

The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Discipline: H herbicide
Trial Status: E established
ARM Trial Created On: Mar-30-2021
Initiation Date: Apr-27-2021

Trial Location

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

Latitude of LL Corner °: 39.85708 N
Longitude of LL Corner °: -83.67012 W
Altitude of LL Corner: 1099.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Crop Description

Crop 1: C ZEAMX Zea mays Corn
Entry Date: May-3-2021 **Stage Scale:** BBCH
Variety: SC1111Q
Attributes: Glyphosate-R, Glufosinate-R
Planting Date: Apr-27-2021 **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: 63 F **Soil Moisture:** SLIDRY slightly dry
Emergence Date: May-14-2021

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi* **Entry Date:** Jun-7-2021
Common Name: Giant foxtail **Stage Scale:** BBCH

Pest 2 Type: W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** Jun-7-2021
Common Name: Giant ragweed **Stage Scale:** BBCH

Pest 3 Type: W **Code:** CHEAL *Chenopodium album* **Entry Date:** Jun-7-2021
Common Name: common lambsquarters **Stage Scale:** BBCH

Pest 4 Type: W **Code:** AMARE *Amaranthus retroflexus* **Entry Date:** Jun-7-2021
Common Name: Redroot pigweed **Stage Scale:** BBCH

Pest 5 Type: W **Code:** ABUTH *Abutilon theophrasti* **Entry Date:** Jun-7-2021
Common Name: velvetleaf **Stage Scale:** BBCH

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300.0 FT2 **Treatments:** 8 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2020

Soil Description

Description Name: Big E
% Sand: 44 **% OM:** 3.1 **Texture:** SICL silty clay loam
% Silt: 45 **pH:** 6.6 **Soil Name:** Kokomo
% Clay: 11 **CEC:** 15 **Fert. Level:** G good
 g o o d

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Application Description

	A		B	
Application Date	Apr-28-2021		Jun-6-2021	
Appl. Start Time	8:00 AM		10:30 AM	
Appl. Stop Time	8:30 AM		11:00 AM	
Application Method	SPRAY		SPRAY	
Application Timing	PRE		POST	
Application Placement	BROSOI		BROFOL	
Applied By	Loux		Loux	
Appl. Entry Date	May-3-2021		Jun-7-2021	
Air Temperature Start, Stop	67.7	68.8 F	83	83 F
% Relative Humidity Start, Stop	63	70	54	53
Wind Velocity+Dir. Start	8 MPH	WSW	5 MPH	SSW
Wind Velocity+Dir. Stop	8 MPH	WSW	6 MPH	SSW
Wind Velocity+Dir. Max	9.2 MPH	WSW	6 MPH	SSW
Wet Leaves (Y/N)	N no		N no	
Soil Temperature	58	F	68	F
Soil Moisture	DRY		dry	
Soil Surface Condition	MEDIUM		MEDIUM	
% Cloud Cover	60		60	
Next Moisture Occurred On	Apr-28-2021		Jun-7-2021	
Time to Next Moisture	11.5 HR		22.0 HR	
Moisture 6 Hours after Appl.	0	IN	0	IN
Moisture 1 Week after Appl.	1.1	IN	0.48	IN

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale	ZEAMX	BCOR	ZEAMX	BCOR
Days after Emergence	-16		23	
Stage Majority, Percent	00	100	15	100
Height Average			12	IN
Height Minimum, Maximum			11	13
Stage Majority, Percent	00	100		

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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			12	90
Stage Minimum, Percent			11	10
Stage Maximum, Percent			12	90
Height Average			8	IN
Height Minimum, Maximum			6	10
Density Average			184	PLA/m2
Density Minimum, Maximum			48	320
Pest 2 Code, Type, Scale	AMBTR	W BBCH	AMBTR	W BBCH
Stage Majority, Percent			18	80
Stage Minimum, Percent			14	10
Stage Maximum, Percent			19	100
Height Average			8	IN
Height Minimum, Maximum			4	10
Density Average			20	PLA/m2
Density Minimum, Maximum			4	48
Pest 3 Code, Type, Scale	CHEAL	W BBCH	CHEAL	W BBCH
Stage Majority, Percent			16	80
Stage Minimum, Percent			14	10
Stage Maximum, Percent			19	10
Height Average			3	IN
Height Minimum, Maximum			2	4
Density Average			16	PLA/m2
Density Minimum, Maximum			8	24
Pest 4 Code, Type, Scale	AMARE	W BBCH	AMARE	W BBCH
Stage Majority, Percent			13	80
Stage Minimum, Percent			12	10
Stage Maximum, Percent			14	10
Height Average			2	IN
Height Minimum, Maximum			1	3
Density Average			3	PLA/m2
Density Minimum, Maximum			0	5
Pest 5 Code, Type, Scale	ABUTH	W BBCH	ABUTH	W BBCH
Stage Majority, Percent			13	90
Stage Minimum, Percent			12	10
Stage Maximum, Percent			13	90
Height Average			3	IN
Height Minimum, Maximum			2	3
Density Average			2	PLA/m2
Density Minimum, Maximum			0	3

Application Equipment

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

Notes

Context	Date	By	Notes
STATUS	Mar-30-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.

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Pest Type				W Weed	W Weed	W Weed					
Pest Code				SETFA	ECHCG	AMBTR					
Pest Name				Giant foxtail	Common barnyard>	Giant ragweed					
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX								
Crop Name	Corn										
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021					
Rating Type	PHYSTU	PHYCHL	PHYNEC	CONTRO	CONTRO	CONTROL					
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	0 100	% 0 100	% 0 100					
Number of Subsamples	1	1	1	1	1	1					
Data Entry Date	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021					
Days After First/Last Applic.	37 37	37 37	37 37	37 37	37 37	37 37					
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B					
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1					
Number of Decimals	0	0	0	0	0	0					
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Code	1*	2*	3*	4*	5*	6*
1	UTC					0 -	0 -	0 -	0 d	0 d	0
2	Restraint	36 oz/a		A		0 -	0 -	0 -	90 ab	90 ab	45 ab
	Atrazine	1 qt/a		A							
	Shieldex	1 oz/a		B							
	Atrazine	1 qt/a		B							
	COC	1 % v/v		B							
3	Restraint	18 oz/a		A		0 -	0 -	0 -	79 bc	79 bc	33 b
	Atrazine	1 qt/a		A							
	Restraint	18 oz/a		B							
	Atrazine	1 qt/a		B							
	COC	1 % v/v		B							
4	Resicore	40 oz/a		A		0 -	0 -	0 -	74 c	74 c	45 ab
	Atrazine	1 qt/a		A							
	Restraint	30 oz/a		B							
	Atrazine	1 qt/a		B							
	COC	1 % v/v		B							
5	Resicore	40 oz/a		A		0 -	0 -	0 -	80 bc	80 bc	58 ab
	Atrazine	1 qt/a		A							
	Resicore	40 oz/a		B							
	Atrazine	1 qt/a		B							
	COC	1 % v/v		B							
6	Harness Max	64 oz/a		A		0 -	0 -	0 -	93 ab	93 ab	63 a
	Atrazine	1 qt/a		A							
	Shieldex	1 oz/a		B							
	Atrazine	1 qt/a		B							
	COC	1 % v/v		B							
7	Harness Max	32 oz/a		A		0 -	0 -	0 -	88 ab	88 ab	50 ab
	Atrazine	1 qt/a		A							
	Harness Max	32 oz/a		B							
	Atrazine	1 qt/a		B							
	COC	1 % v/v		B							

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

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 4 in column 13; 4 in 14

Could not calculate LSD (% mean diff) for columns 1,2,3,8,10,11,16,17,18,19,20,25,26,27,28,29,30,34,35,36 because error mean square = 0.

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Pest Type				W Weed	W Weed	W Weed		
Pest Code				SETFA	ECHCG	AMBTR		
Pest Name				Giant foxtail	Common	Giant ragweed		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	barnyard>				
Crop Name	Corn	Corn	Corn					
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021		
Rating Type	PHYSTU	PHYCHL	PHYNEC	CONTRO	CONTRO	CONTROL		
Rating Unit/Min/Max	% 0	% 0	% 0 %	0 100	% 0 100	% 0		
	100	100	100			100		
Number of Subsamples	1	1	1	1	1	1		
Data Entry Date	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-7-2021		
Days After First/Last Applic.	37 37	37 37	37 37	37 37	37 37	37 37		
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B		
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	1*	2*	3*	4*	5*	6*		
No. Name	Rate	Rate	Unit	Code				
8 Harness	33 oz/a	A	0 -	0 -	0 -	99 a	99 a	60 a
Callisto	3 oz/a	A						
Atrazine	1 qt/a	A						
Shieldex	1 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
LSD P=.05	.	.	.	9.6	9.6	17.7		
Standard Deviation	0.0	0.0	0.0	6.5	6.5	11.9		
CV	0.0	0.0	0.0	8.68	8.68	23.67		
Levene's F^	.	.	.	1.086	1.086	0.802		
Levene's Prob(F)	.	.	.	0.403	0.403	0.58		
Skewness^	.	.	.	0.1019	0.1019	-0.0371		
Kurtosis^	.	.	.	-0.8117	-0.8117	0.9548		
Replicate F	0.000	0.000	0.000	3.711	3.711	1.098		
Replicate Prob(F)	1.0000	1.0000	1.0000	0.0276	0.0276	0.3757		
Treatment F	0.000	0.000	0.000	92.873	92.873	3.134		
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0001	0.0278		

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Pest Type	W Weed	W Weed	W Weed						
Pest Code	CHEAL	AMARE	ABUTH						
Pest Name	common lambsqua	Redroot pigweed	velvetleaf						
Crop Type, Code				C ZEAMX	C ZEAMX	C ZEAMX			
Crop Name				Corn	Corn	Corn			
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021			
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYCHL	PHYNEC			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-15-2021	Jun-15-2021	Jun-15-2021			
Days After First/Last Applic.	37 37	37 37	37 37	47 8	47 8	47 8			
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B						
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	31 DE-1	31 DE-1	31 DE-1			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Other	Other	Appl	7*	8*	9*	10*	11*	12*
No. Name	Rate	Rate	Unit Code						
1 UTC				0 b	0 -	0 b	0 -	0 -	0 b
2 Restraint	36 oz/a		A	99 a	100 -	83 a	0 -	0 -	0 b
Atrazine	1 qt/a		A						
Shieldex	1 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
3 Restraint	18 oz/a		A	100 a	100 -	75	0 -	0 -	8 a
Atrazine	1 qt/a		A						
Restraint	18 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
4 Resicore	40 oz/a		A	100 a	100 -	93 a	0 -	0 -	9 a
Atrazine	1 qt/a		A						
Restraint	30 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
5 Resicore	40 oz/a		A	100 a	100 -	95 a	0 -	0 -	6 a
Atrazine	1 qt/a		A						
Resicore	40 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
6 Harness Max	64 oz/a		A	100 a	100 -	98 a	0 -	0 -	0 b
Atrazine	1 qt/a		A						
Shieldex	1 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
7 Harness Max	32 oz/a		A	100 a	100 -	100 a	0 -	0 -	10 a
Atrazine	1 qt/a		A						
Harness Max	32 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	CHEAL	AMARE	ABUTH					
Pest Name	common Redroot pigweed		velvetleaf					
	lambsqua>							
Crop Type, Code				C ZEAMX	C ZEAMX	C ZEAMX		
Crop Name				Corn	Corn	Corn		
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-14-2021	Jun-14-2021	Jun-14-2021		
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYCHL	PHYNEC		
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100		
Number of Subsamples	1	1	1	1	1	1		
Data Entry Date	Jun-7-2021	Jun-7-2021	Jun-7-2021	Jun-15-2021	Jun-15-2021	Jun-15-2021		
Days After First/Last Applic.	37 37	37 37	37 37	47 8	47 8	47 8		
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B					
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	31 DE-1	31 DE-1	31 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Other Other	Appl	7*	8*	9*	10*	11*	12*
No. Name	Rate Rate	Unit Code						
8 Harness	33 oz/a	A	100 a	100 -	95 a	0 -	0 -	0 b
Callisto	3 oz/a	A						
Atrazine	1 qt/a	A						
Shieldex	1 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
LSD P=.05	1.0	.			12.3	.	.	4.2
Standard Deviation	0.7	0.0			8.3	0.0	0.0	2.9
CV	0.75	0.0			10.34	0.0	0.0	70.42
Levene's F^	0.677	.			2.70	.	.	0.466
Levene's Prob(F)	0.69	.			0.042*	.	.	0.85
Skewness^	-2.1602*	.			0.2111	.	.	-0.3089
Kurtosis^	7.1251*	.			-0.1207	.	.	0.2737
Replicate F	0.663	0.000			6.672	0.000	0.000	3.691
Replicate Prob(F)	0.5839	1.0000			0.0032	1.0000	1.0000	0.0281
Treatment F	11748.201	0.000			74.517	0.000	0.000	9.764
Treatment Prob(F)	0.0001	1.0000			0.0001	1.0000	1.0000	0.0001

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Excluded replicate 4 in column 13; 4 in 14

Could not calculate LSD (% mean diff) for columns 1,2,3,8,10,11,16,17,18,19,20,25,26,27,28,29,30,34,35,36 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE	ABUTH
Pest Name	Giant foxtail	Common barnyard>	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf

Crop Type, Code	Jun-14-2021		Jun-14-2021		Jun-14-2021		Jun-14-2021		Jun-14-2021		Jun-14-2021				
Crop Name	CONTRO		CONTRO		CONTRO		CONTRO		CONTRO		CONTRO				
Rating Date	Jun-14-2021		Jun-14-2021		Jun-14-2021		Jun-14-2021		Jun-14-2021		Jun-14-2021				
Rating Type	CONTRO		CONTRO		CONTRO		CONTRO		CONTRO		CONTRO				
Rating Unit/Min/Max	%	0 100	%	0 100	%	0 100	%	0 100	%	0 100	%	0 100			
Number of Subsamples	1		1		1		1		1		1				
Data Entry Date	Jun-15-2021		Jun-15-2021		Jun-15-2021		Jun-15-2021		Jun-15-2021		Jun-15-2021				
Days After First/Last Applic.	47 8		47 8		47 8		47 8		47 8		47 8				
Trt-Eval Interval	31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1				
Days After Emergence	31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1		31 DE-1				
Number of Decimals	0		0		0		0		0		0				
Trt Treatment	Other	Other	Appl	13*		14*		15*		16*		17*		18*	
No. Name	Rate	Rate	Unit Code	dAA		dAA		dAA		dAA		dAA		dAA	

1 UTC				0 c	0 c	0 c	0 -	0 -	0 -
2 Restraint	36 oz/a		A	99 a	99 a	99 ab	100 -	100 -	100 -
Atrazine	1 qt/a		A						
Shieldex	1 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
3 Restraint	18 oz/a		A	100 a	100 a	100 a	100 -	100 -	100 -
Atrazine	1 qt/a		A						
Restraint	18 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
4 Resicore	40 oz/a		A	100 a	100 a	99 ab	100 -	100 -	100 -
Atrazine	1 qt/a		A						
Restraint	30 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
5 Resicore	40 oz/a		A	84 b	84 b	99 a	100 -	100 -	100 -
Atrazine	1 qt/a		A						
Resicore	40 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
6 Harness Max	64 oz/a		A	92 ab	92 ab	84 b	100 -	100 -	100 -
Atrazine	1 qt/a		A						
Shieldex	1 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
7 Harness Max	32 oz/a		A	86 b	86 b	83 b	100 -	100 -	100 -
Atrazine	1 qt/a		A						
Harness Max	32 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Excluded replicate 4 in column 13; 4 in 14
 Could not calculate LSD (% mean diff) for columns 1,2,3,8,10,11,16,17,18,19,20,25,26,27,28,29,30,34,35,36 because error mean square = 0.
 ^Calculated from residual.
 d=Means are reported in de-transformed data units

The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE	ABUTH			
Pest Name	Giant foxtail	Common barnyard>	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf			
Crop Type, Code	Rating Date	Rating Type	Rating Unit/Min/Max	Number of Subsamples	Data Entry Date	Days After First/Last Applic.	Trt-Eval Interval	Days After Emergence	Number of Decimals
	Jun-14-2021	CONTRO	% 0 100	1	Jun-15-2021	47 8		31 DE-1	0
	Jun-14-2021	CONTRO	% 0 100	1	Jun-15-2021	47 8		31 DE-1	0
	Jun-14-2021	CONTRO	% 0 100	1	Jun-15-2021	47 8		31 DE-1	0
	Jun-14-2021	CONTRO	% 0 100	1	Jun-15-2021	47 8		31 DE-1	0
	Jun-14-2021	CONTRO	% 0 100	1	Jun-15-2021	47 8		31 DE-1	0
	Jun-14-2021	CONTRO	% 0 100	1	Jun-15-2021	47 8		31 DE-1	0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	13*	14*	15* dAA	16*	17*	18*
8	Harness	33 oz/a		A	100 a	100 a	94 ab	100 -	100 -	100 -
	Callisto	3 oz/a		A						
	Atrazine	1 qt/a		A						
	Shieldex	1 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						
	LSD P=.05				9.1	9.1	7.1 - 12.9	.	.	.
	Standard Deviation				5.2	5.2	8.6t	0.0	0.0	0.0
	CV				6.28	6.28	12.53t	0.0	0.0	0.0
	Levene's F^				3.308	3.308	1.19	.	.	.
	Levene's Prob(F)				0.013*	0.013*	0.346	.	.	.
	Skewness^				-1.1223*	-1.1223*	0.3051	.	.	.
	Kurtosis^				5.2507*	5.2507*	0.8997	.	.	.
	Replicate F				2.007	2.007	2.171	0.000	0.000	0.000
	Replicate Prob(F)				0.1712	0.1712	0.1216	1.0000	1.0000	1.0000
	Treatment F				129.032	129.032	45.434	0.000	0.000	0.000
	Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
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 Excluded replicate 4 in column 13; 4 in 14
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 d=Means are reported in de-transformed data units

The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type				W Weed	W Weed	W Weed		
Pest Code				SETFA	ECHCG	AMBTR		
Pest Name				Giant foxtail	Common	Giant ragweed		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		barnyard>			
Crop Name	Corn	Corn	Corn					
Rating Date	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jun-23-2021		
Rating Type	PHYSTU	PHYCHL	PHYNEC	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100		
Number of Subsamples	1	1	1	1	1	1		
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021		
Days After First/Last Applic.	56 17	56 17	56 17	56 17	56 17	56 17		
Trt-Eval Interval								
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Other Other	Appl	19*	20*	21*	22*	23*	24*
No. Name	Rate	Rate Unit Code				dAA	dAA	
1 UTC			0 -	0 -	0 b	0 c	0 c	0 b
2 Restraint	36 oz/a	A	0 -	0 -	0 b	100 a	100 a	94 a
Atrazine	1 qt/a	A						
Shieldex	1 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
3 Restraint	18 oz/a	A	0 -	0 -	2 a	100 a	100 a	91 a
Atrazine	1 qt/a	A						
Restraint	18 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
4 Resicore	40 oz/a	A	0 -	0 -	2 a	100 a	100 a	89 a
Atrazine	1 qt/a	A						
Restraint	30 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
5 Resicore	40 oz/a	A	0 -	0 -	1 a	77 b	77 b	90 a
Atrazine	1 qt/a	A						
Resicore	40 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
6 Harness Max	64 oz/a	A	0 -	0 -	0 b	87 b	87 b	79 a
Atrazine	1 qt/a	A						
Shieldex	1 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
7 Harness Max	32 oz/a	A	0 -	0 -	2 a	86 b	88 b	85 a
Atrazine	1 qt/a	A						
Harness Max	32 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						

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

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Excluded replicate 4 in column 13; 4 in 14

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The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	ECHCG	AMBTR
Pest Name				Giant foxtail	Common	Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		barnyard>	
Crop Name	Corn	Corn	Corn			
Rating Date	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jun-23-2021
Rating Type	PHYSTU	PHYCHL	PHYNEC	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Number of Subsamples	1	1	1	1	1	1
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021
Days After First/Last Applic.	56 17	56 17	56 17	56 17	56 17	56 17
Trt-Eval Interval						
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	19*	20*	21*	22*	23*	24*
No. Name	Rate Rate Unit Code			dAA	dAA	
8 Harness	33 oz/a A	0 -	0 -	0 b	100 a	100 a
Callisto	3 oz/a A					84 a
Atrazine	1 qt/a A					
Shieldex	1 oz/a B					
Atrazine	1 qt/a B					
COC	1 % v/v B					
LSD P=.05			0.7	1.6 - 9.6	2.3 - 11.5	12.1
Standard Deviation	0.0	0.0	0.5	4.9t	6.0t	8.2
CV	0.0	0.0	57.29	7.07t	8.58t	10.75
Levene's F^	.	.	1.055	1.679	1.576	0.466
Levene's Prob(F)	.	.	0.421	0.162	0.19	0.85
Skewness^	.	.	-1.5947*	1.334*	1.6245*	-0.3685
Kurtosis^	.	.	4.3525*	3.6869*	5.4793*	0.0978
Replicate F	0.000	0.000	1.204	2.359	1.917	0.696
Replicate Prob(F)	1.0000	1.0000	0.3327	0.1006	0.1577	0.5648
Treatment F	0.000	0.000	14.962	153.473	103.338	57.917
Treatment Prob(F)	1.0000	1.0000	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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Excluded replicate 4 in column 13; 4 in 14

Could not calculate LSD (% mean diff) for columns 1,2,3,8,10,11,16,17,18,19,20,25,26,27,28,29,30,34,35,36 because error mean square = 0.

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The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	C ZEAMX	C ZEAMX	C ZEAMX				
Pest Code	CHEAL	AMARE	ABUTH	Corn	Corn	Corn				
Pest Name	common lambsqua	Redroot pigweed	velvetleaf							
Crop Type, Code				PHYSTU	PHYCHL	PHYNEC				
Crop Name										
Rating Date	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021				
Rating Type	CONTRO	CONTRO	CONTRO							
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	0 100 %	0 100 %	0 100				
Number of Subsamples	1	1	1	1	1	1				
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021				
Days After First/Last Applic.	56 17	56 17	56 17	70 31	70 31	70 31				
Trt-Eval Interval										
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	54 DE-1	54 DE-1	54 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	25*	26*	27*	28*	29*	30*
1	UTC				0 -	0 -	0 -	0 -	0 -	0 -
2	Restraint	36 oz/a	A		100 -	100 -	100 -	0 -	0 -	0 -
	Atrazine	1 qt/a	A							
	Shieldex	1 oz/a	B							
	Atrazine	1 qt/a	B							
	COC	1 % v/v	B							
3	Restraint	18 oz/a	A		100 -	100 -	100 -	0 -	0 -	0 -
	Atrazine	1 qt/a	A							
	Restraint	18 oz/a	B							
	Atrazine	1 qt/a	B							
	COC	1 % v/v	B							
4	Resicore	40 oz/a	A		100 -	100 -	100 -	0 -	0 -	0 -
	Atrazine	1 qt/a	A							
	Restraint	30 oz/a	B							
	Atrazine	1 qt/a	B							
	COC	1 % v/v	B							
5	Resicore	40 oz/a	A		100 -	100 -	100 -	0 -	0 -	0 -
	Atrazine	1 qt/a	A							
	Resicore	40 oz/a	B							
	Atrazine	1 qt/a	B							
	COC	1 % v/v	B							
6	Harness Max	64 oz/a	A		100 -	100 -	100 -	0 -	0 -	0 -
	Atrazine	1 qt/a	A							
	Shieldex	1 oz/a	B							
	Atrazine	1 qt/a	B							
	COC	1 % v/v	B							
7	Harness Max	32 oz/a	A		100 -	100 -	100 -	0 -	0 -	0 -
	Atrazine	1 qt/a	A							
	Harness Max	32 oz/a	B							
	Atrazine	1 qt/a	B							
	COC	1 % v/v	B							

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The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	C ZEAMX	C ZEAMX	C ZEAMX			
Pest Code	CHEAL	AMARE	ABUTH	Corn	Corn	Corn			
Pest Name	common lambsqua	Redroot pigweed	velvetleaf						
Crop Type, Code									
Crop Name									
Rating Date	Jun-23-2021	Jun-23-2021	Jun-23-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021			
Rating Type	CONTRO	CONTRO	CONTRO	PHYSTU	PHYCHL	PHYNEC			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	0 100 %	0 100 %	0 100			
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021			
Days After First/Last Applic.	56 17	56 17	56 17	70 31	70 31	70 31			
Trt-Eval Interval									
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	54 DE-1	54 DE-1	54 DE-1			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	25*	26*	27*	28*	29*	30*
8 Harness	33 oz/a		A	100 -	100 -	100 -	0 -	0 -	0 -
Callisto	3 oz/a		A						
Atrazine	1 qt/a		A						
Shieldex	1 oz/a		B						
Atrazine	1 qt/a		B						
COC	1 % v/v		B						
LSD P=.05				.	.	.	.	.	.
Standard Deviation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Levene's F^	.	.	.	.	.	.	.	.	.
Levene's Prob(F)	.	.	.	.	.	.	.	.	.
Skewness^	.	.	.	.	.	.	.	.	.
Kurtosis^	.	.	.	.	.	.	.	.	.
Replicate F	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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

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* Adjusted means

Excluded replicate 4 in column 13; 4 in 14

Could not calculate LSD (% mean diff) for columns 1,2,3,8,10,11,16,17,18,19,20,25,26,27,28,29,30,34,35,36 because error mean square = 0.

^Calculated from residual.

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The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE	ABUTH				
Pest Name	Giant foxtail	Common barnyard>	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf				
Crop Type, Code										
Crop Name										
Rating Date	Jul-7-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit/Min/Max	% 0	% 0 100	% 0	% 0 100	% 0 100 %	% 0 100				
Number of Subsamples	100	1	100	1	1	1				
Data Entry Date	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021				
Days After First/Last Applic.	70 31	70 31	70 31	70 31	70 31	70 31				
Trt-Eval Interval										
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	54 DE-1	54 DE-1	54 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	31* dAA	32*	33*	34*	35*	36*

1	UTC				0 e	0 c	0	0 -	0 -	0 -
2	Restraint	36 oz/a		A	91 bc	90 ab	84 -	100 -	100 -	100 -
	Atrazine	1 qt/a		A						
	Shieldex	1 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						
3	Restraint	18 oz/a		A	99 ab	98 a	86 -	100 -	100 -	100 -
	Atrazine	1 qt/a		A						
	Restraint	18 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						
4	Resicore	40 oz/a		A	100 a	100 a	84 -	100 -	100 -	100 -
	Atrazine	1 qt/a		A						
	Restraint	30 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						
5	Resicore	40 oz/a		A	71 d	90 ab	92 -	100 -	100 -	100 -
	Atrazine	1 qt/a		A						
	Resicore	40 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						
6	Harness Max	64 oz/a		A	74 cd	84 b	75 -	100 -	100 -	100 -
	Atrazine	1 qt/a		A						
	Shieldex	1 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						
7	Harness Max	32 oz/a		A	86 cd	88 ab	81 -	100 -	100 -	100 -
	Atrazine	1 qt/a		A						
	Harness Max	32 oz/a		B						
	Atrazine	1 qt/a		B						
	COC	1 % v/v		B						

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The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
 Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE	ABUTH		
Pest Name	Giant foxtail	Common barnyard>	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf		
Crop Type, Code								
Crop Name								
Rating Date	Jul-7-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021	Jul-7-2021		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% 0	% 0 100	% 0	% 0 100	% 0 100 %	0 100		
	100		100					
Number of Subsamples	1	1	1	1	1	1		
Data Entry Date	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021	Jul-12-2021		
Days After First/Last Applic.	70 31	70 31	70 31	70 31	70 31	70 31		
Trt-Eval Interval								
Days After Emergence	54 DE-1	54 DE-1	54 DE-1	54 DE-1	54 DE-1	54 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Other Other	Appl	31*	32*	33*	34*	35*	36*
No. Name	Rate Rate	Unit Code	dAA					
8 Harness	33 oz/a	A	98 ab	98 a	84 -	100 -	100 -	100 -
Callisto	3 oz/a	A						
Atrazine	1 qt/a	A						
Shieldex	1 oz/a	B						
Atrazine	1 qt/a	B						
COC	1 % v/v	B						
LSD P=.05			3.7 - 15.5	8.8	11.9	.	.	.
Standard Deviation			7.5t	6.0	8.0	0.0	0.0	0.0
CV			11.7t	7.39	9.6	0.0	0.0	0.0
Levene's F^			1.209	1.49	0.765	.	.	.
Levene's Prob(F)			0.336	0.218	0.605	.	.	.
Skewness^			0.852*	0.3483	-0.349	.	.	.
Kurtosis^			3.2043*	0.4277	-0.0363	.	.	.
Replicate F			0.789	0.349	0.850	0.000	0.000	0.000
Replicate Prob(F)			0.5136	0.7901	0.4846	1.0000	1.0000	1.0000
Treatment F			57.429	123.065	1.581	0.000	0.000	0.000
Treatment Prob(F)			0.0001	0.0001	0.2097	1.0000	1.0000	1.0000

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

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Excluded replicate 4 in column 13; 4 in 14

Could not calculate LSD (% mean diff) for columns 1,2,3,8,10,11,16,17,18,19,20,25,26,27,28,29,30,34,35,36 because error mean square = 0.

^Calculated from residual.

d=Means are reported in de-transformed data units

The Ohio State University

Restraint Crop Safety and Weed Control

Trial ID: 21Restraint Location: Trial Year: 2021
Protocol ID: H-RestraintVis2021 Investigator (Creator): Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
ABUTH, Abutilon theophrasti, velvetleaf = US

Crop Type, Code

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

Rating Type

PHYSTU = phytotoxicity - stunting
PHYCHL = phytotoxicity - chlorosis
PHYNEC = phytotoxicity - necrosis /burn
CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent