

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 Project ID: Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

General Trial Information

Investigator: Dr. Mark M. Loux Title: Professor

Discipline: H herbicide
 Status: E established Usage/Type: 0 Research and Development
 ARM Trial Created On: Mar-28-2022
 Initiation Date: Apr-27-2022

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 °: 39.8595 N
 Longitude of LL Corner °: -83.6754 W
 Altitude of LL Corner: 1086.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No
 None

Role: INVEST investigator
 Investigator: Dr. Mark M. Loux Title: Professor
 Organization: The Ohio State University Org. Type: University
 Address 1: 2021 Coffey Road
 Country: USA United States
 City: Columbus State/Prov: OH Postal Code: 43210

Crop Description

Crop 1: C GLXMA Glycine max Soybean BBCH Scale: BSOY
 Entry Date: May-3-2022 Stage Scale: BBCH
 Variety: AG35FX1
 Attributes: DICAMBA, GLYPHOSATE, GLUFOSINATE TOL
 Seed Lot No: WN1SBT1WN1 Seed Source: Asgrow
 % Germination: 85 1000 Grain Weight: 0.388 LB
 Planting Date: Apr-27-2022 Planting Rate: 165000 S/A
 Depth: 1.5 IN
 Rows per Plot: 8
 Row Spacing: 15 IN
 Planting Method: PLANTD planted
 Planting Equipment: PP plot planter
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: NORMAL normal, adequate
 Soil Temperature: 52 F
 Emergence Date: May-16-2022
 Harvest Date: Oct-5-2022
 Moisture Meter: Harvest Master
 % Standard Moisture: 13
 Harvest Equipment: Kincaid 8XP
 Harvested Width: 6.25 FT
 Harvested Length: 30 FT
 Weighing Equipment: Harvest Master HM800

Pest Description

Pest 1 Type: W Code: ERICA Erigeron canadensis Entry Date: May-3-2022
 Common Name: mare's-tail Stage Scale: BBCH

Pest 2 Type: W Code: LAMPU Lamium purpureum Entry Date: May-3-2022
 Common Name: purple deadnettle Stage Scale: BBCH

Pest 3 Type: W Code: RANAB Ranunculus abortivus Entry Date: May-3-2022
 Common Name: Smallflower buttercup Stage Scale: BBCH

Pest 4 Type: W Code: ERYRE Erysimum repandum Entry Date: May-3-2022
 Common Name: spreading treacle mustard Stage Scale: BBCH

Pest 5 Type: W Code: TAROF Taraxacum officinale Entry Date: May-3-2022
 Common Name: dandelion Stage Scale: BBCH

Pest 6 Type: W Code: TRZAW Triticum aestivum Entry Date: May-3-2022
 Common Name: Winter wheat Stage Scale: BBCH

Pest 7 Type: W Code: SETFA Setaria faberi Entry Date: Jun-9-2022
 Common Name: Giant foxtail Stage Scale: BBCH

Pest 8 Type: W Code: AMBTR Ambrosia trifida Entry Date: Jun-9-2022
 Common Name: Giant ragweed Stage Scale: BBCH

Pest 9 Type: W Code: AMBEL Ambrosia artemisiifolia Entry Date: Jun-9-2022
 Common Name: Common ragweed Stage Scale: BBCH

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Site and Design

Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Total Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 200.1 FT² Tillage Type: NOTILL no-till
 Replications: 3 Treatments: 10 Plots: 30 Study Design: RACOB L Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block
 Block Arrangement: B2APSS block 2 above 1, 3 above 4, 2 beside 3, 1 beside 4, plots side by side
 Distance between Blocks: 5 FT

Previous
 No. Crop Year
 1. WHEAT 2021

Maintenance

No.	Date	Type	Maintenance Product Name	Rate	Unit
1.	Jul-12-2022	MAINT	Select Max	12	OZ.

Comment: start time: 11:32
 finish time: 11:38
 temperature: 81 F
 Relative Humidity: 62 F
 soil Temperature: 74 F
 wind speed: 11 mph
 wind direction: west
 cloud cover : 30%
 soybean stage: R1
 soybean height: 15"-22" average: 19"

Soil Description

Description Name: F-10 West
 % Sand: 31 % OM: 1.6 Texture: L loam
 % Silt: 54 Soil Name: Crosby
 % Clay: 15 Fert. Level: G good
 pH: 6.5 CEC: 11

Application Description

	A	B
Application Date	Apr-28-2022	Jun-8-2022
Appl. Start Time	11:30 AM	9:00 AM
Appl. Stop Time	11:50 AM	9:30 AM
Application Method	NONINC	SPRAY
Application Timing	PREPLA	POST
Application Placement	BROFOL	BROFOL
Applied By	Essman	Loux
Appl. Entry Date	May-3-2022	Jun-9-2022
Air Temperature Start, Stop	42, 42 F	66, 66 F
% Relative Humidity Start, Stop	63, 63	70, 70
Wind Velocity+Dir. Start	5 MPH, E	3 MPH, E
Wind Velocity+Dir. Stop	5 MPH, E	3 MPH, E
Wind Velocity+Dir. Max	5 MPH, E	3 MPH, E
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	51 F	61 F
Soil Moisture	DRY	SLIDRY
Soil Surface Condition	MEDTRA	MEDTRA
% Cloud Cover	90	20
Next Moisture Occurred On	Apr-30-2022	Jun-8-2022
Time to Next Moisture	2.0 DAY	8.0 HR
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	1.1 IN	1.92 IN

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-18	23
Stage Majority, Percent		12, 80
Stage Minimum, Percent		12, 10
Stage Maximum, Percent		13, 10
Height Average		4 IN
Height Minimum, Maximum		3, 4

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	ERICA, W, BBCH	ERICA, W, BBCH
Stage Majority, Percent	16, 80	
Stage Minimum, Percent	16, 80	
Stage Maximum, Percent	18, 20	
Diameter Average	3 IN	
Diameter Minimum, Maximum	2, 3	
Height Average	3 IN	
Height Minimum, Maximum	2, 4	
Density Average	3 PLA/m2	
Density Minimum, Maximum	0, 5	
Pest 2 Code, Type, Scale	LAMPU, W, BBCH	LAMPU, W, BBCH
Stage Majority, Percent	65, 80	
Stage Minimum, Percent	60, 10	
Stage Maximum, Percent	65, 80	
Diameter Average	3 IN	
Diameter Minimum, Maximum	2, 3	
Height Average	3 IN	
Height Minimum, Maximum	2, 3	
Density Average	8 PLA/m2	
Density Minimum, Maximum	1, 11	
Pest 3 Code, Type, Scale	RANAB, W, BBCH	RANAB, W, BBCH
Stage Majority, Percent	65, 80	
Stage Minimum, Percent	60, 10	
Stage Maximum, Percent	65, 80	
Diameter Average	3 IN	
Diameter Minimum, Maximum	2, 3	
Height Average	8 IN	
Height Minimum, Maximum	6, 10	
Density Average	3 PLA/m2	
Density Minimum, Maximum	0, 5	
Pest 4 Code, Type, Scale	ERYRE, W, BBCH	ERYRE, W, BBCH
Stage Majority, Percent	60, 80	
Stage Minimum, Percent	60, 80	
Stage Maximum, Percent	65, 10	
Diameter Average	3 IN	
Diameter Minimum, Maximum	3, 4	
Height Average	4 ii	
Height Minimum, Maximum	4, 6	
Density Average	3 PLA/m2	
Density Minimum, Maximum	0, 6	
Pest 5 Code, Type, Scale	TAROF, W, BBCH	TAROF, W, BBCH
Stage Majority, Percent	65, 80	19, 100
Stage Minimum, Percent	65, 80	
Stage Maximum, Percent	69, 10	
Diameter Average	6 IN	
Diameter Minimum, Maximum	4, 6	
Height Average	3 IN	6 IN
Height Minimum, Maximum	1, 4	4, 8
Density Average	2 PLA/m2	
Density Minimum, Maximum	0, 4	
Pest 6 Code, Type, Scale	TRZAW, W, BBCH	TRZAW, W, BBCH
Stage Majority, Percent	25, 90	
Stage Minimum, Percent	23, 10	
Stage Maximum, Percent	25, 90	
Height Average	12 IN	
Height Minimum, Maximum	10, 15	
Density Average	25 PLA/m2	
Density Minimum, Maximum	10, 50	
Pest 7 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent		19, 60
Stage Minimum, Percent		11, 20
Stage Maximum, Percent		19, 20
Height Average		3 IN
Height Minimum, Maximum		1, 3
Pest 8 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent		19, 60
Stage Minimum, Percent		16, 20
Stage Maximum, Percent		19, 20
Height Average		6 IN
Height Minimum, Maximum		4, 8
Pest 9 Code, Type, Scale	AMBEL, W, BBCH	AMBEL, W, BBCH
Stage Majority, Percent		14, 60
Stage Minimum, Percent		14, 20
Stage Maximum, Percent		16, 20
Height Average		2 IN
Height Minimum, Maximum		2, 3

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Application Equipment

	A	B
Appl. Equipment	6' TTI	10' TTI
Equipment Type	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI
Nozzle Model	1110015	110015
Nozzle Type	TTI	TTI
Nozzle TradeName		Turbo Tee Injection
Nozzle Tip Size, Color		015, green
Nozzle Spacing	18 IN	18 IN
Boom Length	6.67 FT	10 FT
Boom Height	20 IN	20 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Water Hardness (ppm CaCO3)	250	
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	1 L	2 L
Spray pH	7.8	
Propellant	COMCO2	COMCO2
Tank Mix (Y/N)		Y, yes

	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
	BROTE	TRZAW	TAROF	STEME	LAMPU
Pest Type	Bromus tectorum	Triticum aestiv>	Taraxacum offic>	Stellaria media	Lamium purpureum
Pest Code	Cheatgrass	Winter wheat	dandelion	chickweed	purple deadnett>
Pest Scientific Name					
Pest Name					
Crop Type, Code					
Crop Name					
Rating Date	May-10-2022	May-10-2022	May-10-2022	May-10-2022	May-10-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-11-2022
Days After First/Last Applic.	12, 12	12, 12	12, 12	12, 12	12, 12
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	-6 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					
1 Intact	0.5% v/v	A	63ab	70a	75a	95-	65ab
1 Volt Edge	20oz/a	A					
1 Class Act Ridion	1% v/v	A					
1 Roundup Powermax	1.13lb ae/a	A					
1 Xtendimax	0.5lb ai/a	A					
1 Fierce EZ	0.143lb ai/a	A					
1 Intact	0.5% v/v	B					
1 Volt Edge	20oz/a	B					
1 Class Act Ridion	1% v/v	B					
1 Roundup Powermax	1.13lb ae/a	B					
1 Xtendimax	0.5lb ai/a	B					
1 Perpetuo	0.108lb ai/a	B					
1 Select Max	0.07lb ai/a	B					
2 Intact	0.5% v/v	A	57ab	63a	75a	90-	75a
2 Volt Edge	20oz/a	A					
2 Class Act Ridion	1% v/v	A					
2 Roundup Powermax	1.13lb ae/a	A					
2 Xtendimax	0.5lb ai/a	A					
2 Fierce MTZ	0.33lb ai/a	A					
2 Intact	0.5% v/v	B					
2 Volt Edge	20oz/a	B					
2 Class Act Ridion	1% v/v	B					
2 Roundup Powermax	1.13lb ae/a	B					
2 Xtendimax	0.5lb ai/a	B					
2 Perpetuo	0.108lb ai/a	B					
2 Select Max	0.07lb ai/a	B					

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	BROTE	TRZAW	TAROF	STEME	LAMPU
Pest Scientific Name	Bromus tectorum	Triticum aestiv>	Taraxacum offic>	Stellaria media	Lamium purpureum
Pest Name	Cheatgrass	Winter wheat	dandelion	chickweed	purple deadnett>
Crop Type, Code					
Crop Name					
Rating Date	May-10-2022	May-10-2022	May-10-2022	May-10-2022	May-10-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-11-2022
Days After First/Last Applic.	12, 12	12, 12	12, 12	12, 12	12, 12
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1*	2*	3*	4*	5*
3 Intact	0.5%	v/v	A	75a	75a	76a		57 abc
3 Volt Edge	20	oz/a	A					
3 Class Act Ridion	1%	v/v	A					
3 Roundup Powermax	1.13	lb ae/a	A					
3 Xtendimax	0.5	lb ai/a	A					
3 Fierce XLT	0.156	lb ai/a	A					
3 Intact	0.5%	v/v	B					
3 Volt Edge	20	oz/a	B					
3 Class Act Ridion	1%	v/v	B					
3 Roundup Powermax	1.13	lb ae/a	B					
3 Xtendimax	0.5	lb ai/a	B					
3 Perpetuo	0.108	lb ai/a	B					
3 Select Max	0.07	lb ai/a	B					
4 Intact	0.5%	v/v	A	67 ab	70a	61 ab	60-	37 bc
4 Volt Edge	20	oz/a	A					
4 Class Act Ridion	1%	v/v	A					
4 Roundup Powermax	1.13	lb ae/a	A					
4 Xtendimax	0.5	lb ai/a	A					
4 Firstrate	0.0315	lb ai/a	A					
4 Intact	0.5%	v/v	B					
4 Volt Edge	20	oz/a	B					
4 Class Act Ridion	1%	v/v	B					
4 Roundup Powermax	1.13	lb ae/a	B					
4 Xtendimax	0.5	lb ai/a	B					
4 Assure II	0.0413	lb ai/a	B					
5 Intact	0.5%	v/v	A	70 ab	70a	60 ab		33 c
5 Volt Edge	20	oz/a	A					
5 Class Act Ridion	1%	v/v	A					
5 Roundup Powermax	1.13	lb ae/a	A					
5 Xtendimax	0.5	lb ai/a	A					
5 Scepter	0.123	lb ai/a	A					
5 Intact	0.5%	v/v	B					
5 Volt Edge	20	oz/a	B					
5 Class Act Ridion	1%	v/v	B					
5 Roundup Powermax	1.13	lb ae/a	B					
5 Xtendimax	0.5	lb ai/a	B					
5 Assure II	0.0413	lb ai/a	B					
6 Intact	0.5%	v/v	A	43b	47a	48b		57 abc
6 Volt Edge	20	oz/a	A					
6 Class Act Ridion	1%	v/v	A					
6 Roundup Powermax	1.13	lb ae/a	A					
6 Xtendimax	0.5	lb ai/a	A					
6 Tendovo	1.83	lb ai/a	A					
6 Intact	0.5%	v/v	B					
6 Volt Edge	20	oz/a	B					
6 Class Act Ridion	1%	v/v	B					
6 Roundup Powermax	1.13	lb ae/a	B					
6 Xtendimax	0.5	lb ai/a	B					

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	BROTE	TRZAW	TAROF	STEME	LAMPU			
Pest Scientific Name	Bromus tectorum	Triticum aestiv>	Taraxacum offic>	Stellaria media	Lamium purpureum			
Pest Name	Cheatgrass	Winter wheat	dandelion	chickweed	purple deadnett>			
Crop Type, Code								
Crop Name								
Rating Date	May-10-2022	May-10-2022	May-10-2022	May-10-2022	May-10-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	May-11-2022	May-11-2022	May-11-2022	May-11-2022	May-11-2022			
Days After First/Last Applic.	12, 12	12, 12	12, 12	12, 12	12, 12			
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A			
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1			
Days After Emergence	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1	-6 DE-1			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Rate	Appl	1*	2*	3*	4*	5*
No. Name	Unit	Code						
7 Intact	0.5% v/v	A		20c	10b	47b		37bc
7 Volt Edge	20 oz/a	A						
7 Class Act Ridion	1% v/v	A						
7 Roundup Powermax	1.13 lb ae/a	A						
7 Xtendimax	0.5 lb ai/a	A						
7 Authority Supreme	0.195 lb ai/a	A						
7 Intact	0.5% v/v	B						
7 Volt Edge	20 oz/a	B						
7 Class Act Ridion	1% v/v	B						
7 Roundup Powermax	1.13 lb ae/a	B						
7 Xtendimax	0.5 lb ai/a	B						
8 Intact	0.5% v/v	A		77a	77a	74a		40bc
8 Volt Edge	20 oz/a	A						
8 Class Act Ridion	1% v/v	A						
8 Roundup Powermax	1.13 lb ae/a	A						
8 Xtendimax	0.5 lb ai/a	A						
8 Zidua Pro	0.144 lb ai/a	A						
8 Intact	0.5% v/v	B						
8 Volt Edge	20 oz/a	B						
8 Class Act Ridion	1% v/v	B						
8 Roundup Powermax	1.13 lb ae/a	B						
8 Xtendimax	0.5 lb ai/a	B						
9 Intact	0.5% v/v	A		50ab	47a	53b		72a
9 Volt Edge	20 oz/a	A						
9 Class Act Ridion	1% v/v	A						
9 Roundup Powermax	1.13 lb ae/a	A						
9 Xtendimax	0.5 lb ai/a	A						
9 Warrant	1.13 lb ai/a	A						
9 Mauler	0.375 lb ai/a	A						
9 Intact	0.5% v/v	B						
9 Volt Edge	20 oz/a	B						
9 Class Act Ridion	1% v/v	B						
9 Roundup Powermax	1.13 lb ae/a	B						
9 Xtendimax	0.5 lb ai/a	B						
10 UTC		B		0d	0b	0c	0-	0d
LSD P=.05				18.6	19.6	12.2	103.7	19.7
Standard Deviation				10.9	11.4	7.0	10.0	11.5
CV				20.81	21.65	12.66	20.59	24.37
Grand Mean				52.2	52.8	55.6	48.6	47.2
Levene's F^				0.425	0.393	0.899	1.571	0.621
Levene's Prob(F)				0.906	0.924	0.547	0.36	0.766
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness^				-0.309	0.0269	-0.0081	0.0	-0.5451
Kurtosis^				-0.5588	-0.4929	1.4802	-1.2	2.2874*
Replicate F				0.686	0.236	0.964	0.500	0.271
Replicate Prob(F)				0.5164	0.7924	0.4036	0.7071	0.7655
Treatment F				15.932	17.212	30.611	44.286	11.507
Treatment Prob(F)				0.0001	0.0001	0.0001	0.1099	0.0001

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	ERICA	BROTE	TRZAW	TAROF	STEME		
Pest Scientific Name	Erigeron canadense	Bromus tectorum	Triticum aestivum	Taraxacum officinale	Stellaria media		
Pest Name	mare's-tail	Cheatgrass	Winter wheat	dandelion	chickweed		
Crop Type, Code							
Crop Name							
Rating Date	May-10-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-11-2022	May-26-2022	May-26-2022	May-26-2022	May-26-2022		
Days After First/Last Applic.	12, 12	27, 27	27, 27	27, 27	27, 27		
Trt-Eval Interval	12 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A		
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1		
Days After Emergence	-6 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1		
ARM Action Codes							
Number of Decimals		0	0	0	0		
Trt Treatment	Rate	Appl	6*	7*	8*	9*	10*
No. Name	Rate	Unit Code					
1 Intact	0.5% v/v	A	85.0ab	97a	87ab	73a	100-
1 Volt Edge	20oz/a	A					
1 Class Act Ridion	1% v/v	A					
1 Roundup Powermax	1.13lb ae/a	A					
1 Xtendimax	0.5lb ai/a	A					
1 Fierce EZ	0.143lb ai/a	A					
1 Intact	0.5% v/v	B					
1 Volt Edge	20oz/a	B					
1 Class Act Ridion	1% v/v	B					
1 Roundup Powermax	1.13lb ae/a	B					
1 Xtendimax	0.5lb ai/a	B					
1 Perpetuo	0.108lb ai/a	B					
1 Select Max	0.07lb ai/a	B					
2 Intact	0.5% v/v	A	83.8ab	97a	88ab	80a	100-
2 Volt Edge	20oz/a	A					
2 Class Act Ridion	1% v/v	A					
2 Roundup Powermax	1.13lb ae/a	A					
2 Xtendimax	0.5lb ai/a	A					
2 Fierce MTZ	0.33lb ai/a	A					
2 Intact	0.5% v/v	B					
2 Volt Edge	20oz/a	B					
2 Class Act Ridion	1% v/v	B					
2 Roundup Powermax	1.13lb ae/a	B					
2 Xtendimax	0.5lb ai/a	B					
2 Perpetuo	0.108lb ai/a	B					
2 Select Max	0.07lb ai/a	B					

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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
Pest Code	ERICA	BROTE	TRZAW	TAROF	STEME
Pest Scientific Name	Erigeron canad>	Bromus tectorum	Triticum aestiv>	Taraxacum offic>	Stellaria media
Pest Name	mare's-tail	Cheatgrass	Winter wheat	dandelion	chickweed
Crop Type, Code					
Crop Name					
Rating Date	May-10-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-11-2022	May-26-2022	May-26-2022	May-26-2022	May-26-2022
Days After First/Last Applic.	12, 12	27, 27	27, 27	27, 27	27, 27
Trt-Eval Interval	12 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	-6 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1
ARM Action Codes					
Number of Decimals		0	0	0	0

Trt Treatment	Rate	Rate Unit	Appl Code	6*	7*	8*	9*	10*
3 Intact	0.5%	v/v	A	86.3 ab	100 a	100 a	83 a	100-
3 Volt Edge	20	oz/a	A					
3 Class Act Ridion	1%	v/v	A					
3 Roundup Powermax	1.13	lb ae/a	A					
3 Xtendimax	0.5	lb ai/a	A					
3 Fierce XLT	0.156	lb ai/a	A					
3 Intact	0.5%	v/v	B					
3 Volt Edge	20	oz/a	B					
3 Class Act Ridion	1%	v/v	B					
3 Roundup Powermax	1.13	lb ae/a	B					
3 Xtendimax	0.5	lb ai/a	B					
3 Perpetuo	0.108	lb ai/a	B					
3 Select Max	0.07	lb ai/a	B					
4 Intact	0.5%	v/v	A	87.5 ab	100 a	92 ab	66 ab	100-
4 Volt Edge	20	oz/a	A					
4 Class Act Ridion	1%	v/v	A					
4 Roundup Powermax	1.13	lb ae/a	A					
4 Xtendimax	0.5	lb ai/a	A					
4 Firstrate	0.0315	lb ai/a	A					
4 Intact	0.5%	v/v	B					
4 Volt Edge	20	oz/a	B					
4 Class Act Ridion	1%	v/v	B					
4 Roundup Powermax	1.13	lb ae/a	B					
4 Xtendimax	0.5	lb ai/a	B					
4 Assure II	0.0413	lb ai/a	B					
5 Intact	0.5%	v/v	A	71.7 b	100 a	95 ab	63 ab	100-
5 Volt Edge	20	oz/a	A					
5 Class Act Ridion	1%	v/v	A					
5 Roundup Powermax	1.13	lb ae/a	A					
5 Xtendimax	0.5	lb ai/a	A					
5 Scepter	0.123	lb ai/a	A					
5 Intact	0.5%	v/v	B					
5 Volt Edge	20	oz/a	B					
5 Class Act Ridion	1%	v/v	B					
5 Roundup Powermax	1.13	lb ae/a	B					
5 Xtendimax	0.5	lb ai/a	B					
5 Assure II	0.0413	lb ai/a	B					
6 Intact	0.5%	v/v	A	77.5 ab	98 a	83 ab	70 a	100-
6 Volt Edge	20	oz/a	A					
6 Class Act Ridion	1%	v/v	A					
6 Roundup Powermax	1.13	lb ae/a	A					
6 Xtendimax	0.5	lb ai/a	A					
6 Tendovo	1.83	lb ai/a	A					
6 Intact	0.5%	v/v	B					
6 Volt Edge	20	oz/a	B					
6 Class Act Ridion	1%	v/v	B					
6 Roundup Powermax	1.13	lb ae/a	B					
6 Xtendimax	0.5	lb ai/a	B					

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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			
Pest Code	ERICA	BROTE	TRZAW	TAROF	STEME			
Pest Scientific Name	Erigeron canadensis	Bromus tectorum	Triticum aestivum	Taraxacum officinale	Stellaria media			
Pest Name	mare's-tail	Cheatgrass	Winter wheat	dandelion	chickweed			
Crop Type, Code								
Crop Name								
Rating Date	May-10-2022	May-25-2022	May-25-2022	May-25-2022	May-25-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	May-11-2022	May-26-2022	May-26-2022	May-26-2022	May-26-2022			
Days After First/Last Applic.	12, 12	27, 27	27, 27	27, 27	27, 27			
Trt-Eval Interval	12 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A			
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	-6 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1			
ARM Action Codes								
Number of Decimals		0	0	0	0			
Trt Treatment	Rate	Unit	Appl Code	6*	7*	8*	9*	10*
7 Intact	0.5%	v/v	A	83.3 ab	-1b	10c	50b	
7 Volt Edge	20 oz/a		A					
7 Class Act Ridion	1%	v/v	A					
7 Roundup Powermax	1.13 lb	ae/a	A					
7 Xtendimax	0.5 lb	ai/a	A					
7 Authority Supreme	0.195 lb	ai/a	A					
7 Intact	0.5%	v/v	B					
7 Volt Edge	20 oz/a		B					
7 Class Act Ridion	1%	v/v	B					
7 Roundup Powermax	1.13 lb	ae/a	B					
7 Xtendimax	0.5 lb	ai/a	B					
8 Intact	0.5%	v/v	A	100.0 a	100 a	93 ab	72 a	100-
8 Volt Edge	20 oz/a		A					
8 Class Act Ridion	1%	v/v	A					
8 Roundup Powermax	1.13 lb	ae/a	A					
8 Xtendimax	0.5 lb	ai/a	A					
8 Zidua Pro	0.144 lb	ai/a	A					
8 Intact	0.5%	v/v	B					
8 Volt Edge	20 oz/a		B					
8 Class Act Ridion	1%	v/v	B					
8 Roundup Powermax	1.13 lb	ae/a	B					
8 Xtendimax	0.5 lb	ai/a	B					
9 Intact	0.5%	v/v	A	85.0 ab	97 a	60 b	70 a	100-
9 Volt Edge	20 oz/a		A					
9 Class Act Ridion	1%	v/v	A					
9 Roundup Powermax	1.13 lb	ae/a	A					
9 Xtendimax	0.5 lb	ai/a	A					
9 Warrant	1.13 lb	ai/a	A					
9 Mauler	0.375 lb	ai/a	A					
9 Intact	0.5%	v/v	B					
9 Volt Edge	20 oz/a		B					
9 Class Act Ridion	1%	v/v	B					
9 Roundup Powermax	1.13 lb	ae/a	B					
9 Xtendimax	0.5 lb	ai/a	B					
10 UTC			B	0.0 c	0b	0c	0c	0-
LSD P=.05				11.33	5.0	23.8	12.8	.
Standard Deviation				6.02	2.9	13.9	7.4	0.0
CV				8.47	3.6	19.61	11.87	0.0
Grand Mean				71.00	80.9	70.8	62.3	81.3
Levene's F^				0.841	0.357	0.523	0.611	.
Levene's Prob(F)				0.598	0.941	0.84	0.772	.
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness^				0.3686	-0.4414	-0.6499	0.115	.
Kurtosis^				3.4501*	0.8692	0.2999	0.0073	.
Replicate F				0.777	1.587	1.845	1.707	0.000
Replicate Prob(F)				0.4916	0.2352	0.1867	0.2129	1.0000
Treatment F				57.045	522.964	20.607	30.983	0.000
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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		
Pest Code	LAMPU	ERICA	ERICA	TAROF	BROTE		
Pest Scientific Name	Lamium purpureum	Erigeron canadense	Erigeron canadense	Taraxacum officinale	Bromus tectorum		
Pest Name	purple deadnett	mare's-tail	mare's-tail	dandelion	Cheatgrass		
Crop Type, Code							
Crop Name							
Rating Date	May-25-2022	May-25-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-26-2022	May-26-2022	Jun-8-2022	Jun-8-2022	Jun-8-2022		
Days After First/Last Applic.	27, 27	27, 27	40, 40	40, 40	40, 40		
Trt-Eval Interval	27 DA-A	27 DA-A	40 DA-A	40 DA-A	40 DA-A		
Plant-Eval Interval	28 DP-1	28 DP-1	41 DP-1	41 DP-1	41 DP-1		
Days After Emergence	9 DE-1	9 DE-1	22 DE-1	22 DE-1	22 DE-1		
ARM Action Codes							
Number of Decimals	0			0	0		
Trt Treatment	Rate	Appl	11*	12*	13*	14*	15*
No. Name	Rate	Unit Code					
1 Intact	0.5% v/v	A	87 ab	95.0 a	100.0 a	53 a	100 a
1 Volt Edge	20 oz/a	A					
1 Class Act Ridion	1% v/v	A					
1 Roundup Powermax	1.13 lb ae/a	A					
1 Xtendimax	0.5 lb ai/a	A					
1 Fierce EZ	0.143 lb ai/a	A					
1 Intact	0.5% v/v	B					
1 Volt Edge	20 oz/a	B					
1 Class Act Ridion	1% v/v	B					
1 Roundup Powermax	1.13 lb ae/a	B					
1 Xtendimax	0.5 lb ai/a	B					
1 Perpetuo	0.108 lb ai/a	B					
1 Select Max	0.07 lb ai/a	B					
2 Intact	0.5% v/v	A	100 a	100.0 a	96.7 a	50 a	100 a
2 Volt Edge	20 oz/a	A					
2 Class Act Ridion	1% v/v	A					
2 Roundup Powermax	1.13 lb ae/a	A					
2 Xtendimax	0.5 lb ai/a	A					
2 Fierce MTZ	0.33 lb ai/a	A					
2 Intact	0.5% v/v	B					
2 Volt Edge	20 oz/a	B					
2 Class Act Ridion	1% v/v	B					
2 Roundup Powermax	1.13 lb ae/a	B					
2 Xtendimax	0.5 lb ai/a	B					
2 Perpetuo	0.108 lb ai/a	B					
2 Select Max	0.07 lb ai/a	B					

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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
Pest Code	LAMPU	ERICA	ERICA	TAROF	BROTE
Pest Scientific Name	Lamium purpureum	Erigeron canadense	Erigeron canadense	Taraxacum officinale	Bromus tectorum
Pest Name	purple deadnettle	mare's-tail	mare's-tail	dandelion	Cheatgrass
Crop Type, Code					
Crop Name					
Rating Date	May-25-2022	May-25-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-26-2022	May-26-2022	Jun-8-2022	Jun-8-2022	Jun-8-2022
Days After First/Last Applic.	27, 27	27, 27	40, 40	40, 40	40, 40
Trt-Eval Interval	27 DA-A	27 DA-A	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	28 DP-1	28 DP-1	41 DP-1	41 DP-1	41 DP-1
Days After Emergence	9 DE-1	9 DE-1	22 DE-1	22 DE-1	22 DE-1
ARM Action Codes					
Number of Decimals	0			0	0

Trt Treatment No. Name	Rate	Rate Unit	Appl Code	11*	12*	13*	14*	15*
3 Intact	0.5%	v/v	A	73bc	100.0a	101.3a	65a	100a
3 Volt Edge	20oz/a		A					
3 Class Act Ridion	1%	v/v	A					
3 Roundup Powermax	1.13lb	ae/a	A					
3 Xtendimax	0.5lb	ai/a	A					
3 Fierce XLT	0.156lb	ai/a	A					
3 Intact	0.5%	v/v	B					
3 Volt Edge	20oz/a		B					
3 Class Act Ridion	1%	v/v	B					
3 Roundup Powermax	1.13lb	ae/a	B					
3 Xtendimax	0.5lb	ai/a	B					
3 Perpetuo	0.108lb	ai/a	B					
3 Select Max	0.07lb	ai/a	B					
4 Intact	0.5%	v/v	A	57 cd	97.5a	98.4a	48a	100a
4 Volt Edge	20oz/a		A					
4 Class Act Ridion	1%	v/v	A					
4 Roundup Powermax	1.13lb	ae/a	A					
4 Xtendimax	0.5lb	ai/a	A					
4 Firstrate	0.0315lb	ai/a	A					
4 Intact	0.5%	v/v	B					
4 Volt Edge	20oz/a		B					
4 Class Act Ridion	1%	v/v	B					
4 Roundup Powermax	1.13lb	ae/a	B					
4 Xtendimax	0.5lb	ai/a	B					
4 Assure II	0.0413lb	ai/a	B					
5 Intact	0.5%	v/v	A	53cd	90.0a	86.7a	57a	100a
5 Volt Edge	20oz/a		A					
5 Class Act Ridion	1%	v/v	A					
5 Roundup Powermax	1.13lb	ae/a	A					
5 Xtendimax	0.5lb	ai/a	A					
5 Scepter	0.123lb	ai/a	A					
5 Intact	0.5%	v/v	B					
5 Volt Edge	20oz/a		B					
5 Class Act Ridion	1%	v/v	B					
5 Roundup Powermax	1.13lb	ae/a	B					
5 Xtendimax	0.5lb	ai/a	B					
5 Assure II	0.0413lb	ai/a	B					
6 Intact	0.5%	v/v	A	100a	97.5a	101.3a	58a	70ab
6 Volt Edge	20oz/a		A					
6 Class Act Ridion	1%	v/v	A					
6 Roundup Powermax	1.13lb	ae/a	A					
6 Xtendimax	0.5lb	ai/a	A					
6 Tendovo	1.83lb	ai/a	A					
6 Intact	0.5%	v/v	B					
6 Volt Edge	20oz/a		B					
6 Class Act Ridion	1%	v/v	B					
6 Roundup Powermax	1.13lb	ae/a	B					
6 Xtendimax	0.5lb	ai/a	B					

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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			
Pest Code	LAMPU	ERICA	ERICA	TAROF	BROTE			
Pest Scientific Name	Lamium purpureum	Erigeron canadense	Erigeron canadense	Taraxacum officinale	Bromus tectorum			
Pest Name	purple deadnettle	mare's-tail	mare's-tail	dandelion	Cheatgrass			
Crop Type, Code								
Crop Name								
Rating Date	May-25-2022	May-25-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	May-26-2022	May-26-2022	Jun-8-2022	Jun-8-2022	Jun-8-2022			
Days After First/Last Applic.	27, 27	27, 27	40, 40	40, 40	40, 40			
Trt-Eval Interval	27 DA-A	27 DA-A	40 DA-A	40 DA-A	40 DA-A			
Plant-Eval Interval	28 DP-1	28 DP-1	41 DP-1	41 DP-1	41 DP-1			
Days After Emergence	9 DE-1	9 DE-1	22 DE-1	22 DE-1	22 DE-1			
ARM Action Codes								
Number of Decimals	0			0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	11*	12*	13*	14*	15*
7 Intact	0.5%	v/v	A	47d	100.0a	100.0a	60a	49b
7 Volt Edge	20oz/a		A					
7 Class Act Ridion	1%	v/v	A					
7 Roundup Powermax	1.13lb	ae/a	A					
7 Xtendimax	0.5lb	ai/a	A					
7 Authority Supreme	0.195lb	ai/a	A					
7 Intact	0.5%	v/v	B					
7 Volt Edge	20oz/a		B					
7 Class Act Ridion	1%	v/v	B					
7 Roundup Powermax	1.13lb	ae/a	B					
7 Xtendimax	0.5lb	ai/a	B					
8 Intact	0.5%	v/v	A	57cd	102.5a	100.8a	62a	100a
8 Volt Edge	20oz/a		A					
8 Class Act Ridion	1%	v/v	A					
8 Roundup Powermax	1.13lb	ae/a	A					
8 Xtendimax	0.5lb	ai/a	A					
8 Zidua Pro	0.144lb	ai/a	A					
8 Intact	0.5%	v/v	B					
8 Volt Edge	20oz/a		B					
8 Class Act Ridion	1%	v/v	B					
8 Roundup Powermax	1.13lb	ae/a	B					
8 Xtendimax	0.5lb	ai/a	B					
9 Intact	0.5%	v/v	A	100a	102.5a	101.3a	50a	90a
9 Volt Edge	20oz/a		A					
9 Class Act Ridion	1%	v/v	A					
9 Roundup Powermax	1.13lb	ae/a	A					
9 Xtendimax	0.5lb	ai/a	A					
9 Warrant	1.13lb	ai/a	A					
9 Mauler	0.375lb	ai/a	A					
9 Intact	0.5%	v/v	B					
9 Volt Edge	20oz/a		B					
9 Class Act Ridion	1%	v/v	B					
9 Roundup Powermax	1.13lb	ae/a	B					
9 Xtendimax	0.5lb	ai/a	B					
10 UTC			B	0e	0.0b	0.0b	0b	0c
LSD P=.05				17.5	17.30	15.59	18.1	23.9
Standard Deviation				10.2	9.19	8.76	10.5	13.8
CV				15.15	11.1	10.26	20.92	16.74
Grand Mean				67.3	82.75	85.42	50.0	82.5
Levene's F^				0.799	0.439	0.459	0.72	4.093
Levene's Prob(F)				0.622	0.884	0.879	0.685	0.005*
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness^				-0.834	-1.2428*	-1.5514*	0.573	-0.3131
Kurtosis^				2.3409*	3.356*	6.6652*	0.5313	2.6047*
Replicate F				0.609	0.444	1.378	1.137	0.388
Replicate Prob(F)				0.5550	0.6561	0.2893	0.3452	0.6847
Treatment F				28.811	32.163	36.834	9.188	16.616
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

The Ohio State University

Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Setaria faberi	Ambrosia trifida	Setaria faberi	Ambrosia trifida			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed			
Crop Type, Code									
Crop Name									
Rating Date	Jun-7-2022	Jun-7-2022	Jun-22-2022	Jun-22-2022	Jul-6-2022	Jul-6-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	Jun-8-2022	Jun-8-2022	Jun-23-2022	Jun-23-2022	Jul-19-2022				
Days After First/Last Applic.	40, 40	40, 40	55, 14	55, 14	69, 28	69, 28			
Trt-Eval Interval	40 DA-A	40 DA-A	14 DA-B	14 DA-B	28 DA-B	28 DA-B			
Plant-Eval Interval	41 DP-1	41 DP-1	56 DP-1	56 DP-1	70 DP-1	70 DP-1			
Days After Emergence	22 DE-1	22 DE-1	37 DE-1	37 DE-1	51 DE-1	51 DE-1			
ARM Action Codes									
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	16*	17*	18*	19*	20*	21*			
No. Name	Rate	Unit	Code						
1 Intact	0.5%	v/v	A	50ab	50b	90-	100-	75-	100-
1 Volt Edge	20oz/a		A						
1 Class Act Ridion	1%	v/v	A						
1 Roundup Powermax	1.13lb	ae/a	A						
1 Xtendimax	0.5lb	ai/a	A						
1 Fierce EZ	0.143lb	ai/a	A						
1 Intact	0.5%	v/v	B						
1 Volt Edge	20oz/a		B						
1 Class Act Ridion	1%	v/v	B						
1 Roundup Powermax	1.13lb	ae/a	B						
1 Xtendimax	0.5lb	ai/a	B						
1 Perpetuo	0.108lb	ai/a	B						
1 Select Max	0.07lb	ai/a	B						
2 Intact	0.5%	v/v	A	43ab	100a	83-	100-	75-	100-
2 Volt Edge	20oz/a		A						
2 Class Act Ridion	1%	v/v	A						
2 Roundup Powermax	1.13lb	ae/a	A						
2 Xtendimax	0.5lb	ai/a	A						
2 Fierce MTZ	0.33lb	ai/a	A						
2 Intact	0.5%	v/v	B						
2 Volt Edge	20oz/a		B						
2 Class Act Ridion	1%	v/v	B						
2 Roundup Powermax	1.13lb	ae/a	B						
2 Xtendimax	0.5lb	ai/a	B						
2 Perpetuo	0.108lb	ai/a	B						
2 Select Max	0.07lb	ai/a	B						

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Trial ID: 22RRXFNT Cooperator Trial ID:
 Protocol ID: 22RRXNT Location: Western Branch F-10 West Trial Year: 2022
 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			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Setaria faberi	Ambrosia trifida	Setaria faberi	Ambrosia trifida			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed			
Crop Type, Code									
Crop Name									
Rating Date	Jun-7-2022	Jun-7-2022	Jun-22-2022	Jun-22-2022	Jul-6-2022	Jul-6-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	Jun-8-2022	Jun-8-2022	Jun-23-2022	Jun-23-2022	Jul-19-2022				
Days After First/Last Applic.	40, 40	40, 40	55, 14	55, 14	69, 28	69, 28			
Trt-Eval Interval	40 DA-A	40 DA-A	14 DA-B	14 DA-B	28 DA-B	28 DA-B			
Plant-Eval Interval	41 DP-1	41 DP-1	56 DP-1	56 DP-1	70 DP-1	70 DP-1			
Days After Emergence	22 DE-1	22 DE-1	37 DE-1	37 DE-1	51 DE-1	51 DE-1			
ARM Action Codes									
Number of Decimals	0	0	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	16*	17*	18*	19*	20*	21*
3 Intact	0.5%	v/v	A	60a	98a	88-	100-	75-	100-
3 Volt Edge	20oz/a		A						
3 Class Act Ridion	1%	v/v	A						
3 Roundup Powermax	1.13lb	ae/a	A						
3 Xtendimax	0.5lb	ai/a	A						
3 Fierce XLT	0.156lb	ai/a	A						
3 Intact	0.5%	v/v	B						
3 Volt Edge	20oz/a		B						
3 Class Act Ridion	1%	v/v	B						
3 Roundup Powermax	1.13lb	ae/a	B						
3 Xtendimax	0.5lb	ai/a	B						
3 Perpetuo	0.108lb	ai/a	B						
3 Select Max	0.07lb	ai/a	B						
4 Intact	0.5%	v/v	A	23b	93a	85-	100-	75-	100-
4 Volt Edge	20oz/a		A						
4 Class Act Ridion	1%	v/v	A						
4 Roundup Powermax	1.13lb	ae/a	A						
4 Xtendimax	0.5lb	ai/a	A						
4 Firstrate	0.0315lb	ai/a	A						
4 Intact	0.5%	v/v	B						
4 Volt Edge	20oz/a		B						
4 Class Act Ridion	1%	v/v	B						
4 Roundup Powermax	1.13lb	ae/a	B						
4 Xtendimax	0.5lb	ai/a	B						
4 Assure II	0.0413lb	ai/a	B						
5 Intact	0.5%	v/v	A	47ab	93a	85-	100-	75-	100-
5 Volt Edge	20oz/a		A						
5 Class Act Ridion	1%	v/v	A						
5 Roundup Powermax	1.13lb	ae/a	A						
5 Xtendimax	0.5lb	ai/a	A						
5 Scepter	0.123lb	ai/a	A						
5 Intact	0.5%	v/v	B						
5 Volt Edge	20oz/a		B						
5 Class Act Ridion	1%	v/v	B						
5 Roundup Powermax	1.13lb	ae/a	B						
5 Xtendimax	0.5lb	ai/a	B						
5 Assure II	0.0413lb	ai/a	B						
6 Intact	0.5%	v/v	A	47ab	93a	85-	100-	75-	100-
6 Volt Edge	20oz/a		A						
6 Class Act Ridion	1%	v/v	A						
6 Roundup Powermax	1.13lb	ae/a	A						
6 Xtendimax	0.5lb	ai/a	A						
6 Tendovo	1.83lb	ai/a	A						
6 Intact	0.5%	v/v	B						
6 Volt Edge	20oz/a		B						
6 Class Act Ridion	1%	v/v	B						
6 Roundup Powermax	1.13lb	ae/a	B						
6 Xtendimax	0.5lb	ai/a	B						

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 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	SETFA	AMBTR	SETFA	AMBTR	SETFA	AMBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Setaria faberi	Ambrosia trifida	Setaria faberi	Ambrosia trifida			
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed			
Crop Type, Code									
Crop Name									
Rating Date	Jun-7-2022	Jun-7-2022	Jun-22-2022	Jun-22-2022	Jul-6-2022	Jul-6-2022			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	Jun-8-2022	Jun-8-2022	Jun-23-2022	Jun-23-2022	Jul-19-2022				
Days After First/Last Applic.	40, 40	40, 40	55, 14	55, 14	69, 28	69, 28			
Trt-Eval Interval	40 DA-A	40 DA-A	14 DA-B	14 DA-B	28 DA-B	28 DA-B			
Plant-Eval Interval	41 DP-1	41 DP-1	56 DP-1	56 DP-1	70 DP-1	70 DP-1			
Days After Emergence	22 DE-1	22 DE-1	37 DE-1	37 DE-1	51 DE-1	51 DE-1			
ARM Action Codes									
Number of Decimals	0	0	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	16*	17*	18*	19*	20*	21*
7 Intact	0.5%	v/v	A	40ab	70ab	85-	100-	75-	100-
7 Volt Edge	20oz/a		A						
7 Class Act Ridion	1%	v/v	A						
7 Roundup Powermax	1.13lb	ae/a	A						
7 Xtendimax	0.5lb	ai/a	A						
7 Authority Supreme	0.195lb	ai/a	A						
7 Intact	0.5%	v/v	B						
7 Volt Edge	20oz/a		B						
7 Class Act Ridion	1%	v/v	B						
7 Roundup Powermax	1.13lb	ae/a	B						
7 Xtendimax	0.5lb	ai/a	B						
8 Intact	0.5%	v/v	A	50ab	73ab	85-	100-	75-	100-
8 Volt Edge	20oz/a		A						
8 Class Act Ridion	1%	v/v	A						
8 Roundup Powermax	1.13lb	ae/a	A						
8 Xtendimax	0.5lb	ai/a	A						
8 Zidua Pro	0.144lb	ai/a	A						
8 Intact	0.5%	v/v	B						
8 Volt Edge	20oz/a		B						
8 Class Act Ridion	1%	v/v	B						
8 Roundup Powermax	1.13lb	ae/a	B						
8 Xtendimax	0.5lb	ai/a	B						
9 Intact	0.5%	v/v	A	33ab	57b	85-	100-	75-	100-
9 Volt Edge	20oz/a		A						
9 Class Act Ridion	1%	v/v	A						
9 Roundup Powermax	1.13lb	ae/a	A						
9 Xtendimax	0.5lb	ai/a	A						
9 Warrant	1.13lb	ai/a	A						
9 Mauler	0.375lb	ai/a	A						
9 Intact	0.5%	v/v	B						
9 Volt Edge	20oz/a		B						
9 Class Act Ridion	1%	v/v	B						
9 Roundup Powermax	1.13lb	ae/a	B						
9 Xtendimax	0.5lb	ai/a	B						
10 UTC			B	0c	0c	85-	100-	75-	100-
LSD P=.05				16.8	22.6	4.1	.	.	.
Standard Deviation				9.8	13.2	2.4	0.0	0.0	0.0
CV				24.9	18.1	2.77	0.0	0.0	0.0
Grand Mean				39.3	72.8	85.7	100.0	75.0	100.0
Levene's F^				0.67	0.507	0.653	.	.	.
Levene's Prob(F)				0.726	0.852	0.74	.	.	.
Rank X2				.	.	.	.	.	.
P(Rank X2)				.	.	.	.	.	.
Skewness^				-0.0665	0.0802	0.5253	.	.	.
Kurtosis^				0.2327	0.2221	1.4837	.	.	.
Replicate F				3.162	0.638	2.803	0.000	0.000	0.000
Replicate Prob(F)				0.0665	0.5400	0.0871	1.0000	1.0000	1.0000
Treatment F				9.097	16.772	2.033	0.000	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	0.0957	1.0000	1.0000	1.0000

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Pest Type

W, Weed = Weed or volunteer crop

Pest Code

BROTE, Bromus tectorum, Cheatgrass = US
 TRZAW, Triticum aestivum, Winter wheat = US
 TAROF, Taraxacum officinale, dandelion = US
 STEME, Stellaria media, chickweed = US
 LAMPU, Lamium purpureum, purple deadnettle = US
 ERICA, Erigeron canadensis, mare's-tail = US
 SETFA, Setaria faberi, Giant foxtail = US
 AMBTR, Ambrosia trifida, Giant ragweed = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

Plant-Eval Interval

13 DP-1 = 1 GLXMA Apr-27-2022
 28 DP-1 = 1 GLXMA Apr-27-2022
 41 DP-1 = 1 GLXMA Apr-27-2022
 56 DP-1 = 1 GLXMA Apr-27-2022
 70 DP-1 = 1 GLXMA Apr-27-2022