

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410 Location: Western Branch F-8 E Trial Year: 2017
 Protocol ID: 17-US-H-6-400CG VIS.MFS Investigator: Alan Raeder
 Project ID: SL-573 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

General Trial Information

Study Director: MARK LOUX; OSU
Investigator: Alan Raeder

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.86004 N
Longitude of LL Corner °: 83.66985 W
Altitude of LL Corner, Unit: 1089.00 FT
Conducted Under GLP: No
Conducted Under GEP: No
No.

Contacts

Study Director: MARK LOUX; OSU
Investigator: Alan Raeder

Cooperator/Landowner

Other Contacts

Crop Description

Crop 1: ZEAMX Zea mays
Variety: DKC61-54RIB
Description: Dekalb RR/LL
BBCH Scale: BCOR

Planting Rate, Unit: 32097 S/A
Depth, Unit: 1.75 IN
Row Spacing, Unit: 30 IN

Planting Date: 4-25-2017
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-10-2017

Soil Temperature, Unit: 56 F
Soil Moisture: MOIST
Seed Bed: MEDTRA medium/trashy

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Pest 3 Type: W **Code:** POLPY *Persicaria pensylvanica*
Common Name: annual smartweed

Pest 4 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 5 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Pest 6 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: ivy-leaf morning glory

Pest 7 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 10
Replications: 3
No. Previous Crop Year
 1. Soybean 2016

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Maintenance

No.

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Soil Description

Description Name: F-8 East
% OM: 3.1 **Texture:** SICL silty clay loam
pH: 5.9 **Soil Name:** Kokomo
CEC: 17.3 **Fert. Level:** G good
Soil Drainage: G good

Additional Measured Elements

Application Description

	A	B
Application Date:	4-25-2017	5-30-2017
Appl. Start Time:	1:00 PM	9:25 AM
Appl. Stop Time:	1:15 PM	9:45 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOL	BROFOL
Applied By:	Loux	Reeb
Air Temperature, Unit:	72 f	70.5 F
% Relative Humidity:	55	56
Wind Velocity, Unit:	7 MPH	6 MPH
Wind Direction:	ESE	NE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	56 F	61 F
Soil Moisture:	DRY	GOOD
% Cloud Cover:	5	0
Next Moisture Occurred On:	4-27-2017	6-4-2017
Time to Next Moisture, Unit:	2 DAY	5 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		14 100
Height, Unit:		7 IN
Height Minimum, Maximum:		7 8

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	13	80
Height, Unit:	2.5	IN
Height Minimum, Maximum:	2	3
Density, Unit:	144	m2
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	14	100
Height, Unit:	2.5	IN
Height Minimum, Maximum:	2	3
Density, Unit:	11	m2
Pest 3 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:	13	100
Height, Unit:	3	IN
Height Minimum, Maximum:	2	4
Density, Unit:	1	M2
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	18	100
Height, Unit:	7.5	IN
Height Minimum, Maximum:	6	9
Density, Unit:	17	m2
Pest 5 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:	14	100
Height, Unit:	7.5	IN
Height Minimum, Maximum:	6	9
Density, Unit:	1	m2
Pest 6 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	12	100
Height, Unit:	2	IN
Density, Unit:	2	M2
Pest 7 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:	16	100
Height, Unit:	4.5	IN
Height Minimum, Maximum:	4	5
Density, Unit:	3	M2

Application Equipment

	A	B
Appl. Equipment:	6 FOOT BOOM	6 FOOT BOOM
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	1 Liters	1 Liters
Propellant:	CO2	CO2
Trt No Treatment Application Comment		

Date By Notes

No. Date By Deviations

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	HIBTR	AMARE
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	velvetleaf	Venice mallow	Redroot pigweed
Crop Code	ZEAMX					
Crop Name	Corn					
Rating Date	6-6-2017	6-6-2017	6-6-2017	6-6-2017	6-6-2017	6-6-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	42 7	42 7	42 7	42 7	42 7	42 7
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Days After Emergence						
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3*	4*	5*	6*	7*
1	NONTREATED				0 -	0 d	0 c	0 c	0 c	0 b	0 b
2	DUAL II MAGNUM	1.67 pt/a	A		0 -	78 c	57 b	77 b	77 b	93 a	100 a
3	DUAL II MAGNUM	1.67 pt/a	A		0 -	95 ab	73 a	99 a	93 a	93 a	100 a
3	SHIELDEX	0.854 fl oz/a	B								
3	MSO	0.5 % v/v	B								
3	UAN	2.5 % v/v	B								
4	DUAL II MAGNUM	1.67 pt/a	A		0 -	92 b	73 a	100 a	100 a	100 a	100 a
4	SHIELDEX	1.03 fl oz/a	B								
4	MSO	0.5 % v/v	B								
4	UAN	2.5 % v/v	B								
5	DUAL II MAGNUM	1.67 pt/a	A		0 -	96 ab	87 a	90 ab	100 a	92 a	100 a
5	SHIELDEX	1.37 fl oz/a	B								
5	MSO	0.5 % v/v	B								
5	UAN	2.5 % v/v	B								
6	DUAL II MAGNUM	1.67 pt/a	A		0 -	100 a	82 a	100 a	100 a	100 a	100 a
6	SHIELDEX	0.854 fl oz/a	B								
6	AATREX	2 pt/a	B								
6	MSO	0.5 % v/v	B								
6	UAN	2.5 % v/v	B								
7	DUAL II MAGNUM	1.67 pt/a	A		0 -	100 a	84 a	100 a	100 a	100 a	100 a
7	SHIELDEX	1.03 fl oz/a	B								
7	AATREX	2 pt/a	B								
7	MSO	0.5 % v/v	B								
7	UAN	2.5 % v/v	B								
8	DUAL II MAGNUM	1.67 pt/a	A		0 -	95 ab	87 a	100 a	100 a	100 a	100 a
8	SHIELDEX	1.37 fl oz/a	B								
8	AATREX	2 pt/a	B								
8	MSO	0.5 % v/v	B								
8	UAN	2.5 % v/v	B								
9	DUAL II MAGNUM	1.67 pt/a	A		0 -	98 ab	77 a	98 a	100 a	100 a	100 a
9	IMPACT	0.98 oz/a	B								
9	MSO	0.5 % v/v	B								
9	UAN	2.5 % v/v	B								

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

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Pest Code	SETFA	AMBTR	CHEAL	ABUTH	HIBTR	AMARE			
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	velvetleaf	Venice mallow	Redroot pigweed			
Crop Code	ZEAMX								
Crop Name	Corn								
Rating Date	6-6-2017	6-6-2017	6-6-2017	6-6-2017	6-6-2017	6-6-2017			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	42 7	42 7	42 7	42 7	42 7	42 7			
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A			
Days After Emergence									
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*	6*	7*
No. Name	Rate	Unit Code							
10 DUAL II MAGNUM	1.67 pt/a	A	0 -	98 a	87 a	100 a	100 a	100 a	100 a
10 IMPACT	0.98 oz/a	B							
10 AATREX	2 pt/a	B							
10 MSO	0.5 % v/v	B							
10 UAN	2.5 % v/v	B							
LSD P=.05			.	6.1	16.0	14.3	14.4	10.3	.
Standard Deviation			0.0	3.5	9.3	8.4	8.4	6.0	0.0
CV			0.0	4.15	13.18	9.67	9.67	6.81	0.0
Bartlett's X2			0.0	4.161	15.695	13.992	1.081	0.021	0.0
P(Bartlett's X2)			.	0.655	0.047*	0.003*	0.298	0.99	.
Skewness			.	-2.5169*	-1.939*	-2.3903*	-2.4014*	-2.6232*	-2.8091*
Kurtosis			.	5.187*	3.0852*	4.4467*	4.4712*	5.5702*	6.3081*
Replicate F			0.000	11.722	2.894	1.625	1.838	1.166	0.000
Replicate Prob(F)			1.0000	0.0005	0.0814	0.2245	0.1878	0.3341	1.0000
Treatment F			0.000	224.340	24.370	41.981	41.932	80.946	0.000
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	SIDSP	POLPY	AMBEL	SETFA	AMBTR
Pest Name	ivy-leaf Prickly sida annual smartwe> Common ragweed Giant foxtail Giant ragweed morni>					
Crop Code						
Crop Name						
Rating Date	6-6-2017	6-6-2017	6-6-2017	6-6-2017	6-14-2017	6-14-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	42 7	42 7	42 7	42 7	50 15	50 15
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-B	15 DA-B	15 DA-B
Days After Emergence						
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	8*	9*	10*	11*	12*	13*
1	NONTREATED				0 d	0 c	0 c	0 c	0 c	0 d
2	DUAL II MAGNUM	1.67 pt/a		A	100 a	28 b	90 b	77 b	70 b	28 c
3	DUAL II MAGNUM	1.67 pt/a		A	82 bc	85 a	100 a	100 a	83 ab	70 b
	3 SHIELDDEX	0.854 fl oz/a		B						
	3 MSO	0.5 % v/v		B						
	3 UAN	2.5 % v/v		B						
4	DUAL II MAGNUM	1.67 pt/a		A	82 bc	82 a	100 a	97 a	80 ab	73 b
	4 SHIELDDEX	1.03 fl oz/a		B						
	4 MSO	0.5 % v/v		B						
	4 UAN	2.5 % v/v		B						
5	DUAL II MAGNUM	1.67 pt/a		A	73 c	80 a	100 a	100 a	90 a	78 b
	5 SHIELDDEX	1.37 fl oz/a		B						
	5 MSO	0.5 % v/v		B						
	5 UAN	2.5 % v/v		B						
6	DUAL II MAGNUM	1.67 pt/a		A	87 b	90 a	100 a	100 a	87 ab	93 a
	6 SHIELDDEX	0.854 fl oz/a		B						
	6 AATREX	2 pt/a		B						
	6 MSO	0.5 % v/v		B						
	6 UAN	2.5 % v/v		B						
7	DUAL II MAGNUM	1.67 pt/a		A	100 a	91 a	100 a	100 a	83 ab	92 a
	7 SHIELDDEX	1.03 fl oz/a		B						
	7 AATREX	2 pt/a		B						
	7 MSO	0.5 % v/v		B						
	7 UAN	2.5 % v/v		B						
8	DUAL II MAGNUM	1.67 pt/a		A	99 a	88 a	100 a	98 a	90 a	100 a
	8 SHIELDDEX	1.37 fl oz/a		B						
	8 AATREX	2 pt/a		B						
	8 MSO	0.5 % v/v		B						
	8 UAN	2.5 % v/v		B						
9	DUAL II MAGNUM	1.67 pt/a		A	87 b	87 a	100 a	100 a	82 ab	77 b
	9 IMPACT	0.98 oz/a		B						
	9 MSO	0.5 % v/v		B						
	9 UAN	2.5 % v/v		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	IPOHE	SIDSP	POLPY	AMBEL	SETFA	AMBTR		
Pest Name	ivy-leaf Prickly sida annual smartwe> Common ragweed Giant foxtail Giant ragweed morni>							
Crop Code								
Crop Name								
Rating Date	6-6-2017	6-6-2017	6-6-2017	6-6-2017	6-14-2017	6-14-2017		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	42 7	42 7	42 7	42 7	50 15	50 15		
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-B	15 DA-B	15 DA-B		
Days After Emergence								
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	8*	9*	10*	11*	12*	13*
No. Name	Rate	Unit Code						
10 DUAL II MAGNUM	1.67 pt/a	A	87 b	95 a	100 a	100 a	78 ab	100 a
10 IMPACT	0.98 oz/a	B						
10 AATREX	2 pt/a	B						
10 MSO	0.5 % v/v	B						
10 UAN	2.5 % v/v	B						
LSD P=.05			10.8	26.8	9.4	13.5	17.3	13.3
Standard Deviation			6.3	15.6	5.5	7.9	10.1	7.7
CV			7.87	21.49	6.15	9.06	13.55	10.88
Bartlett's X2			7.792	15.826	0.0	17.951	10.706	4.555
P(Bartlett's X2)			0.254	0.027*	.	0.001*	0.219	0.602
Skewness			-2.1091*	-1.6564*	-2.6742*	-2.4393*	-2.1413*	-1.3047*
Kurtosis			3.8583*	1.1977	5.7168*	4.6127*	3.9883*	0.6081
Replicate F			8.932	3.634	1.000	1.838	1.018	2.685
Replicate Prob(F)			0.0020	0.0473	0.3874	0.1878	0.3811	0.0954
Treatment F			65.844	12.470	98.778	47.626	21.190	53.201
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Code	CHEAL	ABUTH	HIBTR	AMARE	IPOHE	SIDSP
Pest Name	common lambsqu>	velvetleaf	Venice mallow	Redroot pigweed	ivy-leaf morni>	Prickly sida

Crop Code	6-14-2017	6-14-2017	6-14-2017	6-14-2017	6-14-2017	6-14-2017
Crop Name	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Date	%	%	%	%	%	%
Rating Type	1	1	1	1	1	1
Rating Unit	50	15	50	15	50	15
Number of Subsamples	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B
Days After First/Last Applic.	0	0	0	0	0	0
Trt-Eval Interval						
Days After Emergence						
Number of Decimals						

Trt No.	Treatment Name	Rate	Unit	Appl Code	14*	15*	16*	17*	18*	19*
1	NONTREATED				0 c	0 c	0 b	0 c	0 e	0 f
2	DUAL II MAGNUM	1.67 pt/a	A		80 b	67 b	93 a	90 b	77 b	68 de
3	DUAL II MAGNUM	1.67 pt/a	A		98 a	100 a	93 a	100 a	67 cd	70 cde
	3 SHIELDDEX	0.854 fl oz/a	B							
	3 MSO	0.5 % v/v	B							
	3 UAN	2.5 % v/v	B							
4	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	100 a	100 a	67 cd	60 e
	4 SHIELDDEX	1.03 fl oz/a	B							
	4 MSO	0.5 % v/v	B							
	4 UAN	2.5 % v/v	B							
5	DUAL II MAGNUM	1.67 pt/a	A		95 a	100 a	100 a	100 a	63 d	70 cde
	5 SHIELDDEX	1.37 fl oz/a	B							
	5 MSO	0.5 % v/v	B							
	5 UAN	2.5 % v/v	B							
6	DUAL II MAGNUM	1.67 pt/a	A		100 a	98 a	100 a	100 a	83 ab	83 ab
	6 SHIELDDEX	0.854 fl oz/a	B							
	6 AATREX	2 pt/a	B							
	6 MSO	0.5 % v/v	B							
	6 UAN	2.5 % v/v	B							
7	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	100 a	100 a	78 ab	77 bcd
	7 SHIELDDEX	1.03 fl oz/a	B							
	7 AATREX	2 pt/a	B							
	7 MSO	0.5 % v/v	B							
	7 UAN	2.5 % v/v	B							
8	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	100 a	100 a	87 a	80 bc
	8 SHIELDDEX	1.37 fl oz/a	B							
	8 AATREX	2 pt/a	B							
	8 MSO	0.5 % v/v	B							
	8 UAN	2.5 % v/v	B							
9	DUAL II MAGNUM	1.67 pt/a	A		98 a	98 a	100 a	100 a	75 bc	77 bcd
	9 IMPACT	0.98 oz/a	B							
	9 MSO	0.5 % v/v	B							
	9 UAN	2.5 % v/v	B							

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 Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	CHEAL	ABUTH	HIBTR	AMARE	IPOHE	SIDSP		
Pest Name	common lambsqu>	velvetleaf	Venice mallow	Redroot pigweed	ivy-leaf morni>	Prickly sida		
Crop Code								
Crop Name								
Rating Date	6-14-2017	6-14-2017	6-14-2017	6-14-2017	6-14-2017	6-14-2017		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	50 15	50 15	50 15	50 15	50 15	50 15		
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B		
Days After Emergence								
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	14*	15*	16*	17*	18*	19*
No. Name	Rate Unit Code							
10 DUAL II MAGNUM	1.67 pt/a A		100 a	100 a	100 a	100 a	80 ab	93 a
10 IMPACT	0.98 oz/a B							
10 AATREX	2 pt/a B							
10 MSO	0.5 % v/v B							
10 UAN	2.5 % v/v B							
LSD P=.05			10.1	3.8	9.1	5.4	9.8	10.9
Standard Deviation			5.9	2.2	5.3	3.2	5.7	6.3
CV			6.79	2.57	6.01	3.55	8.42	9.33
Bartlett's X2			16.644	6.799	9.151	0.0	3.87	3.761
P(Bartlett's X2)			0.002*	0.079	0.01*	.	0.869	0.709
Skewness			-2.5344*	-2.3608*	-2.6822*	-2.7278*	-2.1295*	-1.9365*
Kurtosis			5.1609*	4.4024*	5.7944*	5.9816*	4.1086*	3.5418*
Replicate F			0.184	0.677	0.425	1.000	2.795	2.640
Replicate Prob(F)			0.8334	0.5208	0.6603	0.3874	0.0877	0.0988
Treatment F			83.664	624.181	103.508	296.333	57.504	48.778
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	AMBEL	SETFA	AMBTR	CHEAL	ABUTH
Pest Name	annual smartwe>	Common ragweed	Giant foxtail	Giant common lambsqu>	ragweed	velvetleaf
Crop Code						
Crop Name						
Rating Date	6-14-2017	6-14-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	50 15	50 15	65 30	65 30	65 30	65 30
Trt-Eval Interval	15 DA-B	15 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B
Days After Emergence			50 DE-1	50 DE-1	50 DE-1	50 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	20*	21*	22*	23*	24*	25*
1	NONTREATED				0 b	0 c	0 d	0 f	0 c	0 d
2	DUAL II MAGNUM	1.67 pt/a	A		100 a	73 b	72 c	60 e	80 b	82 c
3	DUAL II MAGNUM	1.67 pt/a	A		100 a	98 a	80 abc	72 de	98 a	88 bc
	3 SHIELDEX	0.854 fl oz/a	B							
	3 MSO	0.5 % v/v	B							
	3 UAN	2.5 % v/v	B							
4	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	82 ab	75 cd	93 ab	93 ab
	4 SHIELDEX	1.03 fl oz/a	B							
	4 MSO	0.5 % v/v	B							
	4 UAN	2.5 % v/v	B							
5	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	83 ab	80 bcd	100 a	100 a
	5 SHIELDEX	1.37 fl oz/a	B							
	5 MSO	0.5 % v/v	B							
	5 UAN	2.5 % v/v	B							
6	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	88 a	87 abc	98 a	99 a
	6 SHIELDEX	0.854 fl oz/a	B							
	6 AATREX	2 pt/a	B							
	6 MSO	0.5 % v/v	B							
	6 UAN	2.5 % v/v	B							
7	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	87 a	97 a	98 a	100 a
	7 SHIELDEX	1.03 fl oz/a	B							
	7 AATREX	2 pt/a	B							
	7 MSO	0.5 % v/v	B							
	7 UAN	2.5 % v/v	B							
8	DUAL II MAGNUM	1.67 pt/a	A		100 a	98 a	85 a	87 abc	100 a	100 a
	8 SHIELDEX	1.37 fl oz/a	B							
	8 AATREX	2 pt/a	B							
	8 MSO	0.5 % v/v	B							
	8 UAN	2.5 % v/v	B							
9	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	75 bc	80 bcd	95 a	82 c
	9 IMPACT	0.98 oz/a	B							
	9 MSO	0.5 % v/v	B							
	9 UAN	2.5 % v/v	B							

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	POLPY	AMBEL	SETFA	AMBTR	CHEAL	ABUTH		
Pest Name	annual smartwe>	Common ragweed	Giant foxtail	Giant common lambsqu>	ragweed	velvetleaf		
Crop Code								
Crop Name								
Rating Date	6-14-2017	6-14-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	50 15	50 15	65 30	65 30	65 30	65 30		
Trt-Eval Interval	15 DA-B	15 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B		
Days After Emergence			50 DE-1	50 DE-1	50 DE-1	50 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	20*	21*	22*	23*	24*	25*
No. Name	Rate Unit Code							
10 DUAL II MAGNUM	1.67 pt/a A		100 a	100 a	85 a	92 ab	99 a	98 a
10 IMPACT	0.98 oz/a B							
10 AATREX	2 pt/a B							
10 MSO	0.5 % v/v B							
10 UAN	2.5 % v/v B							
LSD P=.05			.	13.5	8.7	13.2	13.6	9.1
Standard Deviation			0.0	7.9	5.1	7.7	7.9	5.3
CV			0.0	9.07	6.87	10.59	9.2	6.32
Bartlett's X2			0.0	10.424	4.335	6.672	21.552	12.79
P(Bartlett's X2)			.	0.005*	0.632	0.572	0.001*	0.025*
Skewness			-2.8091*	-2.3889*	-2.5044*	-1.899*	-2.4726*	-2.4121*
Kurtosis			6.3081*	4.3915*	5.1837*	3.2449*	4.8932*	4.8406*
Replicate F			0.000	1.446	0.422	0.518	0.226	2.190
Replicate Prob(F)			1.0000	0.2615	0.6618	0.6044	0.7997	0.1409
Treatment F			0.000	48.357	81.502	38.540	45.408	98.608
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	HIBTR	AMARE	IPOHE	SIDSP	POLPY	AMBEL
Pest Name	Venice mallow	Redroot pigweed	ivy-leaf Prickly sida	annual smartwe>	Common ragweed	morni>
Crop Code						
Crop Name						
Rating Date	6-29-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	65 30	65 30	65 30	65 30	65 30	65 30
Trt-Eval Interval	30 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	26*	27*	28*	29*	30*	31*
1	NONTREATED				0 b	0 b	0 e	0 d	0 b	0 c
2	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	100 a	88 ab	100 a	85 b
3	DUAL II MAGNUM	1.67 pt/a	A		99 a	100 a	75 d	85 bc	95 a	93 ab
3	SHIELDEX	0.854 fl oz/a	B							
3	MSO	0.5 % v/v	B							
3	UAN	2.5 % v/v	B							
4	DUAL II MAGNUM	1.67 pt/a	A		96 a	93 a	72 d	80 bc	95 a	100 a
4	SHIELDEX	1.03 fl oz/a	B							
4	MSO	0.5 % v/v	B							
4	UAN	2.5 % v/v	B							
5	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	73 d	77 c	100 a	100 a
5	SHIELDEX	1.37 fl oz/a	B							
5	MSO	0.5 % v/v	B							
5	UAN	2.5 % v/v	B							
6	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	92 ab	88 ab	100 a	100 a
6	SHIELDEX	0.854 fl oz/a	B							
6	AATREX	2 pt/a	B							
6	MSO	0.5 % v/v	B							
6	UAN	2.5 % v/v	B							
7	DUAL II MAGNUM	1.67 pt/a	A		97 a	100 a	87 bc	85 bc	100 a	100 a
7	SHIELDEX	1.03 fl oz/a	B							
7	AATREX	2 pt/a	B							
7	MSO	0.5 % v/v	B							
7	UAN	2.5 % v/v	B							
8	DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	87 bc	88 ab	100 a	93 ab
8	SHIELDEX	1.37 fl oz/a	B							
8	AATREX	2 pt/a	B							
8	MSO	0.5 % v/v	B							
8	UAN	2.5 % v/v	B							
9	DUAL II MAGNUM	1.67 pt/a	A		98 a	93 a	82 bcd	83 bc	100 a	100 a
9	IMPACT	0.98 oz/a	B							
9	MSO	0.5 % v/v	B							
9	UAN	2.5 % v/v	B							

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed								
Pest Code	HIBTR	AMARE	IPOHE	SIDSP	POLPY	AMBEL								
Pest Name	Venice mallow	Redroot pigweed	ivy-leaf	Prickly sida	annual smartwe>	Common ragweed								
Crop Code														
Crop Name														
Rating Date	6-29-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017	6-29-2017								
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO								
Rating Unit	%	%	%	%	%	%								
Number of Subsamples	1	1	1	1	1	1								
Days After First/Last Applic.	65 30	65 30	65 30	65 30	65 30	65 30								
Trt-Eval Interval	30 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B								
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1								
Number of Decimals	0	0	0	0	0	0								
Trt Treatment	Rate	Appl	26*		27*		28*		29*		30*		31*	
No. Name	Rate	Unit	Code											
10 DUAL II MAGNUM	1.67 pt/a	A		100 a	100 a	80 cd	97 a		100 a	100 a				
10 IMPACT	0.98 oz/a	B												
10 AATREX	2 pt/a	B												
10 MSO	0.5 % v/v	B												
10 UAN	2.5 % v/v	B												
LSD P=.05				4.7	8.4	11.6	11.2		6.8	10.4				
Standard Deviation				2.7	4.9	6.7	6.5		4.0	6.1				
CV				3.06	5.49	9.03	8.48		4.47	6.96				
Bartlett's X2				4.345	0.0	2.189	6.749		0.0	0.049				
P(Bartlett's X2)				0.227	.	0.902	0.456		.	0.976				
Skewness				-2.7714*	-2.682*	-2.0488*	-2.3807*		-2.7347*	-2.5409*				
Kurtosis				6.1668*	5.7934*	3.9017*	4.844*		6.0161*	5.2434*				
Replicate F				0.895	2.250	3.098	3.004		0.474	3.015				
Replicate Prob(F)				0.4260	0.1342	0.0698	0.0749		0.6302	0.0742				
Treatment F				397.259	123.813	50.460	53.519		186.105	78.592				
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001		0.0001	0.0001				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	HIBTR
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Venice mallow
Crop Code						
Crop Name						
Rating Date	7-14-2017	7-14-2017	7-14-2017	7-14-2017	7-14-2017	7-14-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	80 45	80 45	80 45	80 45	80 45	80 45
Trt-Eval Interval	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B
Days After Emergence	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	32*	33*	34*	35*	36*	37*
1	NONTREATED				0 c	-1 c	0 c	0 c	0 c	0 b
2	DUAL II MAGNUM	1.67 pt/a	A		70 b	70 b	57 b	85 b	84 b	99 a
3	DUAL II MAGNUM	1.67 pt/a	A		94 a	93 a	87 a	99 a	98 a	99 a
	3 SHIELDDEX	0.854 fl oz/a	B							
	3 MSO	0.5 % v/v	B							
	3 UAN	2.5 % v/v	B							
4	DUAL II MAGNUM	1.67 pt/a	A		94 a	93 a	88 a	99 a	100 a	99 a
	4 SHIELDDEX	1.03 fl oz/a	B							
	4 MSO	0.5 % v/v	B							
	4 UAN	2.5 % v/v	B							
5	DUAL II MAGNUM	1.67 pt/a	A		94 a	94 a	94 a	100 a	100 a	100 a
	5 SHIELDDEX	1.37 fl oz/a	B							
	5 MSO	0.5 % v/v	B							
	5 UAN	2.5 % v/v	B							
6	DUAL II MAGNUM	1.67 pt/a	A		97 a	98 a	100 a	100 a	100 a	100 a
	6 SHIELDDEX	0.854 fl oz/a	B							
	6 AATREX	2 pt/a	B							
	6 MSO	0.5 % v/v	B							
	6 UAN	2.5 % v/v	B							
7	DUAL II MAGNUM	1.67 pt/a	A		97 a	97 a	99 a	99 a	100 a	100 a
	7 SHIELDDEX	1.03 fl oz/a	B							
	7 AATREX	2 pt/a	B							
	7 MSO	0.5 % v/v	B							
	7 UAN	2.5 % v/v	B							
8	DUAL II MAGNUM	1.67 pt/a	A		97 a	96 a	93 a	100 a	100 a	100 a
	8 SHIELDDEX	1.37 fl oz/a	B							
	8 AATREX	2 pt/a	B							
	8 MSO	0.5 % v/v	B							
	8 UAN	2.5 % v/v	B							
9	DUAL II MAGNUM	1.67 pt/a	A		93 a	92 a	96 a	99 a	98 a	100 a
	9 IMPACT	0.98 oz/a	B							
	9 MSO	0.5 % v/v	B							
	9 UAN	2.5 % v/v	B							

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410 Location: Western Branch F-8 E Trial Year: 2017
 Protocol ID: 17-US-H-6-400CG VIS.MFS Investigator: Alan Raeder
 Project ID: SL-573 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed								
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	HIBTR								
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Venice mallow								
Crop Code														
Crop Name														
Rating Date	7-14-2017	7-14-2017	7-14-2017	7-14-2017	7-14-2017	7-14-2017								
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO								
Rating Unit	%	%	%	%	%	%								
Number of Subsamples	1	1	1	1	1	1								
Days After First/Last Applic.	80 45	80 45	80 45	80 45	80 45	80 45								
Trt-Eval Interval	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B								
Days After Emergence	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1								
Number of Decimals	0	0	0	0	0	0								
Trt Treatment	Rate	Appl	32*		33*		34*		35*		36*		37*	
No. Name	Rate	Unit	Code											
10 DUAL II MAGNUM	1.67	pt/a	A	95 a	97 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a
10 IMPACT	0.98	oz/a	B											
10 AATREX	2	pt/a	B											
10 MSO	0.5	% v/v	B											
10 UAN	2.5	% v/v	B											
LSD P=.05				11.9	11.7	14.2	7.6	7.7	1.1					
Standard Deviation				6.9	6.8	8.3	4.4	4.5	0.7					
CV				8.3	7.9	10.19	5.0	5.11	0.74					
Bartlett's X2				31.263	30.305	21.914	25.477	28.799	3.229					
P(Bartlett's X2)				0.001*	0.001*	0.003*	0.001*	0.001*	0.358					
Skewness				-2.3951*	-2.9238*	-1.9554*	-2.6508*	-2.6378*	-2.8064*					
Kurtosis				4.4844*	7.8851*	2.8849*	5.6598*	5.591*	6.2984*					
Replicate F				0.844	1.116	0.557	0.469	1.377	1.588					
Replicate Prob(F)				0.4463	0.3503	0.5827	0.6330	0.2777	0.2316					
Treatment F				57.796	42.554	42.792	151.446	145.385	6762.597					
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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

Due to missing data, larger LSD values (col. 33: >=11.7 and <=13.2) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,7,20,41 because error mean square = 0.

The Ohio State University

2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410
 Protocol ID: 17-US-H-6-400CG VIS.MFS
 Project ID: SL-573

Location: Western Branch F-8 E Trial Year: 2017
 Investigator: Alan Raeder
 Study Director: MARK LOUX; OSU
 Sponsor Contact: Alan Raeder

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	IPOHE	SIDSP	POLPY	AMBEL
Pest Name	Redroot pigweed ivy-leaf morni> Prickly sida annual smartwe> Common ragweed				
Crop Code					
Crop Name					
Rating Date	7-14-2017	7-14-2017	7-14-2017	7-14-2017	7-14-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	80 45	80 45	80 45	80 45	80 45
Trt-Eval Interval	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B
Days After Emergence	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Appl						
No. Name	Rate	Unit	Code	38*	39*	40*	41*	42*
1 NONTREATED				0 c	0 c	0 c	0 b	0 c
2 DUAL II MAGNUM	1.67 pt/a	A		100 a	99 a	99 ab	100 a	100 a
3 DUAL II MAGNUM	1.67 pt/a	A		100 a	96 a	97 b	100 a	99 ab
3 SHIELDDEX	0.854 fl oz/a	B						
3 MSO	0.5 % v/v	B						
3 UAN	2.5 % v/v	B						
4 DUAL II MAGNUM	1.67 pt/a	A		100 a	89 b	98 ab	100 a	100 a
4 SHIELDDEX	1.03 fl oz/a	B						
4 MSO	0.5 % v/v	B						
4 UAN	2.5 % v/v	B						
5 DUAL II MAGNUM	1.67 pt/a	A		100 a	83 b	98 ab	100 a	100 a
5 SHIELDDEX	1.37 fl oz/a	B						
5 MSO	0.5 % v/v	B						
5 UAN	2.5 % v/v	B						
6 DUAL II MAGNUM	1.67 pt/a	A		100 a	99 a	99 ab	100 a	100 a
6 SHIELDDEX	0.854 fl oz/a	B						
6 AATREX	2 pt/a	B						
6 MSO	0.5 % v/v	B						
6 UAN	2.5 % v/v	B						
7 DUAL II MAGNUM	1.67 pt/a	A		100 b	99 a	99 ab	100 a	100 a
7 SHIELDDEX	1.03 fl oz/a	B						
7 AATREX	2 pt/a	B						
7 MSO	0.5 % v/v	B						
7 UAN	2.5 % v/v	B						
8 DUAL II MAGNUM	1.67 pt/a	A		100 a	97 a	98 ab	100 a	93 b
8 SHIELDDEX	1.37 fl oz/a	B						
8 AATREX	2 pt/a	B						
8 MSO	0.5 % v/v	B						
8 UAN	2.5 % v/v	B						
9 DUAL II MAGNUM	1.67 pt/a	A		100 a	95 a	99 ab	100 a	100 a
9 IMPACT	0.98 oz/a	B						
9 MSO	0.5 % v/v	B						
9 UAN	2.5 % v/v	B						

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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Pest Name	Redroot pigweed ivy-leaf morni> Prickly sida annual smartwe> Common ragweed						
Crop Code							
Crop Name							
Rating Date	7-14-2017	7-14-2017	7-14-2017	7-14-2017	7-14-2017		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	80 45	80 45	80 45	80 45	80 45		
Trt-Eval Interval	45 DA-B	45 DA-B	45 DA-B	45 DA-B	45 DA-B		
Days After Emergence	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	38*	39*	40*	41*	42*
10 DUAL II MAGNUM	1.67 pt/a	A	100 a	96 a	100 a	100 a	100 a
10 IMPACT	0.98 oz/a	B					
10 AATREX	2 pt/a	B					
10 MSO	0.5 % v/v	B					
10 UAN	2.5 % v/v	B					
LSD P=.05			0.3	5.9	2.2	.	6.2
Standard Deviation			0.2	3.4	1.3	0.0	3.6
CV			0.2	4.03	1.44	0.0	4.07
Bartlett's X2			0.0	13.513	11.633	0.0	6.32
P(Bartlett's X2)			.	0.095	0.168	.	0.012*
Skewness			-2.8089*	-2.6121*	-2.8007*	-2.8091*	-2.7432*
Kurtosis			6.3074*	5.5665*	6.2779*	6.3081*	6.0378*
Replicate F			1.000	5.563	0.247	0.000	1.225
Replicate Prob(F)			0.3874	0.0132	0.7841	1.0000	0.3171
Treatment F			89934.342	234.509	1797.144	0.000	225.072
Treatment Prob(F)			0.0001	0.0001	0.0001	1.0000	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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2 PASS SYSTEM FOR WEED CONTROL IN CORN WITH TOLPYRALATE - MEDIUM OR FINE SOIL

Trial ID: 17-US-H-6-CG410 Location: Western Branch F-8 E Trial Year: 2017
Protocol ID: 17-US-H-6-400CG VIS.MFS Investigator: Alan Raeder
Project ID: SL-573 Study Director: MARK LOUX; OSU
Sponsor Contact: Alan Raeder

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, Giant foxtail = US
AMBTR, *Ambrosia trifida*, Giant ragweed = US
CHEAL, *Chenopodium album*, common lambsquarters = US
ABUTH, *Abutilon theophrasti*, velvetleaf = US
HIBTR, *Hibiscus trionum*, Venice mallow = US
AMARE, *Amaranthus retroflexus*, Redroot pigweed = US
IPOHE, *Ipomoea hederacea*, ivy-leaf morning glory = US
SIDSP, *Sida spinosa*, Prickly sida = US
POLPY, *Persicaria pensylvanica*, annual smartweed = US
AMBEL, *Ambrosia artemisiifolia*, Common ragweed = US
ECHCG, *Echinochloa crus-galli*, Common barnyard grass = US

Crop Code

ZEAMX, BCOR, *Zea mays*, Corn = US

Rating Type

PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent