

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN Location: Western Branch F-9 E Trial Year: 2016
 Protocol ID: 17FALLCORN Investigator: Dr. Mark M. Loux
 Project ID: SULF COR 16 JPR Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

General Trial Information

Study Director: Anthony Dobbels
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 °: 39.85868 N
Longitude of LL Corner °: 83.67042 W
Altitude of LL Corner, Unit: 1072.00 FT
Conducted Under GLP: No
Conducted Under GEP: No
No.

Contacts

Study Director: Anthony Dobbels
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

Cooperator/Landowner

Other Contacts

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: P0825AM
Description: Pioneer RR / LL

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

Planting Date: 4-26-2017
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-12-2017

Soil Temperature, Unit: 57 F
Soil Moisture: 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:** ERICA *Erigeron canadensis*
Common Name: Canada horseweed

Pest 3 Type: W **Code:** DRBSS *Draba* sp.
Common Name: Whitlow-grass

Pest 4 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Blowball

Pest 5 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 6 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 16
Replications: 3

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

No. Previous Crop Previous Pesticides Year
 1. WHEAT Harmony Xtra 2016

Maintenance

No.

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Soil Description

Description Name: F-9 East

% OM: 2.8

pH: 6.4

CEC: 19.6

Texture: SICL silty clay loam

Soil Name: Kokomo

Fert. Level: G good

Soil Drainage: G good

Additional Measured Elements

Application Description

	A	B	C	D
Application Date:	11-10-2016	4-26-2017	5-23-2017	6-16-2017
Appl. Start Time:	10:00 AM	9:00 AM	10:00 AM	9:00 AM
Appl. Stop Time:	10:20 AM	9:20 AM	10:20 AM	9:15 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	PRE	EPO	POST
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	Dobbels	Dobbels	Dobbels	Ackley
Air Temperature, Unit:	45 F	64 F	63 F	77 F
% Relative Humidity:	79	78	64	76
Wind Velocity, Unit:	9 MPH	9 MPH	7 MPH	4 MPH
Wind Direction:	SW	SSE	ESE	SW
Dew Presence (Y/N):	N no	N no	N no	Y yes
Soil Temperature, Unit:	41 F	57 F	58 F	70 F
Soil Moisture:	DRY	MOIST	WET	WET
% Cloud Cover:	0	10	3	30
Next Moisture Occurred On:	11-19-2016	4-27-2017	5-25-2017	6-18-2017
Time to Next Moisture, Unit:	9 DAY	1 DAY	2 DAY	2 DAY

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH	BBCH
Stage Majority, Percent:			12 100	16 100
Height, Unit:			3.5 IN	20 IN
Height Minimum, Maximum:			3 4	

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Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	16	80		
Stage Minimum, Percent:	16	80		
Stage Maximum, Percent:	18	20		
Diameter, Unit:	0.5	IN		
Height, Unit:	0.25	IN		
Height Minimum, Maximum:	0.125	0.25		
Density, Unit:	5	M2		

Pest 2 Code, Type, Scale:	ERICA W	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	16	80	18	80
Stage Minimum, Percent:	16	80		
Stage Maximum, Percent:	18	20		
Diameter, Unit:	0.125	IN		
Height, Unit:	0.125	IN	1.5	IN
Height Minimum, Maximum:	0.1	0.125	1	2
Density, Unit:	2	M2	2	M2

Pest 3 Code, Type, Scale:	DRBSS W	DRBSS W	DRBSS W	DRBSS W
Stage Majority, Percent:	16	80		
Stage Minimum, Percent:	16	80		
Stage Maximum, Percent:	18	20		
Diameter, Unit:	0.125	IN		
Height, Unit:	0.125	IN		
Height Minimum, Maximum:	0.1	0.125		
Density, Unit:	2	M2		

Pest 4 Code, Type, Scale:	TAROF W	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:		65	100	
Diameter, Unit:		4	IN	
Height, Unit:		2	IN	
Height Minimum, Maximum:		2	3	
Density, Unit:		1	M2	

Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	12	80	40	100
Stage Minimum, Percent:	12	80		
Stage Maximum, Percent:	14	20		
Diameter, Unit:	2	IN		
Height, Unit:	3	11	10	IN
Height Minimum, Maximum:	2	3	8	12
Density, Unit:	8	M2	8	M2

Pest 6 Code, Type, Scale:	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:			12	100
Height, Unit:			3	IN
Height Minimum, Maximum:			2	4
Density, Unit:			96	M2

Application Equipment

	A	B	C	D
Appl. Equipment:	10' AI XR	10' AI XR	10' AI XR	10' AI XR
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	46	PSI	46	PSI
Nozzle Type:	AI XR	AI XR	AI XR	AI XR
Nozzle Size:	110015	110015	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 WATER WATER

Spray Volume, Unit: 15 GPA 15 GPA 15 GPA 15 GPA
 Mix Size, Unit: 2 Liters 2 Liters 2 Liters 2 Liters

Propellant: CO2 CO2 CO2 CO2

Trt No Treatment Application Comment

Date By Notes

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No. Date By Deviations

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	ERICA	RANAB	TRZAW	TAROF
Pest Scientific Name	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>	Taraxacum offi>
Pest Name	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat	Blowball
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	4-26-2017	4-26-2017	4-26-2017	4-26-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	167 167	167 167	167 167	167 167
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*
No. Name	Rate Unit	Code					
1 UNTREATED			0 b	0 b	0 b	0 b	0 c
1							
2 AUTHORITY MTZ	14 oz/a	A	100 a	100 a	100 a	100 a	87 ab
2 WEEDMASTER	32 fl oz/a	A					
2 COC	1 % v/v	A					
2 AMMONIUM SULFATE	2.5 % v/v	A					
2 ANTHEM MAXX	4 fl oz/a	C					
2 AATREX	1.5 qt/a	C					
2 ROUNDUP POWERMAX	32 fl oz/a	C					
2 COC	1 % v/v	C					
2 AMMONIUM SULFATE	2.5 % v/v	C					
2							
3 AUTHORITY MTZ	8 oz/a	A	100 a	100 a	100 a	100 a	70 b
3 WEEDMASTER	32 fl oz/a	A					
3 COC	1 % v/v	A					
3 AMMONIUM SULFATE	2.5 % v/v	A					
3 ANTHEM MAXX	4 fl oz/a	B					
3 AATREX	1.5 qt/a	B					
3 ROUNDUP POWERMAX	32 fl oz/a	B					
3 COC	1 % v/v	B					
3 AMMONIUM SULFATE	2.5 % v/v	B					
3							
4 AUTHORITY MTZ	8 oz/a	A	100 a	100 a	100 a	100 a	93 ab
4 2,4-D LV ESTER	16 fl oz/a	A					
4 ROUNDUP POWERMAX	32 fl oz/a	A					
4 AMMONIUM SULFATE	2.5 % v/v	A					
4 RESICORE	2.5 qt/a	B					
4 ROUNDUP POWERMAX	32 fl oz/a	B					
4 COC	1 % v/v	B					
4 AMMONIUM SULFATE	2.5 % v/v	B					
4							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	ERICA	RANAB	TRZAW	TAROF
Pest Scientific Name	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>	Taraxacum offi>

Pest Name	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat	Blowball
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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	4-26-2017	4-26-2017	4-26-2017	4-26-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	167 167	167 167	167 167	167 167
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	1*	2*	3*	4*	5*
5	AUTHORITY MTZ	8 oz/a	A	100 a	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A					
	ROUNDUP POWERMAX	32 fl oz/a	A					
	COC	1 % v/v	A					
	AMMONIUM SULFATE	2.5 % v/v	A					
	ANTHEM MAXX	3.5 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					
6	AUTHORITY MTZ	8 oz/a	A	100 a	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A					
	ROUNDUP POWERMAX	32 fl oz/a	A					
	COC	1 % v/v	A					
	AMMONIUM SULFATE	2.5 % v/v	A					
	ANTHEM MAXX	3.5 fl oz/a	C					
	CALLISTO	4 fl oz/a	C					
	AATREX	1.5 qt/a	C					
	ROUNDUP POWERMAX	32 fl oz/a	C					
	COC	1 % v/v	C					
7	CRUSHER	1 oz/a	A	100 a	100 a	100 a	100 a	95 ab
	WEEDMASTER	32 fl oz/a	A					
	ROUNDUP POWERMAX	32 fl oz/a	A					
	COC	1 % v/v	A					
	AMMONIUM SULFATE	2.5 % v/v	A					
	ANTHEM MAXX	4 fl oz/a	B					
	AATREX	1 qt/a	B					
	COC	1 % v/v	B					
	AMMONIUM SULFATE	2.5 % v/v	B					
	SOLSTICE	2.5 fl oz/a	D					
	AATREX	1 qt/a	D					
	ROUNDUP POWERMAX	32 fl oz/a	D					
	COC	1 % v/v	D					
	AMMONIUM SULFATE	2.5 % v/v	D					

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Pest Code	LAMPU	ERICA	RANAB	TRZAW	TAROF
Pest Scientific Name	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>	Taraxacum offi>

Pest Name	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat	Blowball
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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	4-26-2017	4-26-2017	4-26-2017	4-26-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	167 167	167 167	167 167	167 167
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	1*	2*	3*	4*	5*
8	CRUSHER	1 oz/a	A	100 a	100 a	100 a	100 a	80 ab
8	WEEDMASTER	32 fl oz/a	A					
8	ROUNDUP POWERMAX	32 fl oz/a	A					
8	COC	1 % v/v	A					
8	AMMONIUM SULFATE	2.5 % v/v	A					
8	ANTHEM MAXX	2 fl oz/a	C					
8	CALLISTO	3 oz/a	C					
8	AATREX	1 qt/a	C					
8	ROUNDUP POWERMAX	32 fl oz/a	C					
8	COC	1 % v/v	C					
8	AMMONIUM SULFATE	2.5 % v/v						
9	AUTHORITY MTZ	8 oz/a	A	100 a	100 a	100 a	100 a	100 a
9	WEEDMASTER	32 fl oz/a	A					
9	ROUNDUP POWERMAX	32 fl oz/a	A					
9	AMMONIUM SULFATE	2.5 % v/v	A					
9	ANTHEM MAXX	3.5 fl oz/a	B					
9	BALANCE FLEXX	3 oz/a	B					
9	AATREX	1.5 qt/a	B					
9	ROUNDUP POWERMAX	32 fl oz/a	B					
9	COC	1 % v/v	B					
9	AMMONIUM SULFATE	2.5 % v/v	B					
10	AUTHORITY MTZ	8 oz/a	A	100 a	100 a	100 a	100 a	93 ab
10	WEEDMASTER	32 fl oz/a	A					
10	ROUNDUP POWERMAX	32 fl oz/a	A					
10	AMMONIUM SULFATE	2.5 % v/v	A					
10	ANTHEM MAXX	3.5 fl oz/a	C					
10	BALANCE FLEXX	3 oz/a	C					
10	AATREX	1.5 qt/a	C					
10	ROUNDUP POWERMAX	32 fl oz/a	C					
10	COC	1 % v/v	C					
10	AMMONIUM SULFATE	2.5 % v/v	C					
11	HARMONY EXTRA XP	0.7 oz/a	A	100 a	100 a	100 a	100 a	93 ab
11	2,4-D LV ESTER	16 fl oz/a	A					
11	ROUNDUP POWERMAX	32 fl oz/a	A					
11	AMMONIUM SULFATE	2.5 % v/v	A					
11	ANTHEM MAXX	4 fl oz/a	B					
11	CALLISTO	4 fl oz/a	B					
11	AATREX	1 qt/a	B					
11	ROUNDUP POWERMAX	32 fl oz/a	B					
11	COC	1 % v/v	B					
11	AMMONIUM SULFATE	2.5 % v/v	B					

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Pest Code	LAMPU	ERICA	RANAB	TRZAW	TAROF
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Pest Name	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat	Blowball
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BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	4-26-2017	4-26-2017	4-26-2017	4-26-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	167 167	167 167	167 167	167 167
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Code	1*	2*	3*	4*	5*
12 HARMONY EXTRA XP	0.7 oz/a	A	100 a	100 a	100 a	100 a	73 ab
12 2,4-D LV ESTER	16 fl oz/a	A					
12 ROUNDUP POWERMAX	32 fl oz/a	A					
12 AMMONIUM SULFATE	2.5 % v/v	A					
12 ANTHEM MAXX	2 fl oz/a	C					
12 SOLSTICE	2.5 fl oz/a	C					
12 AATREX	1 pt/a	C					
12 ROUNDUP POWERMAX	32 fl oz/a	C					
12 COC	1 % v/v	C					
12 AMMONIUM SULFATE	2.5 % v/v	C					
13 WEEDMASTER	32 fl oz/a	A	100 a	100 a	100 a	100 a	80 ab
13 ROUNDUP POWERMAX	32 fl oz/a	A					
13 COC	1 % v/v	A					
13 AMMONIUM SULFATE	2.5 % v/v	A					
13 ANTHEM MAXX	4 fl oz/a	C					
13 HORNET	4 oz/a	C					
13 AATREX	1.5 qt/a	C					
13 ROUNDUP POWERMAX	32 fl oz/a	C					
13 COC	1 % v/v	C					
13 AMMONIUM SULFATE	2.5 % v/v	C					
13							
14 CRUSHER	1 oz/a	A	100 a	100 a	100 a	100 a	100 a
14 ROUNDUP POWERMAX	24 fl oz/a	A					
14 WEEDMASTER	12 fl oz/a	A					
14 CORVUS	5.6 fl oz/a	B					
14 ATRAZINE	1 qt/a	B					
14 ROUNDUP POWERMAX	32 fl oz/a	B					
14 COC	1 % v/v	B					
14 AMMONIUM SULFATE	2.5 % v/v	B					
14							
15 AUTHORITY MTZ	14 oz/a	A	100 a	100 a	100 a	100 a	87 ab
15 WEEDMASTER	32 fl oz/a	A					
15 COC	1 % v/v	A					
15 AMMONIUM SULFATE	2.5 % v/v	A					
15 ACURON	2 qt/a	B					
15 ROUNDUP POWERMAX	32 fl oz/a	B					
15 COC	1 % v/v	B					
15 AMMONIUM SULFATE	2.5 % v/v	B					
15							

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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	4-26-2017	4-26-2017	4-26-2017	4-26-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	167 167	167 167	167 167	167 167
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	1*	2*	3*	4*	5*
16	AUTHORITY MTZ	8 oz/a	A		100 a	100 a	100 a	100 a	90 ab
16	CRUSHER	1 oz/a	A						
16	WEEDMASTER	32 fl oz/a	A						
16	ROUNDUP POWERMAX	24 fl oz/a	A						
16	COC	1 % v/v	A						
16	AMMONIUM SULFATE	2.5 % v/v	A						
16	ANTHEM FLEX	4.5 fl oz/a	B						
16	AATREX	1.5 qt/a	B						
16	ROUNDUP POWERMAX	32 fl oz/a	B						
16	COC	1 % v/v	B						
16	AMMONIUM SULFATE	2.5 % v/v	B						

LSD P=.05					28.8
Standard Deviation	0.0	0.0	0.0	0.0	17.3
CV	0.0	0.0	0.0	0.0	20.62
Bartlett's X2	0.0	0.0	0.0	0.0	10.642
P(Bartlett's X2)					0.386
Skewness	-3.7325*	-3.7325*	-3.7325*	-3.7325*	-1.9763*
Kurtosis	12.4486*	12.4486*	12.4486*	12.4486*	3.2537*
Replicate F	0.000	0.000	0.000	0.000	1.888
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000	0.1689
Treatment F	0.000	0.000	0.000	0.000	5.922
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000	0.0001

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	LAMPU	ERICA	RANAB	TRZAW
Pest Scientific Name	Ambrosia trifi>	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>
Pest Name	Giant ragweed	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat

Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	5-9-2017	5-9-2017	5-9-2017	5-9-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	180 13	180 13	180 13	180 13
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	-16 DE-1	-3 DE-1	-3 DE-1	-3 DE-1	-3 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	6*	7*	8*	9*	10*
1	UNTREATED				0 e	0 b	0 b	0 b	0 b
2	AUTHORITY MTZ	14 oz/a	A		73 ab	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A						
	COC	1 % v/v	A						
	AMMONIUM SULFATE	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						
	AMMONIUM SULFATE	2.5 % v/v	C						
3	AUTHORITY MTZ	8 oz/a	A		65 abc	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A						
	COC	1 % v/v	A						
	AMMONIUM SULFATE	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						
	AMMONIUM SULFATE	2.5 % v/v	B						
4	AUTHORITY MTZ	8 oz/a	A		67 abc	100 a	100 a	100 a	100 a
	2,4-D LV ESTER	16 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	AMMONIUM SULFATE	2.5 % v/v	A						
	RESICORE	2.5 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	AMMONIUM SULFATE	2.5 % v/v	B						

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	LAMPU	ERICA	RANAB	TRZAW
Pest Scientific Name	Ambrosia trifi>	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>

Pest Name	Giant ragweed	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat
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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	5-9-2017	5-9-2017	5-9-2017	5-9-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	180 13	180 13	180 13	180 13
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	-16 DE-1	-3 DE-1	-3 DE-1	-3 DE-1	-3 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	6*	7*	8*	9*	10*
5	AUTHORITY MTZ	8 oz/a	A	53 a-d	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A					
	ROUNDUP POWERMAX	32 fl oz/a	A					
	COC	1 % v/v	A					
	AMMONIUM SULFATE	2.5 % v/v	A					
	ANTHEM MAXX	3.5 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					
6	AUTHORITY MTZ	8 oz/a	A	53 a-d	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A					
	ROUNDUP POWERMAX	32 fl oz/a	A					
	COC	1 % v/v	A					
	AMMONIUM SULFATE	2.5 % v/v	A					
	ANTHEM MAXX	3.5 fl oz/a	C					
	CALLISTO	4 fl oz/a	C					
	AATREX	1.5 qt/a	C					
	ROUNDUP POWERMAX	32 fl oz/a	C					
	COC	1 % v/v	C					
7	CRUSHER	1 oz/a	A	62 abc	100 a	100 a	100 a	100 a
	WEEDMASTER	32 fl oz/a	A					
	ROUNDUP POWERMAX	32 fl oz/a	A					
	COC	1 % v/v	A					
	AMMONIUM SULFATE	2.5 % v/v	A					
	ANTHEM MAXX	4 fl oz/a	B					
	AATREX	1 qt/a	B					
	COC	1 % v/v	B					
	AMMONIUM SULFATE	2.5 % v/v	B					
	SOLSTICE	2.5 fl oz/a	D					
	AATREX	1 qt/a	D					
	ROUNDUP POWERMAX	32 fl oz/a	D					
	COC	1 % v/v	D					
	AMMONIUM SULFATE	2.5 % v/v	D					

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	LAMPU	ERICA	RANAB	TRZAW
Pest Scientific Name	Ambrosia trifi>	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>

Pest Name	Giant ragweed	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat
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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	5-9-2017	5-9-2017	5-9-2017	5-9-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	180 13	180 13	180 13	180 13
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	-16 DE-1	-3 DE-1	-3 DE-1	-3 DE-1	-3 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	6*	7*	8*	9*	10*
8	CRUSHER	1 oz/a	A	67 abc	100 a	100 a	100 a	100 a
8	WEEDMASTER	32 fl oz/a	A					
8	ROUNDUP POWERMAX	32 fl oz/a	A					
8	COC	1 % v/v	A					
8	AMMONIUM SULFATE	2.5 % v/v	A					
8	ANTHEM MAXX	2 fl oz/a	C					
8	CALLISTO	3 oz/a	C					
8	AATREX	1 qt/a	C					
8	ROUNDUP POWERMAX	32 fl oz/a	C					
8	COC	1 % v/v	C					
8	AMMONIUM SULFATE	2.5 % v/v						
9	AUTHORITY MTZ	8 oz/a	A	50 bcd	100 a	100 a	100 a	100 a
9	WEEDMASTER	32 fl oz/a	A					
9	ROUNDUP POWERMAX	32 fl oz/a	A					
9	AMMONIUM SULFATE	2.5 % v/v	A					
9	ANTHEM MAXX	3.5 fl oz/a	B					
9	BALANCE FLEXX	3 oz/a	B					
9	AATREX	1.5 qt/a	B					
9	ROUNDUP POWERMAX	32 fl oz/a	B					
9	COC	1 % v/v	B					
9	AMMONIUM SULFATE	2.5 % v/v	B					
10	AUTHORITY MTZ	8 oz/a	A	70 abc	100 a	100 a	100 a	100 a
10	WEEDMASTER	32 fl oz/a	A					
10	ROUNDUP POWERMAX	32 fl oz/a	A					
10	AMMONIUM SULFATE	2.5 % v/v	A					
10	ANTHEM MAXX	3.5 fl oz/a	C					
10	BALANCE FLEXX	3 oz/a	C					
10	AATREX	1.5 qt/a	C					
10	ROUNDUP POWERMAX	32 fl oz/a	C					
10	COC	1 % v/v	C					
10	AMMONIUM SULFATE	2.5 % v/v	C					
11	HARMONY EXTRA XP	0.7 oz/a	A	37 d	100 a	100 a	100 a	100 a
11	2,4-D LV ESTER	16 fl oz/a	A					
11	ROUNDUP POWERMAX	32 fl oz/a	A					
11	AMMONIUM SULFATE	2.5 % v/v	A					
11	ANTHEM MAXX	4 fl oz/a	B					
11	CALLISTO	4 fl oz/a	B					
11	AATREX	1 qt/a	B					
11	ROUNDUP POWERMAX	32 fl oz/a	B					
11	COC	1 % v/v	B					
11	AMMONIUM SULFATE	2.5 % v/v	B					

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	LAMPU	ERICA	RANAB	TRZAW
Pest Scientific Name	Ambrosia trif>	Lamium purpure>	Erigeron canad>	Ranunculus abo>	Triticum aesti>

Pest Name	Giant ragweed	Purple deadnet>	Canada horsewe>	Smallflower bu>	Winter wheat
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Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4-26-2017	5-9-2017	5-9-2017	5-9-2017	5-9-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	167 167	180 13	180 13	180 13	180 13
Trt-Eval Interval	167 DA-A	167 DA-A	167 DA-A	167 DA-A	167 DA-A
Plant-Eval Interval	0 DP-1	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	-16 DE-1	-3 DE-1	-3 DE-1	-3 DE-1	-3 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	6*	7*	8*	9*	10*
16	AUTHORITY MTZ	8 oz/a	A		53 a-d	100 a	100 a	100 a	100 a
16	CRUSHER	1 oz/a	A						
16	WEEDMASTER	32 fl oz/a	A						
16	ROUNDUP POWERMAX	24 fl oz/a	A						
16	COC	1 % v/v	A						
16	AMMONIUM SULFATE	2.5 % v/v	A						
16	ANTHEM FLEX	4.5 fl oz/a	B						
16	AATREX	1.5 qt/a	B						
16	ROUNDUP POWERMAX	32 fl oz/a	B						
16	COC	1 % v/v	B						
16	AMMONIUM SULFATE	2.5 % v/v	B						

LSD P=.05	25.0
Standard Deviation	15.0	0.0	0.0	0.0	0.0
CV	27.85	0.0	0.0	0.0	0.0
Bartlett's X2	12.271	0.0	0.0	0.0	0.0
P(Bartlett's X2)	0.585
Skewness	-0.7764*	-3.7325*	-3.7325*	-3.7325*	-3.7325*
Kurtosis	0.9594	12.4486*	12.4486*	12.4486*	12.4486*
Replicate F	2.260	0.000	0.000	0.000	0.000
Replicate Prob(F)	0.1219	1.0000	1.0000	1.0000	1.0000
Treatment F	4.684	0.000	0.000	0.000	0.000
Treatment Prob(F)	0.0002	1.0000	1.0000	1.0000	1.0000

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	AMBTR	SETFA	AMBTR	ERICA
Pest Scientific Name	Taraxacum offi>	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Erigeron canad>
Pest Name	Blowball	Giant ragweed	Giant foxtail	Giant Canada horsewe>	ragweed
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date	5-9-2017	5-9-2017	5-24-2017	5-24-2017	5-24-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 13	180 13	195 1	195 1	195 1
Trt-Eval Interval	13 DA-B	13 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	-3 DE-1	-3 DE-1	12 DE-1	12 DE-1	12 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate	Appl Code	11*	12*	13*	14*	15*	16*
5 AUTHORITY MTZ	8 oz/a	A	92 a	100 a	0 -	100 a	93 a	100 a
5 WEEDMASTER	32 fl oz/a	A						
5 ROUNDUP POWERMAX	32 fl oz/a	A						
5 COC	1 % v/v	A						
5 AMMONIUM SULFATE	2.5 % v/v	A						
5 ANTHEM MAXX	3.5 fl oz/a	B						
5 CALLISTO	4 fl oz/a	B						
5 AATREX	1.5 qt/a	B						
5 ROUNDUP POWERMAX	32 fl oz/a	B						
5 COC	1 % v/v	B						
5								
6 AUTHORITY MTZ	8 oz/a	A	87 a	37 e	0 -	0 c	13 bc	60 b
6 WEEDMASTER	32 fl oz/a	A						
6 ROUNDUP POWERMAX	32 fl oz/a	A						
6 COC	1 % v/v	A						
6 AMMONIUM SULFATE	2.5 % v/v	A						
6 ANTHEM MAXX	3.5 fl oz/a	C						
6 CALLISTO	4 fl oz/a	C						
6 AATREX	1.5 qt/a	C						
6 ROUNDUP POWERMAX	32 fl oz/a	C						
6 COC	1 % v/v	C						
6								
7 CRUSHER	1 oz/a	A	85 a	72 bc	0 -	100 a	75 a	100 a
7 WEEDMASTER	32 fl oz/a	A						
7 ROUNDUP POWERMAX	32 fl oz/a	A						
7 COC	1 % v/v	A						
7 AMMONIUM SULFATE	2.5 % v/v	A						
7 ANTHEM MAXX	4 fl oz/a	B						
7 AATREX	1 qt/a	B						
7 COC	1 % v/v	B						
7 AMMONIUM SULFATE	2.5 % v/v	B						
7 SOLSTICE	2.5 fl oz/a	D						
7 AATREX	1 qt/a	D						
7 ROUNDUP POWERMAX	32 fl oz/a	D						
7 COC	1 % v/v	D						
7 AMMONIUM SULFATE	2.5 % v/v	D						

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	AMBTR	SETFA	AMBTR	ERICA
Pest Scientific Name	Taraxacum offi> Ambrosia trifi>		Setaria faberi	Ambrosia trifi>	Erigeron canad>
Pest Name	Blowball Giant ragweed		Giant foxtail	Giant Canada horsewe> ragweed	
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	5-9-2017	5-9-2017	5-24-2017	5-24-2017	5-24-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 13	180 13	195 1	195 1	195 1
Trt-Eval Interval	13 DA-B	13 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	-3 DE-1	-3 DE-1	12 DE-1	12 DE-1	12 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Appl	11*	12*	13*	14*	15*	16*
No. Name	Rate Unit	Code						
8 CRUSHER	1 oz/a	A	77 a	50 cde	0 -	0 c	20 bc	67 b
8 WEEDMASTER	32 fl oz/a	A						
8 ROUNDUP POWERMAX	32 fl oz/a	A						
8 COC	1 % v/v	A						
8 AMMONIUM SULFATE	2.5 % v/v	A						
8 ANTHEM MAXX	2 fl oz/a	C						
8 CALLISTO	3 oz/a	C						
8 AATREX	1 qt/a	C						
8 ROUNDUP POWERMAX	32 fl oz/a	C						
8 COC	1 % v/v	C						
8 AMMONIUM SULFATE	2.5 % v/v							
9 AUTHORITY MTZ	8 oz/a	A	100 a	98 a	0 -	100 a	95 a	100 a
9 WEEDMASTER	32 fl oz/a	A						
9 ROUNDUP POWERMAX	32 fl oz/a	A						
9 AMMONIUM SULFATE	2.5 % v/v	A						
9 ANTHEM MAXX	3.5 fl oz/a	B						
9 BALANCE FLEXX	3 oz/a	B						
9 AATREX	1.5 qt/a	B						
9 ROUNDUP POWERMAX	32 fl oz/a	B						
9 COC	1 % v/v	B						
9 AMMONIUM SULFATE	2.5 % v/v	B						
10 AUTHORITY MTZ	8 oz/a	A	100 a	40 de	0 -	0 c	0 c	60 b
10 WEEDMASTER	32 fl oz/a	A						
10 ROUNDUP POWERMAX	32 fl oz/a	A						
10 AMMONIUM SULFATE	2.5 % v/v	A						
10 ANTHEM MAXX	3.5 fl oz/a	C						
10 BALANCE FLEXX	3 oz/a	C						
10 AATREX	1.5 qt/a	C						
10 ROUNDUP POWERMAX	32 fl oz/a	C						
10 COC	1 % v/v	C						
10 AMMONIUM SULFATE	2.5 % v/v	C						
11 HARMONY EXTRA XP	0.7 oz/a	A	100 a	98 a	0 -	100 a	88 a	100 a
11 2,4-D LV ESTER	16 fl oz/a	A						
11 ROUNDUP POWERMAX	32 fl oz/a	A						
11 AMMONIUM SULFATE	2.5 % v/v	A						
11 ANTHEM MAXX	4 fl oz/a	B						
11 CALLISTO	4 fl oz/a	B						
11 AATREX	1 qt/a	B						
11 ROUNDUP POWERMAX	32 fl oz/a	B						
11 COC	1 % v/v	B						
11 AMMONIUM SULFATE	2.5 % v/v	B						

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	AMBTR	SETFA	AMBTR	ERICA
Pest Scientific Name	Taraxacum offi>	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Erigeron canad>
Pest Name	Blowball	Giant ragweed	Giant foxtail	Giant Canada horsewe>	ragweed
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Scientific Name			Zea mays		
Crop Name			Corn		
Rating Date	5-9-2017	5-9-2017	5-24-2017	5-24-2017	5-24-2017
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 13	180 13	195 1	195 1	195 1
Trt-Eval Interval	13 DA-B	13 DA-B	28 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	-3 DE-1	-3 DE-1	12 DE-1	12 DE-1	12 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	11*	12*	13*	14*	15*	16*
16	AUTHORITY MTZ	8 oz/a	A	93 a	95 ab	0 -	100 a	83 a	100 a
16	CRUSHER	1 oz/a	A						
16	WEEDMASTER	32 fl oz/a	A						
16	ROUNDUP POWERMAX	24 fl oz/a	A						
16	COC	1 % v/v	A						
16	AMMONIUM SULFATE	2.5 % v/v	A						
16	ANTHEM FLEX	4.5 fl oz/a	B						
16	AATREX	1.5 qt/a	B						
16	ROUNDUP POWERMAX	32 fl oz/a	B						
16	COC	1 % v/v	B						
16	AMMONIUM SULFATE	2.5 % v/v	B						
LSD P=.05				33.5	24.7	.	17.2	28.0	19.5
Standard Deviation				20.1	14.8	0.0	10.3	16.8	11.7
CV				24.41	20.64	0.0	16.27	31.07	14.75
Bartlett's X2				9.716	25.104	0.0	16.811	26.342	5.634
P(Bartlett's X2)				0.556	0.003*	.	0.001*	0.01*	0.343
Skewness				-1.7615*	-0.7236*	.	-0.6009	-0.4197	-1.3167*
Kurtosis				2.2846*	-0.8616	.	-1.6821*	-1.6788*	1.0835
Replicate F				2.448	0.561	0.000	0.899	0.091	0.319
Replicate Prob(F)				0.1035	0.5766	1.0000	0.4178	0.9135	0.7292
Treatment F				4.198	13.488	0.000	64.899	17.033	17.644
Treatment Prob(F)				0.0004	0.0001	1.0000	0.0001	0.0001	0.0001

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	AMARE	ERICA	SETFA
Pest Scientific Name	Erigeron canad>	Setaria Ambrosia trifi>	Amaranthus ret>	Erigeron canad>	Setaria faberi	Setaria faberi
Pest Name	Canada horsewe>	Giant foxtail	Giant ragweed	Redroot pigweed	Canada horsewe>	Giant foxtail
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	221 3	221 3	221 3	221 3	237 19	237 19
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	19 DA-D	19 DA-D
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	70 DP-1	70 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	54 DE-1	54 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	17*	18*	19*	20*	21*	22*
1	UNTREATED			0 b	0 f	0 d	0 c	0 c	0 f
2	AUTHORITY MTZ	14 oz/a	A	100 a	90 abc	86 a	100 a	95 ab	87 abc
	WEEDMASTER	32 fl oz/a	A						
	COC	1 % v/v	A						
	AMMONIUM SULFATE	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						
	AMMONIUM SULFATE	2.5 % v/v	C						
3	AUTHORITY MTZ	8 oz/a	A	100 a	70 de	60 c	80 ab	100 a	67 e
	WEEDMASTER	32 fl oz/a	A						
	COC	1 % v/v	A						
	AMMONIUM SULFATE	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						
	AMMONIUM SULFATE	2.5 % v/v	B						
4	AUTHORITY MTZ	8 oz/a	A	100 a	67 e	62 c	60 b	100 a	67 e
	2,4-D LV ESTER	16 fl oz/a	A						
	ROUNDUP POWERMAX	32 fl oz/a	A						
	AMMONIUM SULFATE	2.5 % v/v	A						
	RESICORE	2.5 qt/a	B						
	ROUNDUP POWERMAX	32 fl oz/a	B						
	COC	1 % v/v	B						
	AMMONIUM SULFATE	2.5 % v/v	B						

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	AMARE	ERICA	SETFA
Pest Scientific Name	Erigeron canad>	Setaria faberi	Ambrosia trifida>	Amaranthus retrofractus>	Erigeron canad>	Setaria faberi
Pest Name	Canada horsewe>	Giant foxtail	Giant ragweed	Redroot pigweed	Canada horsewe>	Giant foxtail
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	221 3	221 3	221 3	221 3	237 19	237 19
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	19 DA-D	19 DA-D
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	70 DP-1	70 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	54 DE-1	54 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	17*	18*	19*	20*	21*	22*
5	AUTHORITY MTZ	8 oz/a	A	100 a	83 bcd	57 c	67 b	93 b	92 ab
5	WEEDMASTER	32 fl oz/a	A						
5	ROUNDUP POWERMAX	32 fl oz/a	A						
5	COC	1 % v/v	A						
5	AMMONIUM SULFATE	2.5 % v/v	A						
5	ANTHEM MAXX	3.5 fl oz/a	B						
5	CALLISTO	4 fl oz/a	B						
5	AATREX	1.5 qt/a	B						
5	ROUNDUP POWERMAX	32 fl oz/a	B						
5	COC	1 % v/v	B						
5									
6	AUTHORITY MTZ	8 oz/a	A	100 a	92 ab	83 ab	100 a	100 a	78 b-e
6	WEEDMASTER	32 fl oz/a	A						
6	ROUNDUP POWERMAX	32 fl oz/a	A						
6	COC	1 % v/v	A						
6	AMMONIUM SULFATE	2.5 % v/v	A						
6	ANTHEM MAXX	3.5 fl oz/a	C						
6	CALLISTO	4 fl oz/a	C						
6	AATREX	1.5 qt/a	C						
6	ROUNDUP POWERMAX	32 fl oz/a	C						
6	COC	1 % v/v	C						
6									
7	CRUSHER	1 oz/a	A	100 a	100 a	90 a	100 a	100 a	100 a
7	WEEDMASTER	32 fl oz/a	A						
7	ROUNDUP POWERMAX	32 fl oz/a	A						
7	COC	1 % v/v	A						
7	AMMONIUM SULFATE	2.5 % v/v	A						
7	ANTHEM MAXX	4 fl oz/a	B						
7	AATREX	1 qt/a	B						
7	COC	1 % v/v	B						
7	AMMONIUM SULFATE	2.5 % v/v	B						
7	SOLSTICE	2.5 fl oz/a	D						
7	AATREX	1 qt/a	D						
7	ROUNDUP POWERMAX	32 fl oz/a	D						
7	COC	1 % v/v	D						
7	AMMONIUM SULFATE	2.5 % v/v	D						

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	AMARE	ERICA	SETFA
Pest Scientific Name	Erigeron canad>	Setaria faberi	Ambrosia trifida>	Amaranthus retrofractus>	Erigeron canadense>	Setaria faberii
Pest Name	Canada horseweed>	Giant foxtail	Giant ragweed	Redroot pigweed	Canada horseweed>	Giant foxtail
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	221 3	221 3	221 3	221 3	237 19	237 19
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	19 DA-D	19 DA-D
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	70 DP-1	70 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	54 DE-1	54 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code	17*	18*	19*	20*	21*	22*
8	CRUSHER	1 oz/a	A	100 a	83 b-e	88 a	93 a	100 a	75 cde
8	WEEDMASTER	32 fl oz/a	A						
8	ROUNDUP POWERMAX	32 fl oz/a	A						
8	COC	1 % v/v	A						
8	AMMONIUM SULFATE	2.5 % v/v	A						
8	ANTHEM MAXX	2 fl oz/a	C						
8	CALLISTO	3 oz/a	C						
8	AATREX	1 qt/a	C						
8	ROUNDUP POWERMAX	32 fl oz/a	C						
8	COC	1 % v/v	C						
8	AMMONIUM SULFATE	2.5 % v/v							
9	AUTHORITY MTZ	8 oz/a	A	100 a	77 b-e	63 bc	60 b	100 a	68 e
9	WEEDMASTER	32 fl oz/a	A						
9	ROUNDUP POWERMAX	32 fl oz/a	A						
9	AMMONIUM SULFATE	2.5 % v/v	A						
9	ANTHEM MAXX	3.5 fl oz/a	B						
9	BALANCE FLEXX	3 oz/a	B						
9	AATREX	1.5 qt/a	B						
9	ROUNDUP POWERMAX	32 fl oz/a	B						
9	COC	1 % v/v	B						
9	AMMONIUM SULFATE	2.5 % v/v	B						
10	AUTHORITY MTZ	8 oz/a	A	100 a	88 abc	84 ab	100 a	100 a	77 cde
10	WEEDMASTER	32 fl oz/a	A						
10	ROUNDUP POWERMAX	32 fl oz/a	A						
10	AMMONIUM SULFATE	2.5 % v/v	A						
10	ANTHEM MAXX	3.5 fl oz/a	C						
10	BALANCE FLEXX	3 oz/a	C						
10	AATREX	1.5 qt/a	C						
10	ROUNDUP POWERMAX	32 fl oz/a	C						
10	COC	1 % v/v	C						
10	AMMONIUM SULFATE	2.5 % v/v	C						
11	HARMONY EXTRA XP	0.7 oz/a	A	100 a	75 cde	47 c	83 ab	100 a	67 e
11	2,4-D LV ESTER	16 fl oz/a	A						
11	ROUNDUP POWERMAX	32 fl oz/a	A						
11	AMMONIUM SULFATE	2.5 % v/v	A						
11	ANTHEM MAXX	4 fl oz/a	B						
11	CALLISTO	4 fl oz/a	B						
11	AATREX	1 qt/a	B						
11	ROUNDUP POWERMAX	32 fl oz/a	B						
11	COC	1 % v/v	B						
11	AMMONIUM SULFATE	2.5 % v/v	B						

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	AMARE	ERICA	SETFA
Pest Scientific Name	Erigeron canad>	Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Erigeron canad>	Setaria faberi
Pest Name	Canada horsewe>	Giant foxtail	Giant ragweed	Redroot pigweed	Canada horsewe>	Giant foxtail
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	6-19-2017	6-19-2017	6-19-2017	6-19-2017	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	221 3	221 3	221 3	221 3	237 19	237 19
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	19 DA-D	19 DA-D
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	70 DP-1	70 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	54 DE-1	54 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	17*	18*	19*	20*	21*	22*
16	AUTHORITY MTZ	8 oz/a	A	100 a	75 cde	57 c	93 a	100 a	75 cde
16	CRUSHER	1 oz/a	A						
16	WEEDMASTER	32 fl oz/a	A						
16	ROUNDUP POWERMAX	24 fl oz/a	A						
16	COC	1 % v/v	A						
16	AMMONIUM SULFATE	2.5 % v/v	A						
16	ANTHEM FLEX	4.5 fl oz/a	B						
16	AATREX	1.5 qt/a	B						
16	ROUNDUP POWERMAX	32 fl oz/a	B						
16	COC	1 % v/v	B						
16	AMMONIUM SULFATE	2.5 % v/v	B						
LSD P=.05				.	16.2	21.2	24.5	5.8	14.5
Standard Deviation				0.0	9.7	12.7	14.7	3.5	8.7
CV				0.0	12.83	19.19	17.82	3.75	12.05
Bartlett's X2				0.0	20.069	21.451	4.755	0.161	12.832
P(Bartlett's X2)				.	0.128	0.064	0.69	0.688	0.461
Skewness				-3.7325*	-2.2256*	-1.1671*	-1.6993*	-3.613*	-1.929*
Kurtosis				12.4486*	5.5647*	0.9579	2.1912*	11.7987*	4.9143*
Replicate F				0.000	0.139	0.575	2.429	2.094	5.414
Replicate Prob(F)				1.0000	0.8706	0.5689	0.1052	0.1408	0.0098
Treatment F				0.000	15.553	10.291	9.676	152.453	18.189
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed
Pest Code	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>
Pest Name	Giant ragweed	Redroot pigweed
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	237 19	237 19
Trt-Eval Interval	19 DA-D	19 DA-D
Plant-Eval Interval	70 DP-1	70 DP-1
Days After Emergence	54 DE-1	54 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Appl Unit	Code	23*	24*
1	UNTREATED				0 g	0 c
2	AUTHORITY MTZ	14 oz/a	A		92 ab	100 a
	WEEDMASTER	32 fl oz/a	A			
	COC	1 % v/v	A			
	AMMONIUM SULFATE	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			
	AMMONIUM SULFATE	2.5 % v/v	C			
2						
3	AUTHORITY MTZ	8 oz/a	A		57 f	80 ab
	WEEDMASTER	32 fl oz/a	A			
	COC	1 % v/v	A			
	AMMONIUM SULFATE	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			
	AMMONIUM SULFATE	2.5 % v/v	B			
3						
4	AUTHORITY MTZ	8 oz/a	A		72 c-f	70 b
	2,4-D LV ESTER	16 fl oz/a	A			
	ROUNDUP POWERMAX	32 fl oz/a	A			
	AMMONIUM SULFATE	2.5 % v/v	A			
	RESICORE	2.5 qt/a	B			
	ROUNDUP POWERMAX	32 fl oz/a	B			
	COC	1 % v/v	B			
	AMMONIUM SULFATE	2.5 % v/v	B			
4						

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed
Pest Code	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifida	Amaranthus retrofractus
Pest Name	Giant ragweed	Redroot pigweed
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	237 19	237 19
Trt-Eval Interval	19 DA-D	19 DA-D
Plant-Eval Interval	70 DP-1	70 DP-1
Days After Emergence	54 DE-1	54 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Appl Code	23*	24*
5	AUTHORITY MTZ	8 oz/a	A	73 cde	87 ab
5	WEEDMASTER	32 fl oz/a	A		
5	ROUNDUP POWERMAX	32 fl oz/a	A		
5	COC	1 % v/v	A		
5	AMMONIUM SULFATE	2.5 % v/v	A		
5	ANTHEM MAXX	3.5 fl oz/a	B		
5	CALLISTO	4 fl oz/a	B		
5	AATREX	1.5 qt/a	B		
5	ROUNDUP POWERMAX	32 fl oz/a	B		
5	COC	1 % v/v	B		
6	AUTHORITY MTZ	8 oz/a	A	78 bcd	100 a
6	WEEDMASTER	32 fl oz/a	A		
6	ROUNDUP POWERMAX	32 fl oz/a	A		
6	COC	1 % v/v	A		
6	AMMONIUM SULFATE	2.5 % v/v	A		
6	ANTHEM MAXX	3.5 fl oz/a	C		
6	CALLISTO	4 fl oz/a	C		
6	AATREX	1.5 qt/a	C		
6	ROUNDUP POWERMAX	32 fl oz/a	C		
6	COC	1 % v/v	C		
7	CRUSHER	1 oz/a	A	100 a	100 a
7	WEEDMASTER	32 fl oz/a	A		
7	ROUNDUP POWERMAX	32 fl oz/a	A		
7	COC	1 % v/v	A		
7	AMMONIUM SULFATE	2.5 % v/v	A		
7	ANTHEM MAXX	4 fl oz/a	B		
7	AATREX	1 qt/a	B		
7	COC	1 % v/v	B		
7	AMMONIUM SULFATE	2.5 % v/v	B		
7	SOLSTICE	2.5 fl oz/a	D		
7	AATREX	1 qt/a	D		
7	ROUNDUP POWERMAX	32 fl oz/a	D		
7	COC	1 % v/v	D		
7	AMMONIUM SULFATE	2.5 % v/v	D		

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

 Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

 Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed
Pest Code	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>
Pest Name	Giant ragweed	Redroot pigweed
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	237 19	237 19
Trt-Eval Interval	19 DA-D	19 DA-D
Plant-Eval Interval	70 DP-1	70 DP-1
Days After Emergence	54 DE-1	54 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Appl Code	23*	24*
		Rate Unit			
8	CRUSHER	1 oz/a	A	87 abc	87 ab
8	WEEDMASTER	32 fl oz/a	A		
8	ROUNDUP POWERMAX	32 fl oz/a	A		
8	COC	1 % v/v	A		
8	AMMONIUM SULFATE	2.5 % v/v	A		
8	ANTHEM MAXX	2 fl oz/a	C		
8	CALLISTO	3 oz/a	C		
8	AATREX	1 qt/a	C		
8	ROUNDUP POWERMAX	32 fl oz/a	C		
8	COC	1 % v/v	C		
8	AMMONIUM SULFATE	2.5 % v/v			
9	AUTHORITY MTZ	8 oz/a	A	78 bcd	70 b
9	WEEDMASTER	32 fl oz/a	A		
9	ROUNDUP POWERMAX	32 fl oz/a	A		
9	AMMONIUM SULFATE	2.5 % v/v	A		
9	ANTHEM MAXX	3.5 fl oz/a	B		
9	BALANCE FLEXX	3 oz/a	B		
9	AATREX	1.5 qt/a	B		
9	ROUNDUP POWERMAX	32 fl oz/a	B		
9	COC	1 % v/v	B		
9	AMMONIUM SULFATE	2.5 % v/v	B		
10	AUTHORITY MTZ	8 oz/a	A	83 bc	100 a
10	WEEDMASTER	32 fl oz/a	A		
10	ROUNDUP POWERMAX	32 fl oz/a	A		
10	AMMONIUM SULFATE	2.5 % v/v	A		
10	ANTHEM MAXX	3.5 fl oz/a	C		
10	BALANCE FLEXX	3 oz/a	C		
10	AATREX	1.5 qt/a	C		
10	ROUNDUP POWERMAX	32 fl oz/a	C		
10	COC	1 % v/v	C		
10	AMMONIUM SULFATE	2.5 % v/v	C		
11	HARMONY EXTRA XP	0.7 oz/a	A	62 ef	85 ab
11	2,4-D LV ESTER	16 fl oz/a	A		
11	ROUNDUP POWERMAX	32 fl oz/a	A		
11	AMMONIUM SULFATE	2.5 % v/v	A		
11	ANTHEM MAXX	4 fl oz/a	B		
11	CALLISTO	4 fl oz/a	B		
11	AATREX	1 qt/a	B		
11	ROUNDUP POWERMAX	32 fl oz/a	B		
11	COC	1 % v/v	B		
11	AMMONIUM SULFATE	2.5 % v/v	B		

The Ohio State University

2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

 Trial ID: 17FALLCORN
 Protocol ID: 17FALLCORN
 Project ID: SULF COR 16 JPR

 Location: Western Branch F-9 E Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed
Pest Code	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifid	Amaranthus retrofractus
Pest Name	Giant ragweed	Redroot pigweed
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	237 19	237 19
Trt-Eval Interval	19 DA-D	19 DA-D
Plant-Eval Interval	70 DP-1	70 DP-1
Days After Emergence	54 DE-1	54 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Appl Code	23*	24*
12	HARMONY EXTRA XP	0.7 oz/a	A	93 ab	100 a
12	2,4-D LV ESTER	16 fl oz/a	A		
12	ROUNDUP POWERMAX	32 fl oz/a	A		
12	AMMONIUM SULFATE	2.5 % v/v	A		
12	ANTHEM MAXX	2 fl oz/a	C		
12	SOLSTICE	2.5 fl oz/a	C		
12	AATREX	1 pt/a	C		
12	ROUNDUP POWERMAX	32 fl oz/a	C		
12	COC	1 % v/v	C		
12	AMMONIUM SULFATE	2.5 % v/v	C		
13	WEEDMASTER	32 fl oz/a	A	85 abc	100 a
13	ROUNDUP POWERMAX	32 fl oz/a	A		
13	COC	1 % v/v	A		
13	AMMONIUM SULFATE	2.5 % v/v	A		
13	ANTHEM MAXX	4 fl oz/a	C		
13	HORNET	4 oz/a	C		
13	AATREX	1.5 qt/a	C		
13	ROUNDUP POWERMAX	32 fl oz/a	C		
13	COC	1 % v/v	C		
13	AMMONIUM SULFATE	2.5 % v/v	C		
13					
14	CRUSHER	1 oz/a	A	57 f	87 ab
14	ROUNDUP POWERMAX	24 fl oz/a	A		
14	WEEDMASTER	12 fl oz/a	A		
14	CORVUS	5.6 fl oz/a	B		
14	ATRAZINE	1 qt/a	B		
14	ROUNDUP POWERMAX	32 fl oz/a	B		
14	COC	1 % v/v	B		
14	AMMONIUM SULFATE	2.5 % v/v	B		
14					
15	AUTHORITY MTZ	14 oz/a	A	67 def	77 ab
15	WEEDMASTER	32 fl oz/a	A		
15	COC	1 % v/v	A		
15	AMMONIUM SULFATE	2.5 % v/v	A		
15	ACURON	2 qt/a	B		
15	ROUNDUP POWERMAX	32 fl oz/a	B		
15	COC	1 % v/v	B		
15	AMMONIUM SULFATE	2.5 % v/v	B		
15					

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN Location: Western Branch F-9 E Trial Year: 2016
 Protocol ID: 17FALLCORN Investigator: Dr. Mark M. Loux
 Project ID: SULF COR 16 JPR Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed
Pest Code	AMBTR	AMARE
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>
Pest Name	Giant ragweed	Redroot pigweed
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	237 19	237 19
Trt-Eval Interval	19 DA-D	19 DA-D
Plant-Eval Interval	70 DP-1	70 DP-1
Days After Emergence	54 DE-1	54 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Appl Code	23*	24*
16	AUTHORITY MTZ	8 oz/a	A	67 def	87 ab
16	CRUSHER	1 oz/a	A		
16	WEEDMASTER	32 fl oz/a	A		
16	ROUNDUP POWERMAX	24 fl oz/a	A		
16	COC	1 % v/v	A		
16	AMMONIUM SULFATE	2.5 % v/v	A		
16	ANTHEM FLEX	4.5 fl oz/a	B		
16	AATREX	1.5 qt/a	B		
16	ROUNDUP POWERMAX	32 fl oz/a	B		
16	COC	1 % v/v	B		
16	AMMONIUM SULFATE	2.5 % v/v	B		

LSD P=.05	16.1	26.4
Standard Deviation	9.7	15.8
CV	13.45	19.05
Bartlett's X2	11.15	2.267
P(Bartlett's X2)	0.516	0.972
Skewness	-1.5529*	-1.8596*
Kurtosis	3.0084*	3.2406*

Replicate F	1.672	0.764
Replicate Prob(F)	0.2050	0.4744
Treatment F	17.199	7.253
Treatment Prob(F)	0.0001	0.0001

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2016/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 17FALLCORN Location: Western Branch F-9 E Trial Year: 2016
Protocol ID: 17FALLCORN Investigator: Dr. Mark M. Loux
Project ID: SULF COR 16 JPR Study Director: Anthony Dobbels
Sponsor Contact: Joe Reed, FMC

Pest Type

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

Pest Code

LAMPU, Lamium purpureum, Purple deadnettle = US
ERICA, Erigeron canadensis, Canada horseweed = US
RANAB, Ranunculus abortivus, Smallflower buttercup = US
TRZAW, Triticum aestivum, Winter wheat = US
TAROF, Taraxacum officinale, Blowball = US
AMBTR, Ambrosia trifida, Giant ragweed = US
SETFA, Setaria faberi, Giant foxtail = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

0 DP-1 = 1 ZEAMX 4-26-2017
13 DP-1 = 1 ZEAMX 4-26-2017
28 DP-1 = 1 ZEAMX 4-26-2017
54 DP-1 = 1 ZEAMX 4-26-2017
70 DP-1 = 1 ZEAMX 4-26-2017