

2014/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 15FALLCORN1 Location: Western Branch F-9 W Trial Year: 2015
 Protocol ID: SULF.COR.14.JPR.01 Investigator: Dr. Mark M. Loux
 Project ID: 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 °: 39.85891 N
Longitude of LL Corner °: 83.67371 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: ZEAMX Zea mays
Variety: P0993HR
Description: Pioneer

Planting Date: 4-29-2015
Planting Method: PLANTD planted
Planting Equipment: PP Plot Planter
Emergence Date: 5-8-2015

Planting Rate, Unit: 32079 SEED/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 63 F
Soil Moisture: DAMP damp
Seed Bed: SMOTRA smooth/trashy

Pest Description

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

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

Pest 3 Type: W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed

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

Pest 5 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

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

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

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 12
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 Previous Pesticides Year

1. Soybean various 2014

Soil Description

Description Name: F-9 West

% OM: 2

pH: 6.2

CEC: 9.7

Texture: SICL silty clay loam

Soil Name: Kokomo

Fert. Level: G good

Soil Drainage: G good

Additional Measured Elements

Date	Element	Quantity	Unit
4-27-2015	28% UAN	60	GPA

Application Description

	A	B	C	D	E
Application Date:	11-10-2014	4-29-2015	5-15-2015	5-22-2015	6-3-2015
Appl. Start Time:	11:00 AM	4:20 PM	9:00 AM	8:45 AM	9:30 AM
Appl. Stop Time:	11:30 AM	4:50 PM	9:15 AM	9:00 AM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	PRE	EPO	POST	POST
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	REEB	Dobbels	Bethel	Bethel	Reeb
Air Temperature, Unit:	58.2 F	66 F	63 F	55 F	60 F
% Relative Humidity:	50.4	37	75	69	88
Wind Velocity, Unit:	7.5 MPH	5 MPH	3 MPH	7 MPH	5 MPH
Wind Direction:	SSW	N	E	WSW	NNE
Dew Presence (Y/N):	N no	N no	N no	N no	Y yes
Soil Temperature, Unit:	44 F	63 F	59 F	52 F	59 F
Soil Moisture:	GOOD	MOIST	NORMAL	DRY	MOIST
% Cloud Cover:	5	45	80	0	100
Next Moisture Occurred On:	11-11-2014	5-5-2015	5-16-2015	5-26-2015	6-5-2015
Time to Next Moisture, Unit:	1 DAY	6 DAY	1 DAY	4 DAY	2 DAY

Crop Stage At Each Application

	A		B		C		D		E	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:					BBCH		BBCH		BBCH	
Stage Majority, Percent:					12	100	13	100	16	90
Stage Minimum, Percent:									15	10
Stage Maximum, Percent:									16	90
Height, Unit:					3	IN	10	IN	15	IN

Pest Stage At Each Application

	A		B		C		D		E	
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent:	18	100	67	100						
Diameter, Unit:	2	IN	2	IN						
Height, Unit:	1.5	IN	3	IN						
Height Minimum, Maximum:	1	1.5	2	3						
Density, Unit:	15	M2	3	M2						
Pest 2 Code, Type, Scale:	STEME	W	STEME	W	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	16	100								
Diameter, Unit:	0.5	IN								
Height, Unit:	0.75	IN								
Height Minimum, Maximum:	0.5	0.75								
Density, Unit:	2	M2	2	M2						
Pest 3 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W	ERICA	W	ERICA	W
Stage Majority, Percent:	17	100			18	100	19	100	19	100
Diameter, Unit:	0.5	IN			1	IN	3	IN	3	IN
Height, Unit:	0.5	IN			2	IN	4	IN	4	IN
Height Minimum, Maximum:	0.25	0.5			1	2	3	4	3	10
Density, Unit:	20	M2			20	M2	20	M2	25	M2
Pest 4 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			12	90	14	90	18	100	19	80
Stage Minimum, Percent:			10	10	14	90			18	20
Stage Maximum, Percent:			12	90	16	10			19	80
Diameter, Unit:			2	IN	4	IN	6	IN	6	IN
Height, Unit:			2	IN	4	IN	12	IN	8	IN
Height Minimum, Maximum:			1	2	4	6	12	14	5	12
Density, Unit:			5	M2	5	M2	5	M2	1	M2
Pest 5 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:			14	90	14	90	18	80	19	60
Stage Minimum, Percent:			12	10	14	90	12	10	14	40
Stage Maximum, Percent:			14	90	16	10	18	80	19	60
Diameter, Unit:			0.5	IN	1	IN	2	IN	4	IN
Height, Unit:			0.5	IN	2	IN	2	IN	4	IN
Height Minimum, Maximum:			0.5	0.75	1	2	1	2	1	10
Density, Unit:			56	M2	56	M2	56	M2	4	M2
Pest 6 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:							12	100	13	80
Stage Minimum, Percent:									13	80
Stage Maximum, Percent:									15	20
Height, Unit:							3	IN	4	IN
Height Minimum, Maximum:							1	3	4	6
Density, Unit:							95	M2	12	M2
Pest 7 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:							14	100		
Diameter, Unit:							0.5	IN		
Height, Unit:							1	IN		
Height Minimum, Maximum:							0.5	1		
Density, Unit:							25	m2		

Application Equipment

	A		B		C		D		E	
Appl. Equipment:	6 FOOT	BOOM	6 FOOT	BOOM	6 FOOT	BOOM	6 FOOT	BOOM	6 FOOT	BOOM
Equipment Type:	SPRBAC		SPRBAC		SPRBAC		SPRBAC		SPRBAC	
Operation Pressure, Unit:	46	PSI	46	PSI	46	PSI	46	PSI	46	PSI
Nozzle Type:	AI XR		AI XR		AI XR		AI XR		AI XR	
Nozzle Size:	110015		110015		110015		110015		110015	
Nozzle Spacing, Unit:	18	IN	18	IN	18	IN	18	IN	18	IN
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT	10	FT
Boom Height, Unit:	20	IN	20	IN	20	IN	20	IN	20	IN
Ground Speed, Unit:	3	MPH	3	MPH	3	MPH	3	MPH	3	MPH
Carrier:	WATER		WATER		WATER		WATER		WATER	
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA	15	GPA	15	GPA
Mix Size, Unit:	1	Liters	1	Liters	1	Liters	1	Liters	1	Liters
Propellant:	CO2		CO2		CO2		CO2		CO2	

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Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU
Pest Scientific Name	Conyza canadens>	Stellaria media	Lamium purpure>
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	4-28-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	169 169
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Description	1	2	3
1	UNTREATED					0 b	0 c	0 c
2	AUTHORITY MTZ	14 oz/a		A	Fall	100 a	100 a	100 a
2	WEEDMASTER	32 oz/a		A	Fall			
2	COC	1 % v/v		A	Fall			
2	AMMONIUM SULFATE	2.5 % v/v		A	Fall			
2	ROUNDUP POWERMAX	32 oz/a		B	Pre			
2	ANTHEM MAXX	2.25 oz/a		B	Pre			
2	AATREX	1 qt/a		B	Pre			
2	AMMONIUM SULFATE	2.5 % v/v		B	Pre			
2	CADET	0.6 oz/a		E	Late Post			
2	AATREX	1 qt/a		E	Late Post			
2	LIBERTY 280 SL	28 oz/a		E	Late Post			
2	COC	1 % v/v		E	Late Post			
3	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	100 a
3	WEEDMASTER	32 oz/a		A	FALL			
3	COC	1 % v/v		A	FALL			
3	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
3	ROUNDUP POWERMAX	32 oz/a		B	PRE			
3	ANTHEM MAXX	2.25 oz/a		B	PRE			
3	AATREX	1 qt/a		B	PRE			
3	AMMONIUM SULFATE	2.5 % v/v		B	PRE			
3	CADET	0.6 oz/a		E	Late Post			
3	AATREX	1 qt/a		E	Late Post			
3	LIBERTY 280 SL	28 oz/a		E	Late Post			
3	COC	1 % v/v		E	Late Post			
4	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	100 a
4	WEEDMASTER	32 oz/a		A	FALL			
4	COC	1 % v/v		A	FALL			
4	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
4	ANTHEM MAXX	2.25 oz/a		C	Early Post			
4	AATREX	1.5 qt/a		C	Early Post			
4	LIBERTY 280 SL	28 oz/a		C	Early Post			
4	COC	1 % v/v		C	Early Post			

Means followed by same letter do not significantly differ (P=.05, LSD)
 t=Mean descriptions are reported in transformed data units, and are not de-transformed.
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,7,9 because error mean square = 0.

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU
Pest Scientific Name	Conyza canadens>	Stellaria media	Lamium purpure>
Pest Name	Canada horsewe>	Common chickwe>	Purple deadnet>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	4-28-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	169 169
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3
5	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
5	WEEDMASTER	32 oz/a		A	FALL				
5	COC	1 % v/v		A	FALL				
5	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
5	SOLSTICE	3 oz/a		D	POST				
5	AATREX	1 qt/a		D	POST				
5	LIBERTY 280 SL	28 oz/a		D	POST				
5	COC	1 % v/v		D	POST				
6	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
6	AIM	1 oz/a		A	FALL				
6	2,4-D ESTER	1 pt/a		A	FALL				
6	EXPRESS SG	0.1 oz/a		A	FALL				
6	NIS	0.25 % v/v		A	FALL				
6	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
6	SOLSTICE	3 oz/a		D	POST				
6	AATREX	1 qt/a		D	POST				
6	LIBERTY 280 SL	28 oz/a		D	POST				
6	COC	1 % v/v		D	POST				
7	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
7	WEEDMASTER	32 oz/a		A	FALL				
7	ROUNDUP POWERMAX	32 oz/a		A	FALL				
7	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
7	SOLSTICE	3 oz/a		C	Early Post				
7	AATREX	1 qt/a		C	Early Post				
7	LIBERTY 280 SL	28 oz/a		C	Early Post				
7	COC	1 % v/v		C	Early Post				
8	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
8	WEEDMASTER	32 oz/a		A	FALL				
8	ROUNDUP POWERMAX	32 oz/a		A	FALL				
8	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
8	ANTHEM MAXX	2.25 oz/a		B	PRE				
8	AATREX	1 qt/a		B	PRE				
8	ROUNDUP POWERMAX	32 oz/a		B	PRE				
8	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
8	SOLSTICE	3 oz/a		E	Late Post				
8	AATREX	1 qt/a		E	Late Post				
8	LIBERTY 280 SL	28 oz/a		E	Late Post				
8	COC	1 % v/v		E	Late Post				
8					Late Post				

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU
Pest Scientific Name	Conyza canadensis	Stellaria media	Lamium purpureum
Pest Name	Canada horseweed	Common chickweed	Purple deadnettle
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	4-28-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	169 169
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	1	2	3
9	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	100 a
9	WEEDMASTER	32 oz/a		A	FALL			
9	ROUNDUP POWERMAX	32 oz/a		A	FALL			
9	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
9	ANTHEM MAXX	2.25 oz/a		B	PRE			
9	SENCOR	3 oz/a		B	PRE			
9	ROUNDUP POWERMAX	32 oz/a		B	PRE			
9	AMMONIUM SULFATE	2.5 % v/v		B	PRE			
9	SOLSTICE	3 oz/a		E	Late Post			
9	AATREX	1 qt/a		E	Late Post			
9	LIBERTY 280 SL	28 oz/a		E	Late Post			
9	COC	1 % v/v		E	Late Post			
10	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	100 a
10	WEEDMASTER	32 oz/a		A	FALL			
10	ROUNDUP POWERMAX	32 oz/a		A	FALL			
10	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
10	ANTHEM MAXX	2.25 oz/a		B	PRE			
10	ROUNDUP POWERMAX	32 oz/a		B	PRE			
10	AMMONIUM SULFATE	2.5 % v/v		B	PRE			
10	SOLSTICE	3 oz/a		E	Late Post			
10	SENCOR	3 oz/a		E	Late Post			
10	LIBERTY 280 SL	28 oz/a		E	Late Post			
10	COC	1 % v/v		E	Late Post			
11	SIMAZINE	2 qt/a		A	FALL	100 a	93 b	65 b
11	WEEDMASTER	32 oz/a		A	FALL			
11	AUTHORITY MTZ	5.5 oz/a		B	PRE			
11	ANTHEM MAXX	2.25 oz/a		B	PRE			
11	ROUNDUP POWERMAX	32 oz/a		B	PRE			
11	SOLSTICE	3 oz/a		E	Late Post			
11	AATREX	1 qt/a		E	Late Post			
11	LIBERTY 280 SL	28 oz/a		E	Late Post			
11	COC	1 % v/v		E	Late Post			

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	STEME	LAMPU
Pest Scientific Name	Conyza canadensis	Stellaria media	Lamium purpureum
Pest Name	Canada horseweed	Common chickweed	Purple deadnettle
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	4-28-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	169 169
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	-10 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3
12	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
12	WEEDMASTER	32 oz/a		A	FALL				
12	COC	1 % v/v		A	FALL				
12	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
12	ANTHEM MAXX	2.25 oz/a		C	Early Post				
12	SOLSTICE	3 oz/a		C	Early Post				
12	AATREX	1 qt/a		C	Early Post				
12	LIBERTY 280 SL	28 oz/a		C	Early Post				
12	COC	1 % v/v		C	Early Post				

LSD P=.05	.	5.6	8.8
Standard Deviation	0.0	3.3	5.2
CV	0.0	3.66	5.86
Grand Mean	91.7	91.1	88.8
Bartlett's X2	0.0	0.0	0.0
P(Bartlett's X2)	.	.	.
Skewness	-3.1478*	-3.0784*	-2.6056*
Kurtosis	8.3714*	8.0491*	5.6116*

Replicate F	0.000	1.000	1.000
Replicate Prob(F)	1.0000	0.3840	0.3840
Treatment F	0.000	223.273	97.741
Treatment Prob(F)	1.0000	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	VERAG	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Ambrosia trifi>	Conyza canaden>
Pest Name	Field speedwell	Giant ragweed	Canada horsewe>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	183 13
Trt-Eval Interval	169 DA-A	169 DA-A	13 DA-B
Plant-Eval Interval	-1 DP-1	-1 DP-1	13 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	4 DE-1
ARM Action Codes			AA
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	4	5	6
1	UNTREATED						0 c	0 c	0 e
2	AUTHORITY MTZ	14 oz/a		A	Fall		100 a	73 ab	100 a
2	WEEDMASTER	32 oz/a		A	Fall				
2	COC	1 % v/v		A	Fall				
2	AMMONIUM SULFATE	2.5 % v/v		A	Fall				
2	ROUNDUP POWERMAX	32 oz/a		B	Pre				
2	ANTHEM MAXX	2.25 oz/a		B	Pre				
2	AATREX	1 qt/a		B	Pre				
2	AMMONIUM SULFATE	2.5 % v/v		B	Pre				
2	CADET	0.6 oz/a		E	Late Post				
2	AATREX	1 qt/a		E	Late Post				
2	LIBERTY 280 SL	28 oz/a		E	Late Post				
2	COC	1 % v/v		E	Late Post				
3	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	73 ab	100 a
3	WEEDMASTER	32 oz/a		A	FALL				
3	COC	1 % v/v		A	FALL				
3	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
3	ROUNDUP POWERMAX	32 oz/a		B	PRE				
3	ANTHEM MAXX	2.25 oz/a		B	PRE				
3	AATREX	1 qt/a		B	PRE				
3	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
3	CADET	0.6 oz/a		E	Late Post				
3	AATREX	1 qt/a		E	Late Post				
3	LIBERTY 280 SL	28 oz/a		E	Late Post				
3	COC	1 % v/v		E	Late Post				
4	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	63 b	0 e
4	WEEDMASTER	32 oz/a		A	FALL				
4	COC	1 % v/v		A	FALL				
4	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
4	ANTHEM MAXX	2.25 oz/a		C	Early Post				
4	AATREX	1.5 qt/a		C	Early Post				
4	LIBERTY 280 SL	28 oz/a		C	Early Post				
4	COC	1 % v/v		C	Early Post				

Pest Type	W Weed	W Weed	W Weed
Pest Code	VERAG	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Ambrosia trifi>	Conyza canaden>
Pest Name	Field speedwell	Giant ragweed	Canada horsewe>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	183 13
Trt-Eval Interval	169 DA-A	169 DA-A	13 DA-B
Plant-Eval Interval	-1 DP-1	-1 DP-1	13 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	4 DE-1
ARM Action Codes			AA
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Description	4	5	6
5	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	77 ab	31 cd
5	WEEDMASTER	32 oz/a		A	FALL			
5	COC	1 % v/v		A	FALL			
5	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
5	SOLSTICE	3 oz/a		D	POST			
5	AATREX	1 qt/a		D	POST			
5	LIBERTY 280 SL	28 oz/a		D	POST			
5	COC	1 % v/v		D	POST			
6	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	77 ab	4 de
6	AIM	1 oz/a		A	FALL			
6	2,4-D ESTER	1 pt/a		A	FALL			
6	EXPRESS SG	0.1 oz/a		A	FALL			
6	NIS	0.25 % v/v		A	FALL			
6	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
6	SOLSTICE	3 oz/a		D	POST			
6	AATREX	1 qt/a		D	POST			
6	LIBERTY 280 SL	28 oz/a		D	POST			
6	COC	1 % v/v		D	POST			
7	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	80 a	28 cd
7	WEEDMASTER	32 oz/a		A	FALL			
7	ROUNDUP POWERMAX	32 oz/a		A	FALL			
7	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
7	SOLSTICE	3 oz/a		C	Early Post			
7	AATREX	1 qt/a		C	Early Post			
7	LIBERTY 280 SL	28 oz/a		C	Early Post			
7	COC	1 % v/v		C	Early Post			
8	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	80 a	100 a
8	WEEDMASTER	32 oz/a		A	FALL			
8	ROUNDUP POWERMAX	32 oz/a		A	FALL			
8	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
8	ANTHEM MAXX	2.25 oz/a		B	PRE			
8	AATREX	1 qt/a		B	PRE			
8	ROUNDUP POWERMAX	32 oz/a		B	PRE			
8	AMMONIUM SULFATE	2.5 % v/v		B	PRE			
8	SOLSTICE	3 oz/a		E	Late Post			
8	AATREX	1 qt/a		E	Late Post			
8	LIBERTY 280 SL	28 oz/a		E	Late Post			
8	COC	1 % v/v		E	Late Post			
8					Late Post			

Pest Type	W Weed	W Weed	W Weed
Pest Code	VERAG	AMBTR	ERICA
Pest Scientific Name	Veronica agres>	Ambrosia trifi>	Conyza canaden>
Pest Name	Field speedwell	Giant ragweed	Canada horsewe>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	4-28-2015	4-28-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	169 169	169 169	183 13
Trt-Eval Interval	169 DA-A	169 DA-A	13 DA-B
Plant-Eval Interval	-1 DP-1	-1 DP-1	13 DP-1
Days After Emergence	-10 DE-1	-10 DE-1	4 DE-1
ARM Action Codes			AA
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	4	5	6
9	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	78 a	98 ab
9	WEEDMASTER	32 oz/a		A	FALL				
9	ROUNDUP POWERMAX	32 oz/a		A	FALL				
9	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
9	ANTHEM MAXX	2.25 oz/a		B	PRE				
9	SENCOR	3 oz/a		B	PRE				
9	ROUNDUP POWERMAX	32 oz/a		B	PRE				
9	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
9	SOLSTICE	3 oz/a		E	Late Post				
9	AATREX	1 qt/a		E	Late Post				
9	LIBERTY 280 SL	28 oz/a		E	Late Post				
9	COC	1 % v/v		E	Late Post				
10	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	72 ab	67 bc
10	WEEDMASTER	32 oz/a		A	FALL				
10	ROUNDUP POWERMAX	32 oz/a		A	FALL				
10	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
10	ANTHEM MAXX	2.25 oz/a		B	PRE				
10	ROUNDUP POWERMAX	32 oz/a		B	PRE				
10	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
10	SOLSTICE	3 oz/a		E	Late Post				
10	SENCOR	3 oz/a		E	Late Post				
10	LIBERTY 280 SL	28 oz/a		E	Late Post				
10	COC	1 % v/v		E	Late Post				
11	SIMAZINE	2 qt/a		A	FALL		60 b	67 ab	71 bc
11	WEEDMASTER	32 oz/a		A	FALL				
11	AUTHORITY MTZ	5.5 oz/a		B	PRE				
11	ANTHEM MAXX	2.25 oz/a		B	PRE				
11	ROUNDUP POWERMAX	32 oz/a		B	PRE				
11	SOLSTICE	3 oz/a		E	Late Post				
11	AATREX	1 qt/a		E	Late Post				
11	LIBERTY 280 SL	28 oz/a		E	Late Post				
11	COC	1 % v/v		E	Late Post				

Pest Type	W Weed	W Weed	W Weed				
Pest Code	VERAG	AMBTR	ERICA				
Pest Scientific Name	Veronica agres>	Ambrosia trifi>	Conyza canad>				
Pest Name	Field speedwell	Giant ragweed	Canada horsewe>				
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	4-28-2015	4-28-2015	5-12-2015				
Rating Type	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%				
Number of Subsamples	1	1	1				
Days After First/Last Applic.	169 169	169 169	183 13				
Trt-Eval Interval	169 DA-A	169 DA-A	13 DA-B				
Plant-Eval Interval	-1 DP-1	-1 DP-1	13 DP-1				
Days After Emergence	-10 DE-1	-10 DE-1	4 DE-1				
ARM Action Codes			AA				
Number of Decimals	0	0	0				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Code	4	5	6
12 AUTHORITY MTZ	8 oz/a		A	FALL	100 a	80 a	62 c
12 WEEDMASTER	32 oz/a		A	FALL			
12 COC	1 % v/v		A	FALL			
12 AMMONIUM SULFATE	2.5 % v/v		A	FALL			
12 ANTHEM MAXX	2.25 oz/a		C	Early Post			
12 SOLSTICE	3 oz/a		C	Early Post			
12 AATREX	1 qt/a		C	Early Post			
12 LIBERTY 280 SL	28 oz/a		C	Early Post			
12 COC	1 % v/v		C	Early Post			
LSD P=.05					4.9	14.5	29.7t
Standard Deviation					2.9	8.6	17.6t
CV					3.27	12.54	35.45t
Grand Mean					88.3	68.3	49.5t
Bartlett's X2					0.0	10.251	5.826
P(Bartlett's X2)					.	0.175	0.443
Skewness					-2.5254*	-2.266*	-0.2601
Kurtosis					5.2604*	4.6636*	-1.4828
Replicate F					1.000	5.557	0.936
Replicate Prob(F)					0.3840	0.0111	0.4074
Treatment F					326.182	20.062	11.527
Treatment Prob(F)					0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	VERAG
Pest Scientific Name	Stellaria media	Lamium purpure>	Veronica agres>
Pest Name	Common chickwe>	Purple deadnet>	Field speedwell
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	5-12-2015	5-12-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	183 13	183 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	4 DE-1	4 DE-1	4 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	7	8	9
1	UNTREATED						0 b	0 c	0 b
2	AUTHORITY MTZ	14 oz/a		A	Fall		100 a	100 a	100 a
2	WEEDMASTER	32 oz/a		A	Fall				
2	COC	1 % v/v		A	Fall				
2	AMMONIUM SULFATE	2.5 % v/v		A	Fall				
2	ROUNDUP POWERMAX	32 oz/a		B	Pre				
2	ANTHEM MAXX	2.25 oz/a		B	Pre				
2	AATREX	1 qt/a		B	Pre				
2	AMMONIUM SULFATE	2.5 % v/v		B	Pre				
2	CADET	0.6 oz/a		E	Late Post				
2	AATREX	1 qt/a		E	Late Post				
2	LIBERTY 280 SL	28 oz/a		E	Late Post				
2	COC	1 % v/v		E	Late Post				
3	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
3	WEEDMASTER	32 oz/a		A	FALL				
3	COC	1 % v/v		A	FALL				
3	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
3	ROUNDUP POWERMAX	32 oz/a		B	PRE				
3	ANTHEM MAXX	2.25 oz/a		B	PRE				
3	AATREX	1 qt/a		B	PRE				
3	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
3	CADET	0.6 oz/a		E	Late Post				
3	AATREX	1 qt/a		E	Late Post				
3	LIBERTY 280 SL	28 oz/a		E	Late Post				
3	COC	1 % v/v		E	Late Post				
4	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
4	WEEDMASTER	32 oz/a		A	FALL				
4	COC	1 % v/v		A	FALL				
4	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
4	ANTHEM MAXX	2.25 oz/a		C	Early Post				
4	AATREX	1.5 qt/a		C	Early Post				
4	LIBERTY 280 SL	28 oz/a		C	Early Post				
4	COC	1 % v/v		C	Early Post				

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Pest Type	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	VERAG
Pest Scientific Name	Stellaria media	Lamium purpure>	Veronica agres>
Pest Name	Common chickwe>	Purple deadnet>	Field speedwell
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	5-12-2015	5-12-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	183 13	183 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	4 DE-1	4 DE-1	4 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	7	8	9
5	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
5	WEEDMASTER	32 oz/a		A	FALL				
5	COC	1 % v/v		A	FALL				
5	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
5	SOLSTICE	3 oz/a		D	POST				
5	AATREX	1 qt/a		D	POST				
5	LIBERTY 280 SL	28 oz/a		D	POST				
5	COC	1 % v/v		D	POST				
6	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
6	AIM	1 oz/a		A	FALL				
6	2,4-D ESTER	1 pt/a		A	FALL				
6	EXPRESS SG	0.1 oz/a		A	FALL				
6	NIS	0.25 % v/v		A	FALL				
6	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
6	SOLSTICE	3 oz/a		D	POST				
6	AATREX	1 qt/a		D	POST				
6	LIBERTY 280 SL	28 oz/a		D	POST				
6	COC	1 % v/v		D	POST				
7	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
7	WEEDMASTER	32 oz/a		A	FALL				
7	ROUNDUP POWERMAX	32 oz/a		A	FALL				
7	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
7	SOLSTICE	3 oz/a		C	Early Post				
7	AATREX	1 qt/a		C	Early Post				
7	LIBERTY 280 SL	28 oz/a		C	Early Post				
7	COC	1 % v/v		C	Early Post				
8	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	100 a
8	WEEDMASTER	32 oz/a		A	FALL				
8	ROUNDUP POWERMAX	32 oz/a		A	FALL				
8	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
8	ANTHEM MAXX	2.25 oz/a		B	PRE				
8	AATREX	1 qt/a		B	PRE				
8	ROUNDUP POWERMAX	32 oz/a		B	PRE				
8	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
8	SOLSTICE	3 oz/a		E	Late Post				
8	AATREX	1 qt/a		E	Late Post				
8	LIBERTY 280 SL	28 oz/a		E	Late Post				
8	COC	1 % v/v		E	Late Post				
8					Late Post				

Pest Type	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	VERAG
Pest Scientific Name	Stellaria media	Lamium purpure>	Veronica agres>
Pest Name	Common chickwe>	Purple deadnet>	Field speedwell
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	5-12-2015	5-12-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	183 13	183 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	4 DE-1	4 DE-1	4 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	7	8	9
9	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	100 a
9	WEEDMASTER	32 oz/a		A	FALL			
9	ROUNDUP POWERMAX	32 oz/a		A	FALL			
9	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
9	ANTHEM MAXX	2.25 oz/a		B	PRE			
9	SENCOR	3 oz/a		B	PRE			
9	ROUNDUP POWERMAX	32 oz/a		B	PRE			
9	AMMONIUM SULFATE	2.5 % v/v		B	PRE			
9	SOLSTICE	3 oz/a		E	Late Post			
9	AATREX	1 qt/a		E	Late Post			
9	LIBERTY 280 SL	28 oz/a		E	Late Post			
9	COC	1 % v/v		E	Late Post			
10	AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	100 a
10	WEEDMASTER	32 oz/a		A	FALL			
10	ROUNDUP POWERMAX	32 oz/a		A	FALL			
10	AMMONIUM SULFATE	2.5 % v/v		A	FALL			
10	ANTHEM MAXX	2.25 oz/a		B	PRE			
10	ROUNDUP POWERMAX	32 oz/a		B	PRE			
10	AMMONIUM SULFATE	2.5 % v/v		B	PRE			
10	SOLSTICE	3 oz/a		E	Late Post			
10	SENCOR	3 oz/a		E	Late Post			
10	LIBERTY 280 SL	28 oz/a		E	Late Post			
10	COC	1 % v/v		E	Late Post			
11	SIMAZINE	2 qt/a		A	FALL	100 a	93 b	100 a
11	WEEDMASTER	32 oz/a		A	FALL			
11	AUTHORITY MTZ	5.5 oz/a		B	PRE			
11	ANTHEM MAXX	2.25 oz/a		B	PRE			
11	ROUNDUP POWERMAX	32 oz/a		B	PRE			
11	SOLSTICE	3 oz/a		E	Late Post			
11	AATREX	1 qt/a		E	Late Post			
11	LIBERTY 280 SL	28 oz/a		E	Late Post			
11	COC	1 % v/v		E	Late Post			

Pest Type	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	VERAG
Pest Scientific Name	Stellaria media	Lamium purpure>	Veronica agres>
Pest Name	Common chickwe>	Purple deadnet>	Field speedwell
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	5-12-2015	5-12-2015	5-12-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	183 13	183 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	4 DE-1	4 DE-1	4 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	7	8	9
12	AUTHORITY MTZ	8 oz/a			A	FALL	100 a	100 a	100 a
12	WEEDMASTER	32 oz/a			A	FALL			
12	COC	1 % v/v			A	FALL			
12	AMMONIUM SULFATE	2.5 % v/v			A	FALL			
12	ANTHEM MAXX	2.25 oz/a			C	Early Post			
12	SOLSTICE	3 oz/a			C	Early Post			
12	AATREX	1 qt/a			C	Early Post			
12	LIBERTY 280 SL	28 oz/a			C	Early Post			
12	COC	1 % v/v			C	Early Post			

LSD P=.05	.	5.6	.
Standard Deviation	0.0	3.3	0.0
CV	0.0	3.66	0.0
Grand Mean	91.7	91.1	91.7
Bartlett's X2	0.0	0.0	0.0
P(Bartlett's X2)	.	.	.
Skewness	-3.1478*	-3.0784*	-3.1478*
Kurtosis	8.3714*	8.0491*	8.3714*
Replicate F	0.000	1.000	0.000
Replicate Prob(F)	1.0000	0.3840	1.0000
Treatment F	0.000	223.273	0.000
Treatment Prob(F)	1.0000	0.0001	1.0000

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canadens>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Giant foxtail
Crop Code		ZEAMS	
BBCH Scale		BCOR	
Crop Scientific Name		Zea mays sacch>	
Crop Name		Sweet corn	
Rating Date	5-12-2015	5-27-2015	5-27-2015
Rating Type	CONTRO	PHYNEC	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	198 5	198 5
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1
Days After Emergence	4 DE-1	19 DE-1	19 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Code Description	10	11	12	13
1 UNTREATED					0 c	0 d	0 f	0 e
2 AUTHORITY MTZ	14 oz/a		A	Fall	100 a	2 cd	100 a	88 b
2 WEEDMASTER	32 oz/a		A	Fall				
2 COC	1 % v/v		A	Fall				
2 AMMONIUM SULFATE	2.5 % v/v		A	Fall				
2 ROUNDUP POWERMAX	32 oz/a		B	Pre				
2 ANTHEM MAXX	2.25 oz/a		B	Pre				
2 AATREX	1 qt/a		B	Pre				
2 AMMONIUM SULFATE	2.5 % v/v		B	Pre				
2 CADET	0.6 oz/a		E	Late Post				
2 AATREX	1 qt/a		E	Late Post				
2 LIBERTY 280 SL	28 oz/a		E	Late Post				
2 COC	1 % v/v		E	Late Post				
3 AUTHORITY MTZ	8 oz/a		A	FALL	100 a	0 d	100 a	88 b
3 WEEDMASTER	32 oz/a		A	FALL				
3 COC	1 % v/v		A	FALL				
3 AMMONIUM SULFATE	2.5 % v/v		A	FALL				
3 ROUNDUP POWERMAX	32 oz/a		B	PRE				
3 ANTHEM MAXX	2.25 oz/a		B	PRE				
3 AATREX	1 qt/a		B	PRE				
3 AMMONIUM SULFATE	2.5 % v/v		B	PRE				
3 CADET	0.6 oz/a		E	Late Post				
3 AATREX	1 qt/a		E	Late Post				
3 LIBERTY 280 SL	28 oz/a		E	Late Post				
3 COC	1 % v/v		E	Late Post				
4 AUTHORITY MTZ	8 oz/a		A	FALL	10 bc	3 c	100 a	96 a
4 WEEDMASTER	32 oz/a		A	FALL				
4 COC	1 % v/v		A	FALL				
4 AMMONIUM SULFATE	2.5 % v/v		A	FALL				
4 ANTHEM MAXX	2.25 oz/a		C	Early Post				
4 AATREX	1.5 qt/a		C	Early Post				
4 LIBERTY 280 SL	28 oz/a		C	Early Post				
4 COC	1 % v/v		C	Early Post				

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canad>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Giant foxtail
Crop Code		ZEAMS	
BBCH Scale		BCOR	
Crop Scientific Name		Zea mays sacch>	
Crop Name		Sweet corn	
Rating Date	5-12-2015	5-27-2015	5-27-2015
Rating Type	CONTRO	PHYNEC	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	198 5	198 5
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1
Days After Emergence	4 DE-1	19 DE-1	19 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	10	11	12	13
5	AUTHORITY MTZ	8 oz/a		A	FALL		20 bc	8 b	67 d	85 bc
5	WEEDMASTER	32 oz/a		A	FALL					
5	COC	1 % v/v		A	FALL					
5	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
5	SOLSTICE	3 oz/a		D	POST					
5	AATREX	1 qt/a		D	POST					
5	LIBERTY 280 SL	28 oz/a		D	POST					
5	COC	1 % v/v		D	POST					
6	AUTHORITY MTZ	8 oz/a		A	FALL		30 bc	12 a	83 bc	83 bcd
6	AIM	1 oz/a		A	FALL					
6	2,4-D ESTER	1 pt/a		A	FALL					
6	EXPRESS SG	0.1 oz/a		A	FALL					
6	NIS	0.25 % v/v		A	FALL					
6	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
6	SOLSTICE	3 oz/a		D	POST					
6	AATREX	1 qt/a		D	POST					
6	LIBERTY 280 SL	28 oz/a		D	POST					
6	COC	1 % v/v		D	POST					
7	AUTHORITY MTZ	8 oz/a		A	FALL		37 b	2 cd	100 a	97 a
7	WEEDMASTER	32 oz/a		A	FALL					
7	ROUNDUP POWERMAX	32 oz/a		A	FALL					
7	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
7	SOLSTICE	3 oz/a		C	Early Post					
7	AATREX	1 qt/a		C	Early Post					
7	LIBERTY 280 SL	28 oz/a		C	Early Post					
7	COC	1 % v/v		C	Early Post					
8	AUTHORITY MTZ	8 oz/a		A	FALL		97 a	0 d	93 ab	83 bcd
8	WEEDMASTER	32 oz/a		A	FALL					
8	ROUNDUP POWERMAX	32 oz/a		A	FALL					
8	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
8	ANTHEM MAXX	2.25 oz/a		B	PRE					
8	AATREX	1 qt/a		B	PRE					
8	ROUNDUP POWERMAX	32 oz/a		B	PRE					
8	AMMONIUM SULFATE	2.5 % v/v		B	PRE					
8	SOLSTICE	3 oz/a		E	Late Post					
8	AATREX	1 qt/a		E	Late Post					
8	LIBERTY 280 SL	28 oz/a		E	Late Post					
8	COC	1 % v/v		E	Late Post					
8					Late Post					

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Giant foxtail
Crop Code		ZEAMS	
BBCH Scale		BCOR	
Crop Scientific Name		Zea mays sacch>	
Crop Name		Sweet corn	
Rating Date	5-12-2015	5-27-2015	5-27-2015
Rating Type	CONTRO	PHYNEC	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	198 5	198 5
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1
Days After Emergence	4 DE-1	19 DE-1	19 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	10	11	12	13
9	AUTHORITY MTZ	8 oz/a		A	FALL	88 a	0 d	75 cd	80 cd
9	WEEDMASTER	32 oz/a		A	FALL				
9	ROUNDUP POWERMAX	32 oz/a		A	FALL				
9	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
9	ANTHEM MAXX	2.25 oz/a		B	PRE				
9	SENCOR	3 oz/a		B	PRE				
9	ROUNDUP POWERMAX	32 oz/a		B	PRE				
9	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
9	SOLSTICE	3 oz/a		E	Late Post				
9	AATREX	1 qt/a		E	Late Post				
9	LIBERTY 280 SL	28 oz/a		E	Late Post				
9	COC	1 % v/v		E	Late Post				
10	AUTHORITY MTZ	8 oz/a		A	FALL	80 a	0 d	37 e	77 d
10	WEEDMASTER	32 oz/a		A	FALL				
10	ROUNDUP POWERMAX	32 oz/a		A	FALL				
10	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
10	ANTHEM MAXX	2.25 oz/a		B	PRE				
10	ROUNDUP POWERMAX	32 oz/a		B	PRE				
10	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
10	SOLSTICE	3 oz/a		E	Late Post				
10	SENCOR	3 oz/a		E	Late Post				
10	LIBERTY 280 SL	28 oz/a		E	Late Post				
10	COC	1 % v/v		E	Late Post				
11	SIMAZINE	2 qt/a		A	FALL	80 a	0 d	43 e	85 bc
11	WEEDMASTER	32 oz/a		A	FALL				
11	AUTHORITY MTZ	5.5 oz/a		B	PRE				
11	ANTHEM MAXX	2.25 oz/a		B	PRE				
11	ROUNDUP POWERMAX	32 oz/a		B	PRE				
11	SOLSTICE	3 oz/a		E	Late Post				
11	AATREX	1 qt/a		E	Late Post				
11	LIBERTY 280 SL	28 oz/a		E	Late Post				
11	COC	1 % v/v		E	Late Post				

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Giant foxtail
Crop Code	ZEAMS		
BBCH Scale	BCOR		
Crop Scientific Name	Zea mays sacch>		
Crop Name	Sweet corn		
Rating Date	5-12-2015	5-27-2015	5-27-2015
Rating Type	CONTRO	PHYNEC	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	183 13	198 5	198 5
Trt-Eval Interval	13 DA-B	28 DA-B	28 DA-B
Plant-Eval Interval	13 DP-1	28 DP-1	28 DP-1
Days After Emergence	4 DE-1	19 DE-1	19 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	10	11	12	13
12 AUTHORITY MTZ	8 oz/a		A	FALL	70 a	7 b	100 a	100 a
12 WEEDMASTER	32 oz/a		A	FALL				
12 COC	1 % v/v		A	FALL				
12 AMMONIUM SULFATE	2.5 % v/v		A	FALL				
12 ANTHEM MAXX	2.25 oz/a		C	Early Post				
12 SOLSTICE	3 oz/a		C	Early Post				
12 AATREX	1 qt/a		C	Early Post				
12 LIBERTY 280 SL	28 oz/a		C	Early Post				
12 COC	1 % v/v		C	Early Post				
LSD P=.05					30.4	2.8	13.2	7.6
Standard Deviation					17.9	1.7	7.8	4.5
CV					30.24	60.0	10.39	5.6
Grand Mean					59.3	2.8	74.9	80.2
Bartlett's X2					7.476	0.0	3.475	2.2
P(Bartlett's X2)					0.188	.	0.627	0.974
Skewness					-0.5	1.3291*	-1.1665*	-2.5487*
Kurtosis					-1.3896	0.7448	0.2934	6.1007*
Replicate F					1.363	7.000	2.076	11.663
Replicate Prob(F)					0.2767	0.0044	0.1493	0.0004
Treatment F					13.051	17.091	52.691	102.037
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	ERICA
Pest Scientific Name	Ambrosia trifida	Chenopodium album	Conyza canadensis
Pest Name	Giant ragweed	Common lambsquarters	Canada horseweed
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Scientific Name			Zea mays
Crop Name			Corn
Rating Date	5-27-2015	5-27-2015	6-30-2015
Rating Type	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	198 5	198 5	232 27
Trt-Eval Interval	28 DA-B	28 DA-B	46 DA-C
Plant-Eval Interval	28 DP-1	28 DP-1	62 DP-1
Days After Emergence	19 DE-1	19 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	14	15	16	17
1	UNTREATED						0 f	0 d	0 d	0 c
2	AUTHORITY MTZ	14 oz/a		A	Fall		93 ab	95 ab	5 a	100 a
2	WEEDMASTER	32 oz/a		A	Fall					
2	COC	1 % v/v		A	Fall					
2	AMMONIUM SULFATE	2.5 % v/v		A	Fall					
2	ROUNDUP POWERMAX	32 oz/a		B	Pre					
2	ANTHEM MAXX	2.25 oz/a		B	Pre					
2	AATREX	1 qt/a		B	Pre					
2	AMMONIUM SULFATE	2.5 % v/v		B	Pre					
2	CADET	0.6 oz/a		E	Late Post					
2	AATREX	1 qt/a		E	Late Post					
2	LIBERTY 280 SL	28 oz/a		E	Late Post					
2	COC	1 % v/v		E	Late Post					
3	AUTHORITY MTZ	8 oz/a		A	FALL		83 bc	93 ab	4 ab	100 a
3	WEEDMASTER	32 oz/a		A	FALL					
3	COC	1 % v/v		A	FALL					
3	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
3	ROUNDUP POWERMAX	32 oz/a		B	PRE					
3	ANTHEM MAXX	2.25 oz/a		B	PRE					
3	AATREX	1 qt/a		B	PRE					
3	AMMONIUM SULFATE	2.5 % v/v		B	PRE					
3	CADET	0.6 oz/a		E	Late Post					
3	AATREX	1 qt/a		E	Late Post					
3	LIBERTY 280 SL	28 oz/a		E	Late Post					
3	COC	1 % v/v		E	Late Post					
4	AUTHORITY MTZ	8 oz/a		A	FALL		98 a	95 ab	0 d	100 a
4	WEEDMASTER	32 oz/a		A	FALL					
4	COC	1 % v/v		A	FALL					
4	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
4	ANTHEM MAXX	2.25 oz/a		C	Early Post					
4	AATREX	1.5 qt/a		C	Early Post					
4	LIBERTY 280 SL	28 oz/a		C	Early Post					
4	COC	1 % v/v		C	Early Post					

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	ERICA
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Conyza canad>
Pest Name	Giant ragweed	Common lambsqu>	Canada horsewe>
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Scientific Name			Zea mays
Crop Name			Corn
Rating Date	5-27-2015	5-27-2015	6-30-2015
Rating Type	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	198 5	198 5	232 27
Trt-Eval Interval	28 DA-B	28 DA-B	46 DA-C
Plant-Eval Interval	28 DP-1	28 DP-1	62 DP-1
Days After Emergence	19 DE-1	19 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	14	15	16	17
5	AUTHORITY MTZ	8 oz/a		A	FALL		80 cd	98 ab	2 bc	100 a
5	WEEDMASTER	32 oz/a		A	FALL					
5	COC	1 % v/v		A	FALL					
5	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
5	SOLSTICE	3 oz/a		D	POST					
5	AATREX	1 qt/a		D	POST					
5	LIBERTY 280 SL	28 oz/a		D	POST					
5	COC	1 % v/v		D	POST					
6	AUTHORITY MTZ	8 oz/a		A	FALL		78 cde	90 ab	1 cd	100 a
6	AIM	1 oz/a		A	FALL					
6	2,4-D ESTER	1 pt/a		A	FALL					
6	EXPRESS SG	0.1 oz/a		A	FALL					
6	NIS	0.25 % v/v		A	FALL					
6	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
6	SOLSTICE	3 oz/a		D	POST					
6	AATREX	1 qt/a		D	POST					
6	LIBERTY 280 SL	28 oz/a		D	POST					
6	COC	1 % v/v		D	POST					
7	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	100 a	0 d	100 a
7	WEEDMASTER	32 oz/a		A	FALL					
7	ROUNDUP POWERMAX	32 oz/a		A	FALL					
7	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
7	SOLSTICE	3 oz/a		C	Early Post					
7	AATREX	1 qt/a		C	Early Post					
7	LIBERTY 280 SL	28 oz/a		C	Early Post					
7	COC	1 % v/v		C	Early Post					
8	AUTHORITY MTZ	8 oz/a		A	FALL		82 bcd	78 bc	1 cd	100 a
8	WEEDMASTER	32 oz/a		A	FALL					
8	ROUNDUP POWERMAX	32 oz/a		A	FALL					
8	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
8	ANTHEM MAXX	2.25 oz/a		B	PRE					
8	AATREX	1 qt/a		B	PRE					
8	ROUNDUP POWERMAX	32 oz/a		B	PRE					
8	AMMONIUM SULFATE	2.5 % v/v		B	PRE					
8	SOLSTICE	3 oz/a		E	Late Post					
8	AATREX	1 qt/a		E	Late Post					
8	LIBERTY 280 SL	28 oz/a		E	Late Post					
8	COC	1 % v/v		E	Late Post					
8					Late Post					

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	ERICA
Pest Scientific Name	Ambrosia trifida	Chenopodium album	Conyza canadensis
Pest Name	Giant ragweed	Common lambsquarters	Canada horseweed
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Scientific Name			Zea mays
Crop Name			Corn
Rating Date	5-27-2015	5-27-2015	6-30-2015
Rating Type	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	198 5	198 5	232 27
Trt-Eval Interval	28 DA-B	28 DA-B	46 DA-C
Plant-Eval Interval	28 DP-1	28 DP-1	62 DP-1
Days After Emergence	19 DE-1	19 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	14	15	16	17
9	AUTHORITY MTZ	8 oz/a		A	FALL		67 e	82 ab	4 a	100 a
9	WEEDMASTER	32 oz/a		A	FALL					
9	ROUNDUP POWERMAX	32 oz/a		A	FALL					
9	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
9	ANTHEM MAXX	2.25 oz/a		B	PRE					
9	SENCOR	3 oz/a		B	PRE					
9	ROUNDUP POWERMAX	32 oz/a		B	PRE					
9	AMMONIUM SULFATE	2.5 % v/v		B	PRE					
9	SOLSTICE	3 oz/a		E	Late Post					
9	AATREX	1 qt/a		E	Late Post					
9	LIBERTY 280 SL	28 oz/a		E	Late Post					
9	COC	1 % v/v		E	Late Post					
10	AUTHORITY MTZ	8 oz/a		A	FALL		67 e	80 abc	4 a	83 b
10	WEEDMASTER	32 oz/a		A	FALL					
10	ROUNDUP POWERMAX	32 oz/a		A	FALL					
10	AMMONIUM SULFATE	2.5 % v/v		A	FALL					
10	ANTHEM MAXX	2.25 oz/a		B	PRE					
10	ROUNDUP POWERMAX	32 oz/a		B	PRE					
10	AMMONIUM SULFATE	2.5 % v/v		B	PRE					
10	SOLSTICE	3 oz/a		E	Late Post					
10	SENCOR	3 oz/a		E	Late Post					
10	LIBERTY 280 SL	28 oz/a		E	Late Post					
10	COC	1 % v/v		E	Late Post					
11	SIMAZINE	2 qt/a		A	FALL		70 de	60 c	4 a	95 a
11	WEEDMASTER	32 oz/a		A	FALL					
11	AUTHORITY MTZ	5.5 oz/a		B	PRE					
11	ANTHEM MAXX	2.25 oz/a		B	PRE					
11	ROUNDUP POWERMAX	32 oz/a		B	PRE					
11	SOLSTICE	3 oz/a		E	Late Post					
11	AATREX	1 qt/a		E	Late Post					
11	LIBERTY 280 SL	28 oz/a		E	Late Post					
11	COC	1 % v/v		E	Late Post					

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Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	ERICA
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Conyza canad>
Pest Name	Giant ragweed	Common lambsqu>	Canada horsewe>
Crop Code			ZEAMX
BBCH Scale			BCOR
Crop Scientific Name			Zea mays
Crop Name			Corn
Rating Date	5-27-2015	5-27-2015	6-30-2015
Rating Type	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	198 5	198 5	232 27
Trt-Eval Interval	28 DA-B	28 DA-B	46 DA-C
Plant-Eval Interval	28 DP-1	28 DP-1	62 DP-1
Days After Emergence	19 DE-1	19 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	14	15	16	17
12 AUTHORITY MTZ	8 oz/a		A	FALL	100 a	100 a	0 d	100 a
12 WEEDMASTER	32 oz/a		A	FALL				
12 COC	1 % v/v		A	FALL				
12 AMMONIUM SULFATE	2.5 % v/v		A	FALL				
12 ANTHEM MAXX	2.25 oz/a		C	Early Post				
12 SOLSTICE	3 oz/a		C	Early Post				
12 AATREX	1 qt/a		C	Early Post				
12 LIBERTY 280 SL	28 oz/a		C	Early Post				
12 COC	1 % v/v		C	Early Post				
LSD P=.05					12.5	20.6	1.9	8.6
Standard Deviation					7.4	12.1	1.1	5.1
CV					9.68	14.99	52.06	5.62
Grand Mean					76.5	81.0	2.1	89.9
Bartlett's X2					6.377	8.516	1.041	0.49
P(Bartlett's X2)					0.496	0.385	0.984	0.484
Skewness					-1.897*	-1.9671*	0.215	-2.9127*
Kurtosis					3.5742*	3.2677*	-1.7267*	7.2836*
Replicate F					0.900	0.090	0.560	0.109
Replicate Prob(F)					0.4208	0.9146	0.5791	0.8973
Treatment F					39.974	16.032	10.092	96.978
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	6-30-2015	6-30-2015	6-30-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	232 27	232 27	232 27
Trt-Eval Interval	46 DA-C	46 DA-C	46 DA-C
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	53 DE-1	53 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	18	19	20
1	UNTREATED						0 d	0 d	0 c
2	AUTHORITY MTZ	14 oz/a		A	Fall		100 a	93 abc	100 a
2	WEEDMASTER	32 oz/a		A	Fall				
2	COC	1 % v/v		A	Fall				
2	AMMONIUM SULFATE	2.5 % v/v		A	Fall				
2	ROUNDUP POWERMAX	32 oz/a		B	Pre				
2	ANTHEM MAXX	2.25 oz/a		B	Pre				
2	AATREX	1 qt/a		B	Pre				
2	AMMONIUM SULFATE	2.5 % v/v		B	Pre				
2	CADET	0.6 oz/a		E	Late Post				
2	AATREX	1 qt/a		E	Late Post				
2	LIBERTY 280 SL	28 oz/a		E	Late Post				
2	COC	1 % v/v		E	Late Post				
3	AUTHORITY MTZ	8 oz/a		A	FALL		94 ab	98 a	89 ab
3	WEEDMASTER	32 oz/a		A	FALL				
3	COC	1 % v/v		A	FALL				
3	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
3	ROUNDUP POWERMAX	32 oz/a		B	PRE				
3	ANTHEM MAXX	2.25 oz/a		B	PRE				
3	AATREX	1 qt/a		B	PRE				
3	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
3	CADET	0.6 oz/a		E	Late Post				
3	AATREX	1 qt/a		E	Late Post				
3	LIBERTY 280 SL	28 oz/a		E	Late Post				
3	COC	1 % v/v		E	Late Post				
4	AUTHORITY MTZ	8 oz/a		A	FALL		89 bc	88 abc	79 b
4	WEEDMASTER	32 oz/a		A	FALL				
4	COC	1 % v/v		A	FALL				
4	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
4	ANTHEM MAXX	2.25 oz/a		C	Early Post				
4	AATREX	1.5 qt/a		C	Early Post				
4	LIBERTY 280 SL	28 oz/a		C	Early Post				
4	COC	1 % v/v		C	Early Post				

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	6-30-2015	6-30-2015	6-30-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	232 27	232 27	232 27
Trt-Eval Interval	46 DA-C	46 DA-C	46 DA-C
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	53 DE-1	53 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	18	19	20
5	AUTHORITY MTZ	8 oz/a		A	FALL		83 c	95 ab	88 ab
5	WEEDMASTER	32 oz/a		A	FALL				
5	COC	1 % v/v		A	FALL				
5	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
5	SOLSTICE	3 oz/a		D	POST				
5	AATREX	1 qt/a		D	POST				
5	LIBERTY 280 SL	28 oz/a		D	POST				
5	COC	1 % v/v		D	POST				
6	AUTHORITY MTZ	8 oz/a		A	FALL		82 c	93 abc	88 ab
6	AIM	1 oz/a		A	FALL				
6	2,4-D ESTER	1 pt/a		A	FALL				
6	EXPRESS SG	0.1 oz/a		A	FALL				
6	NIS	0.25 % v/v		A	FALL				
6	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
6	SOLSTICE	3 oz/a		D	POST				
6	AATREX	1 qt/a		D	POST				
6	LIBERTY 280 SL	28 oz/a		D	POST				
6	COC	1 % v/v		D	POST				
7	AUTHORITY MTZ	8 oz/a		A	FALL		82 c	86 bc	97 a
7	WEEDMASTER	32 oz/a		A	FALL				
7	ROUNDUP POWERMAX	32 oz/a		A	FALL				
7	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
7	SOLSTICE	3 oz/a		C	Early Post				
7	AATREX	1 qt/a		C	Early Post				
7	LIBERTY 280 SL	28 oz/a		C	Early Post				
7	COC	1 % v/v		C	Early Post				
8	AUTHORITY MTZ	8 oz/a		A	FALL		90 bc	94 ab	100 a
8	WEEDMASTER	32 oz/a		A	FALL				
8	ROUNDUP POWERMAX	32 oz/a		A	FALL				
8	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
8	ANTHEM MAXX	2.25 oz/a		B	PRE				
8	AATREX	1 qt/a		B	PRE				
8	ROUNDUP POWERMAX	32 oz/a		B	PRE				
8	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
8	SOLSTICE	3 oz/a		E	Late Post				
8	AATREX	1 qt/a		E	Late Post				
8	LIBERTY 280 SL	28 oz/a		E	Late Post				
8	COC	1 % v/v		E	Late Post				
8					Late Post				

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	6-30-2015	6-30-2015	6-30-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	232 27	232 27	232 27
Trt-Eval Interval	46 DA-C	46 DA-C	46 DA-C
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	53 DE-1	53 DE-1	53 DE-1
ARM Action Codes			
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	18	19	20
9	AUTHORITY MTZ	8 oz/a		A	FALL		100 a	98 a	100 a
9	WEEDMASTER	32 oz/a		A	FALL				
9	ROUNDUP POWERMAX	32 oz/a		A	FALL				
9	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
9	ANTHEM MAXX	2.25 oz/a		B	PRE				
9	SENCOR	3 oz/a		B	PRE				
9	ROUNDUP POWERMAX	32 oz/a		B	PRE				
9	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
9	SOLSTICE	3 oz/a		E	Late Post				
9	AATREX	1 qt/a		E	Late Post				
9	LIBERTY 280 SL	28 oz/a		E	Late Post				
9	COC	1 % v/v		E	Late Post				
10	AUTHORITY MTZ	8 oz/a		A	FALL		87 bc	83 c	90 ab
10	WEEDMASTER	32 oz/a		A	FALL				
10	ROUNDUP POWERMAX	32 oz/a		A	FALL				
10	AMMONIUM SULFATE	2.5 % v/v		A	FALL				
10	ANTHEM MAXX	2.25 oz/a		B	PRE				
10	ROUNDUP POWERMAX	32 oz/a		B	PRE				
10	AMMONIUM SULFATE	2.5 % v/v		B	PRE				
10	SOLSTICE	3 oz/a		E	Late Post				
10	SENCOR	3 oz/a		E	Late Post				
10	LIBERTY 280 SL	28 oz/a		E	Late Post				
10	COC	1 % v/v		E	Late Post				
11	SIMAZINE	2 qt/a		A	FALL		88 bc	95 ab	95 ab
11	WEEDMASTER	32 oz/a		A	FALL				
11	AUTHORITY MTZ	5.5 oz/a		B	PRE				
11	ANTHEM MAXX	2.25 oz/a		B	PRE				
11	ROUNDUP POWERMAX	32 oz/a		B	PRE				
11	SOLSTICE	3 oz/a		E	Late Post				
11	AATREX	1 qt/a		E	Late Post				
11	LIBERTY 280 SL	28 oz/a		E	Late Post				
11	COC	1 % v/v		E	Late Post				

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR	CHEAL	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-30-2015	6-30-2015	6-30-2015	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Number of Subsamples	1	1	1	
Days After First/Last Applic.	232 27	232 27	232 27	
Trt-Eval Interval	46 DA-C	46 DA-C	46 DA-C	
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	
Days After Emergence	53 DE-1	53 DE-1	53 DE-1	
ARM Action Codes				
Number of Decimals	0	0	0	
Trt Treatment	Other	Other	Appl	Appl
No. Name	Rate	Rate	Unit	Description
12 AUTHORITY MTZ	8 oz/a		A	FALL
12 WEEDMASTER	32 oz/a		A	FALL
12 COC	1 % v/v		A	FALL
12 AMMONIUM SULFATE	2.5 % v/v		A	FALL
12 ANTHEM MAXX	2.25 oz/a		C	Early Post
12 SOLSTICE	3 oz/a		C	Early Post
12 AATREX	1 qt/a		C	Early Post
12 LIBERTY 280 SL	28 oz/a		C	Early Post
12 COC	1 % v/v		C	Early Post
LSD P=.05		8.8	11.2	17.2
Standard Deviation		5.2	6.6	10.1
CV		6.37	7.87	11.86
Grand Mean		81.9	84.4	85.5
Bartlett's X2		16.563	8.702	14.993
P(Bartlett's X2)		0.056	0.561	0.036*
Skewness		-2.6852*	-2.718*	-2.4694*
Kurtosis		6.6012*	6.6641*	5.2919*
Replicate F		2.606	2.881	2.542
Replicate Prob(F)		0.0965	0.0774	0.1016
Treatment F		77.474	49.632	22.394
Treatment Prob(F)		0.0001	0.0001	0.0001

2014/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Trial ID: 15FALLCORN1	Location: Western Branch F-9 W	Trial Year: 2015
Protocol ID: SULF.COR.14.JPR.01	Investigator: Dr. Mark M. Loux	
Project ID:	Study Director: Anthony Dobbels	
	Sponsor Contact: Joe Reed, FMC	

Pest Type

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

Pest Code

ERICA, Conyza canadensis, = US
 STEME, Stellaria media, = US
 LAMPU, Lamium purpureum, = US
 VERAG, Veronica agrestis, = US
 AMBTR, Ambrosia trifida, = US
 SETFA, Setaria faberi, = US
 CHEAL, Chenopodium album, = US

Crop Code

ZEAMS, BCOR, Zea mays saccharata, = US
 ZEAMX, BCOR, Zea mays, = US

Rating Type

CONTRO = control / burndown or knockdown
 PHYNEC = phytotoxicity - necrosis /burn

Rating Unit

% = percent

Plant-Eval Interval

-1 DP-1 = 1 ZEAMX 4-29-2015
 13 DP-1 = 1 ZEAMX 4-29-2015
 28 DP-1 = 1 ZEAMX 4-29-2015
 62 DP-1 = 1 ZEAMX 4-29-2015

ARM Action Codes

AA = Automatic arcsine square root % transformation