a		A	84 a	60 c	75 -	60 abc
N-PAK AMS LIQUID			A				
3 ROUNDUP POWERMAX 3	30 oz/a		A	80 a	68 abc	70 -	63 abc
N-PAK AMS LIQUID			A				
4 DURANGO DMA	36 oz/a		A	78 a	62 bc	73 -	57 bc
N-PAK AMS LIQUID			A				
5 XTENDIMAX VAPORGRIP	22 oz/a		A	67 ab	85 a	78 -	83 a
CLASS ACT RIDION			A				
INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A				
MON 51817	20 oz/a		A				
ROUNDUP POWERMAX 3	30 oz/a		A				
6 ENLIST ONE	1.5 pt/a		A	83 a	82 a	67 -	73 ab
N-PAK AMS LIQUID			A				
ROUNDUP POWERMAX 3	30 oz/a		A				
7 DURANGO DMA	36 oz/a		A	80 a	76 abc	71 -	71 ab
N-PAK AMS LIQUID			A				
ENLIST ONE	1.5 pt/a		A				
8 ENLIST ONE	2 pt/a		A	83 a	82 a	75 -	75 ab
N-PAK AMS LIQUID			A				
ROUNDUP POWERMAX 3	30 oz/a		A				
9 DURANGO DMA	36 oz/a		A	81 a	81 a	72 -	73 ab
N-PAK AMS LIQUID			A				
ENLIST ONE	2 pt/a		A				

The Ohio State University

PowerMAX tankmix with Enlist/Bareground/Grass Efficacy

Trial ID: HN21USADHGTRS1 TD Number: LOCALCREATED Protocol Edition No.: 1.06
 Project ID: MD-NATIONAL
 Project Number(s): 0 % PM_BROAD_ACRE % 100 % PM_BROAD_ACRE
 Protocol Developer: Hammer, Devin
 License User: Michael, Janis

Unique Col. ID	17	18	19	20				
Orig./Calc. Flag	O	O	O	O				
SE Group	14	15	16	17				
SE ID	EE22AD3	EE22AD3	EE22AD3	EE22AD3				
SE Label	1 weed,	1 weed,	1 weed,	1 weed,				
Target	3 ECHCG	4 AMBTR	6 AMARE	5 CHEAL				
-Disc./Scale	W BGRM	W BDIC	W BDIC	W BDIC				
Part Rated	PLANT	PLANT	PLANT	PLANT				
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO				
Assessment Unit	%	%	%	%				
Sample Size	1	1	1	1				
Sample Size Unit	PLOT	PLOT	PLOT	PLOT				
Sample Size (total)	1	1	1	1				
# Subsamples	1	1	1	1				
Assessment Date	Jul-12-2021	Jul-12-202	Jul-12-2021	Jul-12-202				
Assessment Code	A3	A3	A3	A3				
Appl.-Ass.Interval	28 DAA	28 DAA	28 DAA	28 DAA				
Days after first Appl.	28 DAA	28 DAA	28 DAA	28 DAA				
Days after last Appl.	28 DAA	28 DAA	28 DAA	28 DAA				
Decimals Printed	0	0	0	0				
ARM Action Codes	P EC	P EC	P EC	P EC				
Untreated	CANOPY	CANOPY	CANOPY	CANOPY				
Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	15*	16*	17*	18*
10	ENLIST DUO	3.5 pt/a		A	67 ab	77 abc	57 -	72 ab
	N-PAK AMS LIQUID			A				
11	LIBERTY 280	32 oz/a		A	53 b	77 abc	53 -	60 abc
	ENLIST ONE	1.5 pt/a		A				
	N-PAK AMS LIQUID			A				
	ROUNDUP POWERMAX 3	30 oz/a		A				
12	DURANGO DMA	36 oz/a		A	53 b	78 ab	63 -	68 ab
	LIBERTY 280	32 oz/a		A				
	ENLIST ONE	1.5 pt/a		A				
	N-PAK AMS LIQUID			A				
13	ROUNDUP POWERMAX 3	30 oz/a		A	67 ab	81 a	73 -	85 a
	MON 119144	16 oz/a		A				
	CLASS ACT RIDION			A				
	INTACT DRIFT CONTROL & FOLIAR AGENT (DFR)			A				
	MON 51817	20 oz/a		A				
14	ROUNDUP POWERMAX 3	30 oz/a		A	67 ab	72 abc	57 -	43 c
	LIBERTY 280	32 oz/a		A				
	N-PAK AMS LIQUID			A				
LSD P=.05					12.6	11.2	17.7	15.4
Standard Deviation					7.5	6.6	10.5	9.1
CV					10.33	8.79	15.47	13.43
Levene's F^					0.444	0.424	0.383	0.514
Levene's Prob(F)					0.929	0.939	0.958	0.886
Skewness^					0.227	-0.9051*	0.1837	0.8529*
Kurtosis^					-0.195	0.792	0.0848	2.2712*
Replicate F					3.345	3.170	0.961	2.669
Replicate Prob(F)					0.0523	0.0600	0.3969	0.0899
Treatment F					6.387	4.189	1.746	4.609
Treatment Prob(F)					0.0001	0.0014	0.1185	0.0007

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PowerMAX tankmix with Enlist/Bareground/Grass Efficacy

Trial ID: HN21USADHGTRS1 TD Number: LOCALCREATED Protocol Edition No.: 1.06
Project ID: MD-NATIONAL
Project Number(s): 0 % PM_BROAD_ACRE % 100 % PM_BROAD_ACRE
Protocol Developer: Hammer, Devin
License User: Michael, Janis

SE ID

EE22AD3 = 1 weed, % efficacy, in untreated % coverage

Target

- 1, HORVS, W, BCER, , , = Hordeum vulgare (spring)
- 2, SETFA, W, BGRM, , , = Setaria faberi HERRM.
- 3, ECHCG, W, BGRM, , , = Echinochloa crus-galli (L.) P.
- 4, AMBTR, W, BDIC, , , = Ambrosia trifida L.
- 5, CHEAL, W, BDIC, , , = Chenopodium album L.
- 6, AMARE, W, BDIC, , , = Amaranthus retroflexus L.

Part Rated

PLANT = Plant

Assessment Type

CONTRO = Control

Assessment Unit

% = Percent

Sample Size Unit

PLOT = Plot

ARM Action Codes

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

EC = Do not analyze untreated check, and report check treatment mean on AOV Means Tab

AA = Automatic arcsin square root % transformation

Untreated

CANOPY = Canopy