

The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN      Location:      Trial Year: 2018  
 Protocol ID:      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director:  
                          Sponsor Contact:

### General Trial Information

**Investigator:** Dr. Mark M. Loux

### 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 °:** 39.85863    N  
**Longitude of LL Corner °:** 83.67132    W  
**Altitude of LL Corner, Unit:** 1089.00 FT

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

**Investigator:** Dr. Mark M. Loux  
**Organization:** The Ohio State University  
**Address:** 2021 Coffey Road  
**City+State/Prov:** Columbus, Ohio  
**Postal Code:** 43210  
**Country:** USA    United States

### Crop Description

**Crop 1:** ZEAMX      Zea mays  
**Variety:** DKC61-54RIB  
**Description:** Dekalb 111 day RR/LL

Corn

**Planting Date:** Apr-29-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FPP    finger pickup planter  
**Emergence Date:** May-10-2018

**Planting Rate, Unit:** 32097 S/A  
**Depth, Unit:** 2 IN  
**Row Spacing, Unit:** 30 IN  
**Soil Temperature, Unit:** 58 F  
**Soil Moisture:** SLIWET slightly wet, moist  
**Seed Bed:** MEDTRA medium/trashy

### Pest Description

**Pest 1 Type:** W    **Code:** LAMPU Lamium purpureum  
**Common Name:** Purple deadnettle

**Pest 2 Type:** W    **Code:** STEME Stellaria media  
**Common Name:** Common chickweed

**Pest 3 Type:** W    **Code:** VERAG Veronica agrestis  
**Common Name:** Field speedwell

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

**Pest 5 Type:** W    **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

**Pest 6 Type:** W    **Code:** ABUTH Abutilon theophrasti  
**Common Name:** velvetleaf

**Pest 7 Type:** W    **Code:** XANST Xanthium strumarium  
**Common Name:** Common cocklebur

**Pest 8 Type:** W    **Code:** ECHCG Echinochloa crus-galli  
**Common Name:** Common barnyard grass

**Pest 9 Type:** W    **Code:** CHEAL Chenopodium album  
**Common Name:** common lambsquarters

### Site and Design

**Treated Plot Width:** 10 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 300 FT<sup>2</sup>    **Treatments:** 16  
**Replications:** 3

**Site Type:** FIELD field  
**Experimental Unit:** 1 PLOT plot  
**Tillage Type:** NOTILL no-till  
**Study Design:** RACOB L Randomized Complete Block (RCB)

**No. Previous Crop Year**  
 1. Soybean      2017

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**Soil Description**

**Description Name:** F-10 W  
**% Sand:** 31 **% OM:** 1.6 **Texture:** L loam  
**% Silt:** 54 **pH:** 6.5 **Soil Name:** Crosby  
**% Clay:** 15 **CEC:** 11.8 **Fert. Level:** G good  
**Soil Drainage:** G good

**Analyzed By:**  
 Spectrum Analytic 11-27-17

**Application Description**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Application Date:</b>	Nov-9-2017	Apr-30-2018	May-16-2018
<b>Appl. Start Time:</b>	10:00 AM	10:00 AM	10:45 AM
<b>Appl. Stop Time:</b>	10:15 AM	10:15 AM	11:00 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	FALL	PRE	EPO
<b>Application Placement:</b>	BROFOL	BROFOL	BROFOL
<b>Applied By:</b>	Dobbels	Loux	Dobbels
<b>Air Temperature, Unit:</b>	46 F	60 F	66 F
<b>% Relative Humidity:</b>	68	35	77
<b>Wind Velocity, Unit:</b>	7 MPH	5 MPH	3 MPH
<b>Wind Direction:</b>	WSW	SW	NE
<b>Dew Presence (Y/N):</b>	N no	N no	Y yes
<b>Soil Temperature, Unit:</b>	41 F	50 F	66 F
<b>Soil Moisture:</b>	WET	SLIWET	SLIWET
<b>% Cloud Cover:</b>	0	30	100
<b>Next Moisture Occurred On:</b>	Nov-12-2017	May-3-2018	May-18-2018
<b>Time to Next Moisture, Unit:</b>	3 DAY	3 DAY	2 DAY
<b>Moisture 1 Week after Appl.:</b>	0.45 IN	0.71 IN	1.41 IN

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
<b>Stage Scale Used:</b>			BBCH
<b>Stage Majority, Percent:</b>			12 100
<b>Height, Unit:</b>			5.5 IN
<b>Height Minimum, Maximum:</b>			4 6

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## Pest Stage At Each Application

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	LAMPU W	LAMPU W	LAMPU W
<b>Stage Majority, Percent:</b>	14	80	
<b>Stage Minimum, Percent:</b>	14	80	
<b>Stage Maximum, Percent:</b>	16	20	
<b>Diameter, Unit:</b>	0.25	IN	
<b>Height, Unit:</b>	0.25	IN	
<b>Height Minimum, Maximum:</b>	0.25	0.5	
<b>Density, Unit:</b>	18	M2	
<b>Pest 2 Code, Type, Scale:</b>	STEME W	STEME W	STEME W
<b>Stage Majority, Percent:</b>	18	90	
<b>Stage Minimum, Percent:</b>	18	90	
<b>Stage Maximum, Percent:</b>	19	10	
<b>Diameter, Unit:</b>	0.25	IN	
<b>Height, Unit:</b>	0.25	IN	
<b>Height Minimum, Maximum:</b>	0.25	0.25	
<b>Density, Unit:</b>	8	M2	
<b>Pest 3 Code, Type, Scale:</b>	VERAG W	VERAG W	VERAG W
<b>Stage Majority, Percent:</b>	19	100	19 100
<b>Diameter, Unit:</b>	1	IN	5 IN
<b>Height, Unit:</b>	2	IN	3.5 IN
<b>Height Minimum, Maximum:</b>	1	2	2 4.5
<b>Density, Unit:</b>	0.33	M2	0.33 M2
<b>Pest 4 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	12	100	14 100
<b>Diameter, Unit:</b>			7 IN
<b>Height, Unit:</b>	1	IN	5 IN
<b>Height Minimum, Maximum:</b>	0.5	2	1.5 10.5
<b>Density, Unit:</b>	3	M2	5 m2
<b>Pest 5 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>			13 100
<b>Diameter, Unit:</b>			4.5 IN
<b>Height, Unit:</b>			2 IN
<b>Height Minimum, Maximum:</b>			2 4.5
<b>Density, Unit:</b>			115 m2
<b>Pest 6 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Stage Majority, Percent:</b>			11 100
<b>Diameter, Unit:</b>			2 IN
<b>Height, Unit:</b>			1 IN
<b>Height Minimum, Maximum:</b>			0.5 1
<b>Pest 7 Code, Type, Scale:</b>	XANST W	XANST W	XANST W
<b>Stage Majority, Percent:</b>			11 100
<b>Diameter, Unit:</b>			5 IN
<b>Height, Unit:</b>			1.5 IN
<b>Height Minimum, Maximum:</b>			0.5 1.5
<b>Pest 8 Code, Type, Scale:</b>	ECHCG W	ECHCG W	ECHCG W
<b>Density, Unit:</b>			63 m2
<b>Pest 9 Code, Type, Scale:</b>	CHEAL W	CHEAL W	CHEAL W
<b>Density, Unit:</b>			1 m2

## Application Equipment

	A	B	C
<b>Appl. Equipment:</b>	10' AI XR	10' AI XR	10' AI XR
<b>Equipment Type:</b>	SPRBAC	SPRBAC	SPRBAC
<b>Operation Pressure, Unit:</b>	46 PSI	42 PSI	46 PSI
<b>Nozzle Type:</b>	AI XR	AI XR	AI XR
<b>Nozzle Size:</b>	110015	110015	110015
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	18 IN
<b>Boom Length, Unit:</b>	10 FT	10 FT	10 FT
<b>Boom Height, Unit:</b>	20 IN	20 IN	20 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA	15 GPA
<b>Mix Size, Unit:</b>	2 L	2 L	2 L
<b>Propellant:</b>	CO2	COMCO2	CO2

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	VERAG	ERYRE	DRBSS
Pest Scientific Name	Stellaria media	Lamium purpure>	Veronica agres>	Erysimum repan>	Draba sp.
Pest Name	Common chickwe>	Purple deadnet>	Field speedwell	Bushy wallflow>	Whitlow-grass
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	172 172	172 172	172 172	172 172	172 172
Trt-Eval Interval	173 DA-A	173 DA-A	173 DA-A	173 DA-A	173 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	1*	2*	3*	4*	5*
1	UNTREATED				0 b	0 b	0	0 b	0 -
2	AUTHORITY MTZ	14 oz/a	A		93 a	100 a	90 -	100 a	100 -
	Weedmaster	32 fl oz/a	A						
	Roundup Powermax	32 fl oz/a	A						
	COC	1 % v/v	A						
	N-PAK AMS	2.5 % v/v	A						
	Anthem Maxx	4 fl oz/a	C						
	AAtrex	1.5 qt/a	C						
	Roundup Powermax	32 fl oz/a	C						
	COC	1 % v/v	C						
	N PAK AMS	2.5 % v/v	C						
3	Authority MTZ	8 oz/a	A		87 a	100 a	77 -	100 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	4 fl oz/a	B						
	AATREX	1.5 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N-PAK AMS	2.5 % v/v	B						
4	AUTHORITY MTZ	8 oz/a	A		93 a	100 a	90 -	100 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	Anthem Maxx	4 fl oz/a	B						
	Callisto	4 fl oz/a	B						
	AATREX	1.5 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N PAK AMS	2.5 % v/v	B						

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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	172 172	172 172	172 172	172 172	172 172
Trt-Eval Interval	173 DA-A	173 DA-A	173 DA-A	173 DA-A	173 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3*	4*	5*
5	AUTHORITY MTZ	8 oz/a	A		93 a	100 a	67 -	100 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	Anthem Maxx	4 fl oz/a	B						
	AATREX	1.5 qt/a	B						
	Callisto	3 fl oz/a	C						
	AATREX	1.5 qt/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	COC	1 % v/v	C						
	N PAK AMS	2.5 % v/v	C						
6	Crusher	1 oz/a	A		70 a	100 a	50 -	87 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	Anthem Maxx	4 fl oz/a	C						
	Callisto	3 fl oz/a	C						
	AATREX	1.5 qt/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	COC	1 % v/v	C						
	N PAK AMS	2.5 % v/v	C						
7	AUTHORITY MTZ	8 oz/a	A		87 a	87 a	67 -	93 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	CRUSHER	1 oz/a	B						
	AAtrex	1.5 qt/a	B						
	Roundup Powermax	32 fl oz/a	B						
	COC	1 % v/v	B						
	N-PAK AMS	2.5 % v/v	B						

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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	172 172	172 172	172 172	172 172	172 172
Trt-Eval Interval	173 DA-A	173 DA-A	173 DA-A	173 DA-A	173 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3*	4*	5*
8	CRUSHER	1 oz/a	A		100 a	100 a	73 -	100 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	Anthem Maxx	3.5 fl oz/a	C						
	Callisto	3 fl oz/a	C						
	AATREX	1.5 qt/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	COC	1 % v/v	C						
	N-PAK AMS	2.5 % v/v	C						
9	AUTHORITY MTZ	8 oz/a	A		100 a	100 a	77 -	93 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	3.5 fl oz/a	B						
	Balanced Flexx	3 fl oz/a	B						
	AATREX	1.5 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N-PAK AMS	2.5 % v/v	B						
10	AUTHORITY MTZ	8 oz/a	A		100 a	100 a	63 -	70 a	100 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	3.5 fl oz/a	C						
	Balanced Flexx	3 fl oz/a	C						
	AAtrex	1.5 qt/a	C						
	Roundup Powermax	32 fl oz/a	C						
	COC	1 % v/v	C						
	N-PAK AMS	2.5 % v/v	C						
11	HARMONY EXTRA XP	0.7 oz/a	A		100 a	100 a	83 -	93 a	100 -
	Harmony GT	0.466 oz/a	A						
	Express	0.233 oz/a	A						
	2,4-D Ester	16 fl oz/a	A						
	Roundup Powermax	32 fl oz/a	A						
	N-PAK AMS	2.5 % v/v	A						
	Anthem Maxx	3.5 fl oz/a	B						
	Callisto	4 fl oz/a	B						
	AAtrex	1 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N-PAK AMS	2.5 % v/v	B						

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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	172 172	172 172	172 172	172 172	172 172
Trt-Eval Interval	173 DA-A	173 DA-A	173 DA-A	173 DA-A	173 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	1*	2*	3*	4*	5*
12	HARMONY EXTRA XP	0.7 oz/a	A		100 a	100 a	77 -	100 a	100 -
	2,4-D LV ESTER	16 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	2 fl oz/a	B						
	HORNET	4 oz/a	B						
	AATREX	1 pt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N PAK AMS	2.5 % v/v	B						
13	CRUSHER	1 oz/a	A		93 a	100 a	83 -	97 a	100 -
	ROUNDUP POWERMAX	32 fl oz/a	A						
	WEEDMASTER	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	4 fl oz/a	C						
	HORNET	3 oz/a	C						
	AATREX	1 pt/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	COC	1 % v/v	C						
	N PAK AMS	2.5 % v/v	C						
14	CRUSHER	1 oz/a	A		100 a	97 a	73 -	83 a	100 -
	ROUNDUP POWERMAX	24 fl oz/a	A						
	N PAK	0.39 % v/v	A						
	CORVUS	5.6 fl oz/a	B						
	ATRAZINE	1 pt/a	B						
	ROUNDUP POWERMAX	24 fl oz/a	B						
	COC	1 % v/v	B						
	N PAK AMS	2.5 % v/v	B						
15	CRUSHER	1 oz/a	A		87 a	100 a	57 -	97 a	100 -
	ROUNDUP POWERMAX	24 fl oz/a	A						
	N PAK AMS	2.5 % v/v	A						
	ACURON	2 qt/a	B						
	ROUNDUP POWERMAX	24 fl oz/a	B						
	COC	1 % v/v	B						
	N PAK AMS	2.5 % v/v	B						

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2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code	STEME	LAMPU	VERAG	ERYRE	DRBSS							
Pest Scientific Name	Stellaria media	Lamium purpure>	Veronica agres>	Erysimum repa>	Draba sp.							
Pest Name	Common chickwe>	Purple deadnet>	Field speedwell	Bushy wallflow>	Whitlow-grass							
Crop Code												
BBCH Scale												
Crop Scientific Name												
Crop Name												
Rating Date	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018	Apr-30-2018							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%	%							
Number of Subsamples	1	1	1	1	1							
Days After First/Last Applic.	172 172	172 172	172 172	172 172	172 172							
Trt-Eval Interval	173 DA-A	173 DA-A	173 DA-A	173 DA-A	173 DA-A							
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1							
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1	-10 DE-1							
Number of Decimals	0	0	0	0	0							
Trt Treatment	Rate	Appl	1*		2*		3*		4*		5*	
No. Name	Rate	Unit Code										
16 CRUSHER	1 oz/a	A	73 a		100 a		57 -		83 a		100 -	
WEEDMASTER	32 fl oz/a	A										
ROUNDUP POWERMAX	24 fl oz/a	A										
COC	1 % v/v	A										
N PAK AMS	2.5 % v/v	A										
ANTHEM MAXX	4 fl oz/a	B										
Callisto	4 fl oz/a	B										
AAtrex	1 qt/a	B										
ROUNDUP POWERMAX	32 fl oz/a	C										
Status	3 oz/a	C										
AATREX	1.5 qt/a	C										
COC	1 % v/v	C										
N PAK AMS	2.5 % v/v	C										
LSD P=.05			20.1		9.8		28.3		22.0		.	
Standard Deviation			12.0		5.9		16.9		13.2		0.0	
CV			14.0		6.32		23.46		15.11		0.0	
Levene's F			0.625		0.969		0.273		0.764		0.00	
Levene's Prob(F)			0.833		0.507		0.994		0.704		.	
Skewness			-2.2791*		-3.4627*		-0.35		-2.4349*		-3.7325*	
Kurtosis			4.8493*		10.808*		-1.2168		5.3686*		12.4486*	
Replicate F			5.440		1.518		3.771		2.061		0.000	
Replicate Prob(F)			0.0096		0.2355		0.0355		0.1450		1.0000	
Treatment F			12.684		54.441		1.538		10.587		0.000	
Treatment Prob(F)			0.0001		0.0001		0.1614		0.0001		1.0000	

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)  
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 Due to missing data, the effective replicates used for mean comparisons are: col. 1-19=3  
 \* Adjusted means  
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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	VERAG	SETFA	AMBTR
Pest Scientific Name	Ranunculus	Veronica agres>	Setaria faberi	Ambrosia trifi>
Pest Name	abo>	Field speedwell	Giant foxtail	Giant ragweed
Crop Code	Smallflower bu>			
BBCH Scale		ZEAMX		ZEAMX
Crop Scientific Name		BCOR		BCOR
Crop Name		Zea mays		Zea mays
Rating Date	Apr-30-2018	May-14-2018	May-14-2018	May-14-2018
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	172 172	186 14	186 14	186 14
Trt-Eval Interval	173 DA-A	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	1 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	-10 DE-1	4 DE-1	4 DE-1	4 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	6*	7*	8*	9*	10*	11*
1	UNTREATED				0 -	0 -	0 e	0 d	0 b	0 -
2	AUTHORITY MTZ	14 oz/a	A		100 -	0 -	77 ab	17 cd	0 b	0 -
	Weedmaster	32 fl oz/a	A							
	Roundup Powermax	32 fl oz/a	A							
	COC	1 % v/v	A							
	N-PAK AMS	2.5 % v/v	A							
	Anthem Maxx	4 fl oz/a	C							
	AAtrex	1.5 qt/a	C							
	Roundup Powermax	32 fl oz/a	C							
	COC	1 % v/v	C							
	N PAK AMS	2.5 % v/v	C							
3	Authority MTZ	8 oz/a	A		100 -	0 -	100 a	92 a	75 a	0 -
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	ANTHEM MAXX	4 fl oz/a	B							
	AATREX	1.5 qt/a	B							
	ROUNDUP POWERMAX	32 fl oz/a	B							
	COC	1 % v/v	B							
	N-PAK AMS	2.5 % v/v	B							
4	AUTHORITY MTZ	8 oz/a	A		100 -	0 -	100 a	95 a	83 a	0 -
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	Anthem Maxx	4 fl oz/a	B							
	Callisto	4 fl oz/a	B							
	AATREX	1.5 qt/a	B							
	ROUNDUP POWERMAX	32 fl oz/a	B							
	COC	1 % v/v	B							
	N PAK AMS	2.5 % v/v	B							

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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	VERAG	SETFA	AMBTR
Pest Scientific Name	Ranunculus	Veronica agres>	Setaria faberi	Ambrosia trifi>
Pest Name	abo>	Field speedwell	Giant foxtail	Giant ragweed
Crop Code	Smallflower bu>			
BBCH Scale		ZEAMX		ZEAMX
Crop Scientific Name		BCOR		BCOR
Crop Name		Zea mays		Zea mays
Rating Date	Apr-30-2018	May-14-2018	May-14-2018	May-14-2018
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	172 172	186 14	186 14	186 14
Trt-Eval Interval	173 DA-A	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	1 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	-10 DE-1	4 DE-1	4 DE-1	4 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	6*	7*	8*	9*	10*	11*
5	AUTHORITY MTZ	8 oz/a	A		100 -	0 -	100 a	95 a	87 a	0 -
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	Anthem Maxx	4 fl oz/a	B							
	AATREX	1.5 qt/a	B							
	Callisto	3 fl oz/a	C							
	AATREX	1.5 qt/a	C							
	ROUNDUP POWERMAX	32 fl oz/a	C							
	COC	1 % v/v	C							
	N PAK AMS	2.5 % v/v	C							
6	Crusher	1 oz/a	A		100 -	0 -	50 d	60 ab	70 a	0 -
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	Anthem Maxx	4 fl oz/a	C							
	Callisto	3 fl oz/a	C							
	AATREX	1.5 qt/a	C							
	ROUNDUP POWERMAX	32 fl oz/a	C							
	COC	1 % v/v	C							
	N PAK AMS	2.5 % v/v	C							
7	AUTHORITY MTZ	8 oz/a	A		100 -	0 -	100 a	87 a	83 a	0 -
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	CRUSHER	1 oz/a	B							
	AAtrex	1.5 qt/a	B							
	Roundup Powermax	32 fl oz/a	B							
	COC	1 % v/v	B							
	N-PAK AMS	2.5 % v/v	B							

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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	VERAG	SETFA	AMBTR
Pest Scientific Name	Ranunculus	Veronica agres>	Setaria faberi	Ambrosia trifi>
Pest Name	abo>	Field speedwell	Giant foxtail	Giant ragweed
Crop Code	Smallflower bu>			
BBCH Scale		ZEAMX		ZEAMX
Crop Scientific Name		BCOR		BCOR
Crop Name		Zea mays		Zea mays
Rating Date	Apr-30-2018	May-14-2018	May-14-2018	May-14-2018
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	172 172	186 14	186 14	186 14
Trt-Eval Interval	173 DA-A	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	1 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	-10 DE-1	4 DE-1	4 DE-1	4 DE-1
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Appl	6*	7*	8*	9*	10*	11*
No.	Name	Rate	Unit Code						
8	CRUSHER	1 oz/a	A	100 -	0 -	57 cd	37 bc	17 b	0 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	COC	1 % v/v	A						
	N PAK AMS	2.5 % v/v	A						
	Anthem Maxx	3.5 fl oz/a	C						
	Callisto	3 fl oz/a	C						
	AATREX	1.5 qt/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	COC	1 % v/v	C						
	N-PAK AMS	2.5 % v/v	C						
9	AUTHORITY MTZ	8 oz/a	A	100 -	0 -	100 a	88 a	88 a	0 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	3.5 fl oz/a	B						
	Balanced Flexx	3 fl oz/a	B						
	AATREX	1.5 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N-PAK AMS	2.5 % v/v	B						
10	AUTHORITY MTZ	8 oz/a	A	100 -	0 -	55 cd	27 cd	17 b	20 -
	WEEDMASTER	32 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	N PAK AMS	2.5 % v/v	A						
	ANTHEM MAXX	3.5 fl oz/a	C						
	Balanced Flexx	3 fl oz/a	C						
	AAtrex	1.5 qt/a	C						
	Roundup Powermax	32 fl oz/a	C						
	COC	1 % v/v	C						
	N-PAK AMS	2.5 % v/v	C						
11	HARMONY EXTRA XP	0.7 oz/a	A	100 -	0 -	100 a	96 a	90 a	0 -
	Harmony GT	0.466 oz/a	A						
	Express	0.233 oz/a	A						
	2,4-D Ester	16 fl oz/a	A						
	Roundup Powermax	32 fl oz/a	A						
	N-PAK AMS	2.5 % v/v	A						
	Anthem Maxx	3.5 fl oz/a	B						
	Callisto	4 fl oz/a	B						
	AAtrex	1 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	N-PAK AMS	2.5 % v/v	B						

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 \* Adjusted means  
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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	VERAG	SETFA	AMBTR
Pest Scientific Name	Ranunculus	Veronica agres>	Setaria faberi	Ambrosia trifi>
Pest Name	abo>	Field speedwell	Giant foxtail	Giant ragweed
Crop Code	Smallflower bu>			
BBCH Scale		ZEAMX		ZEAMX
Crop Scientific Name		BCOR		BCOR
Crop Name		Zea mays		Zea mays
Rating Date	Apr-30-2018	May-14-2018	May-14-2018	May-14-2018
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	172 172	186 14	186 14	186 14
Trt-Eval Interval	173 DA-A	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	1 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	-10 DE-1	4 DE-1	4 DE-1	4 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	6*	7*	8*	9*	10*	11*
12	HARMONY EXTRA XP	0.7 oz/a	A		100 -	0 -	100 a	78 a	77 a	0 -
	2,4-D LV ESTER	16 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	N PAK AMS	2.5 % v/v	A							
	ANTHEM MAXX	2 fl oz/a	B							
	HORNET	4 oz/a	B							
	AATREX	1 pt/a	B							
	ROUNDUP POWERMAX	32 fl oz/a	B							
	COC	1 % v/v	B							
	N PAK AMS	2.5 % v/v	B							
13	CRUSHER	1 oz/a	A		100 -	0 -	72 bc	63 ab	60 a	0 -
	ROUNDUP POWERMAX	32 fl oz/a	A							
	WEEDMASTER	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	ANTHEM MAXX	4 fl oz/a	C							
	HORNET	3 oz/a	C							
	AATREX	1 pt/a	C							
	ROUNDUP POWERMAX	32 fl oz/a	C							
	COC	1 % v/v	C							
	N PAK AMS	2.5 % v/v	C							
14	CRUSHER	1 oz/a	A		100 -	0 -	100 a	90 a	88 a	0 -
	ROUNDUP POWERMAX	24 fl oz/a	A							
	N PAK	0.39 % v/v	A							
	CORVUS	5.6 fl oz/a	B							
	ATRAZINE	1 pt/a	B							
	ROUNDUP POWERMAX	24 fl oz/a	B							
	COC	1 % v/v	B							
	N PAK AMS	2.5 % v/v	B							
15	CRUSHER	1 oz/a	A		100 -	0 -	100 a	90 a	87 a	0 -
	ROUNDUP POWERMAX	24 fl oz/a	A							
	N PAK AMS	2.5 % v/v	A							
	ACURON	2 qt/a	B							
	ROUNDUP POWERMAX	24 fl oz/a	B							
	COC	1 % v/v	B							
	N PAK AMS	2.5 % v/v	B							

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 \* Adjusted means  
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## The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed		W Weed		W Weed		W Weed							
Pest Code	RANAB		VERAG		SETFA		AMBTR							
Pest Scientific Name	Ranunculus		Veronica agres>		Setaria faberi		Ambrosia trifi>							
Pest Name	Smallflower bu>		Field speedwell		Giant foxtail		Giant ragweed							
Crop Code	ZEAMX		ZEAMX		ZEAMX		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	Apr-30-2018		May-14-2018		May-14-2018		May-14-2018							
Rating Type	CONTRO		PHYGEN		CONTRO		CONTRO							
Rating Unit	%		%		%		%							
Number of Subsamples	1		1		1		1							
Days After First/Last Applic.	172 172		186 14		186 14		186 14							
Trt-Eval Interval	173 DA-A		14 DA-B		14 DA-B		14 DA-B							
Plant-Eval Interval	1 DP-1		15 DP-1		15 DP-1		15 DP-1							
Days After Emergence	-10 DE-1		4 DE-1		4 DE-1		4 DE-1							
Number of Decimals	0		0		0		0							
Trt Treatment	Rate	Appl	6*		7*		8*		9*		10*		11*	
No. Name	Rate	Unit Code												
16 CRUSHER	1 oz/a	A	100 -		0 -		100 a		98 a		95 a		0 -	
WEEDMASTER	32 fl oz/a	A												
ROUNDUP POWERMAX	24 fl oz/a	A												
COC	1 % v/v	A												
N PAK AMS	2.5 % v/v	A												
ANTHEM MAXX	4 fl oz/a	B												
Callisto	4 fl oz/a	B												
AAtrex	1 qt/a	B												
ROUNDUP POWERMAX	32 fl oz/a	C												
Status	3 oz/a	C												
AATREX	1.5 qt/a	C												
COC	1 % v/v	C												
N PAK AMS	2.5 % v/v	C												
LSD P=.05			.		.		15.6		27.5		22.9		.	
Standard Deviation			0.0		0.0		9.3		16.5		13.7		0.0t	
CV			0.0		0.0		11.4		23.71		21.64		0.0t	
Levene's F			0.00		0.00		2.246		0.485		0.455		0.00	
Levene's Prob(F)			.		.		0.027*		0.931		0.946		.	
Skewness			-3.7325*		.		-1.6102*		-1.0985*		-1.0535*		3.7325*	
Kurtosis			12.4486*		.		1.8006*		-0.0436		-0.4358		12.4486*	
Replicate F			0.000		0.000		1.631		0.742		0.342		0.000	
Replicate Prob(F)			1.0000		1.0000		0.2126		0.4847		0.7133		1.0000	
Treatment F			0.000		0.000		28.660		11.448		18.621		0.000	
Treatment Prob(F)			1.0000		1.0000		0.0001		0.0001		0.0001		1.0000	

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 Due to missing data, the effective replicates used for mean comparisons are: col. 1-19=3  
 \* Adjusted means  
 Could not calculate LSD (% mean diff) for columns 5,6,7,11,20,21 because error mean square = 0.

The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: 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	AMBTR	SETFA	AMBTR	ABUTH	SIDSP
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Sida spinosa
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	velvetleaf	Prickly sida
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	May-30-2018	May-30-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	202 14	202 14	231 43	231 43	231 43	231 43
Trt-Eval Interval	14 DA-B	14 DA-B	59 DA-B	59 DA-B	59 DA-B	59 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1
Days After Emergence	20 DE-1	20 DE-1	49 DE-1	49 DE-1	49 DE-1	49 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	12*	13*	14*	15*	16*	17*
1	UNTREATED				0 c	0 d	0 f	0 b	0 b	0 c
2	AUTHORITY MTZ	14 oz/a	A		100 a	88 abc	95 ab	72 a	97 a	100 a
	Weedmaster	32 fl oz/a	A							
	Roundup Powermax	32 fl oz/a	A							
	COC	1 % v/v	A							
	N-PAK AMS	2.5 % v/v	A							
	Anthem Maxx	4 fl oz/a	C							
	AAtrex	1.5 qt/a	C							
	Roundup Powermax	32 fl oz/a	C							
	COC	1 % v/v	C							
	N PAK AMS	2.5 % v/v	C							
3	Authority MTZ	8 oz/a	A		100 a	82 abc	86 a-d	76 a	95 a	87 ab
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	ANTHEM MAXX	4 fl oz/a	B							
	AATREX	1.5 qt/a	B							
	ROUNDUP POWERMAX	32 fl oz/a	B							
	COC	1 % v/v	B							
	N-PAK AMS	2.5 % v/v	B							
4	AUTHORITY MTZ	8 oz/a	A		86 a	83 abc	76 bcd	77 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A							
	ROUNDUP POWERMAX	32 fl oz/a	A							
	COC	1 % v/v	A							
	N PAK AMS	2.5 % v/v	A							
	Anthem Maxx	4 fl oz/a	B							
	Callisto	4 fl oz/a	B							
	AATREX	1.5 qt/a	B							
	ROUNDUP POWERMAX	32 fl oz/a	B							
	COC	1 % v/v	B							
	N PAK AMS	2.5 % v/v	B							

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 \* Adjusted means  
 Could not calculate LSD (% mean diff) for columns 5,6,7,11,20,21 because error mean square = 0.

## The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: 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	AMBTR	SETFA	AMBTR	ABUTH	SIDSP								
Pest Scientific Name	Setaria faberi Ambrosia trifi>		Setaria Ambrosia trifi>		Abutilon theop>	Sida spinosa								
Pest Name	Giant foxtail Giant ragweed		Giant foxtail Giant ragweed		velvetleaf	Prickly sida								
Crop Code														
BBCH Scale														
Crop Scientific Name														
Crop Name														
Rating Date	May-30-2018	May-30-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018								
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO								
Rating Unit	%	%	%	%	%	%								
Number of Subsamples	1	1	1	1	1	1								
Days After First/Last Applic.	202 14	202 14	231 43	231 43	231 43	231 43								
Trt-Eval Interval	14 DA-B	14 DA-B	59 DA-B	59 DA-B	59 DA-B	59 DA-B								
Plant-Eval Interval	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1								
Days After Emergence	20 DE-1	20 DE-1	49 DE-1	49 DE-1	49 DE-1	49 DE-1								
Number of Decimals	0	0	0	0	0	0								
Trt Treatment	Rate	Appl	12*		13*		14*		15*		16*		17*	
No. Name	Rate	Unit	Code											
5 AUTHORITY MTZ	8 oz/a	A	A	100 a	100 a	99 a	95 a	100 a	100 a					
WEEDMASTER	32 fl oz/a	A	A											
ROUNDUP POWERMAX	32 fl oz/a	A	A											
COC	1 % v/v	A	A											
N PAK AMS	2.5 % v/v	A	A											
Anthem Maxx	4 fl oz/a	B	B											
AATREX	1.5 qt/a	B	B											
Callisto	3 fl oz/a	C	C											
AATREX	1.5 qt/a	C	C											
ROUNDUP POWERMAX	32 fl oz/a	C	C											
COC	1 % v/v	C	C											
N PAK AMS	2.5 % v/v	C	C											
6 Crusher	1 oz/a	A	A	100 a	92 abc	95 ab	89 a	100 a	100 a					
WEEDMASTER	32 fl oz/a	A	A											
ROUNDUP POWERMAX	32 fl oz/a	A	A											
COC	1 % v/v	A	A											
N PAK AMS	2.5 % v/v	A	A											
Anthem Maxx	4 fl oz/a	C	C											
Callisto	3 fl oz/a	C	C											
AATREX	1.5 qt/a	C	C											
ROUNDUP POWERMAX	32 fl oz/a	C	C											
COC	1 % v/v	C	C											
N PAK AMS	2.5 % v/v	C	C											
7 AUTHORITY MTZ	8 oz/a	A	A	89 a	82 abc	71 cd	78 a	93 a	70 b					
WEEDMASTER	32 fl oz/a	A	A											
ROUNDUP POWERMAX	32 fl oz/a	A	A											
COC	1 % v/v	A	A											
N PAK AMS	2.5 % v/v	A	A											
CRUSHER	1 oz/a	B	B											
AAtrex	1.5 qt/a	B	B											
Roundup Powermax	32 fl oz/a	B	B											
COC	1 % v/v	B	B											
N-PAK AMS	2.5 % v/v	B	B											

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## The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 18FALLCORN Location: Trial Year: 2018

Protocol ID: Investigator: 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	AMBTR	SETFA	AMBTR	ABUTH	SIDSP		
Pest Scientific Name	Setaria faberi Ambrosia trifi>		Setaria Ambrosia trifi>		Abutilon theop>	Sida spinosa		
Pest Name	Giant foxtail Giant ragweed		Giant foxtail Giant ragweed		velvetleaf	Prickly sida		
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	May-30-2018	May-30-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	202 14	202 14	231 43	231 43	231 43	231 43		
Trt-Eval Interval	14 DA-B	14 DA-B	59 DA-B	59 DA-B	59 DA-B	59 DA-B		
Plant-Eval Interval	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1		
Days After Emergence	20 DE-1	20 DE-1	49 DE-1	49 DE-1	49 DE-1	49 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	12*	13*	14*	15*	16*	17*
No. Name	Rate Unit Code							
8 CRUSHER	1 oz/a A		100 a	94 abc	91 abc	86 a	95 a	100 a
WEEDMASTER	32 fl oz/a A							
ROUNDUP POWERMAX	32 fl oz/a A							
COC	1 % v/v A							
N PAK AMS	2.5 % v/v A							
Anthem Maxx	3.5 fl oz/a C							
Callisto	3 fl oz/a C							
AATREX	1.5 qt/a C							
ROUNDUP POWERMAX	32 fl oz/a C							
COC	1 % v/v C							
N-PAK AMS	2.5 % v/v C							
9 AUTHORITY MTZ	8 oz/a A		87 a	78 abc	70 d	76 a	95 a	95 a
WEEDMASTER	32 fl oz/a A							
ROUNDUP POWERMAX	32 fl oz/a A							
N PAK AMS	2.5 % v/v A							
ANTHEM MAXX	3.5 fl oz/a B							
Balanced Flexx	3 fl oz/a B							
AATREX	1.5 qt/a B							
ROUNDUP POWERMAX	32 fl oz/a B							
COC	1 % v/v B							
N-PAK AMS	2.5 % v/v B							
10 AUTHORITY MTZ	8 oz/a A		100 a	94 abc	94 ab	81 a	100 a	98 a
WEEDMASTER	32 fl oz/a A							
ROUNDUP POWERMAX	32 fl oz/a A							
N PAK AMS	2.5 % v/v A							
ANTHEM MAXX	3.5 fl oz/a C							
Balanced Flexx	3 fl oz/a C							
AAtrex	1.5 qt/a C							
Roundup Powermax	32 fl oz/a C							
COC	1 % v/v C							
N-PAK AMS	2.5 % v/v C							
11 HARMONY EXTRA XP	0.7 oz/a A		87 a	83 abc	80 a-d	78 a	100 a	83 ab
Harmony GT	0.466 oz/a A							
Express	0.233 oz/a A							
2,4-D Ester	16 fl oz/a A							
Roundup Powermax	32 fl oz/a A							
N-PAK AMS	2.5 % v/v A							
Anthem Maxx	3.5 fl oz/a B							
Callisto	4 fl oz/a B							
AAtrex	1 qt/a B							
ROUNDUP POWERMAX	32 fl oz/a B							
COC	1 % v/v B							
N-PAK AMS	2.5 % v/v B							

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Due to missing data, the effective replicates used for mean comparisons are: col. 1-19=3

\* Adjusted means

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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: 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	AMBTR	SETFA	AMBTR	ABUTH	SIDSP
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Sida spinosa
Pest Name	Giant foxtail	Giant ragweed	Giant foxtail	Giant ragweed	velvetleaf	Prickly sida
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	May-30-2018	May-30-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	202 14	202 14	231 43	231 43	231 43	231 43
Trt-Eval Interval	14 DA-B	14 DA-B	59 DA-B	59 DA-B	59 DA-B	59 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1
Days After Emergence	20 DE-1	20 DE-1	49 DE-1	49 DE-1	49 DE-1	49 DE-1
Number of Decimals	0	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Unit Code	12*	13*	14*	15*	16*	17*
12 HARMONY EXTRA XP	0.7 oz/a	A	50 b	62 c	40 e	63 a	100 a	100 a
2,4-D LV ESTER	16 fl oz/a	A						
ROUNDUP POWERMAX	32 fl oz/a	A						
N PAK AMS	2.5 % v/v	A						
ANTHEM MAXX	2 fl oz/a	B						
HORNET	4 oz/a	B						
AATREX	1 pt/a	B						
ROUNDUP POWERMAX	32 fl oz/a	B						
COC	1 % v/v	B						
N PAK AMS	2.5 % v/v	B						
13 CRUSHER	1 oz/a	A	100 a	99 ab	98 a	94 a	95 a	93 a
ROUNDUP POWERMAX	32 fl oz/a	A						
WEEDMASTER	32 fl oz/a	A						
COC	1 % v/v	A						
N PAK AMS	2.5 % v/v	A						
ANTHEM MAXX	4 fl oz/a	C						
HORNET	3 oz/a	C						
AATREX	1 pt/a	C						
ROUNDUP POWERMAX	32 fl oz/a	C						
COC	1 % v/v	C						
N PAK AMS	2.5 % v/v	C						
14 CRUSHER	1 oz/a	A	88 a	74 bc	73 cd	72 a	92 a	95 a
ROUNDUP POWERMAX	24 fl oz/a	A						
N PAK	0.39 % v/v	A						
CORVUS	5.6 fl oz/a	B						
ATRAZINE	1 pt/a	B						
ROUNDUP POWERMAX	24 fl oz/a	B						
COC	1 % v/v	B						
N PAK AMS	2.5 % v/v	B						
15 CRUSHER	1 oz/a	A	90 a	93 abc	68 d	87 a	97 a	80 ab
ROUNDUP POWERMAX	24 fl oz/a	A						
N PAK AMS	2.5 % v/v	A						
ACURON	2 qt/a	B						
ROUNDUP POWERMAX	24 fl oz/a	B						
COC	1 % v/v	B						
N PAK AMS	2.5 % v/v	B						

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## The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: 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	AMBTR	SETFA	AMBTR	ABUTH	SIDSP		
Pest Scientific Name	Setaria faberi Ambrosia trifi>		Setaria Ambrosia trifi>		Abutilon theop>	Sida spinosa		
Pest Name	Giant foxtail Giant ragweed		Giant foxtail Giant ragweed		velvetleaf	Prickly sida		
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	May-30-2018	May-30-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	202 14	202 14	231 43	231 43	231 43	231 43		
Trt-Eval Interval	14 DA-B	14 DA-B	59 DA-B	59 DA-B	59 DA-B	59 DA-B		
Plant-Eval Interval	31 DP-1	31 DP-1	60 DP-1	60 DP-1	60 DP-1	60 DP-1		
Days After Emergence	20 DE-1	20 DE-1	49 DE-1	49 DE-1	49 DE-1	49 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate	Unit Code	12*	13*	14*	15*	16*	17*
16 CRUSHER	1 oz/a	A	100 a	99 ab	98 a	90 a	100 a	93 a
WEEDMASTER	32 fl oz/a	A						
ROUNDUP POWERMAX	24 fl oz/a	A						
COC	1 % v/v	A						
N PAK AMS	2.5 % v/v	A						
ANTHEM MAXX	4 fl oz/a	B						
Callisto	4 fl oz/a	B						
AAtrex	1 qt/a	B						
ROUNDUP POWERMAX	32 fl oz/a	C						
Status	3 oz/a	C						
AATREX	1.5 qt/a	C						
COC	1 % v/v	C						
N PAK AMS	2.5 % v/v	C						
LSD P=.05			5.5 - 22.8	9.1 - 23.6	13.2	18.5	10.2	14.1
Standard Deviation			8.1t	9.5t	7.9	11.1	6.1	8.4
CV			11.06t	14.22t	10.28	14.62	6.72	9.66
Levene's F			0.884	0.465	0.817	0.684	0.608	1.041
Levene's Prob(F)			0.587	0.942	0.652	0.78	0.847	0.443
Skewness			-1.9037*	-1.8666*	-1.7276*	-2.2033*	-3.4179*	-2.7471*
Kurtosis			3.566*	4.0415*	2.6872*	5.1187*	10.8301*	7.266*
Replicate F			0.772	0.499	5.284	0.969	0.187	0.022
Replicate Prob(F)			0.4708	0.6118	0.0108	0.3909	0.8304	0.9783
Treatment F			25.061	13.871	31.994	11.815	47.961	26.112
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	IPOHE	CHEAL
Pest Scientific Name	Ipomoea hederata>	Chenopodium al>
Pest Name	ivy-leaf morri>	common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1 1
Days After First/Last Applic.	231 43	231 43
Trt-Eval Interval	59 DA-B	59 DA-B
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	49 DE-1	49 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	18*	19*	20 21
1	UNTREATED				0 b		0 b
2	AUTHORITY MTZ	14 oz/a	A		100 a		100 a
	Weedmaster	32 fl oz/a	A				
	Roundup Powermax	32 fl oz/a	A				
	COC	1 % v/v	A				
	N-PAK AMS	2.5 % v/v	A				
	Anthem Maxx	4 fl oz/a	C				
	AAtrex	1.5 qt/a	C				
	Roundup Powermax	32 fl oz/a	C				
	COC	1 % v/v	C				
	N PAK AMS	2.5 % v/v	C				
3	Authority MTZ	8 oz/a	A		100 a		100 a
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	ANTHEM MAXX	4 fl oz/a	B				
	AATREX	1.5 qt/a	B				
	ROUNDUP POWERMAX	32 fl oz/a	B				
	COC	1 % v/v	B				
	N-PAK AMS	2.5 % v/v	B				
4	AUTHORITY MTZ	8 oz/a	A		100 a		100 a
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	Anthem Maxx	4 fl oz/a	B				
	Callisto	4 fl oz/a	B				
	AATREX	1.5 qt/a	B				
	ROUNDUP POWERMAX	32 fl oz/a	B				
	COC	1 % v/v	B				
	N PAK AMS	2.5 % v/v	B				

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## The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	IPOHE	CHEAL
Pest Scientific Name	Ipomoea hederata>	Chenopodium al>
Pest Name	ivy-leaf morni>	common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1 1
Days After First/Last Applic.	231 43	231 43
Trt-Eval Interval	59 DA-B	59 DA-B
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	49 DE-1	49 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	18*	19*	20 21
5	AUTHORITY MTZ	8 oz/a	A		93 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	Anthem Maxx	4 fl oz/a	B				
	AATREX	1.5 qt/a	B				
	Callisto	3 fl oz/a	C				
	AATREX	1.5 qt/a	C				
	ROUNDUP POWERMAX	32 fl oz/a	C				
	COC	1 % v/v	C				
	N PAK AMS	2.5 % v/v	C				
6	Crusher	1 oz/a	A		87 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	Anthem Maxx	4 fl oz/a	C				
	Callisto	3 fl oz/a	C				
	AATREX	1.5 qt/a	C				
	ROUNDUP POWERMAX	32 fl oz/a	C				
	COC	1 % v/v	C				
	N PAK AMS	2.5 % v/v	C				
7	AUTHORITY MTZ	8 oz/a	A		73 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	CRUSHER	1 oz/a	B				
	AAtrex	1.5 qt/a	B				
	Roundup Powermax	32 fl oz/a	B				
	COC	1 % v/v	B				
	N-PAK AMS	2.5 % v/v	B				

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The Ohio State University

2018/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/  
 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	IPOHE	CHEAL
Pest Scientific Name	Ipomoea hederata>	Chenopodium al>
Pest Name	ivy-leaf morni>	common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1 1
Days After First/Last Applic.	231 43	231 43
Trt-Eval Interval	59 DA-B	59 DA-B
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	49 DE-1	49 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	18*	19*	20 21
8	CRUSHER	1 oz/a	A		93 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	Anthem Maxx	3.5 fl oz/a	C				
	Callisto	3 fl oz/a	C				
	AATREX	1.5 qt/a	C				
	ROUNDUP POWERMAX	32 fl oz/a	C				
	COC	1 % v/v	C				
	N-PAK AMS	2.5 % v/v	C				
9	AUTHORITY MTZ	8 oz/a	A		100 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	N PAK AMS	2.5 % v/v	A				
	ANTHEM MAXX	3.5 fl oz/a	B				
	Balanced Flexx	3 fl oz/a	B				
	AATREX	1.5 qt/a	B				
	ROUNDUP POWERMAX	32 fl oz/a	B				
	COC	1 % v/v	B				
	N-PAK AMS	2.5 % v/v	B				
10	AUTHORITY MTZ	8 oz/a	A		93 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	32 fl oz/a	A				
	N PAK AMS	2.5 % v/v	A				
	ANTHEM MAXX	3.5 fl oz/a	C				
	Balanced Flexx	3 fl oz/a	C				
	AAAtrex	1.5 qt/a	C				
	Roundup Powermax	32 fl oz/a	C				
	COC	1 % v/v	C				
	N-PAK AMS	2.5 % v/v	C				
11	HARMONY EXTRA XP	0.7 oz/a	A		67 a	100 a	
	Harmony GT	0.466 oz/a	A				
	Express	0.233 oz/a	A				
	2,4-D Ester	16 fl oz/a	A				
	Roundup Powermax	32 fl oz/a	A				
	N-PAK AMS	2.5 % v/v	A				
	Anthem Maxx	3.5 fl oz/a	B				
	Callisto	4 fl oz/a	B				
	AAAtrex	1 qt/a	B				
	ROUNDUP POWERMAX	32 fl oz/a	B				
	COC	1 % v/v	B				
	N-PAK AMS	2.5 % v/v	B				

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 Protocol ID: Investigator: Dr. Mark M. Loux  
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Pest Type	W Weed	W Weed
Pest Code	IPOHE	CHEAL
Pest Scientific Name	Ipomoea hederata>	Chenopodium al>
Pest Name	ivy-leaf morni>	common lambsqu>
Crop Code		
BBCH Scale		
Crop Scientific Name		
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Rating Date	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1 1
Days After First/Last Applic.	231 43	231 43
Trt-Eval Interval	59 DA-B	59 DA-B
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	49 DE-1	49 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	18*	19*	20 21
12	HARMONY EXTRA XP	0.7 oz/a	A	A	87 a	95 a	
	2,4-D LV ESTER	16 fl oz/a	A	A			
	ROUNDUP POWERMAX	32 fl oz/a	A	A			
	N PAK AMS	2.5 % v/v	A	A			
	ANTHEM MAXX	2 fl oz/a	B	B			
	HORNET	4 oz/a	B	B			
	AATREX	1 pt/a	B	B			
	ROUNDUP POWERMAX	32 fl oz/a	B	B			
	COC	1 % v/v	B	B			
	N PAK AMS	2.5 % v/v	B	B			
13	CRUSHER	1 oz/a	A	A	80 a	100 a	
	ROUNDUP POWERMAX	32 fl oz/a	A	A			
	WEEDMASTER	32 fl oz/a	A	A			
	COC	1 % v/v	A	A			
	N PAK AMS	2.5 % v/v	A	A			
	ANTHEM MAXX	4 fl oz/a	C	C			
	HORNET	3 oz/a	C	C			
	AATREX	1 pt/a	C	C			
	ROUNDUP POWERMAX	32 fl oz/a	C	C			
	COC	1 % v/v	C	C			
	N PAK AMS	2.5 % v/v	C	C			
14	CRUSHER	1 oz/a	A	A	88 a	100 a	
	ROUNDUP POWERMAX	24 fl oz/a	A	A			
	N PAK	0.39 % v/v	A	A			
	CORVUS	5.6 fl oz/a	B	B			
	ATRAZINE	1 pt/a	B	B			
	ROUNDUP POWERMAX	24 fl oz/a	B	B			
	COC	1 % v/v	B	B			
	N PAK AMS	2.5 % v/v	B	B			
15	CRUSHER	1 oz/a	A	A	78 a	100 a	
	ROUNDUP POWERMAX	24 fl oz/a	A	A			
	N PAK AMS	2.5 % v/v	A	A			
	ACURON	2 qt/a	B	B			
	ROUNDUP POWERMAX	24 fl oz/a	B	B			
	COC	1 % v/v	B	B			
	N PAK AMS	2.5 % v/v	B	B			

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 Trial ID: 18FALLCORN Location: Trial Year: 2018  
 Protocol ID: Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
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Pest Type	W Weed	W Weed
Pest Code	IPOHE	CHEAL
Pest Scientific Name	Ipomoea hederata>	Chenopodium al>
Pest Name	ivy-leaf morni>	common lambsqu>
Crop Code		
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Crop Scientific Name		
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Rating Date	Jun-28-2018	Jun-28-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1 1
Days After First/Last Applic.	231 43	231 43
Trt-Eval Interval	59 DA-B	59 DA-B
Plant-Eval Interval	60 DP-1	60 DP-1
Days After Emergence	49 DE-1	49 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	18*	19*	20 21
16	CRUSHER	1 oz/a	A		77 a	100 a	
	WEEDMASTER	32 fl oz/a	A				
	ROUNDUP POWERMAX	24 fl oz/a	A				
	COC	1 % v/v	A				
	N PAK AMS	2.5 % v/v	A				
	ANTHEM MAXX	4 fl oz/a	B				
	Callisto	4 fl oz/a	B				
	AAtrex	1 qt/a	B				
	ROUNDUP POWERMAX	32 fl oz/a	C				
	Status	3 oz/a	C				
	AATREX	1.5 qt/a	C				
	COC	1 % v/v	C				
	N PAK AMS	2.5 % v/v	C				
	LSD P=.05				27.7	3.6	. .
	Standard Deviation				16.6	2.2	. .
	CV				20.15	2.32	. .
	Levene's F				0.612	1.00	. .
	Levene's Prob(F)				0.843	0.479	. .
	Skewness				-1.7911*	-3.6873*	. .
	Kurtosis				2.6867*	12.2062*	. .
	Replicate F				3.667	1.000	
	Replicate Prob(F)				0.0376	0.3798	
	Treatment F				6.432	398.333	
	Treatment Prob(F)				0.0001	0.0001	

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 Trial ID: 18FALLCORN      Location:      Trial Year: 2018  
 Protocol ID:      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director:  
                          Sponsor Contact:

Pest Type

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

Pest Code

STEME, Stellaria media, Common chickweed = US  
 LAMPU, Lamium purpureum, Purple deadnettle = US  
 VERAG, Veronica agrestis, Field speedwell = US  
 ERYRE, Erysimum repandum, Bushy wallflower = US  
 DRBSS, Draba sp., Whitlow-grass = US  
 RANAB, Ranunculus abortivus, Smallflower buttercup = US  
 SETFA, Setaria faberi, Giant foxtail = US  
 AMBTR, Ambrosia trifida, Giant ragweed = US  
 ABUTH, Abutilon theophrasti, velvetleaf = US  
 SIDSP, Sida spinosa, Prickly sida = US  
 IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US  
 CHEAL, Chenopodium album, common lambsquarters = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

1 DP-1 = 1 ZEAMX Apr-29-2018  
 15 DP-1 = 1 ZEAMX Apr-29-2018  
 31 DP-1 = 1 ZEAMX Apr-29-2018  
 60 DP-1 = 1 ZEAMX Apr-29-2018