

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Status: E established
 ARM Trial Created On: Apr-13-2022

Trial Location

City: South Charleston Country: USA United States
 State/Prov.: Ohio
 Postal Code: 45368

Conducted Under GLP: No
 Conducted Under GEP: No

Crop Description

Crop 1: CHORVW *Hordeum vulgare*
 Entry Date: May-3-2022
 Variety: saved
 Planting Date: Oct-12-2021
 Depth: 1.5 IN
 Rows per Plot: 14
 Row Spacing: 7.5 IN

Winter barley
 Stage Scale: BBCH
 Planting Rate: 90 LB/A
 Planting Method: DRILLE drilled
 Planting Equipment: DD disc drill
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: GOOD good

Emergence Date: Oct-26-2021

Crop 2: CTRZAW *Triticum aestivum*
 Entry Date: May-3-2022
 Variety: saved
 Planting Date: Oct-12-2021
 Depth: 1.5 IN
 Rows per Plot: 14
 Row Spacing: 7.5 IN

Winter wheat
 Stage Scale: BBCH
 Planting Rate: 90 LB/A
 Planting Method: DRILLE drilled
 Planting Equipment: DD disc drill
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: GOOD good

Emergence Date: Oct-26-2021

Crop 3: CSECCW *Secale cereale*
 Entry Date: May-3-2022
 Variety: saved
 Planting Date: Oct-12-2021
 Depth: 1.5 IN
 Rows per Plot: 14
 Row Spacing: 7.5 IN

Winter rye
 Stage Scale: BBCH
 Planting Rate: 90 LB/A
 Planting Method: DRILLE drilled
 Planting Equipment: DD disc drill
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: GOOD good

Emergence Date: Oct-26-2021

Crop 4: CGLXMA *Glycine max*
 Entry Date: May-3-2022
 Variety: Pioneer P35T15E
 Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol
 Planting Date: Apr-27-2022
 Depth: 1.5 IN
 Rows per Plot: 8
 Row Spacing: 15 IN

Soybean
 Stage Scale: BBCH
 Planting Rate: 165000 S/A
 Planting Method: PLANTD planted
 Planting Equipment: PP plot planter
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: NORMAL normal, adequate

Soil Temperature: 50 F

Pest Description

Entry Date: May-3-2022

Site and Design

Treated Plot Width: 10 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 300.0 FT²
 Replications: 3 Treatments: 24 Plots: 72 Study Design: SPLPLO Split-Plot

Previous
 No. Crop Year
 1. CORN 2021

Soil Description

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

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Application Description

	A	B	C	D
Application Date	Apr-26-2022	May-11-2022	May-23-2022	Jun-15-2022
Appl. Start Time	10:15 AM	8:00 AM	1:20 PM	8:00 AM
Appl. Stop Time	11:00 AM	8:30 AM	1:50 PM	8:30 AM
Application Method	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing	7 EPP	7 DAPL	21 DAPL	POST
Application Placement	BROFOL	BROFOL	BROFOL	BROFOL
Applied By	Dobbels	Dobbels	Dobbels	Dobbels
Appl. Entry Date	May-3-2022	May-11-2022	May-25-2022	Oct-26-2022
Air Temperature Start, Stop	42, 43 F	66, 66 F	62, 62 F	80, 80 F
% Relative Humidity Start, Stop	69, 69	52, 52	66, 66	82, 82
Wind Velocity+Dir. Start	10 MPH, E	4 MPH, E	8 MPH, N	7 MPH, W
Wind Velocity+Dir. Stop	10 MPH, E	4 MPH, E	8 MPH, N	7 MPH, W
Wind Velocity+Dir. Max	11 MPH, E	5 MPH, E	8 MPH, N	7 MPH, W
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no
Soil Temperature	52 F	58 F	60 F	76 F
Soil Moisture	DRY	DRY	SLIDRY	NORMAL
Soil Surface Condition	MEDTRA	MEDTRA	MEDTRA	MEDTRA
% Cloud Cover	99	3	100	80
Next Moisture Occurred On	Apr-30-2022	May-14-2022	May-25-2022	
Time to Next Moisture	4.0 DAY	3.0 DAY	2.0 DAY	
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN	
Moisture 1 Week after Appl.	0.02 IN	0.84 IN	1.23 IN	

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale	HORVW, BCER	HORVW, BCER	HORVW, BCER	HORVW, BCER
Days after Emergence	182	197	209	232
Stage Majority, Percent	23, 80	50, 50	59, 100	
Stage Minimum, Percent	25, 10	45, 30		
Stage Maximum, Percent	25, 10	51, 20		
Height Average	8 IN	16 IN	26 IN	
Height Minimum, Maximum	6, 10	10, 20	24, 27	
Crop 2 Code, BBCH Scale	TRZAW, BCER	TRZAW, BCER	TRZAW, BCER	TRZAW, BCER
Days after Emergence	182	197	209	232
Stage Majority, Percent	25, 60	43, 75	59, 90	
Stage Minimum, Percent	26, 20	43, 10	59, 90	
Stage Maximum, Percent	26, 20	47, 25	61, 10	
Height Average	12 IN	22 IN	31 IN	
Height Minimum, Maximum	7, 15	16, 24	30, 32	
Crop 3 Code, BBCH Scale	SECCW, BCER	SECCW, BCER	SECCW, BCER	SECCW, BCER
Days after Emergence	182	197	209	232
Stage Majority, Percent	25, 80	51, 50	59, 80	
Stage Minimum, Percent	26, 10	47, 10	59, 80	
Stage Maximum, Percent	27, 10	51, 50	65, 20	
Height Average	12 IN	25 IN	47 IN	
Height Minimum, Maximum	7, 14	14, 28	28, 54	
Crop 4 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Stage Majority, Percent		05, 100	11, 100	14, 100
Height Average		0.25 IN	2 IN	7 IN
Height Minimum, Maximum		0.25, 0.33	1.5, 2.5	6, 8

Application Equipment

	A	B	C	D
Appl. Equipment	10' AIXR	10' AIXR	10' AIXR	10' AIXR
Equipment Type	BACCAI	BACCAI	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI	44 PSI	44 PSI
Nozzle Model	110015	110015	110015	110015
Nozzle Type	AI XR	AI XR	AI XR	AI XR
Nozzle TradeName	TeeJet	TeeJet	TeeJet	TeeJet
Nozzle Tip Size, Color	015, green	015, green	015, green	015, green
Nozzle Spacing	18 IN	18 IN	18 IN	18 IN
Boom Length	10 FT	10 FT	10 FT	10 FT
Boom Height	20 IN	20 IN	20 IN	20 IN
Ground Speed	3 MPH	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER	WATER
Water Hardness (ppm CaCO3)	250	250	250	250
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Overage	25 mL	25 mL	25 mL	25 mL
Mix Size	2 L	2 L	2 L	2 L
Spray pH	7.8	7.8	7.8	7.8
Propellant	COMCO2	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N)	Y, yes	Y, yes	Y, yes	Y, yes

Notes

Context	Date	By	Notes
STATUS	Apr-13-2022	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Mar-2-2022	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.
STATUS	May-11-2022	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type		W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		SETFA	AMBTR	POLPY	AMBEL
Pest Name		Giant foxtail	Giant ragweed	annual smartweed	Common ragweed

Crop Type, Code		cover crop at t>	soybean	soybean				
Crop Name			Jun-2-2022	Jun-2-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022
Rating Date								

Rating Type		COUPLA	COUPLA	count				
Rating Unit/Min/Max				.5 m2, -, -				
Number of Subsamples		1	1	1	1	1	1	1
Data Entry Date		May-3-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		37, 10	37, 10	49, 22	49, 22	49, 22	49, 22	49, 22
Trt-Eval Interval								
Days After Emergence		219 DE-1	219 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1
ARM Action Codes								
Number of Decimals								

Trt	Treatment	Rate	1*	2*	3*	4*	5*	6*	7*
No.	Name	Rate Unit							
1	Rye		47.520 fg	15.0-	13.3-	59.3 bcd	0.3-	0.0-	0.3-
1	7 EPP	1.96 lb ai/a							
1	Enlist Duo	1.96 lb ai/a							
1	AMSOL	2.5 % v/v							
2	Rye		41.733 fg	13.0-	14.0-	67.0 bcd	0.3-	0.0-	0.0-
2	7 EPP	2.3 lb ai/a							
2	Sequence	2.3 lb ai/a							
2	Pursuit	0.0625 lb ai/a							
2	Enlist One	0.475 lb ai/a							
2	AMSOL	2.5 % v/v							
3	Rye		107.707 bcd	14.0-	14.0-	26.3 cd	0.0-	0.0-	0.0-
3	7 DAPL	1.96 lb ai/a							
3	Enlist Duo	1.96 lb ai/a							
3	AMSOL	2.5 % v/v							
4	Rye		101.070 b-e	12.3-	12.3-	2.0 d	0.0-	0.0-	0.0-
4	7 DAPL	2.3 lb ai/a							
4	Sequence	2.3 lb ai/a							
4	Pursuit	0.0625 lb ai/a							
4	Enlist One	0.475 lb ai/a							
4	AMSOL	2.5 % v/v							
5	Rye		160.747 a	11.7-	13.0-	1.0 d	0.0-	0.0-	0.0-
5	21 DAPL	1.96 lb ai/a							
5	Enlist Duo	1.96 lb ai/a							
5	AMSOL	2.5 % v/v							
6	Rye		117.610 bc	11.7-	13.3-	0.0 d	0.0-	0.0-	0.0-
6	21 DAPL	2.3 lb ai/a							
6	Sequence	2.3 lb ai/a							
6	Pursuit	0.0625 lb ai/a							
6	Enlist One	0.475 lb ai/a							
6	AMSOL	2.5 % v/v							
7	Wheat		53.440 efg	12.0-	15.0-	151.0 abc	1.0-	0.0-	0.0-
7	7 EPP	1.96 lb ai/a							
7	Enlist Duo	1.96 lb ai/a							
7	AMSOL	2.5 % v/v							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type		W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		SETFA	AMBTR	POLPY	AMBEL
Pest Name		Giant foxtail	Giant ragweed	annual smartweed	Common ragweed

Crop Type, Code		cover crop at t>	soybean	soybean			
Crop Name			Jun-2-2022	Jun-2-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022
Rating Date							

Rating Type		COUPLA	COUPLA	count			
Rating Unit/Min/Max				.5 m2, -, -			
Number of Subsamples		1	1	1	1	1	1
Data Entry Date		May-3-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		37, 10	37, 10	49, 22	49, 22	49, 22	49, 22
Trt-Eval Interval							
Days After Emergence		219 DE-1	219 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1
ARM Action Codes							
Number of Decimals							

Trt	Treatment	Rate	1*	2*	3*	4*	5*	6*	7*
No.	Name	Rate Unit							
8	Wheat		55.753 efg	14.0-	13.0-	83.7 bcd	0.0-	0.0-	0.0-
8	7 EPP	2.3 lb ai/a							
8	Sequence	2.3 lb ai/a							
8	Pursuit	0.0625 lb ai/a							
8	Enlist One	0.475 lb ai/a							
8	AMSOL	2.5 % v/v							
9	Wheat		104.647 bcd	14.3-	13.7-	104.0 bcd	0.0-	0.0-	0.0-
9	7 DAPL	1.96 lb ai/a							
9	Enlist Duo	1.96 lb ai/a							
9	AMSOL	2.5 % v/v							
10	Wheat		79.643 c-f	12.0-	12.0-	23.7 cd	0.0-	0.0-	0.0-
10	7 DAPL	2.3 lb ai/a							
10	Sequence	2.3 lb ai/a							
10	Pursuit	0.0625 lb ai/a							
10	Enlist One	0.475 lb ai/a							
10	AMSOL	2.5 % v/v							
11	Wheat		118.243 bc	11.7-	13.7-	2.0 d	0.0-	0.0-	0.0-
11	21 DAPL	1.96 lb ai/a							
11	Enlist Duo	1.96 lb ai/a							
11	AMSOL	2.5 % v/v							
12	Wheat		135.553 ab	11.7-	12.0-	0.0 d	0.0-	0.0-	0.0-
12	21 DAPL	2.3 lb ai/a							
12	Sequence	2.3 lb ai/a							
12	Pursuit	0.0625 lb ai/a							
12	Enlist One	0.475 lb ai/a							
12	AMSOL	2.5 % v/v							
13	Barley		21.163 g	11.7-	12.0-	181.0 ab	0.7-	1.7-	0.0-
13	7 EPP	1.96 lb ai/a							
13	Enlist Duo	1.96 lb ai/a							
13	AMSOL	2.5 % v/v							
14	Barley		18.603 g	13.3-	12.7-	79.3 bcd	0.3-	0.0-	0.0-
14	7 EPP	2.3 lb ai/a							
14	Sequence	2.3 lb ai/a							
14	Pursuit	0.0625 lb ai/a							
14	Enlist One	0.475 lb ai/a							
14	AMSOL	2.5 % v/v							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type		W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		SETFA	AMBTR	POLPY	AMBEL
Pest Name		Giant foxtail	Giant ragweed	annual smartweed	Common ragweed

Crop Type, Code		cover crop at t>	soybean	soybean				
Crop Name			Jun-2-2022	Jun-2-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022
Rating Date								

Rating Type		COUPLA	COUPLA	count				
Rating Unit/Min/Max				.5 m2, -, -				
Number of Subsamples		1	1	1	1	1	1	1
Data Entry Date		May-3-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		37, 10	37, 10	49, 22	49, 22	49, 22	49, 22	49, 22
Trt-Eval Interval								
Days After Emergence		219 DE-1	219 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1
ARM Action Codes								
Number of Decimals								

Trt	Treatment	Rate	1*	2*	3*	4*	5*	6*	7*
No.	Name	Rate Unit							
15	Barley		39.063 fg	15.3-	14.3-	99.3 bcd	0.3-	0.0-	0.0-
15	7 DAPL	1.96 lb ai/a							
15	Enlist Duo	1.96 lb ai/a							
15	AMSOL	2.5 % v/v							
16	Barley		49.653 fg	15.0-	14.0-	27.0 cd	0.3-	0.0-	0.0-
16	7 DAPL	2.3 lb ai/a							
16	Sequence	2.3 lb ai/a							
16	Pursuit	0.0625 lb ai/a							
16	Enlist One	0.475 lb ai/a							
16	AMSOL	2.5 % v/v							
17	Barley		72.307 c-g	10.7-	11.0-	11.7 d	0.0-	0.0-	0.0-
17	21 DAPL	1.96 lb ai/a							
17	Enlist Duo	1.96 lb ai/a							
17	AMSOL	2.5 % v/v							
18	Barley		63.447 d-g	11.7-	10.7-	0.0 d	0.0-	0.0-	0.0-
18	21 DAPL	2.3 lb ai/a							
18	Sequence	2.3 lb ai/a							
18	Pursuit	0.0625 lb ai/a							
18	Enlist One	0.475 lb ai/a							
18	AMSOL	2.5 % v/v							
19	No Cover			13.0-	15.3-	227.7 a	0.3-	0.0-	0.0-
19	7 EPP	1.96 lb ai/a							
19	Enlist Duo	1.96 lb ai/a							
19	AMSOL	2.5 % v/v							
20	No Cover			13.0-	13.0-	106.7 bcd	0.3-	0.0-	0.0-
20	7 EPP	2.3 lb ai/a							
20	Sequence	2.3 lb ai/a							
20	Pursuit	0.0625 lb ai/a							
20	Enlist One	0.475 lb ai/a							
20	AMSOL	2.5 % v/v							
21	No Cover			13.3-	14.7-	101.3 bcd	0.7-	0.0-	0.0-
21	7 DAPL	1.96 lb ai/a							
21	Enlist Duo	1.96 lb ai/a							
21	AMSOL	2.5 % v/v							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	SETFA	AMBTR	POLPY	AMBEL
Pest Name	Giant foxtail	Giant ragweed	annual smartweed	Common ragweed

Crop Type, Code	cover crop at >	soybean	soybean				
Crop Name		Jun-2-2022	Jun-2-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022	Jun-14-2022
Rating Date							

Rating Type	COUPLA	COUPLA	count				
Rating Unit/Min/Max			.5 m2, -, -				
Number of Subsamples	1	1	1	1	1	1	1
Data Entry Date	May-3-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.	37, 10	37, 10	49, 22	49, 22	49, 22	49, 22	49, 22
Trt-Eval Interval							
Days After Emergence	219 DE-1	219 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1	231 DE-1
ARM Action Codes							
Number of Decimals							

Trt Treatment	Rate	1*	2*	3*	4*	5*	6*	7*
No. Name	Rate Unit							
22 No Cover			13.0-	14.7-	39.0 cd	0.0-	0.0-	0.0-
22 7 DAPL	2.3 lb ai/a							
22 Sequence	2.3 lb ai/a							
22 Pursuit	0.0625 lb ai/a							
22 Enlist One	0.475 lb ai/a							
22 AMSOL	2.5 % v/v							
23 No Cover			14.7-	10.0-	4.0 d	0.0-	0.0-	0.0-
23 21 DAPL	1.96 lb ai/a							
23 Enlist Duo	1.96 lb ai/a							
23 AMSOL	2.5 % v/v							
24 No Cover			12.7-	14.3-	0.0 d	0.3-	0.0-	0.0-
24 21 DAPL	2.3 lb ai/a							
24 Sequence	2.3 lb ai/a							
24 Pursuit	0.0625 lb ai/a							
24 Enlist One	0.475 lb ai/a							
24 AMSOL	2.5 % v/v							
LSD P=.05		32.3591	3.41	3.87	76.89	0.85	0.97	0.19
Standard Deviation		19.5014	2.07	2.36	46.79	0.52	0.59	0.12
CV		25.29	16.01	17.9	80.38	249.38	848.53	848.53
Grand Mean		77.1057	12.94	13.17	58.21	0.21	0.07	0.01
Levene's F^		0.645	0.675	0.788	0.907	0.617	0.877	0.877
Levene's Prob(F)		0.832	0.846	0.728	0.589	0.895	0.625	0.625
Rank X2		.	.	.	.	.	.	.
P(Rank X2)		.	.	.	.	.	.	.
Shapiro-Wilk^		0.9743	0.9845	0.9332*	0.9467*	0.8607*	0.365*	0.365*
P(Shapiro-Wilk)^		0.2968	0.5229	0.0009*	0.0042*	0.0*	0.0*	0.0*
Skewness^		-0.2422	-0.255	-0.8438*	0.4121	1.2917*	3.3132*	3.3132*
P(Skewness)^		0.4709	0.3801	0.0047*	0.1579	0.0*	0.0*	0.0*
Kurtosis^		0.7558	0.684	4.6099*	1.4818*	5.6647*	32.3507*	32.3507*
P(Kurtosis)^		0.2548	0.2345	0.0*	0.0114*	0.0*	0.0*	0.0*
Analyzed as		RCB	RCB	RCB	RCB	RCB	RCB	RCB
Replicate F		2.638	0.217	2.574	0.964	0.463	1.000	1.000
Replicate Prob(F)		0.0861	0.8059	0.0872	0.3889	0.6322	0.3757	0.3757
Treatment F		13.051	1.179	1.034	5.564	0.839	1.000	1.000
Treatment Prob(F)		0.0001	0.3094	0.4478	0.0001	0.6691	0.4839	0.4839

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ERICA	SETFA	AMBTR	POLPY	AMBEL	ERICA	GRASS	BROADLEA	
Pest Name	mare's-tail	Giant foxtail	Giant ragweed	annual smartweed	Common ragweed	mare's-tail	Grangea sp.		

Crop Type, Code									
Crop Name									
Rating Date	Jun-14-2022	Jun-14-2022				Jun-21-2022	Jun-21-2022		

Rating Type		contro	contro	contro	contro	contro	contro	biomass gra	biomass
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	.5 m2, -, -	.5 m2, -, -
Number of Subsamples		1	1	1	1	1	1	1	1
Data Entry Date	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		49, 22	49, 22					56, 6	56, 6
Trt-Eval Interval									
Days After Emergence		231 DE-1	231 DE-1					238 DE-1	238 DE-1
ARM Action Codes									
Number of Decimals									

Trt	Treatment	Rate	8*	9*	10*	11*	12*	13*	14*	15
No.	Name	Rate								
1	Rye		0.3b	59.3bcd	83.3a	100.0-	96.7-	60.0ab	4.863b	
1	7 EPP	1.96lb ai/a								
1	Enlist Duo	1.96lb ai/a								
1	AMSOL	2.5% v/v								
2	Rye		0.3b	73.3abc	80.0a	100.0-	86.7-	73.3a	0.740b	
2	7 EPP	2.3lb ai/a								
2	Sequence	2.3lb ai/a								
2	Pursuit	0.0625lb ai/a								
2	Enlist One	0.475lb ai/a								
2	AMSOL	2.5% v/v								
3	Rye		0.0b	81.7ab	93.3a	100.0-	100.0-	100.0a	0.898b	
3	7 DAPL	1.96lb ai/a								
3	Enlist Duo	1.96lb ai/a								
3	AMSOL	2.5% v/v								
4	Rye		0.3b	99.0a	100.0a	100.0-	100.0-	99.7a	0.245b	
4	7 DAPL	2.3lb ai/a								
4	Sequence	2.3lb ai/a								
4	Pursuit	0.0625lb ai/a								
4	Enlist One	0.475lb ai/a								
4	AMSOL	2.5% v/v								
5	Rye		0.0b	96.7a	100.0a	100.0-	100.0-	100.0a		
5	21 DAPL	1.96lb ai/a								
5	Enlist Duo	1.96lb ai/a								
5	AMSOL	2.5% v/v								
6	Rye		0.0b	100.0a	96.7a	100.0-	100.0-	100.0a		
6	21 DAPL	2.3lb ai/a								
6	Sequence	2.3lb ai/a								
6	Pursuit	0.0625lb ai/a								
6	Enlist One	0.475lb ai/a								
6	AMSOL	2.5% v/v								
7	Wheat		0.3b	50.0cd	83.3a	100.0-	100.0-	83.3a	5.273b	1.850
7	7 EPP	1.96lb ai/a								
7	Enlist Duo	1.96lb ai/a								
7	AMSOL	2.5% v/v								

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ERICA	SETFA	AMBTR	POLPY	AMBEL	ERICA	GRASS	BROADLEA
Pest Name	mare's-tail	Giant foxtail	Giant ragweed	annual smartweed	Common ragweed	mare's-tail	Grangea sp.	

Crop Type, Code								
Crop Name								
Rating Date	Jun-14-2022	Jun-14-2022				Jun-21-2022	Jun-21-2022	

Rating Type		contro	contro	contro	contro	contro	biomass gra	biomass
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	.5 m2, -, -	.5 m2, -, -
Number of Subsamples		1	1	1	1	1	1	1
Data Entry Date	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		49, 22	49, 22				56, 6	56, 6
Trt-Eval Interval								
Days After Emergence		231 DE-1	231 DE-1				238 DE-1	238 DE-1
ARM Action Codes								
Number of Decimals								

Trt	Treatment	Rate	8*	9*	10*	11*	12*	13*	14*	15
No.	Name	Rate Unit								
8	Wheat		1.0 ab	73.0 abc	90.0 a	100.0 -	100.0 -	78.3 a	1.478 b	
8	7 EPP	2.3 lb ai/a								
8	Sequence	2.3 lb ai/a								
8	Pursuit	0.0625 lb ai/a								
8	Enlist One	0.475 lb ai/a								
8	AMSOL	2.5 % v/v								
9	Wheat		0.0 b	68.3 abc	93.3 a	100.0 -	100.0 -	100.0 a	1.813 b	
9	7 DAPL	1.96 lb ai/a								
9	Enlist Duo	1.96 lb ai/a								
9	AMSOL	2.5 % v/v								
10	Wheat		0.0 b	95.0 a	100.0 a	100.0 -	100.0 -	100.0 a	0.362 b	
10	7 DAPL	2.3 lb ai/a								
10	Sequence	2.3 lb ai/a								
10	Pursuit	0.0625 lb ai/a								
10	Enlist One	0.475 lb ai/a								
10	AMSOL	2.5 % v/v								
11	Wheat		0.0 b	98.7 a	100.0 a	100.0 -	100.0 -	100.0 a	0.740 b	
11	21 DAPL	1.96 lb ai/a								
11	Enlist Duo	1.96 lb ai/a								
11	AMSOL	2.5 % v/v								
12	Wheat		0.0 b	100.0 a	98.7 a	100.0 -	100.0 -	100.0 a		
12	21 DAPL	2.3 lb ai/a								
12	Sequence	2.3 lb ai/a								
12	Pursuit	0.0625 lb ai/a								
12	Enlist One	0.475 lb ai/a								
12	AMSOL	2.5 % v/v								
13	Barley		0.7 b	0.0 e	26.7 b	66.7 -	66.7 -	36.7 b	9.033 a	1.173
13	7 EPP	1.96 lb ai/a								
13	Enlist Duo	1.96 lb ai/a								
13	AMSOL	2.5 % v/v								
14	Barley		2.0 a	60.0 bcd	66.7 a	100.0 -	93.3 -	63.3 ab	3.640 b	0.970
14	7 EPP	2.3 lb ai/a								
14	Sequence	2.3 lb ai/a								
14	Pursuit	0.0625 lb ai/a								
14	Enlist One	0.475 lb ai/a								
14	AMSOL	2.5 % v/v								

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ERICA	SETFA	AMBTR	POLPY	AMBEL	ERICA	GRASS	BROADLEA
Pest Name	mare's-tail	Giant foxtail	Giant ragweed	annual smartweed	Common ragweed	mare's-tail	Grangea sp.	

Crop Type, Code								
Crop Name								
Rating Date	Jun-14-2022	Jun-14-2022				Jun-21-2022	Jun-21-2022	

Rating Type		contro	contro	contro	contro	contro	biomass gra	biomass
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	.5 m2, -, -	.5 m2, -, -
Number of Subsamples		1	1	1	1	1	1	1
Data Entry Date	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		49, 22	49, 22				56, 6	56, 6
Trt-Eval Interval								
Days After Emergence		231 DE-1	231 DE-1				238 DE-1	238 DE-1
ARM Action Codes								
Number of Decimals								

Trt	Treatment	Rate	8*	9*	10*	11*	12*	13*	14*	15
No.	Name	Unit								
15	Barley		0.0b	43.3cd	76.7 a	100.0-	100.0-	99.3 a	1.777 b	
15	7 DAPL	1.96 lb ai/a								
15	Enlist Duo	1.96 lb ai/a								
15	AMSOL	2.5 % v/v								
16	Barley		0.7b	89.3ab	85.0 a	100.0-	100.0-	78.3 a	1.205 b	
16	7 DAPL	2.3 lb ai/a								
16	Sequence	2.3 lb ai/a								
16	Pursuit	0.0625 lb ai/a								
16	Enlist One	0.475 lb ai/a								
16	AMSOL	2.5 % v/v								
17	Barley		0.0b	93.3 a	100.0 a	100.0-	100.0-	100.0 a	0.495 b	
17	21 DAPL	1.96 lb ai/a								
17	Enlist Duo	1.96 lb ai/a								
17	AMSOL	2.5 % v/v								
18	Barley		0.0b	100.0 a	100.0 a	100.0-	100.0-	100.0 a		
18	21 DAPL	2.3 lb ai/a								
18	Sequence	2.3 lb ai/a								
18	Pursuit	0.0625 lb ai/a								
18	Enlist One	0.475 lb ai/a								
18	AMSOL	2.5 % v/v								
19	No Cover		0.0b	0.0e	73.3 a	100.0-	100.0-	93.3 a	10.960 a	2.330
19	7 EPP	1.96 lb ai/a								
19	Enlist Duo	1.96 lb ai/a								
19	AMSOL	2.5 % v/v								
20	No Cover		1.0 ab	60.0bcd	83.3 a	100.0-	100.0-	70.0 ab	3.387 b	
20	7 EPP	2.3 lb ai/a								
20	Sequence	2.3 lb ai/a								
20	Pursuit	0.0625 lb ai/a								
20	Enlist One	0.475 lb ai/a								
20	AMSOL	2.5 % v/v								
21	No Cover		0.3b	36.7 d	86.7 a	100.0-	100.0-	90.0 a	4.940 b	
21	7 DAPL	1.96 lb ai/a								
21	Enlist Duo	1.96 lb ai/a								
21	AMSOL	2.5 % v/v								

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ERICA	SETFA	AMBTR	POLPY	AMBEL	ERICA	GRASS	BROADLEA
Pest Name	mare's-tail	Giant foxtail	Giant ragweed	annual smartweed	Common ragweed	mare's-tail	Grangea sp.	

Crop Type, Code								
Crop Name								
Rating Date	Jun-14-2022	Jun-14-2022				Jun-21-2022	Jun-21-2022	

Rating Type		contro	contro	contro	contro	contro	biomass gra	biomass
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	.5 m2, -, -	.5 m2, -, -
Number of Subsamples		1	1	1	1	1	1	1
Data Entry Date	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.		49, 22	49, 22				56, 6	56, 6
Trt-Eval Interval								
Days After Emergence		231 DE-1	231 DE-1				238 DE-1	238 DE-1
ARM Action Codes								
Number of Decimals								

Trt Treatment	Rate	8*	9*	10*	11*	12*	13*	14*	15
22 No Cover		0.7 b	85.0 ab	99.3 a	100.0 -	100.0 -	85.0 a	0.987 b	
22 7 DAPL	2.3 lb ai/a								
22 Sequence	2.3 lb ai/a								
22 Pursuit	0.0625 lb ai/a								
22 Enlist One	0.475 lb ai/a								
22 AMSOL	2.5 % v/v								
23 No Cover		0.0 b	97.3 a	100.0 a	100.0 -	100.0 -	100.0 a	0.750 b	
23 21 DAPL	1.96 lb ai/a								
23 Enlist Duo	1.96 lb ai/a								
23 AMSOL	2.5 % v/v								
24 No Cover		0.0 b	99.7 a	99.3 a	100.0 -	100.0 -	98.3 a		
24 21 DAPL	2.3 lb ai/a								
24 Sequence	2.3 lb ai/a								
24 Pursuit	0.0625 lb ai/a								
24 Enlist One	0.475 lb ai/a								
24 AMSOL	2.5 % v/v								
LSD P=.05		0.86	19.78	33.78	19.37	20.65	25.92	2.1180	.
Standard Deviation		0.52	12.04	20.54	11.79	12.57	15.77	1.2473	.
CV		163.0	16.42	23.33	11.95	12.87	17.95	36.91	.
Grand Mean		0.32	73.32	88.04	98.61	97.64	87.88	3.3798	0.7225
Levene's F^		0.682	0.872	0.685	0.877	0.723	0.84	0.621	.
Levene's Prob(F)		0.839	0.631	0.836	0.625	0.799	0.668	0.847	.
Rank X2		.	.	.	.	.	.	.	.
P(Rank X2)		.	.	.	.	.	.	.	.
Shapiro-Wilk^		0.9332*	0.9534*	0.9028*	0.365*	0.5647*	0.9442*	0.9585	.
P(Shapiro-Wilk)^		0.0009*	0.0095*	0.0*	0.0*	0.0*	0.0031*	0.1301	.
Skewness^		0.6161*	0.3557	-1.1385*	-3.3132*	-2.5912*	-0.1468	0.0533	.
P(Skewness)^		0.0363*	0.222	0.0002*	0.0*	0.0*	0.6127	0.8886	.
Kurtosis^		0.6193	2.4101*	3.8228*	32.3507*	21.5308*	1.4841*	0.0478	.
P(Kurtosis)^		0.2812	0.0*	0.0*	0.0*	0.0*	0.0113*	0.949	.
Analyzed as		RCB	RCB	RCB	RCB	RCB	RCB	RCB	SPP
Replicate F		5.276	2.196	0.362	1.000	2.542	0.996	3.495	
Replicate Prob(F)		0.0087	0.1227	0.6981	0.3757	0.0897	0.3773	0.0489	
Treatment F		2.617	18.638	1.916	1.000	1.000	3.476	15.193	
Treatment Prob(F)		0.0027	0.0001	0.0308	0.4839	0.4839	0.0002	0.0001	

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA
Pest Code	SETFA	AMBTR	ERICA	Soybean	Soybean	Soybean	Soybean
Pest Name	Giant foxtail	Giant ragweed	mare's-tail				
Crop Type, Code							
Crop Name							
Rating Date	Sep-29-2022	Sep-29-2022	Sep-29-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022
Rating Type	contro	contro	contro	WEIGHT	MOICON	YIELD	WEITES
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100			BU, -, -	
Number of Subsamples	1	1	1	1	1	1	1
Data Entry Date	Oct-26-2022		Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022
Days After First/Last Applic.	156, 106	156, 106	156, 106	162, 112	162, 112	162, 112	162, 112
Trt-Eval Interval				162 DA-A	162 DA-A	162 DA-A	162 DA-A
Days After Emergence	338 DE-1	338 DE-1	338 DE-1				
ARM Action Codes						TY1	
Number of Decimals						1	

Trt No.	Treatment Name	Rate Unit	16*	17*	18*	19*	20*	21*	22*
1	Rye		100.0-	100.0-	100.0-	21.51554-	13.123-	83.1-	56.4590-
1	7 EPP	1.96 lb ai/a							
1	Enlist Duo	1.96 lb ai/a							
1	AMSOL	2.5 % v/v							
2	Rye		100.0-	100.0-	100.0-	21.41004-	13.920-	81.7-	55.6107-
2	7 EPP	2.3 lb ai/a							
2	Sequence	2.3 lb ai/a							
2	Pursuit	0.0625 lb ai/a							
2	Enlist One	0.475 lb ai/a							
2	AMSOL	2.5 % v/v							
3	Rye		100.0-	100.0-	100.0-	21.53800-	13.200-	82.9-	57.5177-
3	7 DAPL	1.96 lb ai/a							
3	Enlist Duo	1.96 lb ai/a							
3	AMSOL	2.5 % v/v							
4	Rye		100.0-	100.0-	100.0-	23.03214-	13.147-	89.0-	55.5870-
4	7 DAPL	2.3 lb ai/a							
4	Sequence	2.3 lb ai/a							
4	Pursuit	0.0625 lb ai/a							
4	Enlist One	0.475 lb ai/a							
4	AMSOL	2.5 % v/v							
5	Rye		100.0-	100.0-	100.0-	19.61354-	13.667-	75.2-	56.0967-
5	21 DAPL	1.96 lb ai/a							
5	Enlist Duo	1.96 lb ai/a							
5	AMSOL	2.5 % v/v							
6	Rye		100.0-	100.0-	100.0-	20.55844-	13.497-	78.9-	55.2197-
6	21 DAPL	2.3 lb ai/a							
6	Sequence	2.3 lb ai/a							
6	Pursuit	0.0625 lb ai/a							
6	Enlist One	0.475 lb ai/a							
6	AMSOL	2.5 % v/v							
7	Wheat		100.0-	100.0-	100.0-	19.75477-	13.180-	76.1-	57.0497-
7	7 EPP	1.96 lb ai/a							
7	Enlist Duo	1.96 lb ai/a							
7	AMSOL	2.5 % v/v							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	
Pest Code	SETFA	AMBTR	ERICA	Soybean	Soybean	Soybean	Soybean	
Pest Name	Giant foxtail	Giant ragweed	mare's-tail					
Crop Type, Code	Sep-29-202	Sep-29-2022	Sep-29-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	
Crop Name								
Rating Date	2							
Rating Type	contro	contro	contro	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100			BU, -, -		
Number of Subsamples	1	1	1	1	1	1	1	
Data Entry Date	Oct-26-2022		Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	
Days After First/Last Applic.	156, 106	156, 106	156, 106	162, 112	162, 112	162, 112	162, 112	
Trt-Eval Interval				162 DA-A	162 DA-A	162 DA-A	162 DA-A	
Days After Emergence	338 DE-1	338 DE-1	338 DE-1					
ARM Action Codes						TY1		
Number of Decimals						1		
Trt Treatment	Rate	16*	17*	18*	19*	20*	21*	22*
No. Name	Rate Unit							
8 Wheat		100.0-	100.0-	100.0-	20.17620-	13.477-	77.4-	56.2697-
8 7 EPP	2.3lb ai/a							
8 Sequence	2.3lb ai/a							
8 Pursuit	0.0625lb ai/a							
8 Enlist One	0.475lb ai/a							
8 AMSOL	2.5% v/v							
9 Wheat		100.0-	100.0-	100.0-	19.25194-	13.630-	74.0-	56.7907-
9 7 DAPL	1.96lb ai/a							
9 Enlist Duo	1.96lb ai/a							
9 AMSOL	2.5% v/v							
10 Wheat		100.0-	100.0-	100.0-	20.76360-	14.020-	79.1-	55.3830-
10 7 DAPL	2.3lb ai/a							
10 Sequence	2.3lb ai/a							
10 Pursuit	0.0625lb ai/a							
10 Enlist One	0.475lb ai/a							
10 AMSOL	2.5% v/v							
11 Wheat		100.0-	100.0-	100.0-	20.39787-	13.223-	78.7-	54.9710-
11 21 DAPL	1.96lb ai/a							
11 Enlist Duo	1.96lb ai/a							
11 AMSOL	2.5% v/v							
12 Wheat		100.0-	100.0-	100.0-	21.83364-	14.707-	82.6-	54.6517-
12 21 DAPL	2.3lb ai/a							
12 Sequence	2.3lb ai/a							
12 Pursuit	0.0625lb ai/a							
12 Enlist One	0.475lb ai/a							
12 AMSOL	2.5% v/v							
13 Barley		100.0-	100.0-	100.0-	22.83634-	14.497-	86.9-	55.0963-
13 7 EPP	1.96lb ai/a							
13 Enlist Duo	1.96lb ai/a							
13 AMSOL	2.5% v/v							
14 Barley		100.0-	100.0-	100.0-	23.03590-	13.780-	88.4-	54.2347-
14 7 EPP	2.3lb ai/a							
14 Sequence	2.3lb ai/a							
14 Pursuit	0.0625lb ai/a							
14 Enlist One	0.475lb ai/a							
14 AMSOL	2.5% v/v							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	
Pest Code	SETFA	AMBTR	ERICA	Soybean	Soybean	Soybean	Soybean	
Pest Name	Giant foxtail	Giant ragweed	mare's-tail					
Crop Type, Code								
Crop Name								
Rating Date	Sep-29-2022	Sep-29-2022	Sep-29-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	
Rating Type	contro	contro	contro	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100			BU, -, -		
Number of Subsamples	1	1	1	1	1	1	1	
Data Entry Date	Oct-26-2022		Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	
Days After First/Last Applic.	156, 106	156, 106	156, 106	162, 112	162, 112	162, 112	162, 112	
Trt-Eval Interval				162 DA-A	162 DA-A	162 DA-A	162 DA-A	
Days After Emergence	338 DE-1	338 DE-1	338 DE-1					
ARM Action Codes						TY1		
Number of Decimals						1		
Trt Treatment	Rate	16*	17*	18*	19*	20*	21*	22*
No. Name	Rate Unit							
15 Barley		100.0-	100.0-	100.0-	22.13507-	13.330-	85.3-	55.8570-
15 7 DAPL	1.96lb ai/a							
15 Enlist Duo	1.96lb ai/a							
15 AMSOL	2.5% v/v							
16 Barley		100.0-	100.0-	100.0-	22.63857-	14.243-	86.2-	55.4310-
16 7 DAPL	2.3lb ai/a							
16 Sequence	2.3lb ai/a							
16 Pursuit	0.0625lb ai/a							
16 Enlist One	0.475lb ai/a							
16 AMSOL	2.5% v/v							
17 Barley		100.0-	100.0-	100.0-	21.67854-	15.060-	82.1-	55.7893-
17 21 DAPL	1.96lb ai/a							
17 Enlist Duo	1.96lb ai/a							
17 AMSOL	2.5% v/v							
18 Barley		100.0-	100.0-	100.0-	23.11044-	15.643-	86.7-	54.9657-
18 21 DAPL	2.3lb ai/a							
18 Sequence	2.3lb ai/a							
18 Pursuit	0.0625lb ai/a							
18 Enlist One	0.475lb ai/a							
18 AMSOL	2.5% v/v							
19 No Cover		100.0-	100.0-	100.0-	21.98557-	14.670-	83.5-	56.6350-
19 7 EPP	1.96lb ai/a							
19 Enlist Duo	1.96lb ai/a							
19 AMSOL	2.5% v/v							
20 No Cover		100.0-	100.0-	100.0-	20.91630-	14.060-	79.8-	57.2890-
20 7 EPP	2.3lb ai/a							
20 Sequence	2.3lb ai/a							
20 Pursuit	0.0625lb ai/a							
20 Enlist One	0.475lb ai/a							
20 AMSOL	2.5% v/v							
21 No Cover		100.0-	100.0-	100.0-	23.09584-	14.680-	87.5-	56.3177-
21 7 DAPL	1.96lb ai/a							
21 Enlist Duo	1.96lb ai/a							
21 AMSOL	2.5% v/v							

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	
Pest Code	SETFA	AMBTR	ERICA	Soybean	Soybean	Soybean	Soybean	
Pest Name	Giant foxtail	Giant ragweed	mare's-tail					
Crop Type, Code	Sep-29-202	Sep-29-2022	Sep-29-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	Oct-5-2022	
Crop Name								
Rating Date	2							
Rating Type	contro	contro	contro	WEIGHT	MOICON	YIELD	WEITES	
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100			BU, -, -		
Number of Subsamples	1	1	1	1	1	1	1	
Data Entry Date	Oct-26-2022		Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	Oct-26-2022	
Days After First/Last Applic.	156, 106	156, 106	156, 106	162, 112	162, 112	162, 112	162, 112	
Trt-Eval Interval				162 DA-A	162 DA-A	162 DA-A	162 DA-A	
Days After Emergence	338 DE-1	338 DE-1	338 DE-1					
ARM Action Codes						TY1		
Number of Decimals						1		
Trt Treatment	Rate	16*	17*	18*	19*	20*	21*	22*
No. Name	Rate Unit							
22 No Cover		100.0-	100.0-	100.0-	22.57204-	13.637-	86.7-	56.3147-
22 7 DAPL	2.3lb ai/a							
22 Sequence	2.3lb ai/a							
22 Pursuit	0.0625lb ai/a							
22 Enlist One	0.475lb ai/a							
22 AMSOL	2.5% v/v							
23 No Cover		100.0-	100.0-	100.0-	21.10020-	14.400-	80.3-	55.4503-
23 21 DAPL	1.96lb ai/a							
23 Enlist Duo	1.96lb ai/a							
23 AMSOL	2.5% v/v							
24 No Cover		100.0-	100.0-	100.0-	23.33364-	14.377-	88.9-	55.5640-
24 21 DAPL	2.3lb ai/a							
24 Sequence	2.3lb ai/a							
24 Pursuit	0.0625lb ai/a							
24 Enlist One	0.475lb ai/a							
24 AMSOL	2.5% v/v							
LSD P=.05					4.175746	3.2657	14.33	2.30207
Standard Deviation	0.00	0.00	0.00	2.540730	1.9870	8.72	1.40069	
CV	0.0	0.0	0.0	11.77	14.23	10.56	2.51	
Grand Mean	100.00	100.00	100.00	21.595172	13.9653	82.55	55.85630	
Levene's F^				0.321	0.47	0.314	0.485	
Levene's Prob(F)				0.998	0.974	0.998	0.969	
Rank X2								
P(Rank X2)								
Shapiro-Wilk^				0.9893	0.9758	0.9874	0.9814	
P(Shapiro-Wilk)^				0.8078	0.1794	0.6908	0.3634	
Skewness^				-0.0892	0.5278	-0.1691	-0.3584	
P(Skewness)^				0.7584	0.0718	0.5601	0.2186	
Kurtosis^				-0.3211	0.0291	-0.3082	-0.0618	
P(Kurtosis)^				0.5753	0.9595	0.5907	0.9141	
Analyzed as	RCB	RCB	RCB	RCB	RCB	RCB	RCB	
Replicate F	0.000	0.000	0.000	13.505	5.398	14.471	0.624	
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0078	0.0001	0.5403	
Treatment F	0.000	0.000	0.000	0.699	0.352	0.802	1.075	
Treatment Prob(F)	1.0000	1.0000	1.0000	0.8223	0.9957	0.7121	0.4056	

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean separations are based on the complete error term.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, the effective replicates used for mean comparisons are: col. 1-9,11-13,16-22=3; 10=2.9; 14=1.8
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 15,16,17,18 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Trial ID: 22RWBCOVER_2 Cooperator Trial ID:
 Protocol ID: 22RWBCOVE Location: Trial Year: 2021
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
 AMBTR, Ambrosia trifida, Giant ragweed = US
 POLPY, Persicaria pensylvanica, annual smartweed = US
 AMBEL, Ambrosia artemisiifolia, Common ragweed = US
 ERICA, Erigeron canadensis, mare's-tail = US
 GRASS, Grangea sp., Grangea sp. = US

Crop Type Code

C = EPPO species (Bayer) codes
 , , , cover crop at termination = US
 , , , soybean = US
 GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

COUPLA = count - plant / emergence - objective
 contro = control / burndown or knockdown
 WEIGHT = weight
 MOICON = moisture content
 YIELD = yield
 WEITES = weight - test

Rating Unit/Min/Max

%, 0, 100 = percent
 BU, , = bushel