

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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

Status: E established
 ARM Trial Created On: Mar-29-2022
 Initiation Date: May-2-2022

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 °: 39.86003 N
 Longitude of LL Corner °: -83.67032 W
 Altitude of LL Corner: 1088.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No Study Rules: Default
 None

No.	Guideline	Discipline	Description
1.	ADM-C-PUB CO	Confidentiality - Public Trial - No Secrecy Agreement Required	
	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	ZEAMXZea mays	Corn	BBCH Scale: BCOR
	Entry Date: May-3-2022	Crop Group: 15	Stage Scale: BBCH
	Variety: DKC59-81RIB		Maturity Group: 109
	Attributes: Glyphosate-R, Glufosinate-R		
	Seed Lot No: H49CCK7JXF	Seed Source: Dekalb	
	% Germination: 95	1000 Grain Weight: 0.63 LB	
	Planting Date: May-2-2022	Planting Rate: 32097	S/A
	Depth: 2 IN		
	Rows per Plot: 4	Planting Method: PLANTD planted	
	Row Spacing: 30 IN	Planting Equipment: FPP finger pickup planter	
		Seed Bed: MEDIUM medium	
	Soil Temperature: 52 F	Soil Moisture: DRY dry	
	Emergence Date: May-14-2022		
	Harvest Date: Oct-11-2022	Harvest Equipment: Kincaid 8XP	
	Moisture Meter: Harvest Master	Harvested Width: 5 FT	
	% Standard Moisture: 15.5	Harvested Length: 30 FT	
	Weighing Equipment: Harvest Master HM800		

Pest Description

Pest 1 Type: W	Code: ABUTH Abutilon theophrasti	Stage Scale: POST
	Common Name: velvetleaf	
Pest 2 Type: W	Code: AMBTR Ambrosia trifida	Stage Scale: BBCH
	Common Name: Giant ragweed	
Pest 3 Type: W	Code: SETFA Setaria faberi	Stage Scale: BBCH
	Common Name: Giant foxtail	
Pest 4 Type: W	Code: AMARE Amaranthus retroflexus	Entry Date: May-25-2022
	Common Name: Redroot pigweed	Stage Scale: BBCH
Pest 5 Type: W	Code: CHEAL Chenopodium album	Entry Date: May-25-2022
	Common Name: common lambsquarters	Stage Scale: BBCH
Pest 6 Type: W	Code: XANST Xanthium strumarium	Entry Date: May-25-2022
	Common Name: clotbur	Stage Scale: BBCH
Pest 7 Type: W	Code: POLPY Persicaria pensylvanica	Entry Date: May-25-2022
	Common Name: annual smartweed	Stage Scale: BBCH
Pest 8 Type: W	Code: IPOHE Ipomoea hederacea	Entry Date: May-25-2022
	Common Name: ivy-leaf morning glory	Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 200.1 FT²
 Replications: 3 Treatments: 12 Plots: 48 Tillage Type: CONTIL conventional-till
 Study Design: RACOBL Randomized Complete Block (RCB)

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Soil Description

Description Name: F-8 East
 % Sand: 37 % OM: 2.7 Texture: L loam
 % Silt: 49 Soil Name: Kokomo
 % Clay: 15 Fert. Level: G good
 pH: 6 CEC: 16.9

Application Description

	A	B	C
Application Date	May-2-2022	May-24-2022	Jun-3-2022
Appl. Start Time	5:20 PM	12:45 PM	
Appl. Stop Time	5:45 PM	1:00 AM	
Interval to Prev. Appl.		22 DAYS	10 DAYS
Application Method	NONINC	SPRAY	SPRAY
Application Timing	PREPRE	POSPOS	POSPOS
Application Placement	BROSOI	BROADC	BROADC
Applied By	Dobbels	Loux	Dobbels
Appl. Entry Date	May-3-2022	May-25-2022	Jun-6-2022
Air Temperature Start, Stop	71, 71 F	68, 68 F	67, 67 F
% Relative Humidity Start, Stop	34, 34	42, 42	52, 52
Wind Velocity+Dir. Start	6 MPH, W	10 MPH, NE	4 MPH, W
Wind Velocity+Dir. Stop	6 MPH, W	10 MPH, NE	4 MPH, W
Wind Velocity+Dir. Max	9 MPH, W	10 MPH, NE	4 MPH, W
Wet Leaves (Y/N)	N, no	Y, yes	N, no
Soil Temperature	62 F	69 F	65 F
Soil Moisture	DRY	DRY	DRY
Soil Surface Condition	MEDIUM	MEDTRA	MEDIUM
% Cloud Cover	33	25	0
Next Moisture Occurred On	May-3-2022	May-26-2022	Jun-6-2022
Time to Next Moisture	14.0 HR	2.0 DAY	3.0 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN
Moisture 1 Week after Appl.	2.09 IN	2.08 IN	1.08 IN

Protocol Application Directions:

One to two application per plot/Three application timings.

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	ZEAMX, BCORZEAMX,	BCORZEAMX,	BCORZEAMX, BCOR
Days after Emergence	-12	10	20
Stage Majority, Percent		13, 100	15, 100
Height Average		5 IN	15 IN
Height Minimum, Maximum		4.5, 5	14, 16

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	ABUTH, W, POST	ABUTH, W, POST	ABUTH, W, POST
Stage Majority, Percent		12, 100	
Height Average		1 IN	
Height Minimum, Maximum		0.5, 1	
Density Average		3 PLA/M2	
Density Minimum, Maximum		1, 4	
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent		12, 100	14, 80
Stage Minimum, Percent			14, 80
Stage Maximum, Percent			16, 20
Height Average		2 IN	6 IN
Height Minimum, Maximum		1, 2	4, 8
Density Average		12 PLA/M2	6 PLA/M2
Density Minimum, Maximum		8, 15	4, 8
Pest 3 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent		13, 100	13, 60
Stage Minimum, Percent			13, 60
Stage Maximum, Percent			17, 10
Height Average		3 IN	4 IN
Height Minimum, Maximum		1, 4	3, 6
Density Average		145 PLA/M2	79 PLA/M2
Density Minimum, Maximum		124, 156	75, 125
Pest 4 Code, Type, Scale	AMARE, W, BBCH	AMARE, W, BBCH	AMARE, W, BBCH
Stage Majority, Percent		12, 80	
Stage Minimum, Percent		12, 10	
Stage Maximum, Percent		14, 10	
Height Average		1 IN	
Height Minimum, Maximum		0.5, 1.5	
Density Average		4 PLA/M2	
Density Minimum, Maximum		2, 6	
Pest 5 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent		14, 60	14, 80
Stage Minimum, Percent		14, 20	12, 10
Stage Maximum, Percent		16, 20	16, 10
Height Average		0.5 IN	2 IN
Height Minimum, Maximum		0.75, 1	1, 4
Density Average		12 PLA/M2	6 PLA/M2
Density Minimum, Maximum		10, 20	2, 8
Pest 6 Code, Type, Scale	XANST, W, BBCH	XANST, W, BBCH	XANST, W, BBCH
Stage Majority, Percent		12, 100	
Height Average		1 IN	
Height Minimum, Maximum		0.5, 1	
Density Average		0.25 PLA/M2	
Density Minimum, Maximum		0, 1	
Pest 7 Code, Type, Scale	POLPY, W, BBCH	POLPY, W, BBCH	POLPY, W, BBCH
Stage Majority, Percent		12, 100	
Height Average		0.5 IN	
Height Minimum, Maximum		0.75, 0.5	
Density Average		3 PLA/M2	
Density Minimum, Maximum		1, 8	
Pest 8 Code, Type, Scale	IPOHE, W, BBCH	IPOHE, W, BBCH	IPOHE, W, BBCH
Stage Majority, Percent		10, 100	12, 100
Height Average		1 IN	2 IN
Height Minimum, Maximum		0.5, 1	1, 2
Density Average		2 PLA/M2	3 PLA/M2
Density Minimum, Maximum		1, 3	1, 5

Application Equipment

	A	B	C
Appl. Equipment	6' TTI	10' AIXR	10' AIXR
Equipment Type	BACCAI	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI	44 PSI
Nozzle Model	1110015	110015	110015
Nozzle Type	TTI	AI XR	AI XR
Nozzle TradeName	Turbo Tee Induction	TeeJet	TeeJet
Nozzle Tip Size, Color	015, green	015, green	015, green
Nozzle Spacing	18 IN	18 IN	18 IN
Boom Length	6.67 FT	10 FT	10 FT
Boom Height	20 IN	20 IN	20 IN
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Water Hardness (ppm CaCO3)	250	250	250
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Overage		25 mL	25 mL
Mix Size	1 L	2 L	2 L
Spray pH	7.8	7.8	7.8
Propellant	COMCO2	COMCO2	COMCO2
Tank Mix (Y/N)		Y, yes	Y, yes

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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	C, ZEAM02			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays subsp.>			
Crop Name	Corn, BT/Roundu>			
Rating Date	May-23-2022	May-23-2022	May-23-2022	May-23-2022
Part Rated	PLANT, C		-, P	
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size	2 ROW			
Number of Subsamples	1	1	1	1
Data Entry Date	May-26-2022	May-27-2022	May-27-2022	May-27-2022
Days After First/Last Applic.	21, 21	21, 21	21, 21	21, 21
Trt-Eval Interval	-1 DA-B	-1 DA-B	-1 DA-B	-1 DA-B
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Unit	Appl Code	1*	2*	3*	4*	5*
1 UNTREATED CHECK			0b	0b	0b	0-	0b
2 ROUNDUP POWER MAX(AE)	1 qt/a B		1ab	0b	0b	0-	0b
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		0b	0b	0b	0-	0b
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		0b	0b	0b	0-	0b
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		0ab	0b	0b	0-	0b
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		0b	0b	0b	0-	0b
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		1ab	0b	0b	0-	0b
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		0ab	0b	0b	0-	0b
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		2a	86a	69a	100-	100a
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
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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	C, ZEAM02						
BBCH Scale	BCOR						
Crop Scientific Name	Zea mays subsp.>						
Crop Name	Corn, BT/Roundu>						
Rating Date	May-23-2022	May-23-2022	May-23-2022	May-23-2022			
Part Rated	PLANT, C	-, P					
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Sample Size	2 ROW						
Number of Subsamples	1	1	1	1			
Data Entry Date	May-26-2022	May-27-2022	May-27-2022	May-27-2022			
Days After First/Last Applic.	21, 21	21, 21	21, 21	21, 21			
Trt-Eval Interval	-1 DA-B	-1 DA-B	-1 DA-B	-1 DA-B			
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1			
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Appl Code	1*	2*	3*	4*	5*
Rate Unit							
10 MAVERICK	18 fl oz/a	A	1 ab	83 a	64 a	100-	100 a
10 MAVERICK	14 fl oz/a	C					
10 ROUNDUP POWER MAX(AE)	1 qt/a	C					
10 INDUCE	0.25 % v/v	C					
10 N PAK AMS	6 % v/v	C					
11 MAVERICK	18 fl oz/a	A	2 ab	89 a	66 a	100-	98 a
11 AATREX	0.5 lb ai/a	A					
11 MAVERICK	14 fl oz/a	C					
11 AATREX	0.5 lb ai/a	C					
11 ROUNDUP POWER MAX(AE)	1 qt/a	C					
11 INDUCE	0.25 % v/v	C					
11 N PAK AMS	6 % v/v	C					
12 PERPETUO	8 fl oz/a	A	2 ab	89 a	65 a	100-	100 a
12 AATREX	1 lb ai/a	A					
12 MAVERICK	14 fl oz/a	C					
12 ROUNDUP POWER MAX(AE)	1 qt/a	C					
12 INDUCE	0.25 % v/v	C					
12 N PAK AMS	6 % v/v	C					
LSD P=.05			1.3	6.9	9.1	.	2.1
Standard Deviation			0.9	4.8	6.3	0.0	1.4
CV			123.71	16.74	28.84	0.0	4.36
Grand Mean			0.7	28.8	22.0	33.3	33.1
Levene's F^			1.562	1.596	2.678	.	0.758
Levene's Prob(F)			0.153	0.142	0.013*	.	0.678
Rank X2			.	.	.	.	.
P(Rank X2)			.	.	.	.	.
Skewness^			0.3462	-0.1847	0.7328*	.	-3.5949*
Kurtosis^			1.2639	1.0303	3.1321*	.	22.9943*
Replicate F			2.825	3.507	1.500	0.000	1.000
Replicate Prob(F)			0.0538	0.0260	0.2327	1.0000	0.4051
Treatment F			3.321	311.813	105.085	0.000	4597.364
Treatment Prob(F)			0.0037	0.0001	0.0001	1.0000	0.0001

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Pest Type	W, Weed	W, Weed	W, Weed				
Pest Code	ABUTH	POLPY	IPOHE				
Pest Scientific Name	Abutilon theoph>	Persicaria pens>	Ipomoea hederac>				
Pest Name	velvetleaf	annual smartweed	ivy-leaf mornin>				
Crop Type, Code				C, ZEAM02	C, ZEAM02		
BBCH Scale				BCOR	BCOR		
Crop Scientific Name				Zea mays subsp.>	Zea mays subsp.>		
Crop Name				Corn, BT/Roundu>	Corn, BT/Roundu>		
Rating Date	May-23-2022	May-23-2022	May-23-2022	Jun-7-2022	Jun-7-2022		
Part Rated				PLANT, C	PLANT, C		
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYCHL		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	May-27-2022	May-27-2022	May-27-2022	Jun-13-2022	Jun-13-2022		
Days After First/Last Applic.	21, 21	21, 21	21, 21	36, 4	36, 4		
Trt-Eval Interval	-1 DA-B	-1 DA-B	-1 DA-B	14 DA-B	14 DA-B		
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	36 DP-1	36 DP-1		
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	24 DE-1	24 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate Unit	Appl Code	6*	7*	8*	9*	10*
1 UNTREATED CHECK			0c	0-	0b	0-	0-
2 ROUNDUP POWER MAX(AE)	1 qt/a B		0c	0-	0b	0-	0-
2 STATUS	2 oz/a B						
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		0c	0-	0b	1-	0-
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		0c	0-	0b	1-	0-
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		0c	0-	0b	1-	0-
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		0c	0-	0b	1-	0-
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		0c	0-	0b	1-	0-
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		0c	0-	0b	1-	1-
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		91b	100-	81a	1-	0-
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

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Pest Type	W, Weed	W, Weed	W, Weed					
Pest Code	ABUTH	POLPY	IPOHE					
Pest Scientific Name	Abutilon theoph>	Persicaria pens>	Ipomoea hederac>					
Pest Name	velvetleaf annual	smartweed	ivy-leaf mornin>					
Crop Type, Code				C, ZEAM02	C, ZEAM02			
BBCH Scale				BCOR	BCOR			
Crop Scientific Name				Zea mays subsp.>	Zea mays subsp.>			
Crop Name				Corn, BT/Roundu>	Corn, BT/Roundu>			
Rating Date	May-23-2022	May-23-2022	May-23-2022	Jun-7-2022	Jun-7-2022			
Part Rated				PLANT, C	PLANT, C			
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYCHL			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Data Entry Date	May-27-2022	May-27-2022	May-27-2022	Jun-13-2022	Jun-13-2022			
Days After First/Last Applic.	21, 21	21, 21	21, 21	36, 4	36, 4			
Trt-Eval Interval	-1 DA-B	-1 DA-B	-1 DA-B	14 DA-B	14 DA-B			
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	36 DP-1	36 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	24 DE-1	24 DE-1			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Appl	6*	7*	8*	9*	10*	
No. Name	Rate Unit	Code						
10 MAVERICK	18 fl oz/a A		96 ab		100-	82 a	1-	0-
10 MAVERICK	14 fl oz/a C							
10 ROUNDUP POWER MAX(AE)	1 qt/a C							
10 INDUCE	0.25 % v/v C							
10 N PAK AMS	6 % v/v C							
11 MAVERICK	18 fl oz/a A		100 a		100-	82 a	1-	0-
11 AATREX	0.5 lb ai/a A							
11 MAVERICK	14 fl oz/a C							
11 AATREX	0.5 lb ai/a C							
11 ROUNDUP POWER MAX(AE)	1 qt/a C							
11 INDUCE	0.25 % v/v C							
11 N PAK AMS	6 % v/v C							
12 PERPETUO	8 fl oz/a A		92 b		100-	80 a	0-	0-
12 AATREX	1 lb ai/a A							
12 MAVERICK	14 fl oz/a C							
12 ROUNDUP POWER MAX(AE)	1 qt/a C							
12 INDUCE	0.25 % v/v C							
12 N PAK AMS	6 % v/v C							
LSD P=.05			5.0			1.7	1.0	0.4
Standard Deviation			3.5	0.0		1.2	0.7	0.3
CV			10.94	0.0		5.1	123.43	273.96
Grand Mean			31.6	33.3		23.4	0.5	0.1
Levene's F^			3.536	.		0.529	0.911	1.054
Levene's Prob(F)			0.002*	.		0.87	0.54	0.423
Rank X2			.	.		.	.	.
P(Rank X2)			.	.		.	.	.
Skewness^			-0.8182*	.		1.3588*	0.3262	1.0064*
Kurtosis^			3.0403*	.		3.053*	-0.3502	1.5551*
Replicate F			1.461	0.000		2.141	2.051	2.302
Replicate Prob(F)			0.2430	1.0000		0.1158	0.1258	0.0952
Treatment F			730.370	0.000		3871.056	0.898	1.372
Treatment Prob(F)			0.0001	1.0000		0.0001	0.5519	0.2318

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	SETLU	AMBTR	ABUTH	AMARE
Pest Scientific Name	Setaria pumila	Ambrosia trifida	Abutilon theoph>	Amaranthus retr>
Pest Name	foxtail, yellow	Giant ragweed	velvetleaf	Redroot pigweed
Crop Type, Code	C, ZEAM02			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays subsp.>			
Crop Name	Corn, BT/Roundu>			
Rating Date	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022
Part Rated	PLANT, C	-, P	-, P	-, P
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size				
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-13-2022	Jun-13-2022	Jun-13-2022	Jun-13-2022
Days After First/Last Applic.	36, 4	36, 4	36, 4	36, 4
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Unit	Appl Code	11*	12*	13*	14*	15*
1 UNTREATED CHECK			0-	0d	0d	0-	0c
2 ROUNDUP POWER MAX(AE)	1 qt/a B		0-	81c	80c	100-	88b
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		0-	100a	92ab	100-	100a
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		0-	91ab	89abc	100-	100a
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		0-	100a	86abc	100-	96a
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		0-	96a	97a	100-	100a
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		0-	85bc	87abc	100-	100a
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		0-	95a	86abc	100-	100a
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		0-	96a	91abc	100-	100a
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	SETLU	AMBTR	ABUTH	AMARE			
Pest Scientific Name	Setaria pumila	Ambrosia trifida	Abutilon theoph>	Amaranthus retr>			
Pest Name	foxtail, yellow	Giant ragweed	velvetleaf	Redroot pigweed			
Crop Type, Code	C, ZEAM02						
BBCH Scale	BCOR						
Crop Scientific Name	Zea mays subsp.>						
Crop Name	Corn, BT/Roundu>						
Rating Date	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022			
Part Rated	PLANT, C	-, P	-, P	-, P			
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Sample Size							
Number of Subsamples	1	1	1	1			
Data Entry Date	Jun-13-2022	Jun-13-2022	Jun-13-2022	Jun-13-2022			
Days After First/Last Applic.	36, 4	36, 4	36, 4	36, 4			
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B			
Plant-Eval Interval	36 DP-1	36 DP-1	36 DP-1	36 DP-1			
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1			
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment	11*	12*	13*	14*	15*		
No. Name	Rate Unit	Code					
10 MAVERICK	18 fl oz/a	A	0-	90ab	85bc	100-	100a
10 MAVERICK	14 fl oz/a	C					
10 ROUNDUP POWER MAX(AE)	1 qt/a	C					
10 INDUCE	0.25 % v/v	C					
10 N PAK AMS	6 % v/v	C					
11 MAVERICK	18 fl oz/a	A	0-	94ab	85bc	100-	100a
11 AATREX	0.5 lb ai/a	A					
11 MAVERICK	14 fl oz/a	C					
11 AATREX	0.5 lb ai/a	C					
11 ROUNDUP POWER MAX(AE)	1 qt/a	C					
11 INDUCE	0.25 % v/v	C					
11 N PAK AMS	6 % v/v	C					
12 PERPETUO	8 fl oz/a	A	0-	93ab	88abc	100-	100a
12 AATREX	1 lb ai/a	A					
12 MAVERICK	14 fl oz/a	C					
12 ROUNDUP POWER MAX(AE)	1 qt/a	C					
12 INDUCE	0.25 % v/v	C					
12 N PAK AMS	6 % v/v	C					
LSD P=.05				6.6	6.9		3.7
Standard Deviation			0.0	4.6	4.8	0.0	2.6
CV			0.0	5.41	5.98	0.0	2.84
Grand Mean			0.0	85.1	80.5	91.7	90.3
Levene's F^			.	0.422	0.773	.	0.843
Levene's Prob(F)			.	0.936	0.664	.	0.60
Rank X2			.	.	.	.	.
P(Rank X2)			.	.	.	.	.
Skewness^			.	0.1257	0.2805	.	-1.4769*
Kurtosis^			.	-0.8343	-0.5263	.	11.3058*
Replicate F			0.000	6.470	4.931	0.000	1.345
Replicate Prob(F)			1.0000	0.0014	0.0061	1.0000	0.2765
Treatment F			0.000	141.111	114.044	0.000	499.705
Treatment Prob(F)			1.0000	0.0001	0.0001	1.0000	0.0001

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 Due to missing data, the effective replicates used for mean comparisons are: col. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	SIDSP	SETFA	ECHCG	SETLU	AMBTR
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa cru>	Setaria pumila	Ambrosia trifida
Pest Name	Prickly sida	Giant foxtail	common barnyard>	foxtail, yellow	Giant ragweed
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-7-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022
Part Rated					-, P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-13-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022
Days After First/Last Applic.	36, 4	49, 17	49, 17	49, 17	49, 17
Trt-Eval Interval	14 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	36 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1
Days After Emergence	24 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate Unit	Appl Code	16*	17*	18*	19*	20*
1 UNTREATED CHECK			0b	0e	0e	0c	0e
2 ROUNDUP POWER MAX(AE)	1 qt/a B		98a	69d	65d	68b	66d
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		100a	98a	98a	98a	84abc
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		100a	89bc	90ab	86a	74cd
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		100a	94ab	94a	91a	73cd
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		100a	88bc	85bc	88a	83bc
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		100a	81c	79c	71b	75cd
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		100a	95ab	95a	93a	79cd
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		100a	100a	100a	100a	98a
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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 Due to missing data, the effective replicates used for mean comparisons are: col. 8=3.7; 27=3.6; 38=3
 * Adjusted means
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 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	SIDSP	SETFA	ECHCG	SETLU	AMBTR	
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa cru>	Setaria pumila	Ambrosia trifida	
Pest Name	Prickly sida	Giant foxtail	common barnyard>	foxtail, yellow	Giant ragweed	
Crop Type, Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	Jun-7-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022	
Part Rated					-, P	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	
Sample Size						
Number of Subsamples	1	1	1	1	1	
Data Entry Date	Jun-13-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	
Days After First/Last Applic.	36, 4	49, 17	49, 17	49, 17	49, 17	
Trt-Eval Interval	14 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B	
Plant-Eval Interval	36 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	
Days After Emergence	24 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1	
ARM Action Codes						
Number of Decimals	0	0	0	0	0	
Trt Treatment						
No. Name						
Rate						
Unit						
Appl Code						
16*						
17*						
18*						
19*						
20*						
10 MAVERICK	18 fl oz/a A	100 a	100 a	100 a	100 a	97 ab
10 MAVERICK	14 fl oz/a C					
10 ROUNDUP POWER MAX(AE)	1 qt/a C					
10 INDUCE	0.25 % v/v C					
10 N PAK AMS	6 % v/v C					
11 MAVERICK	18 fl oz/a A	100 a	100 a	100 a	100 a	96 ab
11 AATREX	0.5 lb ai/a A					
11 MAVERICK	14 fl oz/a C					
11 AATREX	0.5 lb ai/a C					
11 ROUNDUP POWER MAX(AE)	1 qt/a C					
11 INDUCE	0.25 % v/v C					
11 N PAK AMS	6 % v/v C					
12 PERPETUO	8 fl oz/a A	100 a	100 a	100 a	100 a	96 ab
12 AATREX	1 lb ai/a A					
12 MAVERICK	14 fl oz/a C					
12 ROUNDUP POWER MAX(AE)	1 qt/a C					
12 INDUCE	0.25 % v/v C					
12 N PAK AMS	6 % v/v C					
LSD P=.05		2.1	6.7	7.2	10.5	10.2
Standard Deviation		1.4	4.6	5.0	7.3	7.1
CV		1.58	5.48	6.01	8.85	9.29
Grand Mean		91.5	84.4	83.8	82.8	76.7
Levene's F^		0.758	0.824	0.252	0.513	0.371
Levene's Prob(F)		0.678	0.617	0.991	0.882	0.959
Rank X2		.	.	.	.	.
P(Rank X2)		.	.	.	.	.
Skewness^		-3.5949*	-0.0635	0.0936	-1.8236*	0.1121
Kurtosis^		22.9943*	-0.65	-0.2456	7.3796*	-0.5443
Replicate F		1.000	5.950	6.648	3.680	11.385
Replicate Prob(F)		0.4051	0.0023	0.0012	0.0217	0.0001
Treatment F		1593.727	148.743	128.014	59.771	55.295
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
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 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	CHEAL	AMARE	ABUTH	POLPY	HIBTR		
Pest Scientific Name	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Persicaria pens>	Hibiscus trionum		
Pest Name	common lambsqua>	Redroot pigweed	velvetleaf	annual smartweed	Venice mallow		
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jun-20-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022		
Part Rated							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022		
Days After First/Last Applic.	49, 17	49, 17	49, 17	49, 17	49, 17		
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B		
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1		
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	21*	22*	23*	24*	25*
No. Name	Rate Unit	Code					
1 UNTREATED CHECK			0c	0c	0c	0c	0b
2 ROUNDUP POWER MAX(AE)	1 qt/a B		78b	53b	70b	70b	88a
2 STATUS	2 oz/a B						
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		100a	100a	100a	100a	100a
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		100a	95a	100a	100a	100a
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		95a	93a	100a	100a	100a
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		100a	100a	100a	100a	100a
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		100a	88a	100a	100a	100a
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		100a	100a	100a	100a	100a
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		100a	100a	100a	100a	100a
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	CHEAL	AMARE	ABUTH	POLPY	HIBTR
Pest Scientific Name	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Persicaria pens>	Hibiscus trionum
Pest Name	common lambsqua>	Redroot pigweed	velvetleaf	annual smartweed	Venice mallow
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-20-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022	Jun-20-2022
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size					
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022	Jun-21-2022
Days After First/Last Applic.	49, 17	49, 17	49, 17	49, 17	49, 17
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	49 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1
Days After Emergence	37 DE-1	37 DE-1	37 DE-1	37 DE-1	37 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment					
No. Name					
Rate					
Appl Code					
21*	22*	23*	24*	25*	
10 MAVERICK	18 fl oz/a A	100 a	100 a	100 a	100 a
10 MAVERICK	14 fl oz/a C				
10 ROUNDUP POWER MAX(AE)	1 qt/a C				
10 INDUCE	0.25 % v/v C				
10 N PAK AMS	6 % v/v C				
11 MAVERICK	18 fl oz/a A	100 a	100 a	100 a	100 a
11 AATREX	0.5 lb ai/a A				
11 MAVERICK	14 fl oz/a C				
11 AATREX	0.5 lb ai/a C				
11 ROUNDUP POWER MAX(AE)	1 qt/a C				
11 INDUCE	0.25 % v/v C				
11 N PAK AMS	6 % v/v C				
12 PERPETUO	8 fl oz/a A	100 a	100 a	100 a	100 a
12 AATREX	1 lb ai/a A				
12 MAVERICK	14 fl oz/a C				
12 ROUNDUP POWER MAX(AE)	1 qt/a C				
12 INDUCE	0.25 % v/v C				
12 N PAK AMS	6 % v/v C				
LSD P=.05	5.0	15.8	10.2	9.0	10.4
Standard Deviation	3.5	11.0	7.1	6.2	7.2
CV	3.89	12.86	7.93	6.99	7.96
Grand Mean	89.3	85.6	89.2	89.2	90.6
Levene's F^	1.934	1.927	12.121	3.409	0.758
Levene's Prob(F)	0.067	0.068	0.00*	0.003*	0.678
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	-2.0158*	1.347*	0.9784*	2.1396*	-3.5949*
Kurtosis^	12.4428*	8.5264*	12.5992*	19.252*	22.9943*
Replicate F	0.272	1.987	1.000	1.000	1.000
Replicate Prob(F)	0.8454	0.1351	0.4051	0.4051	0.4051
Treatment F	276.402	30.027	69.030	88.753	63.545
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	SIDSP	IPOHE	SETFA	ECHCG	SETLU		
Pest Scientific Name	Sida spinosa	Ipomoea hederac>	Setaria faberi	Echinochloa cru>	Setaria pumila		
Pest Name	Prickly sida	ivy-leaf mornin>	Giant foxtail	common barnyard>	foxtail, yellow		
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jun-20-2022	Jun-20-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022		
Part Rated							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-21-2022	Jun-21-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022		
Days After First/Last Applic.	49, 17	49, 17	64, 32	64, 32	64, 32		
Trt-Eval Interval	27 DA-B	27 DA-B	42 DA-B	42 DA-B	42 DA-B		
Plant-Eval Interval	49 DP-1	49 DP-1	64 DP-1	64 DP-1	64 DP-1		
Days After Emergence	37 DE-1	37 DE-1	52 DE-1	52 DE-1	52 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate Unit	Appl Code	26*	27*	28*	29*	30*
1 UNTREATED CHECK			0c	0b	0e	0e	0d
2 ROUNDUP POWER MAX(AE)	1 qt/a B		63b	75a	69d	58d	64c
2 STATUS	2 oz/a B						
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		93a	83a	98ab	93ab	95a
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		75ab	74a	88bc	82bc	85ab
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		86ab	60a	96ab	90ab	96a
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		96a	80a	90abc	86abc	89ab
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		74ab	83a	83c	76c	78b
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		100a	88a	97ab	94ab	97a
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		100a	98a	100a	98a	100a
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	SIDSP	IPOHE	SETFA	ECHCG	SETLU		
Pest Scientific Name	Sida spinosa	Ipomoea hederac>	Setaria faberi	Echinochloa cru>	Setaria pumila		
Pest Name	Prickly sida	ivy-leaf mornin>	Giant foxtail	common barnyard>	foxtail, yellow		
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jun-20-2022	Jun-20-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022		
Part Rated							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-21-2022	Jun-21-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022		
Days After First/Last Applic.	49, 17	49, 17	64, 32	64, 32	64, 32		
Trt-Eval Interval	27 DA-B	27 DA-B	42 DA-B	42 DA-B	42 DA-B		
Plant-Eval Interval	49 DP-1	49 DP-1	64 DP-1	64 DP-1	64 DP-1		
Days After Emergence	37 DE-1	37 DE-1	52 DE-1	52 DE-1	52 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate	Appl Code	26*	27*	28*	29*	30*
10 MAVERICK	18 fl oz/a A		100 a	96 a	100 a	98 a	100 a
10 MAVERICK	14 fl oz/a C						
10 ROUNDUP POWER MAX(AE)	1 qt/a C						
10 INDUCE	0.25 % v/v C						
10 N PAK AMS	6 % v/v C						
11 MAVERICK	18 fl oz/a A		100 a	90 a	100 a	100 a	100 a
11 AATREX	0.5 lb ai/a A						
11 MAVERICK	14 fl oz/a C						
11 AATREX	0.5 lb ai/a C						
11 ROUNDUP POWER MAX(AE)	1 qt/a C						
11 INDUCE	0.25 % v/v C						
11 N PAK AMS	6 % v/v C						
12 PERPETUO	8 fl oz/a A		100 a	105 a	100 a	100 a	100 a
12 AATREX	1 lb ai/a A						
12 MAVERICK	14 fl oz/a C						
12 ROUNDUP POWER MAX(AE)	1 qt/a C						
12 INDUCE	0.25 % v/v C						
12 N PAK AMS	6 % v/v C						
LSD P=.05			20.2	26.1	7.5	9.2	9.6
Standard Deviation			14.1	18.1	5.2	6.4	6.7
CV			17.13	23.93	6.13	7.89	8.02
Grand Mean			82.1	75.5	84.9	81.2	83.5
Levene's F^			1.092	0.845	0.783	0.559	0.674
Levene's Prob(F)			0.394	0.599	0.655	0.849	0.753
Rank X2			.	.	.	.	.
P(Rank X2)			.	.	.	.	.
Skewness^			-0.1944	-0.1021	-0.2773	-0.4831	-0.1974
Kurtosis^			2.9577*	1.0218	0.7854	0.0204	1.3926*
Replicate F			1.072	2.596	4.699	5.961	3.949
Replicate Prob(F)			0.3744	0.0714	0.0077	0.0023	0.0164
Treatment F			16.800	8.502	118.559	78.461	72.663
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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 Due to missing data, the effective replicates used for mean comparisons are: col. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
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POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	AMBTR	CHEAL	AMARE	ABUTH	POLPY		
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Persicaria pens>		
Pest Name	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf	annual smartweed		
Crop Type, Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022		
Part Rated	-	P					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022		
Days After First/Last Applic.	64, 32	64, 32	64, 32	64, 32	64, 32		
Trt-Eval Interval	42 DA-B	42 DA-B	42 DA-B	42 DA-B	42 DA-B		
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1		
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate Unit	Appl Code	31*	32*	33*	34*	35*
1 UNTREATED CHECK			0d	0c	0c	0b	0b
2 ROUNDUP POWER MAX(AE)	1 qt/a B		71c	70b	70b	95a	95a
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 pt/a B		90ab	100a	100a	100a	100a
3 ROUNDUP POWER MAX(AE)	1 qt/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 HALEX GT	2 qt/a B		78bc	100a	100a	100a	100a
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 ARMEZON PRO	24 fl oz/a B		66c	90a	100a	100a	96a
5 ROUNDUP POWER MAX(AE)	1 qt/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 RESICORE	44 fl oz/a B		82abc	100a	100a	100a	100a
6 ROUNDUP POWER MAX(AE)	1 qt/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 MAVERICK	14 fl oz/a B		68c	100a	100a	100a	100a
7 ROUNDUP POWER MAX(AE)	1 qt/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						
8 MAVERICK	14 fl oz/a B		78bc	100a	100a	100a	100a
8 AATREX	0.75 lb ai/a B						
8 ROUNDUP POWER MAX(AE)	1 qt/a B						
8 INDUCE	0.25% v/v B						
8 N PAK AMS	6% v/v B						
9 ACURON HERBICIDE	1.5 qt/a A		100a	100a	100a	100a	100a
9 ACURON HERBICIDE	1.5 qt/a C						
9 ROUNDUP POWER MAX(AE)	1 qt/a C						
9 INDUCE	0.25% v/v C						
9 N PAK AMS	6% v/v C						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 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	AMBTR	CHEAL	AMARE	ABUTH	POLPY	
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Persicaria pens>	
Pest Name	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf	annual smartweed	
Crop Type, Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	Jul-5-2022	
Part Rated	- P					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	
Sample Size						
Number of Subsamples	1	1	1	1	1	
Data Entry Date	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	Jul-6-2022	
Days After First/Last Applic.	64, 32	64, 32	64, 32	64, 32	64, 32	
Trt-Eval Interval	42 DA-B	42 DA-B	42 DA-B	42 DA-B	42 DA-B	
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1	64 DP-1	
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1	
ARM Action Codes						
Number of Decimals	0	0	0	0	0	
Trt Treatment						
No. Name						
Rate						
Appl Code						
31*						
32*						
33*						
34*						
35*						
10 MAVERICK	18 fl oz/a A	100 a	100 a	100 a	100 a	
10 MAVERICK	14 fl oz/a C					
10 ROUNDUP POWER MAX(AE)	1 qt/a C					
10 INDUCE	0.25 % v/v C					
10 N PAK AMS	6 % v/v C					
11 MAVERICK	18 fl oz/a A	98 a	100 a	100 a	100 a	
11 AATREX	0.5 lb ai/a A					
11 MAVERICK	14 fl oz/a C					
11 AATREX	0.5 lb ai/a C					
11 ROUNDUP POWER MAX(AE)	1 qt/a C					
11 INDUCE	0.25 % v/v C					
11 N PAK AMS	6 % v/v C					
12 PERPETUO	8 fl oz/a A	98 a	100 a	100 a	100 a	
12 AATREX	1 lb ai/a A					
12 MAVERICK	14 fl oz/a C					
12 ROUNDUP POWER MAX(AE)	1 qt/a C					
12 INDUCE	0.25 % v/v C					
12 N PAK AMS	6 % v/v C					
LSD P=.05		12.2	12.8	10.2	4.2	5.3
Standard Deviation		8.5	8.9	7.1	2.9	3.7
CV		10.96	10.04	7.93	3.16	4.03
Grand Mean		77.3	88.3	89.2	91.3	90.9
Levene's F^		0.25	3.232	12.121	0.758	0.791
Levene's Prob(F)		0.991	0.004*	0.00*	0.678	0.647
Rank X2	
P(Rank X2)	
Skewness^		0.1907	-0.2726	0.9784*	-3.5949*	-2.7173*
Kurtosis^		-0.743	6.0236*	12.5992*	22.9943*	11.7152*
Replicate F		7.461	1.571	1.000	1.000	0.661
Replicate Prob(F)		0.0006	0.2150	0.4051	0.4051	0.5821
Treatment F		41.722	43.345	69.030	397.364	245.693
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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 Due to missing data, the effective replicates used for mean comparisons are: col. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

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POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed		
Pest Code	HIBTR	SIDSP	IPOHE		
Pest Scientific Name	Hibiscus trionum	Sida spinosa	Ipomoea hederac>		
Pest Name	Venice mallow	Prickly sida	ivy-leaf mornin>		
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-5-2022	Jul-5-2022	Jul-5-2022		
Part Rated					
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size					
Number of Subsamples	1	1	1		
Data Entry Date	Jul-6-2022	Jul-6-2022	Jul-6-2022		
Days After First/Last Applic.	64, 32	64, 32	64, 32		
Trt-Eval Interval	42 DA-B	42 DA-B	42 DA-B		
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1		
Days After Emergence	52 DE-1	52 DE-1	52 DE-1		
ARM Action Codes					
Number of Decimals	0	0	0		
Trt Treatment No. Name	Rate Unit	Appl Code	36*	37*	38*
1 UNTREATED CHECK			0-	0d	0d
2 ROUNDUP POWER MAX(AE)	1 qt/a B		100-	55c	60c
2 STATUS	2 oz/a B				
2 INDUCE	0.25% v/v B				
2 N PAK AMS	6% v/v B				
3 ACURON HERBICIDE	3 pt/a B		100-	100a	92ab
3 ROUNDUP POWER MAX(AE)	1 qt/a B				
3 INDUCE	0.25% v/v B				
3 N PAK AMS	6% v/v B				
4 HALEX GT	2 qt/a B		100-	72bc	66bc
4 INDUCE	0.25% v/v B				
4 N PAK AMS	6% v/v B				
5 ARMEZON PRO	24 fl oz/a B		100-	74bc	76abc
5 ROUNDUP POWER MAX(AE)	1 qt/a B				
5 INDUCE	0.25% v/v B				
5 N PAK AMS	6% v/v B				
6 RESICORE	44 fl oz/a B		100-	84ab	70abc
6 ROUNDUP POWER MAX(AE)	1 qt/a B				
6 INDUCE	0.25% v/v B				
6 N PAK AMS	6% v/v B				
7 MAVERICK	14 fl oz/a B		100-	74bc	73abc
7 ROUNDUP POWER MAX(AE)	1 qt/a B				
7 INDUCE	0.25% v/v B				
7 N PAK AMS	6% v/v B				
8 MAVERICK	14 fl oz/a B		100-	97a	88abc
8 AATREX	0.75 lb ai/a B				
8 ROUNDUP POWER MAX(AE)	1 qt/a B				
8 INDUCE	0.25% v/v B				
8 N PAK AMS	6% v/v B				
9 ACURON HERBICIDE	1.5 qt/a A		100-	100a	95ab
9 ACURON HERBICIDE	1.5 qt/a C				
9 ROUNDUP POWER MAX(AE)	1 qt/a C				
9 INDUCE	0.25% v/v C				
9 N PAK AMS	6% v/v C				

Means followed by same letter or symbol do not significantly differ (P= .05, Student-Newman-Keuls).
 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. 8=3.7; 27=3.6; 38=3
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,7,11,14,36 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

POST and Sequential weed control with V10494.Primary/Core PRE soil residual

Trial ID: VUSA2022V10494MD68.05 Cooperator Trial ID:
 Protocol ID: 22MAVPRPO Location: Western Branch F-8 East Trial Year: 2022
 Project ID: 201510 Project ID 2: Project ID 3:
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed
Pest Code	HIBTR	SIDSP	IPOHE
Pest Scientific Name	Hibiscus trionum	Sida spinosa	Ipomoea hederac>
Pest Name	Venice mallow	Prickly sida	ivy-leaf mornin>
Crop Type, Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Jul-5-2022	Jul-5-2022	Jul-5-2022
Part Rated			
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size			
Number of Subsamples	1	1	1
Data Entry Date	Jul-6-2022	Jul-6-2022	Jul-6-2022
Days After First/Last Applic.	64, 32	64, 32	64, 32
Trt-Eval Interval	42 DA-B	42 DA-B	42 DA-B
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1
Days After Emergence	52 DE-1	52 DE-1	52 DE-1
ARM Action Codes			
Number of Decimals	0	0	0
Trt Treatment	36*	37*	38*
No. Name	Rate	Appl	
	Rate Unit	Code	
10 MAVERICK	18 fl oz/a A		100- 100 a 95 ab
10 MAVERICK	14 fl oz/a C		
10 ROUNDUP POWER MAX(AE)	1 qt/a C		
10 INDUCE	0.25 % v/v C		
10 N PAK AMS	6 % v/v C		
11 MAVERICK	18 fl oz/a A		100- 100 a 99 a
11 AATREX	0.5 lb ai/a A		
11 MAVERICK	14 fl oz/a C		
11 AATREX	0.5 lb ai/a C		
11 ROUNDUP POWER MAX(AE)	1 qt/a C		
11 INDUCE	0.25 % v/v C		
11 N PAK AMS	6 % v/v C		
12 PERPETUO	8 fl oz/a A		100- 100 a 98 a
12 AATREX	1 lb ai/a A		
12 MAVERICK	14 fl oz/a C		
12 ROUNDUP POWER MAX(AE)	1 qt/a C		
12 INDUCE	0.25 % v/v C		
12 N PAK AMS	6 % v/v C		
LSD P=.05	.	15.7	16.1
Standard Deviation	0.0	10.9	11.1
CV	0.0	13.71	14.9
Grand Mean	91.7	79.5	74.5
Levene's F^	.	2.30	0.588
Levene's Prob(F)	.	0.03*	0.823
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness^	.	0.1177	0.1061
Kurtosis^	.	2.1038*	-0.933
Replicate F	0.000	1.401	8.327
Replicate Prob(F)	1.0000	0.2599	0.0004
Treatment F	0.000	28.875	21.710
Treatment Prob(F)	1.0000	0.0001	0.0001

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 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
 CHEAL, Chenopodium album, common lambsquarters = US
 AMARE, Amaranthus retroflexus, Redroot pigweed = US
 ABUTH, Abutilon theophrasti, velvetleaf = US
 POLPY, Persicaria pensylvanica, annual smartweed = US
 IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US
 SIDSP, Sida spinosa, Prickly sida = US
 ECHCG, Echinochloa crus-galli, common barnyardgrass = US
 HIBTR, Hibiscus trionum, Venice mallow = US

Crop Type Code

C = EPPO species (Bayer) codes

Part Rated

PLANT = plant

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

PHYSTU = phytotoxicity - stunting

PHYCHL = phytotoxicity - chlorosis

PHYNEC = phytotoxicity - necrosis /burn

Rating Unit/Min/Max

%, 0, 100 = percent

ROW = row

Plant-Eval Interval

21 DP-1 = 1 ZEAMX May-2-2022

36 DP-1 = 1 ZEAMX May-2-2022

49 DP-1 = 1 ZEAMX May-2-2022

64 DP-1 = 1 ZEAMX May-2-2022