

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Status: E established
 ARM Trial Created On: Mar-29-2022 Reliability: 1 usable data
 Initiation Date: May-1-2022

Trial Location

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

Latitude of LL Corner °: 39.85943 N
 Longitude of LL Corner °: -83.67471 W
 Altitude of LL Corner: 1086.00 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

Crop Description

Crop 1: C	ZEAMX Zea mays	Corn	BBCH Scale: BCOR
	Entry Date: May-3-2022	Stage Scale: BBCH	
	Variety: Seed Consultants SC1122Q		
	Attributes: Glyphosate-R, Glufosinate-R		
	Planting Date: May-2-2022	Seed Size: 1826 S/LB	
	Depth: 2 IN	Planting Rate: 32097 S/A	
	Rows per Plot: 4	Planting Method: PLANTD planted	
	Row Spacing: 30 IN	Planting Equipment: FPP finger pickup planter	
	Soil Temperature: 52 F	Seed Bed: MEDIUM medium	
	Emergence Date: May-16-2022	Soil Moisture: DRY dry	
	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: SETFA	Setaria faberi	Entry Date: Jul-15-2022
	Common Name: Giant foxtail		Stage Scale: BBCH
Pest 2 Type: W	Code: SETLU	Setaria pumila	Entry Date: Jul-15-2022
	Common Name: foxtail, yellow		Stage Scale: BBCH
Pest 3 Type: W	Code: ECHCG	Echinochloa crus-galli	Entry Date: Jul-15-2022
	Common Name: common barnyardgrass		Stage Scale: BBCH
Pest 4 Type: W	Code: AMBTR	Ambrosia trifida	Entry Date: Jul-15-2022
	Common Name: Giant ragweed		Stage Scale: BBCH
Pest 5 Type: W	Code: CHEAL	Chenopodium album	Entry Date: Jul-15-2022
	Common Name: common lambsquarters		Stage Scale: BBCH
Pest 6 Type: W	Code: ABUTH	Abutilon theophrasti	Entry Date: Jul-15-2022
	Common Name: velvetleaf		Stage Scale: BBCH
Pest 7 Type: W	Code: IPOHE	Ipomoea hederacea	Entry Date: Jul-15-2022
	Common Name: ivy-leaf morning glory		Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT	Site Type: FIELD field
Treated Plot Length: 30 FT	Experimental Unit: 1 PLOT plot
Treated Plot Area: 200.1 FT ²	Tillage Type: CONTIL conventional-till
Replications: 3	Treatments: 8 Plots: 32
	Study Design: RACOB Randomized Complete Block (RCB)

No.	Crop	Year
1.	SOYBEAN	2021

Soil Description

Description Name: G-6	Texture: SICL silty clay loam
% Sand: 32	Soil Name: Kokomo
% Silt: 53	Fert. Level: G good
% Clay: 15	CEC: 14
pH: 5.9	
g o o d	

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Application Description

	A	B
Application Date	May-2-2022	Jun-3-2022
Appl. Start Time	5:00 PM	1:00 PM
Appl. Stop Time	5:30 PM	1:30 PM
Application Method	NONINC	SPRAY
Application Timing	PREPRE	POSPOS
Application Placement	BROSOI	BROADC
Applied By	Essman	Dobbels
Appl. Entry Date	May-3-2022	Jul-15-2022
Air Temperature Start, Stop	71, 71 F	67, 67 F
% Relative Humidity Start, Stop	34, 34	52, 52
Wind Velocity+Dir. Start	9.5 MPH, W	4 MPH, W
Wind Velocity+Dir. Stop	9 MPH, W	4 MPH, W
Wind Velocity+Dir. Max	11 MPH, W	4 MPH, W
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	62 F	65 F
Soil Moisture	DRY	DRY
Soil Surface Condition	MEDIUM	MEDIUM
% Cloud Cover	33	33
Next Moisture Occurred On	May-3-2022	Jun-6-2022
Time to Next Moisture	14.0 HR	3.0 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	2.09 IN	1.08 IN

Protocol Application Directions:

Two application per plot/Two application timings

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	ZEAMX, BCOR	ZEAMX, BCOR
Days after Emergence	-14	18
Stage Majority, Percent		15, 100
Height Average		13 IN
Height Minimum, Maximum		12, 15

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent		15, 80
Stage Minimum, Percent		13, 20
Stage Maximum, Percent		15, 80
Height Average		4 IN
Height Minimum, Maximum		3, 6
Density Average		125 PLA/M2
Density Minimum, Maximum		25, 200
Pest 2 Code, Type, Scale	SETLU, W, BBCH	SETLU, W, BBCH
Stage Majority, Percent		15, 80
Stage Minimum, Percent		13, 10
Stage Maximum, Percent		15, 80
Height Average		3 IN
Height Minimum, Maximum		2, 5
Density Average		25 PLA/M2
Density Minimum, Maximum		1, 30
Pest 3 Code, Type, Scale	ECHCG, W, BBCH	ECHCG, W, BBCH
Stage Majority, Percent		15, 80
Stage Minimum, Percent		13, 10
Stage Maximum, Percent		15, 80
Height Average		4 IN
Height Minimum, Maximum		2, 6
Density Average		30 PLA/M2
Density Minimum, Maximum		15, 45
Pest 4 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent		19, 60
Stage Minimum, Percent		14, 20
Stage Maximum, Percent		19, 60
Height Average		6 IN
Height Minimum, Maximum		4, 10
Density Average		5 PLA/M2
Density Minimum, Maximum		2, 12
Pest 5 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent		16, 80
Stage Minimum, Percent		16, 80
Stage Maximum, Percent		18, 10
Height Average		4 IN
Height Minimum, Maximum		2, 5
Density Average		12 PLA/M2
Density Minimum, Maximum		8, 14
Pest 6 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH
Stage Majority, Percent		15, 80
Stage Minimum, Percent		13, 10
Stage Maximum, Percent		15, 80
Height Average		3 IN
Height Minimum, Maximum		2, 5
Density Average		3 PLA/M2
Density Minimum, Maximum		0.33, 6
Pest 7 Code, Type, Scale	IPOHE, W, BBCH	IPOHE, W, BBCH
Stage Majority, Percent		12, 80
Stage Minimum, Percent		12, 80
Stage Maximum, Percent		13, 10
Height Average		2 IN
Height Minimum, Maximum		1, 3
Density Average		3 PLA/M2
Density Minimum, Maximum		0, 5

Application Equipment

	A	B
Appl. Equipment	6' TTI	Tractor
Equipment Type	BACCAI	SPRAYE
Operation Pressure	44 PSI	30 PSI
Nozzle Model	1110015	11003
Nozzle Type	TTI	TT
Nozzle Spacing	18 IN	20 IN
Boom Length	6.67 FT	10 FT
Boom Height	20 IN	20 FT
Ground Speed	3 MPH	3.8 MPH
Carrier	WATER	WATER
Water Hardness (ppm CaCO ₃)	250	
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	1 L	5 GAL
Spray pH	7.8	
Propellant	COMCO2	PUMROL
Tank Mix (Y/N)		Y, yes

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Pest Type						W, Weed	W, Weed
Pest Code						SETFA	ECHCG
Pest Scientific Name						Setaria faberi	Echinochloa cru>
Pest Name						Giant foxtail	common barnyard>
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn	Corn			
Rating Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022		Jun-2-2022	Jun-2-2022
Part Rated							
Rating Type	PHYSTU	PHYCHL	PHYNEC	PHYLMA	CONTRO		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		%, 0, 100
Sample Size							
Number of Subsamples	1	1	1	1	1		1
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022		Jun-2-2022
Rating Timing	B0	B0	B0	B0	B0		B0
Days After First/Last Applic.	31, 31	31, 31	31, 31	31, 31	31, 31		31, 31
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A		31 DA-A
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1		31 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	17 DE-1		17 DE-1
ARM Action Codes							
Number of Decimals	0	0	0	0	0		0

Trt Treatment No. Name	Rate	Appl Code	1*	2*	3*	4*	5*	6*
1UTC			0-	0-	0-	0-	0c	0b
2ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B		0-	0-	0-	0-	0c	15b
2STATUS HERBICIDE	2 oz/a B							
2INDUCE	0.25% v/v B							
2N PAK AMS	6% v/v B							
3ACURON HERBICIDE	3 qt/a A		0-	0-	0-	0-	98a	94a
3ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
3STATUS HERBICIDE	2 oz/a B							
3INDUCE	0.25% v/v B							
3N PAK AMS	6% v/v B							
4BICEP II MAGNUM	2.1 qt/a A		0-	0-	0-	0-	94a	94a
4ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
4STATUS HERBICIDE	2 oz/a B							
4INDUCE	0.25% v/v B							
4N PAK AMS	6% v/v B							
5RESICORE	88 fl oz/a A		0-	0-	0-	0-	100a	100a
5ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
5STATUS HERBICIDE	2 oz/a B							
5INDUCE	0.25% v/v B							
5N PAK AMS	6% v/v B							
6V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		0-	0-	0-	0-	78b	78a
6ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
6STATUS HERBICIDE	2 oz/a B							
6INDUCE	0.25% v/v B							
6N PAK AMS	6% v/v B							
7V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		0-	0-	0-	0-	91a	91a
7AATREX	0.75 lb ai/a A							
7ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
7STATUS HERBICIDE	2 oz/a B							
7INDUCE	0.25% v/v B							
7N PAK AMS	6% v/v B							

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. 4=3.7
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 Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.
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Pest Type					W, Weed	W, Weed		
Pest Code					SETFA	ECHCG		
Pest Scientific Name					Setaria faberi	Echinochloa cru>		
Pest Name					Giant foxtail	common barnyard>		
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn				
Rating Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022		
Part Rated								
Rating Type	PHYSTU	PHYCHL	PHYNEC	PHYLMA	CONTRO			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Sample Size								
Number of Subsamples	1	1	1	1	1	1		
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022		
Rating Timing	B0	B0	B0	B0	B0	B0		
Days After First/Last Applic.	31, 31	31, 31	31, 31	31, 31	31, 31	31, 31		
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A		
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	17 DE-1	17 DE-1		
ARM Action Codes								
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*	6*
No. Name	Rate Unit	Code						
8 TRIVOLT SC	0.6lb ai/aA		0-	0-	0-	0-	86ab	86a
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/aB							
8 STATUS HERBICIDE	2oz/a B							
8 INDUCE	0.25% v/v B							
8N PAK AMS	6% v/v B							
LSD P=.05			10.6	20.1
Standard Deviation			0.0	0.0	0.0	0.0	7.2	13.7
CV			0.0	0.0	0.0	0.0	10.52	19.64
Grand Mean			0.0	0.0	0.0	0.0	68.2	69.6
Levene's F^			1.055	0.629
Levene's Prob(F)			0.421	0.727
Rank X2		
P(Rank X2)		
Skewness^			-0.8468*	1.1286*
Kurtosis^			2.5389*	4.9836*
Replicate F			0.000	0.000	0.000	0.000	0.836	0.412
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	0.4893	0.7462
Treatment F			0.000	0.000	0.000	0.000	141.316	32.703
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

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Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	
Pest Code	AMBTR	CHEAL	ABUTH	IPOHE	
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Abutilon theoph>	Ipomoea hederac>	
Pest Name	Giant ragweed	common lambsqua>	velvetleaf	ivy-leaf mornin>	
Crop Type, Code					C, ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-17-2022
Part Rated					PLANT, C
Rating Type					PHYSTU
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size					2 ROW
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-24-2022
Rating Timing	B0	B0	B0	B0	B0
Days After First/Last Applic.	31, 31	31, 31	31, 31	31, 31	46, 14
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A	14 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	46 DP-1
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	32 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Code	7*	8*	9*	10*	11*
	RateUnit						
1UTC			0c	0b	0b	0b	5-
2ROUNDUP POWER MAX 3(SALT)	1 lb ai/a	B	15bc	25b	25b	13b	5-
2STATUS HERBICIDE	2 oz/a	B					
2INDUCE	0.25 % v/v	B					
2N PAK AMS	6 % v/v	B					
3ACURON HERBICIDE	3 qt/a	A	68a	100a	100a	60a	1-
3ROUNDUP POWER MAX 3(SALT)	1 lb ai/a	B					
3STATUS HERBICIDE	2 oz/a	B					
3INDUCE	0.25 % v/v	B					
3N PAK AMS	6 % v/v	B					
4BICEP II MAGNUM	2.1 qt/a	A	20bc	100a	88a	70a	1-
4ROUNDUP POWER MAX 3(SALT)	1 lb ai/a	B					
4STATUS HERBICIDE	2 oz/a	B					
4INDUCE	0.25 % v/v	B					
4N PAK AMS	6 % v/v	B					
5RESICORE	88 fl oz/a	A	47ab	100a	100a	76a	1-
5ROUNDUP POWER MAX 3(SALT)	1 lb ai/a	B					
5STATUS HERBICIDE	2 oz/a	B					
5INDUCE	0.25 % v/v	B					
5N PAK AMS	6 % v/v	B					
6V-10494 2.04 LBAI/GAL SC 2162	1 qt/a	A	50ab	100a	100a	63a	0-
6ROUNDUP POWER MAX 3(SALT)	1 lb ai/a	B					
6STATUS HERBICIDE	2 oz/a	B					
6INDUCE	0.25 % v/v	B					
6N PAK AMS	6 % v/v	B					
7V-10494 2.04 LBAI/GAL SC 2162	1 qt/a	A	58ab	100a	100a	80a	0-
7AATREX	0.75 lb ai/a	A					
7ROUNDUP POWER MAX 3(SALT)	1 lb ai/a	B					
7STATUS HERBICIDE	2 oz/a	B					
7INDUCE	0.25 % v/v	B					
7N PAK AMS	6 % v/v	B					

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Pest Code	AMBTR	CHEAL	ABUTH	IPOHE			
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Abutilon theoph>	Ipomoea hederac>			
Pest Name	Giant ragweed	common lambsqua>	velvetleaf	ivy-leaf mornin>			
Crop Type, Code					C, ZEAMX		
BBCH Scale					BCOR		
Crop Scientific Name					Zea mays		
Crop Name					Corn		
Rating Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-17-2022		
Part Rated					PLANT, C		
Rating Type					PHYSTU		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Sample Size					2 ROW		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-2-2022	Jun-24-2022		
Rating Timing	B0	B0	B0	B0			
Days After First/Last Applic.	31, 31	31, 31	31, 31	31, 31	46, 14		
Trt-Eval Interval	31 DA-A	31 DA-A	31 DA-A	31 DA-A	14 DA-B		
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	46 DP-1		
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	32 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0	0		
Trt Treatment							
No. Name	Rate	Appl	7*	8*	9*	10*	11*
	Unit	Code					
8 TRIVOLT SC	0.6lb ai/a	A	65a	100a	100a	74a	0-
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/a	B					
8 STATUS HERBICIDE	2oz/a	B					
8 INDUCE	0.25% v/v	B					
8N PAK AMS	6% v/v	B					
LSD P=.05			29.8	26.0	26.7	31.6	3.3
Standard Deviation			20.2	17.7	18.2	21.5	2.2
CV			50.38	22.63	23.71	39.51	133.66
Grand Mean			40.2	78.1	76.7	54.4	1.7
Levene's F^			1.576	0.643	0.746	0.857	2.839
Levene's Prob(F)			0.19	0.716	0.636	0.553	0.026*
Rank X2		
P(Rank X2)		
Skewness^			0.5068	2.7492*	2.5058*	0.377	0.1649
Kurtosis^			0.0637	13.5402*	11.6347*	-0.3829	1.3227
Replicate F			1.243	1.000	1.050	0.187	1.282
Replicate Prob(F)			0.3193	0.4123	0.3910	0.9043	0.3065
Treatment F			6.209	21.571	19.730	8.129	3.833
Treatment Prob(F)			0.0005	0.0001	0.0001	0.0001	0.0078

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Pest Type		W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		SETFA	SETPU	ECHCG	AMBTR
Pest Scientific Name		Setaria faberi	Setaria helvola	Echinochloa cru>	Ambrosia trifida
Pest Name		Giant foxtail	yellow foxtail	common barnyard>	Giant ragweed
Crop Type, Code	C, ZEAMX	C, ZEAMX			
BBCH Scale	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays			
Crop Name	Corn	Corn			
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022
Part Rated	PLANT, C	PLANT, C			
Rating Type	PHYCHL	PHYNEC	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size	2 ROW	2 ROW			
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Rating Timing					
Days After First/Last Applic.	46, 14	46, 14	46, 14	46, 14	46, 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Code	12*	13*	14*	15*	16*	17*
1 UTC			2-	0-	100-	100-	94-	75-
2 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B		3-	0-	100-	100-	95-	73-
2 STATUS HERBICIDE	2 oz/a B							
2 INDUCE	0.25 % v/v B							
2 N PAK AMS	6 % v/v B							
3 ACURON HERBICIDE	3 qt/a A		0-	0-	100-	100-	100-	76-
3 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
3 STATUS HERBICIDE	2 oz/a B							
3 INDUCE	0.25 % v/v B							
3 N PAK AMS	6 % v/v B							
4 BICEP II MAGNUM	2.1 qt/a A		0-	0-	100-	100-	99-	70-
4 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
4 STATUS HERBICIDE	2 oz/a B							
4 INDUCE	0.25 % v/v B							
4 N PAK AMS	6 % v/v B							
5 RESICORE	88 fl oz/a A		0-	0-	100-	100-	90-	66-
5 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
5 STATUS HERBICIDE	2 oz/a B							
5 INDUCE	0.25 % v/v B							
5 N PAK AMS	6 % v/v B							
6 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		0-	0-	100-	100-	95-	68-
6 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
6 STATUS HERBICIDE	2 oz/a B							
6 INDUCE	0.25 % v/v B							
6 N PAK AMS	6 % v/v B							
7 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		0-	0-	100-	100-	99-	66-
7 AATREX	0.75 lb ai/a A							
7 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B							
7 STATUS HERBICIDE	2 oz/a B							
7 INDUCE	0.25 % v/v B							
7 N PAK AMS	6 % v/v B							

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. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type		W, Weed	W, Weed	W, Weed	W, Weed
Pest Code		SETFA	SETPU	ECHCG	AMBTR
Pest Scientific Name		Setaria faberi	Setaria helvola	Echinochloa cru	Ambrosia trifida
Pest Name		Giant foxtail	yellow foxtail	common barnyard>	Giant ragweed
Crop Type, Code	C, ZEAMX	C, ZEAMX			
BBCH Scale	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays			
Crop Name	Corn	Corn			
Rating Date	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022	Jun-17-2022
Part Rated	PLANT, C	PLANT, C			
Rating Type	PHYCHL	PHYNEC	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100
Sample Size	2 ROW	2 ROW			
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022	Jun-24-2022
Rating Timing					
Days After First/Last Applic.	46, 14	46, 14	46, 14	46, 14	46, 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment		12*	13*	14*	15*
No. Name	Rate Appl Rate Unit Code				
8 TRIVOLT SC	0.6lb ai/aA	0-	0-	100-	100-
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/aB				93-
8 STATUS HERBICIDE	2oz/a B				70-
8 INDUCE	0.25% v/v B				
8 N PAK AMS	6% v/v B				
LSD P=.05	1.8				7.3
Standard Deviation	1.3	0.0	0.0	0.0	4.9
CV	223.28	0.0	0.0	0.0	5.19
Grand Mean	0.6	0.0	100.0	100.0	95.3
Levene's F^	4.027	.	.	.	1.429
Levene's Prob(F)	0.005*	.	.	.	0.24
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	0.4527	.	.	.	0.3206
Kurtosis^	1.009	.	.	.	-0.1966
Replicate F	1.558	0.000	0.000	0.000	0.750
Replicate Prob(F)	0.2291	1.0000	1.0000	1.0000	0.5345
Treatment F	2.479	0.000	0.000	0.000	1.844
Treatment Prob(F)	0.0506	1.0000	1.0000	1.0000	0.1313

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. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 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	IPOHE	SETFA	SETPU	ECHCG
Pest Scientific Name	Chenopodium alb>	Ipomoea hederac>	Setaria faberi	Setaria helvola	Echinochloa cru>
Pest Name	common lambsqua>	ivy-leaf mornin>	Giant foxtail	yellow foxtail	common barnyard>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-17-2022	Jun-17-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022
Part Rated	-, P	-, 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-15-2022	Jun-24-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022
Rating Timing					
Days After First/Last Applic.	46, 14	46, 14	60, 28	60, 28	60, 28
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	46 DP-1	46 DP-1	60 DP-1	60 DP-1	60 DP-1
Days After Emergence	32 DE-1	32 DE-1	46 DE-1	46 DE-1	46 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Code	18*	19*	20*	21*	22*
1UTC			98-	93ab	100-	99ab	85-
2ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B		99-	98a	100-	93b	84-
2STATUS HERBICIDE	2 oz/a B						
2INDUCE	0.25% v/v B						
2N PAK AMS	6% v/v B						
3ACURON HERBICIDE	3 qt/a A		100-	91ab	100-	99ab	98-
3ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
3STATUS HERBICIDE	2 oz/a B						
3INDUCE	0.25% v/v B						
3N PAK AMS	6% v/v B						
4BICEP II MAGNUM	2.1 qt/a A		100-	90ab	100-	100a	98-
4ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
4STATUS HERBICIDE	2 oz/a B						
4INDUCE	0.25% v/v B						
4N PAK AMS	6% v/v B						
5RESICORE	88 fl oz/a A		100-	88ab	100-	96ab	90-
5ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
5STATUS HERBICIDE	2 oz/a B						
5INDUCE	0.25% v/v B						
5N PAK AMS	6% v/v B						
6V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		100-	84b	100-	100a	90-
6ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
6STATUS HERBICIDE	2 oz/a B						
6INDUCE	0.25% v/v B						
6N PAK AMS	6% v/v B						
7V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		100-	98a	100-	100a	96-
7AATREX	0.75 lb ai/a A						
7ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
7STATUS HERBICIDE	2 oz/a B						
7INDUCE	0.25% v/v B						
7N PAK AMS	6% v/v B						

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. 4=3.7
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 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	IPOHE	SETFA	SETPU	ECHCG	
Pest Scientific Name	Chenopodium alb>	Ipomoea hederac>	Setaria faberi	Setaria helvola	Echinochloa cru>	
Pest Name	common lambsqua>	ivy-leaf mornin>	Giant foxtail	yellow foxtail	common barnyard>	
Crop Type, Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	Jun-17-2022	Jun-17-2022	Jul-1-2022	Jul-1-2022	Jul-1-2022	
Part Rated	-, P	-, 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-15-2022	Jun-24-2022	Jul-8-2022	Jul-8-2022	Jul-8-2022	
Rating Timing						
Days After First/Last Applic.	46, 14	46, 14	60, 28	60, 28	60, 28	
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B	
Plant-Eval Interval	46 DP-1	46 DP-1	60 DP-1	60 DP-1	60 DP-1	
Days After Emergence	32 DE-1	32 DE-1	46 DE-1	46 DE-1	46 DE-1	
ARM Action Codes						
Number of Decimals	0	0	0	0	0	
Trt Treatment	Rate Appl	18*	19*	20*	21*	22*
No. Name	Rate Unit Code					
8 TRIVOLT SC	0.6lb ai/aA	100-	84b	100-	99ab	94-
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/aB					
8 STATUS HERBICIDE	2oz/a B					
8 INDUCE	0.25% v/v B					
8 N PAK AMS	6% v/v B					
LSD P=.05	3.0	7.2	.	4.6	8.6	
Standard Deviation	2.0	4.9	0.0	3.1	5.8	
CV	2.02	5.38	0.0	3.19	6.34	
Grand Mean	99.5	90.5	100.0	98.1	91.7	
Levene's F^	0.672	1.267	.	14.286	0.461	
Levene's Prob(F)	0.694	0.308	.	0.00*	0.853	
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness^	-2.2916*	0.507	.	0.0	0.1025	
Kurtosis^	8.6672*	2.0598*	.	1.6812*	-0.8984	
Replicate F	0.706	1.527	0.000	3.182	0.947	
Replicate Prob(F)	0.5589	0.2367	1.0000	0.0451	0.4357	
Treatment F	0.853	4.893	0.000	2.727	3.482	
Treatment Prob(F)	0.5575	0.0021	1.0000	0.0353	0.0123	

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. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 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	IPHOE	CHEAL	SETFA	SETPU
Pest Scientific Name	Ambrosia trifida	Ipomoea hederac>	Chenopodium alb>	Setaria faberi	Setaria helvola
Pest Name	Giant ragweed	ivy-leaf mornin>	common lambsqua>	Giant foxtail	yellow foxtail
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-13-2022	Jul-13-2022
Part Rated	-, P	-, P	-, 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-8-2022	Jul-15-2022	Jul-8-2022	Jul-15-2022	Jul-15-2022
Rating Timing					
Days After First/Last Applic.	60, 28	60, 28	60, 28	72, 40	72, 40
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	40 DA-B	40 DA-B
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	72 DP-1	72 DP-1
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	58 DE-1	58 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Code	23*	24*	25*	26*	27*
1 UTC			78-	88-	98a	95-	99ab
2 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B		73-	89-	91b	90-	93b
2 STATUS HERBICIDE	2 oz/a B						
2 INDUCE	0.25% v/v B						
2 N PAK AMS	6% v/v B						
3 ACURON HERBICIDE	3 qt/a A		86-	93-	100a	100-	99ab
3 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
3 STATUS HERBICIDE	2 oz/a B						
3 INDUCE	0.25% v/v B						
3 N PAK AMS	6% v/v B						
4 BICEP II MAGNUM	2.1 qt/a A		73-	86-	96ab	96-	100a
4 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
4 STATUS HERBICIDE	2 oz/a B						
4 INDUCE	0.25% v/v B						
4 N PAK AMS	6% v/v B						
5 RESICORE	88 fl oz/a A		68-	83-	100a	100-	96ab
5 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
5 STATUS HERBICIDE	2 oz/a B						
5 INDUCE	0.25% v/v B						
5 N PAK AMS	6% v/v B						
6 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		70-	84-	100a	100-	100a
6 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
6 STATUS HERBICIDE	2 oz/a B						
6 INDUCE	0.25% v/v B						
6 N PAK AMS	6% v/v B						
7 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		65-	84-	100a	100-	100a
7 AATREX	0.75 lb ai/a A						
7 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
7 STATUS HERBICIDE	2 oz/a B						
7 INDUCE	0.25% v/v B						
7 N PAK AMS	6% v/v B						

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. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 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	IPHOE	CHEAL	SETFA	SETPU	
Pest Scientific Name	Ambrosia trifida	Ipomoea hederac>	Chenopodium alb>	Setaria faberi	Setaria helvola	
Pest Name	Giant ragweed	ivy-leaf mornin>	common lambsqua>	Giant foxtail	yellow foxtail	
Crop Type, Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	Jul-1-2022	Jul-1-2022	Jul-1-2022	Jul-13-2022	Jul-13-2022	
Part Rated	-, P	-, P	-, 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-8-2022	Jul-15-2022	Jul-8-2022	Jul-15-2022	Jul-15-2022	
Rating Timing						
Days After First/Last Applic.	60, 28	60, 28	60, 28	72, 40	72, 40	
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	40 DA-B	40 DA-B	
Plant-Eval Interval	60 DP-1	60 DP-1	60 DP-1	72 DP-1	72 DP-1	
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	58 DE-1	58 DE-1	
ARM Action Codes						
Number of Decimals	0	0	0	0	0	
Trt Treatment						
No. Name	Rate Appl	23*	24*	25*	26*	27*
	Rate Unit Code					
8 TRIVOLT SC	0.6lb ai/aA	71-	83-	100a	100-	99ab
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/aB					
8 STATUS HERBICIDE	2oz/a B					
8 INDUCE	0.25% v/v B					
8 N PAK AMS	6% v/v B					
LSD P=.05		12.5	8.6	5.1	8.3	4.6
Standard Deviation		8.5	5.8	3.5	5.6	3.1
CV		11.64	6.79	3.56	5.76	3.19
Grand Mean		72.8	85.9	98.1	97.6	98.1
Levene's F^		1.414	1.726	2.80	1.046	14.286
Levene's Prob(F)		0.245	0.15	0.028*	0.427	0.00*
Rank X2	
P(Rank X2)	
Skewness^		-0.1211	-0.1491	-0.4072	-0.4459	0.0
Kurtosis^		-0.8522	-0.1893	0.8482	-0.0801	1.6812*
Replicate F		1.522	1.070	1.537	2.962	3.182
Replicate Prob(F)		0.2381	0.3831	0.2344	0.0556	0.0451
Treatment F		2.404	1.454	3.220	1.770	2.727
Treatment Prob(F)		0.0566	0.2370	0.0176	0.1469	0.0353

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. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID: 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	ECHCG	AMBTR	IPHOE	CHEAL	
Pest Scientific Name	Echinochloa cru>	Ambrosia trifida	Ipomoea hederac>	Chenopodium alb>	
Pest Name	common barnyard>	Giant ragweed	ivy-leaf mornin>	common lambsqua>	
Crop Type, Code					C, ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date	Jul-13-2022	Jul-13-2022	Jul-13-2022	Jul-13-2022	Oct-11-2022
Part Rated		-, P	-, P	-, P	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	WEIGHT
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	LBS, -, -
Sample Size					1 PLOT
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-15-2022	Jul-15-2022	Jul-15-2022	Jul-15-2022	Oct-13-2022
Rating Timing					
Days After First/Last Applic.	72, 40	72, 40	72, 40	72, 40	162, 130
Trt-Eval Interval	40 DA-B	40 DA-B	40 DA-B	40 DA-B	
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	162 DP-1
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1	148 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	

Trt Treatment No. Name	Rate	Appl Code	28*	29*	30*	31*	32*
1 UTC			85-	78b	86-	98-	48.270-
2 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B		84-	78b	90-	91-	49.828-
2 STATUS HERBICIDE	2 oz/a B						
2 INDUCE	0.25 % v/v B						
2 N PAK AMS	6 % v/v B						
3 ACURON HERBICIDE	3 qt/a A		95-	93a	91-	100-	51.863-
3 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
3 STATUS HERBICIDE	2 oz/a B						
3 INDUCE	0.25 % v/v B						
3 N PAK AMS	6 % v/v B						
4 BICEP II MAGNUM	2.1 qt/a A		94-	76b	86-	96-	52.303-
4 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
4 STATUS HERBICIDE	2 oz/a B						
4 INDUCE	0.25 % v/v B						
4 N PAK AMS	6 % v/v B						
5 RESICORE	88 fl oz/a A		91-	74b	83-	100-	50.920-
5 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
5 STATUS HERBICIDE	2 oz/a B						
5 INDUCE	0.25 % v/v B						
5 N PAK AMS	6 % v/v B						
6 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		90-	73b	85-	99-	50.423-
6 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
6 STATUS HERBICIDE	2 oz/a B						
6 INDUCE	0.25 % v/v B						
6 N PAK AMS	6 % v/v B						
7 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		96-	74b	85-	100-	49.820-
7 AATREX	0.75 lb ai/a A						
7 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B						
7 STATUS HERBICIDE	2 oz/a B						
7 INDUCE	0.25 % v/v B						
7 N PAK AMS	6 % v/v B						

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. 4=3.7
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.
 ^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed			
Pest Code	ECHCG	AMBTR	IPHOE	CHEAL			
Pest Scientific Name	Echinochloa cru>	Ambrosia trifida	Ipomoea hederac>	Chenopodium alb>			
Pest Name	common barnyard>	Giant ragweed	ivy-leaf mornin>	common lambsqua>			
Crop Type, Code					C, ZEAMX		
BBCH Scale					BCOR		
Crop Scientific Name					Zea mays		
Crop Name					Corn		
Rating Date	Jul-13-2022	Jul-13-2022	Jul-13-2022	Jul-13-2022	Oct-11-2022		
Part Rated		-, P	-, P	-, P			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	WEIGHT		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	LBS, -, -		
Sample Size					1 PLOT		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jul-15-2022	Jul-15-2022	Jul-15-2022	Jul-15-2022	Oct-13-2022		
Rating Timing							
Days After First/Last Applic.	72, 40	72, 40	72, 40	72, 40	162, 130		
Trt-Eval Interval	40 DA-B	40 DA-B	40 DA-B	40 DA-B			
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	162 DP-1		
Days After Emergence	58 DE-1	58 DE-1	58 DE-1	58 DE-1	148 DE-1		
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment							
No. Name	Rate	Appl	28*	29*	30*	31*	32*
	Rate	Unit					
	Code						
8 TRIVOLT SC	0.6lb ai/a	A	94-	76b	84-	100-	52.265-
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/a	B					
8 STATUS HERBICIDE	2oz/a	B					
8 INDUCE	0.25% v/v	B					
8 N PAK AMS	6% v/v	B					
LSD P=.05	8.1		11.2	7.8	5.5	2.8169	
Standard Deviation	5.5		7.6	5.3	3.7	1.9156	
CV	6.07		9.83	6.17	3.8	3.78	
Grand Mean	91.1		77.5	86.3	98.0	50.7113	
Levene's F^	0.261		0.772	1.039	2.288	1.044	
Levene's Prob(F)	0.963		0.616	0.431	0.062	0.428	
Rank X2	
P(Rank X2)	
Skewness^	0.3058		0.0883	0.2309	-0.4564	-0.4768	
Kurtosis^	-0.9536		-0.611	-0.0792	0.7093	-0.7094	
Replicate F	2.208		1.759	1.842	0.957	10.776	
Replicate Prob(F)	0.1171		0.1858	0.1705	0.4312	0.0002	
Treatment F	2.773		2.769	1.263	2.694	2.170	
Treatment Prob(F)	0.0330		0.0332	0.3149	0.0370	0.0802	

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 Due to missing data, the effective replicates used for mean comparisons are: col. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

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The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Oct-11-2022	Oct-11-2022	Oct-11-2022
Part Rated			
Rating Type	MOICON	YIELD	WEITES
Rating Unit/Min/Max	%, 0, 100	BU, -, -	LBS, -, -
Sample Size	1 QT	1 A	1 QT
Number of Subsamples	1	1	1
Data Entry Date	Oct-13-2022		Oct-13-2022
Rating Timing			
Days After First/Last Applic.	162, 130	162, 130	162, 130
Trt-Eval Interval			
Plant-Eval Interval	162 DP-1	162 DP-1	162 DP-1
Days After Emergence	148 DE-1	148 DE-1	148 DE-1
ARM Action Codes		TY1	
Number of Decimals		1	

Trt Treatment No. Name	Rate	Appl Code	33*	34*	35*
1 UTC			17.95 ab	243.0-	55.93-
2 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B		18.78 a	248.4-	56.28-
2 STATUS HERBICIDE	2 oz/a B				
2 INDUCE	0.25 % v/v B				
2 N PAK AMS	6 % v/v B				
3 ACURON HERBICIDE	3 qt/a A		17.68 b	261.9-	57.60-
3 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B				
3 STATUS HERBICIDE	2 oz/a B				
3 INDUCE	0.25 % v/v B				
3 N PAK AMS	6 % v/v B				
4 BICEP II MAGNUM	2.1 qt/a A		17.53 b	264.6-	56.05-
4 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B				
4 STATUS HERBICIDE	2 oz/a B				
4 INDUCE	0.25 % v/v B				
4 N PAK AMS	6 % v/v B				
5 RESICORE	88 fl oz/a A		17.55 b	257.6-	57.33-
5 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B				
5 STATUS HERBICIDE	2 oz/a B				
5 INDUCE	0.25 % v/v B				
5 N PAK AMS	6 % v/v B				
6 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		17.40 b	255.6-	56.80-
6 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B				
6 STATUS HERBICIDE	2 oz/a B				
6 INDUCE	0.25 % v/v B				
6 N PAK AMS	6 % v/v B				
7 V-10494 2.04 LBAI/GAL SC 2162	1 qt/a A		17.45 b	252.4-	56.83-
7 AATREX	0.75 lb ai/a A				
7 ROUNDUP POWER MAX 3(SALT)	1 lb ai/a B				
7 STATUS HERBICIDE	2 oz/a B				
7 INDUCE	0.25 % v/v B				
7 N PAK AMS	6 % v/v B				

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. 4=3.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,4,13,14,15,20 because error mean square = 0.

^Calculated from residual.

The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 Study Director: Sponsor Contact:
 Investigator (Creator): Dr. Mark M. Loux

Pest Type	C, ZEAMX	C, ZEAMX	C, ZEAMX		
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Oct-11-2022	Oct-11-2022	Oct-11-2022		
Part Rated					
Rating Type	MOICON	YIELD	WEITES		
Rating Unit/Min/Max	%, 0, 100	BU, -, -	LBS, -, -		
Sample Size	1 QT	1 A	1 QT		
Number of Subsamples	1	1	1		
Data Entry Date	Oct-13-2022		Oct-13-2022		
Rating Timing					
Days After First/Last Applic.	162, 130	162, 130	162, 130		
Trt-Eval Interval					
Plant-Eval Interval	162 DP-1	162 DP-1	162 DP-1		
Days After Emergence	148 DE-1	148 DE-1	148 DE-1		
ARM Action Codes		TY1			
Number of Decimals		1			
Trt Treatment	Rate	Appl	33*	34*	35*
No. Name	Rate Unit	Code			
8 TRIVOLT SC	0.6lb ai/aA		17.40b	265.0-	56.93-
8 ROUNDUP POWER MAX 3(SALT)	1lb ai/aB				
8 STATUS HERBICIDE	2oz/a B				
8 INDUCE	0.25% v/v B				
8 N PAK AMS	6% v/v B				
LSD P=.05	0.849	13.99	1.086		
Standard Deviation	0.577	9.51	0.738		
CV	3.26	3.71	1.3		
Grand Mean	17.716	256.08	56.716		
Levene's F^	0.908	1.02	3.342		
Levene's Prob(F)	0.517	0.443	0.012*		
Rank X2	.	.	.		
P(Rank X2)	.	.	.		
Skewness^	-0.6741	-0.5584	-0.1689		
Kurtosis^	0.1086	-0.4217	-0.3074		
Replicate F	1.811	10.699	2.777		
Replicate Prob(F)	0.1761	0.0002	0.0665		
Treatment F	2.592	2.727	2.599		
Treatment Prob(F)	0.0429	0.0353	0.0425		

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The Ohio State University

Primary/Core PRE soil residual trial

Trial ID: 22MAVYLD
 Protocol ID: VUSA2022V10494MD68.01 Location: Western Branch G-6 Cooperator Trial ID:
 Project ID: 201510 Project ID 2: Project ID 3: Trial Year: 2022
 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
 ECHCG, Echinochloa crus-galli, common barnyardgrass = US
 AMBTR, Ambrosia trifida, Giant ragweed = US
 CHEAL, Chenopodium album, common lambsquarters = US
 ABUTH, Abutilon theophrasti, velvetleaf = US
 IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US
 SETPU, Setaria helvola, yellow foxtail = US

Crop Type Code

C = EPPO species (Bayer) codes
 ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLANT = plant
 C = Crop is Part Rated
 P = Pest is Part Rated

Rating Type

PHYSTU = phytotoxicity - stunting
 PHYCHL = phytotoxicity - chlorosis
 PHYNEC = phytotoxicity - necrosis /burn
 PHYLMA = phytotoxicity - leaf malformation
 CONTRO = control / burndown or knockdown
 WEIGHT = weight
 MOICON = moisture content
 YIELD = yield

WEITES = weight - test

Rating Unit/Min/Max

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

ROW = row

PLOT = total plot

QT = quart

A = acre

Rating Timing

B0 = Before 2nd Application

Plant-Eval Interval

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

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

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

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

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

ARM Action Codes

TY1 = $5.18571429 * [32] * (100 - [33]) / 84.5$