

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Status: E established (draft)
 ARM Trial Created On: Apr-4-2022
 Initiation Date: Apr-27-2022

Trial Location

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

Latitude of LL Corner °: 39.86017 N
 Longitude of LL Corner °: -83.67032 W
 Altitude of LL Corner: 1076.00 FT

Objectives:

What is the efficacy and crop safety of Enlist Weed Control Programs in E3 soybeans with or without a Group 15 herbicide in the tank mixture?

Crop Description

Crop 1: C GLXMA Glycine max Soybean BBCH Scale: SOYB
 Entry Date: May-2-2022 Stage Scale: BBCH
 Variety: Brevant B319EE
 Attributes: AAD-12/GLU/GLY-TOL
 Seed Size: 3230 S/LB
 Planting Date: Apr-27-2022 Planting Rate: 165000 S/A
 Depth: 1.5 IN
 Rows per Plot: 8 Planting Method: PLANTD planted
 Row Spacing: 15 in Planting Equipment: PP plot planter
 Seed Bed: MEDIUM medium
 Soil Temperature: 52 F Soil Moisture: NORMAL normal, adequate
 Emergence Date: May-16-2022
 Harvest Date: Oct-5-2022 Harvest Equipment: Kincaid 8XP
 Moisture Meter: Harvest Master Harvested Width: 6.25 FT
 % Standard Moisture: 13 Harvested Length: 30 FT
 Weighing Equipment: Harvest Master HM800

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi Entry Date: Jun-6-2022
 Common Name: Giant foxtail Stage Scale: BBCH
 Attributes: AAD-12/GLU/GLY-TOL
 Pest 2 Type: W Code: ECHCG Echinochloa crus-galli Entry Date: Jun-6-2022
 Common Name: common barnyardgrass Stage Scale: BBCH
 Pest 3 Type: W Code: SETLU Setaria pumila Entry Date: Jul-15-2022
 Common Name: foxtail, yellow Stage Scale: BBCH
 Pest 4 Type: W Code: AMBTR Ambrosia trifida Entry Date: Jul-15-2022
 Common Name: Giant ragweed Stage Scale: BBCH
 Pest 5 Type: W Code: CHEAL Chenopodium album Entry Date: Jun-6-2022
 Common Name: common lambsquarters Stage Scale: BBCH
 Pest 6 Type: W Code: ABUTH Abutilon theophrasti Entry Date: Jun-6-2022
 Common Name: velvetleaf Stage Scale: BBCH
 Pest 7 Type: W Code: POLPY Persicaria pensylvanica Entry Date: Jun-6-2022
 Common Name: annual smartweed Stage Scale: BBCH
 Pest 8 Type: W Code: AMBEL Ambrosia artemisiifolia Entry Date: Jun-6-2022
 Common Name: Common ragweed Stage Scale: BBCH

Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 300.0 FT² Tillage Type: CONTIL conventional-till
 Replications: 4 Treatments: 10 Plots: 40 Study Design: RACOB L Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED

Previous
 No. Crop Year
 1. CORN 2021

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 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Soil Description

Description Name: F-7 East
 % Sand: 37 % OM: 2.8 Texture: SICL silty clay loam
 % Silt: 48 Soil Name: Kokomo
 % Clay: 15 Fert. Level: G good
 pH: 5.7 CEC: 11

Application Description

	A	B	C
Application Date	Apr-28-2022	Jun-3-2022	Jun-21-2022
Appl. Start Time	9:30 AM	11:00 AM	9:00 AM
Appl. Stop Time	10:00 AM	11:30 AM	9:15 AM
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PRE	POST	POST
Application Placement	BROSOL	BROFOL	BROFOL
Applied By	Loux	Dobbels	Loux
Appl. Entry Date	May-2-2022	Jun-6-2022	Jun-21-2022
Air Temperature Start, Stop	43, 43 F	67, 67 F	84, 84 F
% Relative Humidity Start, Stop	44, 44	52, 52	49, 49
Wind Velocity+Dir. Start	4 MPH, E	4 MPH, W	5 MPH, W
Wind Velocity+Dir. Stop	4 MPH, E	4 MPH, W	5 MPH, W
Wind Velocity+Dir. Max	4 MPH, E	4 MPH, W	5 MPH, W
Wet Leaves (Y/N)	N, no	N, no	N, no
Soil Temperature	44 F	65 F	70 F
Soil Moisture	DRY	DRY	DRY
Soil Surface Condition	MEDIUM	MEDIUM	MEDIUM
% Cloud Cover	90	0	0
Next Moisture Occurred On	Apr-30-2022	Jun-6-2022	Jun-26-2022
Time to Next Moisture	2.0 DAY	3.0 DAY	5.0 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN
Moisture 1 Week after Appl.	1.1 IN	1.08 IN	0.3 IN

Protocol Application Directions:

Researcher Defined: PRE at 1X use rate (Kyber, Zidua Pro, Sonic Surveil, Outlook) at plant POST 25-30 DAA

Note: if no till then include Enlist One (2pt) + Durango (1qt) with PRE herbicide

Apply applications using AIXR nozzles, calibrated to deliver 15 - 20 GPA (may require AIXR-110015 nozzles @ 30-45 psi @ 3 MPH, for example)

(A) PRE - apply within 2 days after planting

If PRE herbicides are not fully effective, then make POST applications when weeds reach approximately 4" height, which may be earlier than 25 - 30 days after the PRE treatments.

Apply POST 25-30 DAAA include Group 15 in select treatments: Group 15 POST (1X use rate) apply either Zidua, EverpreX, or your own choice for in season application.

(B) POST - apply 25 - 30 DAAA - or before weeds exceed 4" height.

(C) POST - apply 15 days following initial POST (15DAAB).

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	GLXMA, SOYB	GLXMA, SOYB	GLXMA, SOYB
Days after Emergence	-18	18	36
Stage Majority, Percent		13, 90	R1, 100
Stage Minimum, Percent		12, 10	
Stage Maximum, Percent		13, 90	
Height Average		5 IN	11 IN
Height Minimum, Maximum		4, 5	10, 11

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent		15, 80	
Stage Minimum, Percent		13, 10	
Stage Maximum, Percent		15, 10	
Height Average		4 IN	
Height Minimum, Maximum		3, 4	
Density Average		225 PLA/M2	
Density Minimum, Maximum		120, 267	
Pest 2 Code, Type, Scale	ECHCG, W, BBCH	ECHCG, W, BBCH	ECHCG, W, BBCH
Stage Majority, Percent		15, 80	13, 60
Stage Minimum, Percent		13, 10	13, 20
Stage Maximum, Percent		15, 10	15, 20
Height Average		4 IN	6 IN
Height Minimum, Maximum		3, 4	2, 8
Density Average		56 PLA/M2	12 PLAM2
Density Minimum, Maximum		20, 75	0, 20
Pest 3 Code, Type, Scale	SETLU, W, BBCH	SETLU, W, BBCH	SETLU, W, BBCH
Stage Majority, Percent		15, 80	15, 60
Stage Minimum, Percent		13, 10	13, 20
Stage Maximum, Percent		15, 10	15, 60
Height Average		4 IN	3 IN
Height Minimum, Maximum		3, 4	2, 5
Density Average		10 PLA/M2	6 PLAM2
Density Minimum, Maximum		0, 12	0, 10
Pest 4 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent		18, 80	
Stage Minimum, Percent		14, 10	
Stage Maximum, Percent		18, 80	
Height Average		6 IN	
Height Minimum, Maximum		6, 10	
Density Average		8 PLA/M2	
Density Minimum, Maximum		2, 16	
Pest 5 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent		13, 80	
Stage Minimum, Percent		12, 10	
Stage Maximum, Percent		14, 10	
Height Average		3 IN	
Height Minimum, Maximum		2, 3	
Density Average		19 PLA/M2	
Density Minimum, Maximum		12, 34	
Pest 6 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH
Stage Majority, Percent		18, 80	
Stage Minimum, Percent		14, 20	
Stage Maximum, Percent		18, 80	
Height Average		3 IN	
Height Minimum, Maximum		2, 3	
Density Average		3 PLA/M2	
Density Minimum, Maximum		0, 5	
Pest 7 Code, Type, Scale	POLPY, W, BBCH	POLPY, W, BBCH	POLPY, W, BBCH
Stage Majority, Percent		19, 50	
Stage Minimum, Percent		12, 20	
Stage Maximum, Percent		19, 50	
Height Average		6 IN	
Height Minimum, Maximum		4, 7	
Density Average		3 PLA/M2	
Density Minimum, Maximum		0, 6	
Pest 8 Code, Type, Scale	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH
Stage Majority, Percent		11, 80	
Stage Minimum, Percent		10, 10	
Stage Maximum, Percent		11, 80	
Height Average		2 IN	
Height Minimum, Maximum		1, 2	
Density Average		1 PLA/M2	
Density Minimum, Maximum		0, 3	

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Application Equipment

	A	B	C
Appl. Equipment	6' TTI	6' AIXR	6' AIXR
Equipment Type	BACCAI	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI	44 PSI
Nozzle Model	1110015	110015	110015
Nozzle Type	TTI	AIXR	AIXR
Nozzle TradeName		Air Inducted XR Flat	Air Inducted XR Flat
Nozzle Tip Size, Color	015, green	015, grren	015, grren
Nozzle Spacing	18 IN	18 IN	18 IN
Boom Length	6.67 FT	6.67 FT	6.67 FT
Boom Height	20 IN	20 IN	20 IN
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Water Hardness (ppm CaCO3)	250	250	250
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Minimum Mix/Treatment	1.564	1.564	1.564
Mix Size	1 L	1 L	1 L
Spray pH	7.8	7.8	7.8
Propellant	COMCO2	COMCO2	COMCO2

				W, Weed SETFA Setaria faberi Giant foxtail	W, Weed AMBTR Ambrosia trifida Giant ragweed
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Type, Code		C, GLXMA	C, GLXMA	C, GLXMA	
BBCH Scale		BSOY	BSOY	BSOY	
Crop Scientific Name		Glycine max	Glycine max	Glycine max	
Crop Name		Soybean	Soybean	Soybean	
Crop Variety		Enlist E3 soybe>	Enlist E3 soybe>	Enlist E3 soybe>	
Rating Date		May-23-2022	May-23-2022	May-30-2022	May-30-2022
Part Rated		PLANT, -	PLANT, -	PLANT, -	
Rating Type		PHYDEF	PHYSTU	PHYLMA	CONTRO
Rating Unit/Min/Max		%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size		1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples		1	1	1	1
Data Entry Date		May-27-2022	May-27-2022	May-31-2022	May-31-2022
Days After First/Last Applic.		25, 25	25, 25	32, 32	32, 32
Trt-Eval Interval		25 DA-A	25 DA-A	32 DA-A	32 DA-A
Plant-Eval Interval		26 DP-1	26 DP-1	33 DP-1	33 DP-1
Days After Emergence		7 DE-1	7 DE-1	14 DE-1	14 DE-1
ARM Action Codes					
Number of Decimals		0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	1*	2*	3*	4*	5*
1 SONIC	220g ai/ha	A	0b	0-	0c	56b	65ab
1 Enlist One	1070g ae/ha	B					
1 LIBERTY	600g ae/ha	B					
1 EverpreX	1070g ai/ha	B					
1 AMSOL	2.5% v/v	B					
2 SONIC	220g ai/ha	A	0b	0-	0c	55b	65ab
2 Enlist One	1070g ae/ha	B					
2 Durango DMA	1120g ae/ha	B					
2 EverpreX	1070g ai/ha	B					
2 AMSOL	2.5% v/v	B					
3 SONIC	220g ai/ha	A	0b	0-	0c	55b	61ab
3 Enlist One	1070g ae/ha	B					
3 LIBERTY	600g ae/ha	B					
3 EverpreX	1070g ai/ha	B					
3 AMSOL	2.5% v/v	B					
3 Enlist One	1070g ae/ha	C					
3 LIBERTY	600g ae/ha	C					
3 AMSOL	2.5% v/v	C					

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Pest Type				W, Weed	W, Weed		
Pest Code				SETFA	AMBTR		
Pest Scientific Name				Setaria faberi	Ambrosia trifida		
Pest Name				Giant foxtail	Giant ragweed		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA				
BBCH Scale	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean				
Crop Variety	Enlist E3 soybe>	Enlist E3 soybe>	Enlist E3 soybe>				
Rating Date	May-23-2022	May-23-2022	May-30-2022	May-30-2022	May-30-2022		
Part Rated	PLANT, -	PLANT, -	PLANT, -				
Rating Type	PHYDEF	PHYSTU	PHYLMA	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-27-2022	May-27-2022	May-31-2022	May-31-2022	May-31-2022		
Days After First/Last Applic.	25, 25	25, 25	32, 32	32, 32	32, 32		
Trt-Eval Interval	25 DA-A	25 DA-A	32 DA-A	32 DA-A	32 DA-A		
Plant-Eval Interval	26 DP-1	26 DP-1	33 DP-1	33 DP-1	33 DP-1		
Days After Emergence	7 DE-1	7 DE-1	14 DE-1	14 DE-1	14 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*
No. Name	Rate Unit	Code					
4 SONIC	220g ai/ha	A	0b	0-	0c	53b	53b
4 Enlist One	1070g ae/ha	B					
4 Durango DMA	1120g ae/ha	B					
4 EverpreX	1070g ai/ha	B					
4 AMSOL	2.5% v/v	B					
4 Enlist One	1070g ae/ha	C					
4 LIBERTY	600g ae/ha	C					
4 AMSOL	2.5% v/v	C					
5 SONIC	220g ai/ha	A	0b	0-	0c	54b	71ab
5 Enlist One	1070g ae/ha	B					
5 LIBERTY	600g ae/ha	B					
5 EverpreX	1070g ai/ha	B					
5 AMSOL	2.5% v/v	B					
5 Enlist One	1070g ae/ha	C					
5 Durango DMA	1120g ae/ha	C					
5 AMSOL	2.5% v/v	C					
6 SONIC	220g ai/ha	A	0b	0-	0c	55b	70ab
6 Durango DMA	1120g ae/ha	B					
6 LIBERTY	600g ae/ha	B					
6 EverpreX	1070g ai/ha	B					
6 AMSOL	2.5% v/v	B					
7 Fierce EZ	160g ai/ha	A	8a	4-	7b	80a	55ab
7 Enlist One	533g ai/ha	B					
7 Roundup Powermax	1260g ae/ha	B					
7 Perpetuo	121g ai/ha	B					
7 Select Max	79g ai/ha	B					
7 AMSOL	2.5% v/v	B					
7 NIS	0.25% v/v	B					
8 Firstrate	35.3g ai/ha	A	7a	1-	10a	86a	81a
8 Fierce EZ	160g ai/ha	A					
8 Enlist One	533g ai/ha	B					
8 Roundup Powermax	1260g ae/ha	B					
8 Perpetuo	121g ai/ha	B					
8 Select Max	79g ai/ha	B					
8 AMSOL	2.5% v/v	B					
8 NIS	0.25% v/v	B					
9 Fierce XLT	175g ai/ha	A	7a	0-	5bc	78a	65ab
9 Enlist One	533g ai/ha	B					
9 Roundup Powermax	1260g ae/ha	B					
9 Perpetuo	121g ai/ha	B					
9 Select Max	79g ai/ha	B					
9 AMSOL	2.5% v/v	B					
9 NIS	0.25% v/v	B					

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 Trial Year: 2022

Pest Type	C, GLXMA			W, Weed	W, Weed		
Pest Code	BSOY			SETFA	AMBTR		
Pest Scientific Name	Glycine max			Setaria faberi	Ambrosia trifida		
Pest Name	Soybean			Giant foxtail	Giant ragweed		
Crop Type, Code	C, GLXMA						
BBCH Scale	BSOY						
Crop Scientific Name	Glycine max						
Crop Name	Soybean						
Crop Variety	Enlist E3 soybe>						
Rating Date	May-23-2022	May-23-2022	May-30-2022	May-30-2022	May-30-2022		
Part Rated	PLANT, -						
Rating Type	PHYDEF						
Rating Unit/Min/Max	%VISUAL, 0, 100			CONTRO	CONTRO		
Sample Size	1 PLOT			1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1			1	1		
Data Entry Date	May-27-2022	May-27-2022	May-31-2022	May-31-2022	May-31-2022		
Days After First/Last Applic.	25, 25	25, 25	32, 32	32, 32	32, 32		
Trt-Eval Interval	25 DA-A	25 DA-A	32 DA-A	32 DA-A	32 DA-A		
Plant-Eval Interval	26 DP-1	26 DP-1	33 DP-1	33 DP-1	33 DP-1		
Days After Emergence	7 DE-1	7 DE-1	14 DE-1	14 DE-1	14 DE-1		
ARM Action Codes							
Number of Decimals	0			0	0		
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*
No. Name	Rate Unit	Code					
10UTC			0b	0-	0c	0c	0c
LSD P=.05			2.5	2.3	3.1	11.8	16.9
Standard Deviation			1.7	1.6	2.2	8.1	11.6
CV			80.51	350.58	99.35	14.25	19.87
Grand Mean			2.2	0.5	2.2	57.2	58.6
Levene's F^			15.52	4.629	9.606	0.787	1.507
Levene's Prob(F)			0.00*	0.001*	0.00*	0.63	0.191
Rank X2		
P(Rank X2)		
Skewness^			-0.2342	1.4134*	-0.208	-0.4932	0.1395
Kurtosis^			2.8379*	9.9596*	4.9101*	-0.2646	0.8225
Replicate F			1.124	1.112	0.477	0.863	0.533
Replicate Prob(F)			0.3570	0.3616	0.7013	0.4721	0.6638
Treatment F			16.023	2.250	11.732	34.233	14.465
Treatment Prob(F)			0.0001	0.0500	0.0001	0.0001	0.0001

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	CHEAL	ABUTH	POLPY	IPOHE			
Pest Scientific Name	Chenopodium alb>	Abutilon theoph>	Persicaria pens>	Ipomoea hederac>			
Pest Name	common lambsqua>	velvetleaf annual	smartweed	ivy-leaf mornin>			
Crop Type, Code					C, GLXMA		
BBCH Scale					BSOY		
Crop Scientific Name					Glycine max		
Crop Name					Soybean		
Crop Variety					Enlist E3 soybe>		
Rating Date	May-30-2022	May-30-2022	May-30-2022	May-30-2022	Jun-17-2022		
Part Rated					PLANT, -		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-31-2022	May-31-2022	May-31-2022	May-31-2022	Jun-24-2022		
Days After First/Last Applic.	32, 32	32, 32	32, 32	32, 32	50, 14		
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	14 DA-B		
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	51 DP-1		
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	32 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	6*	7*	8*	9*	10*
1 SONIC	220g ai/ha A		100-	100a	99a	100a	0-
1 Enlist One	1070g ae/haB						
1 LIBERTY	600g ae/haB						
1 EverpreX	1070g ai/ha B						
1 AMSOL	2.5% v/v B						
2 SONIC	220g ai/ha A		100-	100a	100a	100a	0-
2 Enlist One	1070g ae/haB						
2 Durango DMA	1120g ae/haB						
2 EverpreX	1070g ai/ha B						
2 AMSOL	2.5% v/v B						
3 SONIC	220g ai/ha A		100-	100a	100a	93a	0-
3 Enlist One	1070g ae/haB						
3 LIBERTY	600g ae/haB						
3 EverpreX	1070g ai/ha B						
3 AMSOL	2.5% v/v B						
3 Enlist One	1070g ae/haC						
3 LIBERTY	600g ae/haC						
3 AMSOL	2.5% v/v C						

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	CHEAL	ABUTH	POLPY	IPOHE			
Pest Scientific Name	Chenopodium alb>	Abutilon theoph>	Persicaria pens>	Ipomoea hederac>			
Pest Name	common lambsqua>	velvetleaf	annual smartweed	ivy-leaf mornin>			
Crop Type, Code					C, GLXMA		
BBCH Scale					BSOY		
Crop Scientific Name					Glycine max		
Crop Name					Soybean		
Crop Variety					Enlist E3 soybe>		
Rating Date	May-30-2022	May-30-2022	May-30-2022	May-30-2022	Jun-17-2022		
Part Rated					PLANT, -		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-31-2022	May-31-2022	May-31-2022	May-31-2022	Jun-24-2022		
Days After First/Last Applic.	32, 32	32, 32	32, 32	32, 32	50, 14		
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	14 DA-B		
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	51 DP-1		
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	32 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	6*	7*	8*	9*	10*
No. Name	Rate Unit	Code					
4 SONIC	220g ai/ha	A	100-	100a	100a	100a	0-
4 Enlist One	1070g ae/ha	B					
4 Durango DMA	1120g ae/ha	B					
4 EverpreX	1070g ai/ha	B					
4 AMSOL	2.5% v/v	B					
4 Enlist One	1070g ae/ha	C					
4 LIBERTY	600g ae/ha	C					
4 AMSOL	2.5% v/v	C					
5 SONIC	220g ai/ha	A	100-	99a	100a	95a	0-
5 Enlist One	1070g ae/ha	B					
5 LIBERTY	600g ae/ha	B					
5 EverpreX	1070g ai/ha	B					
5 AMSOL	2.5% v/v	B					
5 Enlist One	1070g ae/ha	C					
5 Durango DMA	1120g ae/ha	C					
5 AMSOL	2.5% v/v	C					
6 SONIC	220g ai/ha	A	100-	99a	100a	96a	0-
6 Durango DMA	1120g ae/ha	B					
6 LIBERTY	600g ae/ha	B					
6 EverpreX	1070g ai/ha	B					
6 AMSOL	2.5% v/v	B					
7 Fierce EZ	160g ai/ha	A	100-	100a	100a	94a	1-
7 Enlist One	533g ai/ha	B					
7 Roundup Powermax	1260g ae/ha	B					
7 Perpetuo	121g ai/ha	B					
7 Select Max	79g ai/ha	B					
7 AMSOL	2.5% v/v	B					
7 NIS	0.25% v/v	B					
8 Firstrate	35.3g ai/ha	A	100-	100a	100a	89a	1-
8 Fierce EZ	160g ai/ha	A					
8 Enlist One	533g ai/ha	B					
8 Roundup Powermax	1260g ae/ha	B					
8 Perpetuo	121g ai/ha	B					
8 Select Max	79g ai/ha	B					
8 AMSOL	2.5% v/v	B					
8 NIS	0.25% v/v	B					
9 Fierce XLT	175g ai/ha	A	100-	100a	100a	99a	1-
9 Enlist One	533g ai/ha	B					
9 Roundup Powermax	1260g ae/ha	B					
9 Perpetuo	121g ai/ha	B					
9 Select Max	79g ai/ha	B					
9 AMSOL	2.5% v/v	B					
9 NIS	0.25% v/v	B					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	CHEAL	ABUTH	POLPY	IPOHE			
Pest Scientific Name	Chenopodium alb>	Abutilon theoph>	Persicaria pens>	Ipomoea hederac>			
Pest Name	common lambsqua>	velvetleaf	annual smartweed	ivy-leaf mornin>			
Crop Type, Code					C, GLXMA		
BBCH Scale					BSOY		
Crop Scientific Name					Glycine max		
Crop Name					Soybean		
Crop Variety					Enlist E3 soybe>		
Rating Date	May-30-2022	May-30-2022	May-30-2022	May-30-2022	Jun-17-2022		
Part Rated					PLANT, -		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-31-2022	May-31-2022	May-31-2022	May-31-2022	Jun-24-2022		
Days After First/Last Applic.	32, 32	32, 32	32, 32	32, 32	50, 14		
Trt-Eval Interval	32 DA-A	32 DA-A	32 DA-A	32 DA-A	14 DA-B		
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	51 DP-1		
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	32 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment							
No. Name	Rate	Appl	6*	7*	8*	9*	10*
10UTC			0-	0b	0b	0b	0-
LSD P=.05				1.5	1.1	12.1	0.8
Standard Deviation	0.0			1.1	0.8	8.3	0.6
CV	0.0			1.17	0.88	9.63	169.31
Grand Mean	90.0			89.8	89.9	86.5	0.3
Levene's F^				0.40	0.711	1.19	2.194
Levene's Prob(F)				0.925	0.694	0.337	0.052
Rank X2			
P(Rank X2)			
Skewness^				-1.8003*	-3.2005*	-1.2342*	0.3923
Kurtosis^				5.3789*	18.2785*	2.3774*	2.1278*
Replicate F	0.000			2.250	1.000	0.840	0.083
Replicate Prob(F)	1.0000			0.1053	0.4079	0.4839	0.9690
Treatment F	0.000			3581.000	6383.223	54.016	2.394
Treatment Prob(F)	1.0000			0.0001	0.0001	0.0001	0.0384

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type				W, Weed	W, Weed		
Pest Code				SETFA	SETLU		
Pest Scientific Name				Setaria faberi	Setaria pumila		
Pest Name				Giant foxtail	foxtail, yellow		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA				
BBCH Scale	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean				
Crop Variety	Enlist E3 soybe>	Enlist E3 soybe>	Enlist E3 soybe>				
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022		
Part Rated	PLANT, -	PLANT, -	PLANT, -				
Rating Type	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022		
Days After First/Last Applic.	50, 14	50, 14	50, 14	50, 14	50, 14		
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B		
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1		
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	11*	12*	13*	14*	15*
No. Name	Rate Unit	Code					
1 SONIC	220g ai/ha A		0-	4c	5b	93ab	93ab
1 Enlist One	1070g ae/haB						
1 LIBERTY	600g ae/haB						
1 EverpreX	1070g ai/ha B						
1 AMSOL	2.5% v/v B						
2 SONIC	220g ai/ha A		0-	3cd	3b	100a	100a
2 Enlist One	1070g ae/haB						
2 Durango DMA	1120g ae/haB						
2 EverpreX	1070g ai/ha B						
2 AMSOL	2.5% v/v B						
3 SONIC	220g ai/ha A		0-	3cd	6b	88b	86b
3 Enlist One	1070g ae/haB						
3 LIBERTY	600g ae/haB						
3 EverpreX	1070g ai/ha B						
3 AMSOL	2.5% v/v B						
3 Enlist One	1070g ae/haC						
3 LIBERTY	600g ae/haC						
3 AMSOL	2.5% v/v C						

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East Cooperator Trial ID:
 Project ID: Project ID 2: Project ID 3: Trial Year: 2022
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Pest Type				W, Weed	W, Weed		
Pest Code				SETFA	SETLU		
Pest Scientific Name				Setaria faberi	Setaria pumila		
Pest Name				Giant foxtail	foxtail, yellow		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA				
BBCH Scale	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean				
Crop Variety	Enlist E3 soybe>	Enlist E3 soybe>	Enlist E3 soybe>				
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022		
Part Rated	PLANT, -	PLANT, -	PLANT, -				
Rating Type	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022		
Days After First/Last Applic.	50, 14	50, 14	50, 14	50, 14	50, 14		
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B		
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1		
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	11*	12*	13*	14*	15*
No. Name	Rate Unit	Code					
4 SONIC	220g ai/ha	A	0-	3cd	4b	100a	100a
4 Enlist One	1070g ae/ha	B					
4 Durango DMA	1120g ae/ha	B					
4 EverpreX	1070g ai/ha	B					
4 AMSOL	2.5% v/v	B					
4 Enlist One	1070g ae/ha	C					
4 LIBERTY	600g ae/ha	C					
4 AMSOL	2.5% v/v	C					
5 SONIC	220g ai/ha	A	0-	3cd	5b	90b	89b
5 Enlist One	1070g ae/ha	B					
5 LIBERTY	600g ae/ha	B					
5 EverpreX	1070g ai/ha	B					
5 AMSOL	2.5% v/v	B					
5 Enlist One	1070g ae/ha	C					
5 Durango DMA	1120g ae/ha	C					
5 AMSOL	2.5% v/v	C					
6 SONIC	220g ai/ha	A	0-	1de	4b	100a	98a
6 Durango DMA	1120g ae/ha	B					
6 LIBERTY	600g ae/ha	B					
6 EverpreX	1070g ai/ha	B					
6 AMSOL	2.5% v/v	B					
7 Fierce EZ	160g ai/ha	A	0-	10a	12a	100a	100a
7 Enlist One	533g ai/ha	B					
7 Roundup Powermax	1260g ae/ha	B					
7 Perpetuo	121g ai/ha	B					
7 Select Max	79g ai/ha	B					
7 AMSOL	2.5% v/v	B					
7 NIS	0.25% v/v	B					
8 Firstrate	35.3g ai/ha	A	0-	8b	12a	100a	100a
8 Fierce EZ	160g ai/ha	A					
8 Enlist One	533g ai/ha	B					
8 Roundup Powermax	1260g ae/ha	B					
8 Perpetuo	121g ai/ha	B					
8 Select Max	79g ai/ha	B					
8 AMSOL	2.5% v/v	B					
8 NIS	0.25% v/v	B					
9 Fierce XLT	175g ai/ha	A	0-	8b	10a	100a	100a
9 Enlist One	533g ai/ha	B					
9 Roundup Powermax	1260g ae/ha	B					
9 Perpetuo	121g ai/ha	B					
9 Select Max	79g ai/ha	B					
9 AMSOL	2.5% v/v	B					
9 NIS	0.25% v/v	B					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	C, GLXMA			W, Weed	W, Weed
Pest Code	BSOY			SETFA	SETLU
Pest Scientific Name	Glycine max			Setaria faberi	Setaria pumila
Pest Name	Soybean			Giant foxtail	foxtail, yellow
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA		
BBCH Scale	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean		
Crop Variety	Enlist E3 soybe>	Enlist E3 soybe>	Enlist E3 soybe>		
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022
Part Rated	PLANT, -	PLANT, -	PLANT, -		
Rating Type	PHYCHL	PHYNEC	PHYLMA	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Days After First/Last Applic.	50, 14	50, 14	50, 14	50, 14	50, 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	51 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	11*	12*	13*	14*	15*
No. Name	Rate	Appl			
	Rate Unit	Code			
10UTC	0-	0e	0c	0c	0c
LSD P=.05	.	1.4	2.2	5.3	5.9
Standard Deviation	0.0	0.9	1.5	3.7	4.1
CV	0.0	22.26	24.64	4.23	4.73
Grand Mean	0.0	4.2	6.1	87.0	86.5
Levene's F^	.	1.953	4.608	2.542	1.161
Levene's Prob(F)	.	0.082	0.001*	0.027*	0.354
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	.	-0.1772	0.3267	1.2302*	1.2882*
Kurtosis^	.	-0.0327	1.2527	5.621*	4.3254*
Replicate F	0.000	0.534	0.675	0.863	1.691
Replicate Prob(F)	1.0000	0.6630	0.5749	0.4722	0.1926
Treatment F	0.000	50.771	28.270	283.479	226.890
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	
Pest Code	AMBTR	ABUTH	POLPY	AMBEL	SETFA	
Pest Scientific Name	Ambrosia trifida	Abutilon theoph>	Persicaria pens>	Ambrosia artemi>	Setaria faberi	
Pest Name	Giant ragweed	velvetleaf	annual smartweed	Common ragweed	Giant foxtail	
Crop Type, Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Crop Variety						
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-24-2022	
Part Rated						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	
Collection Basis						
Number of Subsamples	1	1	1	1	1	
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	
Days After First/Last Applic.	50, 14	50, 14	50, 14	50, 14	57, 3	
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	21 DA-B	
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	58 DP-1	
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	39 DE-1	
ARM Action Codes						
Number of Decimals	0	0	0	0	0	
Trt Treatment						
No. Name						
Rate						
Rate Unit						
Appl Code						
16*						
17*						
18*						
19*						
20*						
1 SONIC	220g ai/ha A	98a	100-	100-	100-	97a
1 Enlist One	1070g ae/haB					
1 LIBERTY	600g ae/haB					
1 EverpreX	1070g ai/ha B					
1 AMSOL	2.5% v/v B					
2 SONIC	220g ai/ha A	96a	100-	100-	100-	100a
2 Enlist One	1070g ae/haB					
2 Durango DMA	1120g ae/haB					
2 EverpreX	1070g ai/ha B					
2 AMSOL	2.5% v/v B					
3 SONIC	220g ai/ha A	100a	100-	100-	100-	99a
3 Enlist One	1070g ae/haB					
3 LIBERTY	600g ae/haB					
3 EverpreX	1070g ai/ha B					
3 AMSOL	2.5% v/v B					
3 Enlist One	1070g ae/haC					
3 LIBERTY	600g ae/haC					
3 AMSOL	2.5% v/v C					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	AMBTR	ABUTH	POLPY	AMBEL	SETFA
Pest Scientific Name	Ambrosia trifida	Abutilon theoph>	Persicaria pens>	Ambrosia artemi>	Setaria faberi
Pest Name	Giant ragweed	velvetleaf	annual smartweed	Common ragweed	Giant foxtail
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-24-2022
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Days After First/Last Applic.	50, 14	50, 14	50, 14	50, 14	57, 3
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	21 DA-B
Plant-Eval Interval	51 DP-1	51 DP-1	51 DP-1	51 DP-1	58 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	39 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Appl	16*	17*	18*	19*	20*
No. Name	Rate Unit	Code					
4 SONIC	220g ai/ha	A	100a	100-	100-	100-	100a
4 Enlist One	1070g ae/ha	B					
4 Durango DMA	1120g ae/ha	B					
4 EverpreX	1070g ai/ha	B					
4 AMSOL	2.5% v/v	B					
4 Enlist One	1070g ae/ha	C					
4 LIBERTY	600g ae/ha	C					
4 AMSOL	2.5% v/v	C					
5 SONIC	220g ai/ha	A	100a	100-	100-	100-	99a
5 Enlist One	1070g ae/ha	B					
5 LIBERTY	600g ae/ha	B					
5 EverpreX	1070g ai/ha	B					
5 AMSOL	2.5% v/v	B					
5 Enlist One	1070g ae/ha	C					
5 Durango DMA	1120g ae/ha	C					
5 AMSOL	2.5% v/v	C					
6 SONIC	220g ai/ha	A	100a	100-	100-	100-	100a
6 Durango DMA	1120g ae/ha	B					
6 LIBERTY	600g ae/ha	B					
6 EverpreX	1070g ai/ha	B					
6 AMSOL	2.5% v/v	B					
7 Fierce EZ	160g ai/ha	A	96a	100-	100-	100-	100a
7 Enlist One	533g ai/ha	B					
7 Roundup Powermax	1260g ae/ha	B					
7 Perpetuo	121g ai/ha	B					
7 Select Max	79g ai/ha	B					
7 AMSOL	2.5% v/v	B					
7 NIS	0.25% v/v	B					
8 Firstrate	35.3g ai/ha	A	100a	100-	100-	100-	100a
8 Fierce EZ	160g ai/ha	A					
8 Enlist One	533g ai/ha	B					
8 Roundup Powermax	1260g ae/ha	B					
8 Perpetuo	121g ai/ha	B					
8 Select Max	79g ai/ha	B					
8 AMSOL	2.5% v/v	B					
8 NIS	0.25% v/v	B					
9 Fierce XLT	175g ai/ha	A	99a	100-	100-	100-	100a
9 Enlist One	533g ai/ha	B					
9 Roundup Powermax	1260g ae/ha	B					
9 Perpetuo	121g ai/ha	B					
9 Select Max	79g ai/ha	B					
9 AMSOL	2.5% v/v	B					
9 NIS	0.25% v/v	B					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:

Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	SETLU	AMBTR	ABUTH	POLPY	AMBEL
Pest Scientific Name	Setaria pumila	Ambrosia trifida	Abutilon theoph>	Persicaria pens>	Ambrosia artemi>
Pest Name	foxtail, yellow	Giant ragweed	velvetleaf	annual smartweed	Common ragweed
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Rating Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Days After First/Last Applic.	57, 3	57, 3	57, 3	57, 3	57, 3
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	39 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	21*	22*	23*	24*	25*
No. Name					
1 SONIC	220g ai/ha A	81c	96a	100-	100-
1 Enlist One	1070g ae/haB				
1 LIBERTY	600g ae/haB				
1 EverpreX	1070g ai/ha B				
1 AMSOL	2.5% v/v B				
2 SONIC	220g ai/ha A	100a	96a	100-	100-
2 Enlist One	1070g ae/haB				
2 Durango DMA	1120g ae/haB				
2 EverpreX	1070g ai/ha B				
2 AMSOL	2.5% v/v B				
3 SONIC	220g ai/ha A	88b	100a	100-	100-
3 Enlist One	1070g ae/haB				
3 LIBERTY	600g ae/haB				
3 EverpreX	1070g ai/ha B				
3 AMSOL	2.5% v/v B				
3 Enlist One	1070g ae/haC				
3 LIBERTY	600g ae/haC				
3 AMSOL	2.5% v/v C				

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	SETLU	AMBTR	ABUTH	POLPY	AMBEL
Pest Scientific Name	Setaria pumila	Ambrosia trifida	Abutilon theoph>	Persicaria pens>	Ambrosia artemi>
Pest Name	foxtail, yellow	Giant ragweed	velvetleaf annual	smartweed	Common ragweed
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Rating Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Days After First/Last Applic.	57, 3	57, 3	57, 3	57, 3	57, 3
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	39 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Appl	21*	22*	23*	24*	25*
No. Name	Rate Unit	Code					
4 SONIC	220g ai/ha	A	100a	100a	100-	100-	100-
4 Enlist One	1070g ae/ha	B					
4 Durango DMA	1120g ae/ha	B					
4 EverpreX	1070g ai/ha	B					
4 AMSOL	2.5% v/v	B					
4 Enlist One	1070g ae/ha	C					
4 LIBERTY	600g ae/ha	C					
4 AMSOL	2.5% v/v	C					
5 SONIC	220g ai/ha	A	89b	100a	100-	100-	100-
5 Enlist One	1070g ae/ha	B					
5 LIBERTY	600g ae/ha	B					
5 EverpreX	1070g ai/ha	B					
5 AMSOL	2.5% v/v	B					
5 Enlist One	1070g ae/ha	C					
5 Durango DMA	1120g ae/ha	C					
5 AMSOL	2.5% v/v	C					
6 SONIC	220g ai/ha	A	99a	100a	100-	100-	100-
6 Durango DMA	1120g ae/ha	B					
6 LIBERTY	600g ae/ha	B					
6 EverpreX	1070g ai/ha	B					
6 AMSOL	2.5% v/v	B					
7 Fierce EZ	160g ai/ha	A	100a	96a	100-	100-	100-
7 Enlist One	533g ai/ha	B					
7 Roundup Powermax	1260g ae/ha	B					
7 Perpetuo	121g ai/ha	B					
7 Select Max	79g ai/ha	B					
7 AMSOL	2.5% v/v	B					
7 NIS	0.25% v/v	B					
8 Firstrate	35.3g ai/ha	A	100a	100a	100-	100-	100-
8 Fierce EZ	160g ai/ha	A					
8 Enlist One	533g ai/ha	B					
8 Roundup Powermax	1260g ae/ha	B					
8 Perpetuo	121g ai/ha	B					
8 Select Max	79g ai/ha	B					
8 AMSOL	2.5% v/v	B					
8 NIS	0.25% v/v	B					
9 Fierce XLT	175g ai/ha	A	99a	93a	100-	100-	100-
9 Enlist One	533g ai/ha	B					
9 Roundup Powermax	1260g ae/ha	B					
9 Perpetuo	121g ai/ha	B					
9 Select Max	79g ai/ha	B					
9 AMSOL	2.5% v/v	B					
9 NIS	0.25% v/v	B					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	SETLU	AMBTR	ABUTH	POLPY	AMBEL
Pest Scientific Name	Setaria pumila	Ambrosia trifida	Abutilon theoph>	Persicaria pens>	Ambrosia artemi>
Pest Name	foxtail, yellow	Giant ragweed	velvetleaf annual	smartweed	Common ragweed
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Rating Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Days After First/Last Applic.	57, 3	57, 3	57, 3	57, 3	57, 3
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	58 DP-1
Days After Emergence	39 DE-1	39 DE-1	39 DE-1	39 DE-1	39 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	21*	22*	23*	24*	25*
No. Name	Rate Unit	Appl Code			
10UTC	0d	0b	0-	0-	0-
LSD P=.05	3.9	7.2	.	.	.
Standard Deviation	2.7	5.0	0.0	0.0	0.0
CV	3.14	5.65	0.0	0.0	0.0
Grand Mean	85.5	88.1	90.0	90.0	90.0
Levene's F^	0.603	1.415	.	.	.
Levene's Prob(F)	0.784	0.226	.	.	.
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	1.5933*	-1.1722*	.	.	.
Kurtosis^	6.3519*	1.7105*	.	.	.
Replicate F	2.538	0.832	0.000	0.000	0.000
Replicate Prob(F)	0.0776	0.4880	1.0000	1.0000	1.0000
Treatment F	525.231	155.756	0.000	0.000	0.000
Treatment Prob(F)	0.0001	0.0001	1.0000	1.0000	1.0000

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	SETFA	SETLU	ECHCG	AMBTR	ABUTH		
Pest Scientific Name	Setaria faberi	Setaria pumila	Echinochloa cru>	Ambrosia trifida	Abutilon theoph>		
Pest Name	Giant foxtail	foxtail, yellow	common barnyard>	Giant ragweed	velvetleaf		
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Crop Variety							
Rating Date	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022		
Part Rated							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jul-8-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022		
Days After First/Last Applic.	64, 10	64, 10	64, 10	64, 10	64, 10		
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B		
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1		
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	26*	27*	28*	29*	30*
No. Name	Rate Unit	Code					
1 SONIC	220g ai/ha	A	81b	79b	80b	95a	100a
1 Enlist One	1070g ae/ha	B					
1 LIBERTY	600g ae/ha	B					
1 EverpreX	1070g ai/ha	B					
1 AMSOL	2.5% v/v	B					
2 SONIC	220g ai/ha	A	100a	100a	100a	89a	100a
2 Enlist One	1070g ae/ha	B					
2 Durango DMA	1120g ae/ha	B					
2 EverpreX	1070g ai/ha	B					
2 AMSOL	2.5% v/v	B					
3 SONIC	220g ai/ha	A	98a	95a	96a	100a	100a
3 Enlist One	1070g ae/ha	B					
3 LIBERTY	600g ae/ha	B					
3 EverpreX	1070g ai/ha	B					
3 AMSOL	2.5% v/v	B					
3 Enlist One	1070g ae/ha	C					
3 LIBERTY	600g ae/ha	C					
3 AMSOL	2.5% v/v	C					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	SETFA	SETLU	ECHCG	AMBTR	ABUTH		
Pest Scientific Name	Setaria faberi	Setaria pumila	Echinochloa cru>	Ambrosia trifida	Abutilon theoph>		
Pest Name	Giant foxtail	foxtail, yellow	common barnyard>	Giant ragweed	velvetleaf		
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Crop Variety							
Rating Date	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022		
Part Rated							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Collection Basis							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jul-8-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022		
Days After First/Last Applic.	64, 10	64, 10	64, 10	64, 10	64, 10		
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B		
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1		
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	26*	27*	28*	29*	30*
No. Name	Rate Unit	Code					
4 SONIC	220g ai/ha	A	100a	100a	100a	100a	100a
4 Enlist One	1070g ae/ha	B					
4 Durango DMA	1120g ae/ha	B					
4 EverpreX	1070g ai/ha	B					
4 AMSOL	2.5% v/v	B					
4 Enlist One	1070g ae/ha	C					
4 LIBERTY	600g ae/ha	C					
4 AMSOL	2.5% v/v	C					
5 SONIC	220g ai/ha	A	100a	100a	100a	100a	100a
5 Enlist One	1070g ae/ha	B					
5 LIBERTY	600g ae/ha	B					
5 EverpreX	1070g ai/ha	B					
5 AMSOL	2.5% v/v	B					
5 Enlist One	1070g ae/ha	C					
5 Durango DMA	1120g ae/ha	C					
5 AMSOL	2.5% v/v	C					
6 SONIC	220g ai/ha	A	100a	98a	94a	90a	98a
6 Durango DMA	1120g ae/ha	B					
6 LIBERTY	600g ae/ha	B					
6 EverpreX	1070g ai/ha	B					
6 AMSOL	2.5% v/v	B					
7 Fierce EZ	160g ai/ha	A	99a	100a	93a	95a	100a
7 Enlist One	533g ai/ha	B					
7 Roundup Powermax	1260g ae/ha	B					
7 Perpetuo	121g ai/ha	B					
7 Select Max	79g ai/ha	B					
7 AMSOL	2.5% v/v	B					
7 NIS	0.25% v/v	B					
8 Firstrate	35.3g ai/ha	A	100a	100a	95a	100a	100a
8 Fierce EZ	160g ai/ha	A					
8 Enlist One	533g ai/ha	B					
8 Roundup Powermax	1260g ae/ha	B					
8 Perpetuo	121g ai/ha	B					
8 Select Max	79g ai/ha	B					
8 AMSOL	2.5% v/v	B					
8 NIS	0.25% v/v	B					
9 Fierce XLT	175g ai/ha	A	100a	95a	94a	86a	100a
9 Enlist One	533g ai/ha	B					
9 Roundup Powermax	1260g ae/ha	B					
9 Perpetuo	121g ai/ha	B					
9 Select Max	79g ai/ha	B					
9 AMSOL	2.5% v/v	B					
9 NIS	0.25% v/v	B					

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	SETFA	SETLU	ECHCG	AMBTR	ABUTH
Pest Scientific Name	Setaria faberi	Setaria pumila	Echinochloa cru>	Ambrosia trifida	Abutilon theoph>
Pest Name	Giant foxtail	foxtail, yellow	common barnyard>	Giant ragweed	velvetleaf
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Crop Variety					
Rating Date	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-8-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022
Days After First/Last Applic.	64, 10	64, 10	64, 10	64, 10	64, 10
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	65 DP-1	65 DP-1	65 DP-1	65 DP-1	65 DP-1
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	26*	27*	28*	29*	30*
No. Name	Rate Unit	Appl Code			
10UTC			0c	0c	0c
LSD P=.05	2.8	5.8	7.2	11.4	2.3
Standard Deviation	1.9	4.0	4.9	7.9	1.6
CV	2.19	4.64	5.81	9.22	1.76
Grand Mean	87.8	86.6	85.1	85.5	89.8
Levene's F^	0.757	0.861	0.917	2.984	0.711
Levene's Prob(F)	0.656	0.569	0.524	0.012*	0.694
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	-1.8488*	-1.7359*	0.1565	-0.3559	-3.2005*
Kurtosis^	7.7947*	5.7073*	-0.8428	0.307	18.2785*
Replicate F	1.125	1.172	3.711	0.590	1.000
Replicate Prob(F)	0.3564	0.3388	0.0235	0.6268	0.4079
Treatment F	1063.050	239.489	152.158	59.826	1592.111
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed		
Pest Code	POLPY	AMBEL		
Pest Scientific Name	Persicaria pens>	Ambrosia artemi>		
Pest Name	annual smartweed	Common ragweed		
Crop Type, Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Rating Date	Jul-1-2022	Jul-1-2022		
Part Rated				
Rating Type	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100		
Sample Size	1 PLOT	1 PLOT		
Collection Basis				
Number of Subsamples	1	1		
Data Entry Date	Jul-8-2022	Jul-8-2022		
Days After First/Last Applic.	64, 10	64, 10		
Trt-Eval Interval	28 DA-B	28 DA-B		
Plant-Eval Interval	65 DP-1	65 DP-1		
Days After Emergence	46 DE-1	46 DE-1		
ARM Action Codes				
Number of Decimals	0	0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	31*	32*
1 SONIC	220g ai/ha A		100-	100-
1 Enlist One	1070g ae/haB			
1 LIBERTY	600g ae/haB			
1 EverpreX	1070g ai/ha B			
1 AMSOL	2.5% v/v B			
2 SONIC	220g ai/ha A		100-	100-
2 Enlist One	1070g ae/haB			
2 Durango DMA	1120g ae/haB			
2 EverpreX	1070g ai/ha B			
2 AMSOL	2.5% v/v B			
3 SONIC	220g ai/ha A		100-	100-
3 Enlist One	1070g ae/haB			
3 LIBERTY	600g ae/haB			
3 EverpreX	1070g ai/ha B			
3 AMSOL	2.5% v/v B			
3 Enlist One	1070g ae/haC			
3 LIBERTY	600g ae/haC			
3 AMSOL	2.5% v/v C			

The Ohio State University

University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Claudio Vrisman

Cooperator Trial ID:
 Trial Year: 2022

Pest Type	W, Weed	W, Weed
Pest Code	POLPY	AMBEL
Pest Scientific Name	Persicaria pens>	Ambrosia artemi>
Pest Name	annual smartweed	Common ragweed
Crop Type, Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Crop Variety		
Rating Date	Jul-1-2022	Jul-1-2022
Part Rated		
Rating Type	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT
Collection Basis		
Number of Subsamples	1	1
Data Entry Date	Jul-8-2022	Jul-8-2022
Days After First/Last Applic.	64, 10	64, 10
Trt-Eval Interval	28 DA-B	28 DA-B
Plant-Eval Interval	65 DP-1	65 DP-1
Days After Emergence	46 DE-1	46 DE-1
ARM Action Codes		
Number of Decimals	0	0

Trt	Treatment	Rate	Appl	31*	32*
No.	Name	Rate Unit	Code		
4	SONIC	220g ai/ha	A	100-	100-
4	Enlist One	1070g ae/ha	B		
4	Durango DMA	1120g ae/ha	B		
4	EverpreX	1070g ai/ha	B		
4	AMSOL	2.5% v/v	B		
4	Enlist One	1070g ae/ha	C		
4	LIBERTY	600g ae/ha	C		
4	AMSOL	2.5% v/v	C		
5	SONIC	220g ai/ha	A	100-	100-
5	Enlist One	1070g ae/ha	B		
5	LIBERTY	600g ae/ha	B		
5	EverpreX	1070g ai/ha	B		
5	AMSOL	2.5% v/v	B		
5	Enlist One	1070g ae/ha	C		
5	Durango DMA	1120g ae/ha	C		
5	AMSOL	2.5% v/v	C		
6	SONIC	220g ai/ha	A	100-	100-
6	Durango DMA	1120g ae/ha	B		
6	LIBERTY	600g ae/ha	B		
6	EverpreX	1070g ai/ha	B		
6	AMSOL	2.5% v/v	B		
7	Fierce EZ	160g ai/ha	A	100-	100-
7	Enlist One	533g ai/ha	B		
7	Roundup Powermax	1260g ae/ha	B		
7	Perpetuo	121g ai/ha	B		
7	Select Max	79g ai/ha	B		
7	AMSOL	2.5% v/v	B		
7	NIS	0.25% v/v	B		
8	Firstrate	35.3g ai/ha	A	100-	100-
8	Fierce EZ	160g ai/ha	A		
8	Enlist One	533g ai/ha	B		
8	Roundup Powermax	1260g ae/ha	B		
8	Perpetuo	121g ai/ha	B		
8	Select Max	79g ai/ha	B		
8	AMSOL	2.5% v/v	B		
8	NIS	0.25% v/v	B		
9	Fierce XLT	175g ai/ha	A	100-	100-
9	Enlist One	533g ai/ha	B		
9	Roundup Powermax	1260g ae/ha	B		
9	Perpetuo	121g ai/ha	B		
9	Select Max	79g ai/ha	B		
9	AMSOL	2.5% v/v	B		
9	NIS	0.25% v/v	B		

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University Enlist Weed Control System Endorsement Demo-Pre fb POST

Trial ID: 22Enlist
 Protocol ID: NA22K1A005H Location: Western Branch F-7 East
 Project ID: Project ID 2: Project ID 3: Cooperator Trial ID:
 Study Director: Sponsor Contact: Trial Year: 2022
 Investigator (Creator): Claudio Vrisman

Pest Type	W, Weed	W, Weed
Pest Code	POLPY	AMBEL
Pest Scientific Name	Persicaria pens>	Ambrosia artemi>
Pest Name	annual smartweed	Common ragweed
Crop Type, Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Crop Variety		
Rating Date	Jul-1-2022	Jul-1-2022
Part Rated		
Rating Type	CONTRO	CONTRO
Rating Unit/Min/Max	%VISUAL, 0, 100	%VISUAL, 0, 100
Sample Size	1 PLOT	1 PLOT
Collection Basis		
Number of Subsamples	1	1
Data Entry Date	Jul-8-2022	Jul-8-2022
Days After First/Last Applic.	64, 10	64, 10
Trt-Eval Interval	28 DA-B	28 DA-B
Plant-Eval Interval	65 DP-1	65 DP-1
Days After Emergence	46 DE-1	46 DE-1
ARM Action Codes		
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
10UTC		
	31*	32*
	0-	0-
LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	90.0	90.0
Levene's F^	.	.
Levene's Prob(F)	.	.
Rank X2	.	.
P(Rank X2)	.	.
Skewness^	.	.
Kurtosis^	.	.
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

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Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
 AMBTR, Ambrosia trifida, Giant ragweed = US
 CHEAL, Chenopodium album, common lambsquarters = US
 ABUTH, Abutilon theophrasti, velvetleaf = US
 POLPY, Persicaria pensylvanica, annual smartweed = US
 IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US
 AMBEL, Ambrosia artemisiifolia, Common ragweed = US
 ECHCG, Echinochloa crus-galli, common barnyardgrass = US

Crop Type, Code

C = EPP0 species (Bayer) codes
 GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLANT = plant

Rating Type

PHYDEF = phyto. deformation (cupping, epinasty, leaf wrap, wrinkling)
 PHYSTU = phytotoxicity - stunting
 PHYLMA = phytotoxicity - leaf malformation
 CONTRO = control / burndown or knockdown
 PHYCHL = phytotoxicity - chlorosis
 PHYNEC = phytotoxicity - necrosis /burn

PLOT = total plot

Plant-Eval Interval

26 DP-1 = 1 GLXMA Apr-27-2022
 33 DP-1 = 1 GLXMA Apr-27-2022
 51 DP-1 = 1 GLXMA Apr-27-2022
 58 DP-1 = 1 GLXMA Apr-27-2022
 65 DP-1 = 1 GLXMA Apr-27-2022