

# The Ohio State University

2020-2021/FALL/SPRING/SOYBEAN/AUDIT 1:1/PREVIEW 2:1/INTERMOC/NO-TILL

Trial ID: 22FALLSOY1  
 Protocol ID: H21-US-040--577-001 Location: Cooperator Trial ID:  
 Project ID: Project ID 2: Project ID 3: Trial Year: 2021  
 Study Director: Sponsor Contact: Joe Reed  
 Investigator (Creator): Dr. Mark M. Loux

Status: E established  
 ARM Trial Created On: Oct-26-2021

## Trial Location

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

Latitude of LL Corner °: 39.85876 N  
 Longitude of LL Corner °: -83.67181 W  
 Altitude of LL Corner: 1088.00 FT

Conducted Under GLP: No  
 Conducted Under GEP: No  
 None

Role: SPONSR sponsor  
 Sponsor: Joe Reed  
 Organization: UPL

## Crop Description

Crop 1: C GLXMA Glycine max Soybean BBCH Scale: BSOY  
 Entry Date: May-2-2022 Stage Scale: BBCH  
 Variety: P35T15E  
 Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol  
 Planting Date: Apr-27-2022 Seed Size: 2978 S/LB  
 Depth: 1.5 IN Planting Rate: 165000 S/A  
 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 Equipment: Kincaid 8XP  
 Harvest Date: Oct-12-2022 Harvested Width: 6.25 FT  
 Moisture Meter: Harvest Master Harvested Length: 30 FT  
 % Standard Moisture: 13  
 Weighing Equipment: Harvest Master HM800

## Pest Description

Pest 1 Type: W Code: LAMPU Lamium purpureum Entry Date: Nov-19-2021  
 Common Name: Purple deadnettle Stage Scale: BBCH  
 Pest 2 Type: W Code: RANAB Ranunculus abortivus Entry Date: Nov-19-2021  
 Common Name: Smallflower buttercup Stage Scale: BBCH  
 Pest 3 Type: W Code: CARPE Cardamine pensylvanica Entry Date: Nov-19-2021  
 Common Name: Pennsylvania bittercress Stage Scale: BBCH  
 Pest 4 Type: W Code: SETFA Setaria faberi Entry Date: Jun-2-2022  
 Common Name: Giant foxtail Stage Scale: BBCH  
 Pest 5 Type: W Code: AMBTR Ambrosia trifida Entry Date: Jun-2-2022  
 Common Name: Giant ragweed Stage Scale: BBCH  
 Pest 6 Type: W Code: AMBEL Ambrosia artemisiifolia Entry Date: Jun-2-2022  
 Common Name: Common ragweed Stage Scale: BBCH  
 Pest 7 Type: W Code: CHEAL Chenopodium album Entry Date: Jun-2-2022  
 Common Name: common lambsquarters Stage Scale: BBCH  
 Pest 8 Type: W Code: ABUTH Abutilon theophrasti Entry Date: Jun-2-2022  
 Common Name: velvetleaf Stage Scale: BBCH

## Site and Design

Treated Plot Width: 6.67 FT Site Type: FIELD field  
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot  
 Treated Plot Area: 200.1 FT<sup>2</sup> Tillage Type: NOTILL no-till  
 Replications: 3 Treatments: 6 Plots: 18 Study Design: RACOB Randomized Complete Block (RCB)

Previous  
 No. Crop Year  
 1. CORN 2021

## Soil Description

Description Name: F-9 East Texture: SICL silty clay loam  
 % Sand: 36 % OM: 3 Soil Name: Kokomo  
 % Silt: 49 Fert. Level: G good  
 % Clay: 15 pH: 6.4 CEC: 17.8  
 Soil Drainage: G good

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## Application Description

	A	B	C	D
Application Date	Nov-8-2021	Apr-28-2022	May-31-2022	
Appl. Start Time	10:00 AM	11:00 AM	11:30 AM	
Appl. Stop Time	10:15 AM	11:15 AM	11:40 AM	
Interval to Prev. Appl.		171 DAYS	33 DAYS	
Application Method	SPRAY	SPRAY	SPRAY	
Application Timing	FALL	PRE	POST	
Application Placement	BROFOL	BROFOL	BROFOL	
Applied By	Dobbels	Essman		
Appl. Entry Date	Nov-19-2021	May-2-2022	Jun-1-2022	
Air Temperature Start, Stop	56, 56 F	45, 45 F	81, 81 F	
% Relative Humidity Start, Stop	50, 50	45, 45	59, 59	
Wind Velocity+Dir. Start	5 MPH, S	4 MPH, E	6 MPH, SW	
Wind Velocity+Dir. Stop	6 MPH, S	4 MPH, E	6 MPH, SW	
Wind Velocity+Dir. Max	7 MPH, S	4 MPH, E	6 MPH, SW	
Wet Leaves (Y/N)	N, no	N, no	N, no	
Soil Temperature	44 F	45 F		
Soil Moisture	NORMAL	DRY	DRY	
Soil Surface Condition	MEDTRA	MEDTRA	MEDTRA	
% Cloud Cover	0	90	10	
Next Moisture Occurred On	Nov-11-2021	Apr-30-2022	Jun-1-2022	
Time to Next Moisture	3.0 DAY	2.0 DAY	1.0 DAY	
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN	
Moisture 1 Week after Appl.	0.55 IN	1.1 IN	0.92 IN	

## Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-189	-18	15	
Stage Majority, Percent			12, 100	
Height Average			4 IN	
Height Minimum, Maximum			3, 4	

## Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH	LAMPU, W, BBCH
Stage Majority, Percent	16, 80			
Stage Minimum, Percent	14, 20			
Stage Maximum, Percent	16, 80			
Diameter Average	3 IN			
Diameter Minimum, Maximum	1, 3			
Height Average	2 IN			
Height Minimum, Maximum	1, 3			
Density Average	34 PLA/m2			
Density Minimum, Maximum	2, 40			
Pest 2 Code, Type, Scale	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH	RANAB, W, BBCH
Stage Majority, Percent	12, 90			
Stage Minimum, Percent	12, 90			
Stage Maximum, Percent	13, 10			
Diameter Average	2 IN			
Diameter Minimum, Maximum	2, 3			
Height Average	1 IN			
Height Minimum, Maximum	1, 2			
Density Average	2 pla/m2			
Density Minimum, Maximum	0, 3			
Pest 3 Code, Type, Scale	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH	CARPE, W, BBCH
Stage Majority, Percent	19, 10			
Diameter Average	2 IN			
Diameter Minimum, Maximum	1, 2			
Height Average	0.5 IN			
Height Minimum, Maximum	0.5, 1			
Density Average	1 PLA/m2			
Density Minimum, Maximum	0, 3			
Pest 4 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Height Average			6 IN	
Height Minimum, Maximum			4, 8	
Pest 5 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Height Average			22 IN	
Height Minimum, Maximum			12, 24	
Pest 6 Code, Type, Scale	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH	AMBEL, W, BBCH
Height Average			4 IN	
Height Minimum, Maximum			2, 6	
Pest 7 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Height Average			4 IN	
Height Minimum, Maximum			2, 4	
Pest 8 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH
Height Average			3 IN	
Height Minimum, Maximum			2, 3	

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## Application Equipment

	A	BCD
Appl. Equipment	6' AIXR	
Equipment Type	BACCAI	
Operation Pressure	44 PSI	
Nozzle Model	110015	
Nozzle Type	AI XR	
Nozzle TradeName	TeeJet	
Nozzle Tip Size, Color	015, green	
Nozzle Spacing	18 IN	
Boom Length	6.67 FT	
Boom Height	20 IN	
Ground Speed	3 MPH	
Carrier	WATER	
Water Hardness (ppm CaCO3)	250	
Application Amount	15 GAL/AC	
Mix Overage	25 mL	
Mix Size	1.0 L	
Spray pH	7.8	
Propellant	COMCO2	
Tank Mix (Y/N)	Y, yes	

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	LAMPU	RANAB	CARPE	AMBTR
Pest Scientific Name	Lamium purpureum	Ranunculus abortivus	Cardamine pensylvanica	Ambrosia trifida
Pest Name	purple deadnettle	Smallflower buttercup	Pennsylvania blue	Giant ragweed
Crop Type, Code				
Crop Name				
Rating Date	Apr-27-2022	Apr-27-2022	Apr-27-2022	Apr-27-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	May-3-2022		May-3-2022	May-3-2022
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	170, 170	170, 170	170, 170	170, 170
Trt-Eval Interval				
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	1*	2*	3*	4*
1 Untreated Check		C		0-	0-	0-	0-
2 Roundup PowerMax	32 fl oz/a	A	Fall Application	100-	100-	100-	0-
2 Weedmaster	32 fl oz/a	A	Fall Application				
2 Roundup PowerMax	32 fl oz/a	B	Spring Burndown				
2 Preview	19.7 fl oz/a	B	Spring Burndown				
2 N PAK AMS	6 % v/v	B	Spring Burndown				
2 InterMoc	64 fl oz/a	C	V2-4				
2 N PAK AMS	6 % v/v	C	V2-4				
2 Interline	32 fl oz/a	D	V4-6				
2 N PAK AMS	6 % v/v	D	V4-6				
3 Roundup PowerMax	32 fl oz/a	A	Fall Application	100-	100-	100-	0-
3 Audit 1:1	0.75 oz/a	A	Fall Application				
3 Roundup PowerMax	32 fl oz/a	B	Spring Burndown				
3 Preview	19.7 fl oz/a	B	Spring Burndown				
3 N PAK AMS	6 % v/v	B	Spring Burndown				
3 InterMoc	64 fl oz/a	C	V2-4				
3 N PAK AMS	6 % v/v	C	V2-4				
3 Interline	32 fl oz/a	D	V4-6				
3 N PAK AMS	6 % v/v	D	V4-6				
4 Roundup PowerMax	32 fl oz/a	A	Fall Application	100-	100-	100-	0-
4 Audit 1:1	0.75 oz/a	A	Fall Application				
4 InterMoc	64 fl oz/a	B	Spring Burndown				
4 Classic	0.5 oz/a	B	Spring Burndown				
4 NIS	0.25 % v/v	B	Spring Burndown				
4 N PAK AMS	6 % v/v	B	Spring Burndown				
4 Interline	32 fl oz/a	D	V4-6				
4 N PAK AMS	6 % v/v	D	V4-6				

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	W, Weed LAMPU	W, Weed RANAB	W, Weed CARPE	W, Weed AMBTR
Pest Type	Lamium purpureum	Ranunculus abor>	Cardamine pensy>	Ambrosia trifida
Pest Code	purple deadnett>	Smallflower but>	Pennsylvania bi>	Giant ragweed
Pest Scientific Name				
Pest Name				
Crop Type, Code				
Crop Name				
Rating Date	Apr-27-2022	Apr-27-2022	Apr-27-2022	Apr-27-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	May-3-2022		May-3-2022	May-3-2022
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	170, 170	170, 170	170, 170	170, 170
Trt-Eval Interval				
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	1*	2*	3*	4*
5Roundup PowerMax	32 fl oz/a	A	Fall Application	100-	100-	100-	0-
5Audit 1:1	0.75 oz/a	A	Fall Application				
5InterMoc	64 fl oz/a	B	Spring Burndown				
5NIS	0.25 % v/v	B	Spring Burndown				
5N PAK AMS	6 % v/v	B	Spring Burndown				
5Interline	32 fl oz/a	D	V4-6				
5Classic	0.5 oz/a	D	V4-6				
5NIS	0.25 % v/v	D	V4-6				
5N PAK AMS	6 % v/v	D	V4-6				
6Roundup PowerMax	32 fl oz/a	A	Fall Application	100-	100-	100-	0-
6Tricor 75 DF / KFD-232-01	3 oz/a	A	Fall Application				
6Harmony Extra SG / KFD-332-01	0.75 oz/a	A	Fall Application				
6Roundup PowerMax	32 fl oz/a	B	Spring Burndown				
6Preview	19.7 fl oz/a	B	Spring Burndown				
6N PAK AMS	6 % v/v	B	Spring Burndown				
6InterMoc	64 fl oz/a	C	V2-4				
6N PAK AMS	6 % v/v	C	V2-4				
6Interline	32 fl oz/a	D	V4-6				
6N PAK AMS	6 % v/v	D	V4-6				
LSD P=.05				.	.	.	.
Standard Deviation				0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0
Grand Mean				83.3	83.3	83.3	0.0
Levene's F^				.	.	.	.
Levene's Prob(F)				.	.	.	.
Rank X2				.	.	.	.
P(Rank X2)				.	.	.	.
Skewness^				.	.	.	.
Kurtosis^				.	.	.	.
Replicate F				0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	SETFA	AMBTR	CHEAL	AMARE			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>			
Pest Name	Giant foxtail	Giant ragweed	common lambsqua>	Redroot pigweed			
Crop Type, Code							
Crop Name							
Rating Date	May-31-2022	May-31-2022	May-31-2022	May-31-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Number of Subsamples	1	1	1	1			
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022			
Rating Timing							
Days After First/Last Applic.	204, 33	204, 33	204, 33	204, 33			
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST			
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1			
Days After Emergence	15 DE-1	15 DE-1	15 DE-1	15 DE-1			
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment	Rate	Appl	Appl	5*	6*	7*	8*
No. Name	Rate Unit	Code	Description				
1 Untreated Check		C		10b	17b	33-	33-
2 Roundup PowerMax	32 fl oz/a	A	Fall Application	47 a	53 a	87-	100-
2 Weedmaster	32 fl oz/a	A	Fall Application				
2 Roundup PowerMax	32 fl oz/a	B	Spring Burndown				
2 Preview	19.7 fl oz/a	B	Spring Burndown				
2 N PAK AMS	6 % v/v	B	Spring Burndown				
2 InterMoc	64 fl oz/a	C	V2-4				
2 N PAK AMS	6 % v/v	C	V2-4				
2 Interline	32 fl oz/a	D	V4-6				
2 N PAK AMS	6 % v/v	D	V4-6				
3 Roundup PowerMax	32 fl oz/a	A	Fall Application	57 a	50 a	87-	100-
3 Audit 1:1	0.75 oz/a	A	Fall Application				
3 Roundup PowerMax	32 fl oz/a	B	Spring Burndown				
3 Preview	19.7 fl oz/a	B	Spring Burndown				
3 N PAK AMS	6 % v/v	B	Spring Burndown				
3 InterMoc	64 fl oz/a	C	V2-4				
3 N PAK AMS	6 % v/v	C	V2-4				
3 Interline	32 fl oz/a	D	V4-6				
3 N PAK AMS	6 % v/v	D	V4-6				
4 Roundup PowerMax	32 fl oz/a	A	Fall Application	77 a	57 a	87-	100-
4 Audit 1:1	0.75 oz/a	A	Fall Application				
4 InterMoc	64 fl oz/a	B	Spring Burndown				
4 Classic	0.5 oz/a	B	Spring Burndown				
4 NIS	0.25 % v/v	B	Spring Burndown				
4 N PAK AMS	6 % v/v	B	Spring Burndown				
4 Interline	32 fl oz/a	D	V4-6				
4 N PAK AMS	6 % v/v	D	V4-6				

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	SETFA	AMBTR	CHEAL	AMARE			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>			
Pest Name	Giant foxtail	Giant ragweed	common lambsqua>	Redroot pigweed			
Crop Type, Code							
Crop Name							
Rating Date	May-31-2022	May-31-2022	May-31-2022	May-31-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Number of Subsamples	1	1	1	1			
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022			
Rating Timing							
Days After First/Last Applic.	204, 33	204, 33	204, 33	204, 33			
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST			
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1			
Days After Emergence	15 DE-1	15 DE-1	15 DE-1	15 DE-1			
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment	Rate	Appl	Appl	5*	6*	7*	8*
No. Name	Rate Unit	Code	Description				
5 Roundup PowerMax	32 fl oz/a	A	Fall Application	73a	53a	83-	100-
5 Audit 1:1	0.75 oz/a	A	Fall Application				
5 InterMoc	64 fl oz/a	B	Spring Burndown				
5 NIS	0.25 % v/v	B	Spring Burndown				
5 N PAK AMS	6 % v/v	B	Spring Burndown				
5 Interline	32 fl oz/a	D	V4-6				
5 Classic	0.5 oz/a	D	V4-6				
5 NIS	0.25 % v/v	D	V4-6				
5 N PAK AMS	6 % v/v	D	V4-6				
6 Roundup PowerMax	32 fl oz/a	A	Fall Application	43a	53a	100-	100-
6 Tricor 75 DF / KFD-232-01	3 oz/a	A	Fall Application				
6 Harmony Extra SG / KFD-332-01	0.75 oz/a	A	Fall Application				
6 Roundup PowerMax	32 fl oz/a	B	Spring Burndown				
6 Preview	19.7 fl oz/a	B	Spring Burndown				
6 N PAK AMS	6 % v/v	B	Spring Burndown				
6 InterMoc	64 fl oz/a	C	V2-4				
6 N PAK AMS	6 % v/v	C	V2-4				
6 Interline	32 fl oz/a	D	V4-6				
6 N PAK AMS	6 % v/v	D	V4-6				
LSD P=.05				23.9	24.6	50.6	42.9
Standard Deviation				13.1	13.5	27.8	23.6
CV				25.68	28.59	34.98	26.52
Grand Mean				51.1	47.2	79.4	88.9
Levene's F^				0.287	0.577	0.349	0.533
Levene's Prob(F)				0.911	0.717	0.873	0.747
Rank X2				.	.	.	.
P(Rank X2)				.	.	.	.
Skewness^				-0.109	1.0145	0.9546	1.3829*
Kurtosis^				-0.6453	2.5338*	1.3365	4.8663*
Replicate F				0.032	0.854	0.655	1.000
Replicate Prob(F)				0.9684	0.4547	0.5405	0.4019
Treatment F				10.271	3.762	2.114	4.000
Treatment Prob(F)				0.0011	0.0355	0.1469	0.0297

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ABUTH	SETFA	ECHCG	AMBTR
Pest Scientific Name	Abutilon theoph>	Setaria faberi	Echinochloa cru>	Ambrosia trifida
Pest Name	velvetleaf	Giant foxtail	common barnyard>	Giant ragweed
Crop Type, Code				
Crop Name				
Rating Date	May-31-2022	Jun-13-2022	Jun-13-2022	Jun-13-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-2-2022	Jun-15-2022	Jun-15-2022	Jun-15-2022
Rating Timing				
Days After First/Last Applic.	204, 33	217, 13	217, 13	217, 13
Trt-Eval Interval	AT POST	13 DA-C	13 DA-C	13 DA-C
Plant-Eval Interval	34 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	15 DE-1	28 DE-1	28 DE-1	28 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl	Appl	
No. Name	Rate Unit	Code	Description	
1 Untreated Check		C		33- 57- 53- 92a
2 Roundup PowerMax	32 fl oz/a A		Fall Application	100- 63- 53- 75ab
2 Weedmaster	32 fl oz/a A		Fall Application	
2 Roundup PowerMax	32 fl oz/a B		Spring Burndown	
2 Preview	19.7 fl oz/a B		Spring Burndown	
2 N PAK AMS	6% v/v B		Spring Burndown	
2 InterMoc	64 fl oz/a C		V2-4	
2 N PAK AMS	6% v/v C		V2-4	
2 Interline	32 fl oz/a D		V4-6	
2 N PAK AMS	6% v/v D		V4-6	
3 Roundup PowerMax	32 fl oz/a A		Fall Application	100- 63- 50- 65b
3 Audit 1:1	0.75 oz/a A		Fall Application	
3 Roundup PowerMax	32 fl oz/a B		Spring Burndown	
3 Preview	19.7 fl oz/a B		Spring Burndown	
3 N PAK AMS	6% v/v B		Spring Burndown	
3 InterMoc	64 fl oz/a C		V2-4	
3 N PAK AMS	6% v/v C		V2-4	
3 Interline	32 fl oz/a D		V4-6	
3 N PAK AMS	6% v/v D		V4-6	
4 Roundup PowerMax	32 fl oz/a A		Fall Application	67- 57- 50- 33c
4 Audit 1:1	0.75 oz/a A		Fall Application	
4 InterMoc	64 fl oz/a B		Spring Burndown	
4 Classic	0.5 oz/a B		Spring Burndown	
4 NIS	0.25% v/v B		Spring Burndown	
4 N PAK AMS	6% v/v B		Spring Burndown	
4 Interline	32 fl oz/a D		V4-6	
4 N PAK AMS	6% v/v D		V4-6	

# The Ohio State University

2020-2021/FALL/SPRING/SOYBEAN/AUDIT 1:1/PREVIEW 2:1/INTERMOC/NO-TILL

Trial ID: 22FALLSOY1      Cooperator Trial ID:  
 Protocol ID: H21-US-040--577-001      Location:      Trial Year: 2021  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact: Joe Reed  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ABUTH	SETFA	ECHCG	AMBTR
Pest Scientific Name	Abutilon theoph>	Setaria faberi	Echinochloa cru>	Ambrosia trifida
Pest Name	velvetleaf	Giant foxtail	common barnyard>	Giant ragweed
Crop Type, Code				
Crop Name				
Rating Date	May-31-2022	Jun-13-2022	Jun-13-2022	Jun-13-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-2-2022	Jun-15-2022	Jun-15-2022	Jun-15-2022
Rating Timing				
Days After First/Last Applic.	204, 33	217, 13	217, 13	217, 13
Trt-Eval Interval	AT POST	13 DA-C	13 DA-C	13 DA-C
Plant-Eval Interval	34 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	15 DE-1	28 DE-1	28 DE-1	28 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment				
No. Name	Rate	Appl	Appl	
	Rate Unit	Code	Description	
5 Roundup PowerMax	32 fl oz/a	A	Fall Application	9* 50-
5 Audit 1:1	0.75 oz/a	A	Fall Application	10* 53-
5 InterMoc	64 fl oz/a	B	Spring Burndown	11* 47-
5 NIS	0.25 % v/v	B	Spring Burndown	12* 33c
5 N PAK AMS	6 % v/v	B	Spring Burndown	
5 Interline	32 fl oz/a	D	V4-6	
5 Classic	0.5 oz/a	D	V4-6	
5 NIS	0.25 % v/v	D	V4-6	
5 N PAK AMS	6 % v/v	D	V4-6	
6 Roundup PowerMax	32 fl oz/a	A	Fall Application	9* 87-
6 Tricor 75 DF / KFD-232-01	3 oz/a	A	Fall Application	10* 50-
6 Harmony Extra SG / KFD-332-01	0.75 oz/a	A	Fall Application	11* 47-
6 Roundup PowerMax	32 fl oz/a	B	Spring Burndown	12* 83ab
6 Preview	19.7 fl oz/a	B	Spring Burndown	
6 N PAK AMS	6 % v/v	B	Spring Burndown	
6 InterMoc	64 fl oz/a	C	V2-4	
6 N PAK AMS	6 % v/v	C	V2-4	
6 Interline	32 fl oz/a	D	V4-6	
6 N PAK AMS	6 % v/v	D	V4-6	
LSD P=.05	44.9	14.0	12.0	16.1
Standard Deviation	24.7	7.7	6.6	8.8
CV	33.91	13.41	13.17	13.89
Grand Mean	72.8	57.2	50.0	63.6
Levene's F^	0.642	0.563	0.483	0.428
Levene's Prob(F)	0.673	0.727	0.782	0.821
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	0.9642	0.5089	-0.1714	-0.2833
Kurtosis^	1.9823	-0.096	-0.5903	-0.4207
Replicate F	2.226	1.226	0.385	0.231
Replicate Prob(F)	0.1586	0.3339	0.6904	0.7976
Treatment F	3.732	1.453	0.615	24.146
Treatment Prob(F)	0.0363	0.2872	0.6914	0.0001



# The Ohio State University

2020-2021/FALL/SPRING/SOYBEAN/AUDIT 1:1/PREVIEW 2:1/INTERMOC/NO-TILL

Trial ID: 22FALLSOY1  
 Protocol ID: H21-US-040--577-001 Location: Cooperator Trial ID:  
 Project ID: Project ID 2: Project ID 3: Trial Year: 2021  
 Study Director: Sponsor Contact: Joe Reed  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed
Pest Code	CHEAL	ECHCG	AMBTR
Pest Scientific Name	Chenopodium alb>	Echinochloa cru>	Ambrosia trifida
Pest Name	common lambsqua>	common barnyard>	Giant ragweed
Crop Type, Code			
Crop Name			
Rating Date	Jun-13-2022	Jun-27-2022	Jun-27-2022
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1
Data Entry Date	Jun-15-2022	Jun-28-2022	Jun-28-2022
Rating Timing			
Days After First/Last Applic.	217, 13	231, 27	231, 27
Trt-Eval Interval	13 DA-C	27 DA-C	27 DA-C
Plant-Eval Interval	47 DP-1	61 DP-1	61 DP-1
Days After Emergence	28 DE-1	42 DE-1	42 DE-1
ARM Action Codes			
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	Appl
No. Name	Rate Unit	Code	Description
1 Untreated Check		C	
			13*
			14*
			15*
2 Roundup PowerMax	32 fl oz/a A	Fall Application	100-
2 Weedmaster	32 fl oz/a A	Fall Application	100-
2 Roundup PowerMax	32 fl oz/a B	Spring Burndown	100-
2 Preview	19.7 fl oz/a B	Spring Burndown	100-
2 N PAK AMS	6% v/v B	Spring Burndown	100-
2 InterMoc	64 fl oz/a C	V2-4	97-
2 N PAK AMS	6% v/v C	V2-4	97-
2 Interline	32 fl oz/a D	V4-6	97-
2 N PAK AMS	6% v/v D	V4-6	97-
3 Roundup PowerMax	32 fl oz/a A	Fall Application	100-
3 Audit 1:1	0.75 oz/a A	Fall Application	100-
3 Roundup PowerMax	32 fl oz/a B	Spring Burndown	100-
3 Preview	19.7 fl oz/a B	Spring Burndown	100-
3 N PAK AMS	6% v/v B	Spring Burndown	100-
3 InterMoc	64 fl oz/a C	V2-4	98-
3 N PAK AMS	6% v/v C	V2-4	98-
3 Interline	32 fl oz/a D	V4-6	98-
3 N PAK AMS	6% v/v D	V4-6	98-
4 Roundup PowerMax	32 fl oz/a A	Fall Application	80-
4 Audit 1:1	0.75 oz/a A	Fall Application	80-
4 InterMoc	64 fl oz/a B	Spring Burndown	88-
4 Classic	0.5 oz/a B	Spring Burndown	88-
4 NIS	0.25% v/v B	Spring Burndown	88-
4 N PAK AMS	6% v/v B	Spring Burndown	88-
4 Interline	32 fl oz/a D	V4-6	83b
4 N PAK AMS	6% v/v D	V4-6	83b

# The Ohio State University

2020-2021/FALL/SPRING/SOYBEAN/AUDIT 1:1/PREVIEW 2:1/INTERMOC/NO-TILL

Trial ID: 22FALLSOY1      Cooperator Trial ID:  
 Protocol ID: H21-US-040--577-001      Location:      Trial Year: 2021  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact: Joe Reed  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed
Pest Code	CHEAL	ECHCG	AMBTR
Pest Scientific Name	Chenopodium alb>	Echinochloa cru>	Ambrosia trifida
Pest Name	common lambsqua>	common barnyard>	Giant ragweed
Crop Type, Code			
Crop Name			
Rating Date	Jun-13-2022	Jun-27-2022	Jun-27-2022
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100
Number of Subsamples	1	1	1
Data Entry Date	Jun-15-2022	Jun-28-2022	Jun-28-2022
Rating Timing			
Days After First/Last Applic.	217, 13	231, 27	231, 27
Trt-Eval Interval	13 DA-C	27 DA-C	27 DA-C
Plant-Eval Interval	47 DP-1	61 DP-1	61 DP-1
Days After Emergence	28 DE-1	42 DE-1	42 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Appl Code	Appl Description	13*	14*	15*
5 Roundup PowerMax	32 fl oz/a	A	Fall Application	87-	80-	80b
5 Audit 1:1	0.75 oz/a	A	Fall Application			
5 InterMoc	64 fl oz/a	B	Spring Burndown			
5 NIS	0.25 % v/v	B	Spring Burndown			
5 N PAK AMS	6 % v/v	B	Spring Burndown			
5 Interline	32 fl oz/a	D	V4-6			
5 Classic	0.5 oz/a	D	V4-6			
5 NIS	0.25 % v/v	D	V4-6			
5 N PAK AMS	6 % v/v	D	V4-6			
6 Roundup PowerMax	32 fl oz/a	A	Fall Application	100-	98-	100a
6 Tricor 75 DF / KFD-232-01	3 oz/a	A	Fall Application			
6 Harmony Extra SG / KFD-332-01	0.75 oz/a	A	Fall Application			
6 Roundup PowerMax	32 fl oz/a	B	Spring Burndown			
6 Preview	19.7 fl oz/a	B	Spring Burndown			
6 N PAK AMS	6 % v/v	B	Spring Burndown			
6 InterMoc	64 fl oz/a	C	V2-4			
6 N PAK AMS	6 % v/v	C	V2-4			
6 Interline	32 fl oz/a	D	V4-6			
6 N PAK AMS	6 % v/v	D	V4-6			
LSD P=.05				32.3	16.2	5.0
Standard Deviation				17.8	8.9	2.7
CV				18.81	9.54	2.93
Grand Mean				94.4	93.6	93.3
Levene's F^				0.828	0.60	0.425
Levene's Prob(F)				0.554	0.701	0.823
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness^				-1.1372*	-0.2258	-0.2976
Kurtosis^				2.1674*	0.8457	-0.6965
Replicate F				0.493	0.749	1.667
Replicate Prob(F)				0.6249	0.4976	0.2373
Treatment F				0.746	2.317	33.333
Treatment Prob(F)				0.6067	0.1209	0.0001

# The Ohio State University

2020-2021/FALL/SPRING/SOYBEAN/AUDIT 1:1/PREVIEW 2:1/INTERMOC/NO-TILL

Trial ID: 22FALLSOY1      Cooperator Trial ID:  
 Protocol ID: H21-US-040--577-001      Location:      Trial Year: 2021  
 Project ID:      Project ID 2:      Project ID 3:  
 Study Director:      Sponsor Contact: Joe Reed  
 Investigator (Creator): Dr. Mark M. Loux

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, purple deadnettle = US  
 RANAB, Ranunculus abortivus, Smallflower buttercup = US  
 CARPE, Cardamine pensylvanica, Pennsylvania bittercress = US  
 AMBTR, Ambrosia trifida, Giant ragweed = US  
 SETFA, Setaria faberi, Giant foxtail = US  
 CHEAL, Chenopodium album, common lambsquarters = US  
 AMARE, Amaranthus retroflexus, Redroot pigweed = US  
 ABUTH, Abutilon theophrasti, velvetleaf = US  
 ECHCG, Echinochloa crus-galli, common barnyardgrass = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

Plant-Eval Interval

0 DP-1 = 1 GLXMA Apr-27-2022  
 34 DP-1 = 1 GLXMA Apr-27-2022  
 47 DP-1 = 1 GLXMA Apr-27-2022  
 61 DP-1 = 1 GLXMA Apr-27-2022