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2013/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/
 Trial ID: 14FALLSOY1 Location: Trial Year: 2014
 Protocol ID: SULF.SOY.13.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Crop 1: GLXMA Glycine max
Variety: Seed Consultants SC9314RR
Crop Description: Soybean
BBCH Scale: BSOY
Planting Rate, Unit: 155507 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: MEDTRA medium/trashy
Planting Date: May-4-2014
Planting Method: SEEDED seeded
Planting Equipment: FE Field Equipment
Emergence Date: May-15-2014

Pest Description

Pest 1 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed

Pest 2 Type: W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel

Pest 3 Type: W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup

Pest 4 Type: W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel

Pest 5 Type: W **Code:** ERYRE *Erysimum repandum*
Common Name: Bushy wallflower

Pest 6 Type: W **Code:** ERPSS *Erophila sp.*
Common Name: Whitlowgrass

Pest 7 Type: W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed

Pest 8 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 12
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 Year
 1. Corn 2013

Soil Description

Description Name: F-10 West
% OM: 1.6 **Texture:** SIC silty clay
pH: 6.6 **Soil Name:** Crosby
CEC: 9 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B	C	D
Application Date:	Nov-8-2013	Apr-24-2014	May-6-2014	May-31-2014
Appl. Start Time:	9:30 AM	9:00 AM	7:00 AM	8:00 AM
Appl. Stop Time:	10:00 AM	9:30 AM	7:15 AM	8:30 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	PREPLA	AT PLANT	POST
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	Reeb	Dobbels	Dobbels	Dobbels
Air Temperature, Unit:	35 F	48.5 F	46 F	69 F
% Relative Humidity:	88	45	72	65
Wind Velocity, Unit:	4 MPH	7 MPH	5 MPH	7 MPH
Wind Direction:	WNW	E	ENE	SE
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	40 F	50 F	44 F	67 F
Soil Moisture:	WET	DRY	MOIST	DRY
% Cloud Cover:	90	20	10	0
Next Moisture Occurred On:	Nov-12-2013	Apr-25-2014	May-10-2014	Jun-2-2014
Time to Next Moisture, Unit:	3 DAY	1 DAY	4 DAY	2 DAY

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Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:				BBCH
Stage Majority, Percent:				13 100
Height, Unit:				3 IN
Height Minimum, Maximum:				3 4

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	STEME	W	STEME	W
Stage Majority, Percent:	19	100		
Diameter, Unit:	4	IN		
Height, Unit:	0.5	IN		
Height Minimum, Maximum:	0.5	1		
Density, Unit:	2	M2		
Pest 2 Code, Type, Scale:	LAMPU	W	LAMPU	W
Stage Majority, Percent:	14	90	65	100
Stage Minimum, Percent:	14	90		
Stage Maximum, Percent:	16	10		
Diameter, Unit:	1	IN	1	IN
Height, Unit:	0.5	IN	2	IN
Height Minimum, Maximum:	0.5	1	2	3
Density, Unit:	30	M2	4	M2
Pest 3 Code, Type, Scale:	RANAB	W	RANAB	W
Stage Majority, Percent:	14	80	65	100
Stage Minimum, Percent:	12	20		
Stage Maximum, Percent:	14	80		
Diameter, Unit:	1	IN	3	IN
Height, Unit:	1	IN	6	IN
Height Minimum, Maximum:	1	2	4	6
Density, Unit:	2	M2	0.33	M2
Pest 4 Code, Type, Scale:	SENGL	W	SENGL	W
Stage Majority, Percent:	14	80		
Stage Minimum, Percent:	14	80		
Stage Maximum, Percent:	16	20		
Diameter, Unit:	4	IN		
Height, Unit:	2	IN		
Height Minimum, Maximum:	1	2		
Density, Unit:	1	M2	1	M2
Pest 5 Code, Type, Scale:	ERYRE	W	ERYRE	W
Stage Majority, Percent:	18	20	59	10
Stage Minimum, Percent:	18	20		
Stage Maximum, Percent:	19	80		
Diameter, Unit:	3	IN	3	IN
Height, Unit:	0.5	IN	4	IN
Height Minimum, Maximum:	0.5	1	3	4
Density, Unit:	0.33	M2	3	M2
Pest 6 Code, Type, Scale:	ERPSS	W	ERPSS	W
Stage Majority, Percent:	18	60		
Stage Minimum, Percent:	18	60		
Stage Maximum, Percent:	19	40		
Diameter, Unit:	0.5	IN		
Height, Unit:	0.125	IN		
Height Minimum, Maximum:	0.125	0.25		
Pest 7 Code, Type, Scale:	ERICA	W	ERICA	W
Stage Majority, Percent:	16	90		19 100
Stage Minimum, Percent:	16	90		
Stage Maximum, Percent:	18	10		
Diameter, Unit:	0.25	IN		
Height, Unit:	0.125	IN	2	IN
Height Minimum, Maximum:	0.125	0.25	2	3
Density, Unit:	0.1	M2		0.1 M2
Pest 8 Code, Type, Scale:	AMBTR	W	AMBTR	W
Stage Majority, Percent:	12	90	12	90
Stage Minimum, Percent:	12	90	12	90
Stage Maximum, Percent:	14	10	14	10
Height, Unit:	1	IN	2	IN
Height Minimum, Maximum:	1	2	1	3
Density, Unit:	6	M2	12	M2

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	Application Equipment			
	A	B	C	D
Appl. Equipment:	6 FOOT BOOM	6 FOOT BOOM	6 FOOT BOOM	Tractor
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	TRMOSP
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI	20 PSI
Nozzle Type:	AI XR	AI XR	AI XR	AI
Nozzle Size:	110015	110015	110015	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	20 IN
Boom Length, Unit:	6.67 FT	10 FT	6.67 FT	10 FOOT
Boom Height, Unit:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3.8 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GAL/AC	15 GPA	15 GAL/AC
Mix Size, Unit:	1 Liters	1 Liters	1 Liters	15 Gallons
Propellant:	CO2	CO2	CO2	PUMROL

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	ERYRE
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Erysimum repan>
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	144 144	144 144	144 144	144 144
Trt-Eval Interval	144 DA-A	144 DA-A	144 DA-A	144 DA-A
Plant-Eval Interval	-33 DP-1	-33 DP-1	-33 DP-1	-33 DP-1
Days After Emergence	-44 DE-1	-44 DE-1	-44 DE-1	-44 DE-1
ARM Action Codes			AA	
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	1	2	3	4
1 UNTREATED					0	0	0	0
2 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
2 WEEDMASTER	32 oz/a	32 oz/a		A				
2 COC	1 % v/v	1 % v/v		A				
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
2 AUTHORITY MAXX	7 oz/a	7 oz/a		B				
2 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
3 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
3 WEEDMASTER	32 oz/a	32 oz/a		A				
3 COC	1 % v/v	1 % v/v		A				
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
3 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B				
3 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
4 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
4 WEEDMASTER	32 oz/a	32 oz/a		A				
4 COC	1 % v/v	1 % v/v		A				
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
4 AUTHORITY XL	4 oz/a	4 oz/a		B				
4 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	ERYRE
Pest Scientific Name	Stellaria media Lamium purpure> Ranunculus abo> Erysimum repa>			
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	144 144	144 144	144 144	144 144
Trt-Eval Interval	144 DA-A	144 DA-A	144 DA-A	144 DA-A
Plant-Eval Interval	-33 DP-1	-33 DP-1	-33 DP-1	-33 DP-1
Days After Emergence	-44 DE-1	-44 DE-1	-44 DE-1	-44 DE-1
ARM Action Codes			AA	
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	1	2	3	4
5	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A		100	95	98	100
5	WEEDMASTER	32 oz/a	32 oz/a		A					
5	COC	1 % v/v	1 % v/v		A					
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
5	AUTHORITY MAXX	6.4 oz/a	6.4 oz/a		B					
5	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
5	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
5	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
6	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A		100	100	100	100
6	WEEDMASTER	32 oz/a	32 oz/a		A					
6	COC	1 % v/v	1 % v/v		A					
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
6	AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B					
6	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
6	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
6	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
7	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A		100	100	100	100
7	WEEDMASTER	32 oz/a	32 oz/a		A					
7	COC	1 % v/v	1 % v/v		A					
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
7	AUTHORITY XL	4 oz/a	4 oz/a		B					
7	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
7	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
7	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
8	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A		100	100	99	100
8	WEEDMASTER	32 oz/a	32 oz/a		A					
8	COC	1 % v/v	1 % v/v		A					
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
8	AUTHORITY MTZ	20 oz/a	20 oz/a		B					
8	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
8	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
8	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	ERYRE
Pest Scientific Name	Stellaria media Lamium purpure> Ranunculus abo> Erysimum repa>			
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	144 144	144 144	144 144	144 144
Trt-Eval Interval	144 DA-A	144 DA-A	144 DA-A	144 DA-A
Plant-Eval Interval	-33 DP-1	-33 DP-1	-33 DP-1	-33 DP-1
Days After Emergence	-44 DE-1	-44 DE-1	-44 DE-1	-44 DE-1
ARM Action Codes			AA	
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	1	2	3	4
9 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
9 WEEDMASTER	32 oz/a	32 oz/a		A				
9 COC	1 % v/v	1 % v/v		A				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
9 AUTHORITY ASSIST	6 oz/a	6 oz/a		B				
9 Sencor 75DF	4 oz/a	4 oz/a		B				
9 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
10 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
10 WEEDMASTER	24 oz/a	24 oz/a		A				
10 COC	1 % v/v	1 % v/v		A				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
10 AUTHORITY ASSIST	6 oz/a	6 oz/a		C				
10 Sencor 75DF	4 oz/a	4 oz/a		C				
10 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
10 NIS	2.5 % v/v	2.5 % v/v		C				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
10 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
11 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	97	100
11 WEEDMASTER	32 oz/a	32 oz/a		A				
11 COC	1 % v/v	1 % v/v		A				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
11 AUTHORITY MTZ	20 oz/a	20 oz/a		C				
11 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
11 NIS	0.25 % v/v	0.25 % v/v		C				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
11 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	144 144	144 144	144 144	144 144
Trt-Eval Interval	144 DA-A	144 DA-A	144 DA-A	144 DA-A
Plant-Eval Interval	-33 DP-1	-33 DP-1	-33 DP-1	-33 DP-1
Days After Emergence	-44 DE-1	-44 DE-1	-44 DE-1	-44 DE-1
ARM Action Codes			AA	
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl
No. Name	Rate Unit	Rate	Rate Unit	Code
12 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A
12 WEEDMASTER	32 oz/a	32 oz/a		A
12 COC	1 % v/v	1 % v/v		A
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A
12 AUTHORITY MTZ	20 oz/a	20 oz/a		C
12 SHARPEN	1 oz/a	1 oz/a		C
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C
12 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D
LSD (P=.05)	0.0	4.2	12.7t	0.0
Standard Deviation	0.0	2.5	7.5t	0.0
CV	0.0	2.74	9.33	0.0
Bartlett's X2	0.0	0.0	2.852	0.0
P(Bartlett's X2)	.	.	0.415	.
Skewness	-3.1478*	-3.1072*	-2.781*	-3.1478*
Kurtosis	8.3714*	8.1889*	6.6404*	8.3714*
Replicate F	0.000	1.000	0.968	0.000
Replicate Prob(F)	1.0000	0.3840	0.3953	1.0000
Treatment F	0.000	397.364	34.896	0.000
Treatment Prob(F)	1.0000	0.0001	0.0001	1.0000

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Pest Code	STEME	LAMPU	RANAB	ERYRE				
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Erysimum repa>				
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>				
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Description								
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	5	5	5	5				
Days After First/Last Applic.	172 5	172 5	172 5	172 5				
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	-7 DA-C				
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	-5 DP-1				
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1				
ARM Action Codes								
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	5	6	7	8
No. Name	Rate Unit	Rate	Rate Unit	Code				
1 UNTREATED					0	0	0	0
2 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	100	100
2 WEEDMASTER	32 oz/a	32 oz/a	A					
2 COC	1 % v/v	1 % v/v	A					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
2 AUTHORITY MAXX	7 oz/a	7 oz/a	B					
2 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
3 AUTHORITY MTZ	8 oz/a	8 oz/a	A		93	100	100	100
3 WEEDMASTER	32 oz/a	32 oz/a	A					
3 COC	1 % v/v	1 % v/v	A					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
3 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a	B					
3 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
4 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	100	100
4 WEEDMASTER	32 oz/a	32 oz/a	A					
4 COC	1 % v/v	1 % v/v	A					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
4 AUTHORITY XL	4 oz/a	4 oz/a	B					
4 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	ERYRE
Pest Scientific Name	Stellaria media Lamium purpure> Ranunculus abo> Erysimum repa>			
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	5	5	5	5
Days After First/Last Applic.	172 5	172 5	172 5	172 5
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	-7 DA-C
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	-5 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	5	6	7	8
5 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	93	98	100	93
5 WEEDMASTER	32 oz/a	32 oz/a		A				
5 COC	1 % v/v	1 % v/v		A				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
5 AUTHORITY MAXX	6.4 oz/a	6.4 oz/a		B				
5 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
6 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	83	100	100	93
6 WEEDMASTER	32 oz/a	32 oz/a		A				
6 COC	1 % v/v	1 % v/v		A				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
6 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
6 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
7 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	100	100
7 WEEDMASTER	32 oz/a	32 oz/a		A				
7 COC	1 % v/v	1 % v/v		A				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
7 AUTHORITY XL	4 oz/a	4 oz/a		B				
7 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
8 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	100	100
8 WEEDMASTER	32 oz/a	32 oz/a		A				
8 COC	1 % v/v	1 % v/v		A				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
8 AUTHORITY MTZ	20 oz/a	20 oz/a		B				
8 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	ERYRE
Pest Scientific Name	Stellaria media Lamium purpure> Ranunculus abo> Erysimum repa>			
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	5	5	5	5
Days After First/Last Applic.	172 5	172 5	172 5	172 5
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	-7 DA-C
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	-5 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	5	6	7	8
9 AUTHORITY MTZ	8 oz/a	8 oz/a	A		97	100	100	100
9 WEEDMASTER	32 oz/a	32 oz/a	A					
9 COC	1 % v/v	1 % v/v	A					
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
9 AUTHORITY ASSIST	6 oz/a	6 oz/a	B					
9 Sencor 75DF	4 oz/a	4 oz/a	B					
9 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
10 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	100	100
10 WEEDMASTER	24 oz/a	24 oz/a	A					
10 COC	1 % v/v	1 % v/v	A					
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
10 AUTHORITY ASSIST	6 oz/a	6 oz/a	C					
10 Sencor 75DF	4 oz/a	4 oz/a	C					
10 GRAMOXONE INTEON	32 oz/a	32 oz/a	C					
10 NIS	2.5 % v/v	2.5 % v/v	C					
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	C					
10 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
11 AUTHORITY XL	3.2 oz/a	3.2 oz/a	A		93	100	87	100
11 WEEDMASTER	32 oz/a	32 oz/a	A					
11 COC	1 % v/v	1 % v/v	A					
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
11 AUTHORITY MTZ	20 oz/a	20 oz/a	C					
11 GRAMOXONE INTEON	32 oz/a	32 oz/a	C					
11 NIS	0.25 % v/v	0.25 % v/v	C					
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	C					
11 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	ERYRE
Pest Scientific Name	Stellaria media Lamium purpure> Ranunculus abo> Erysimum repa>			
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Bushy wallflow>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	5	5	5	5
Days After First/Last Applic.	172 5	172 5	172 5	172 5
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	-7 DA-C
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	-5 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl
No. Name	Rate Unit	Rate	Rate Unit	Code
12 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A
12 WEEDMASTER	32 oz/a	32 oz/a		A
12 COC	1 % v/v	1 % v/v		A
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A
12 AUTHORITY MTZ	20 oz/a	20 oz/a		C
12 SHARPEN	1 oz/a	1 oz/a		C
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C
12 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D
LSD (P=.05)	14.4	1.4	15.2	7.6
Standard Deviation	8.5	0.8	9.0	4.5
CV	9.79	0.91	10.05	4.96
Bartlett's X2	3.986	0.0	0.0	0.0
P(Bartlett's X2)	0.551	.	.	.
Skewness	-2.5902*	-3.143*	-2.7149*	-3.0128*
Kurtosis	5.8928*	8.3512*	6.1811*	7.7521*
Replicate F	1.042	1.000	2.200	2.200
Replicate Prob(F)	0.3695	0.3840	0.1346	0.1346
Treatment F	32.926	3590.091	30.438	121.750
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	SENGL	AMBTR	VERAG	STEME				
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Veronica agres>	Stellaria media				
Pest Name	Cressleaf grou>	Giant ragweed	Field speedwell	Common chickwe>				
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Description								
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	May-16-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	6	7	8	9				
Days After First/Last Applic.	172 5	172 5	172 5	189 10				
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	10 DA-C				
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	12 DP-1				
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	1 DE-1				
ARM Action Codes								
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	9	10	11	12
No. Name	Rate Unit	Rate	Rate Unit	Code				
1 UNTREATED					0	0	0	0
2 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	97	97	100
2 WEEDMASTER	32 oz/a	32 oz/a	A					
2 COC	1 % v/v	1 % v/v	A					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
2 AUTHORITY MAXX	7 oz/a	7 oz/a	B					
2 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
3 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	92	97	100
3 WEEDMASTER	32 oz/a	32 oz/a	A					
3 COC	1 % v/v	1 % v/v	A					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
3 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a	B					
3 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
4 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	88	93	100
4 WEEDMASTER	32 oz/a	32 oz/a	A					
4 COC	1 % v/v	1 % v/v	A					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
4 AUTHORITY XL	4 oz/a	4 oz/a	B					
4 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SENGL	AMBTR	VERAG	STEME
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Veronica agres>	Stellaria media
Pest Name	Cressleaf grou>	Giant ragweed	Field speedwell	Common chickwe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	May-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	6	7	8	9
Days After First/Last Applic.	172 5	172 5	172 5	189 10
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	10 DA-C
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	12 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	1 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	9	10	11	12
5 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	90	80	93
5 WEEDMASTER	32 oz/a	32 oz/a		A				
5 COC	1 % v/v	1 % v/v		A				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
5 AUTHORITY MAXX	6.4 oz/a	6.4 oz/a		B				
5 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
6 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	90	93	97
6 WEEDMASTER	32 oz/a	32 oz/a		A				
6 COC	1 % v/v	1 % v/v		A				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
6 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
6 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
7 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	93	97	92	87
7 WEEDMASTER	32 oz/a	32 oz/a		A				
7 COC	1 % v/v	1 % v/v		A				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
7 AUTHORITY XL	4 oz/a	4 oz/a		B				
7 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
8 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	97	100	100
8 WEEDMASTER	32 oz/a	32 oz/a		A				
8 COC	1 % v/v	1 % v/v		A				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
8 AUTHORITY MTZ	20 oz/a	20 oz/a		B				
8 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SENGL	AMBTR	VERAG	STEME
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Veronica agres>	Stellaria media
Pest Name	Cressleaf grou>	Giant ragweed	Field speedwell	Common chickwe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	May-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	6	7	8	9
Days After First/Last Applic.	172 5	172 5	172 5	189 10
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	10 DA-C
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	12 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	1 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	9	10	11	12
9 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	90	97	100
9 WEEDMASTER	32 oz/a	32 oz/a		A				
9 COC	1 % v/v	1 % v/v		A				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
9 AUTHORITY ASSIST	6 oz/a	6 oz/a		B				
9 Sencor 75DF	4 oz/a	4 oz/a		B				
9 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
10 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	80	92	100
10 WEEDMASTER	24 oz/a	24 oz/a		A				
10 COC	1 % v/v	1 % v/v		A				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
10 AUTHORITY ASSIST	6 oz/a	6 oz/a		C				
10 Sencor 75DF	4 oz/a	4 oz/a		C				
10 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
10 NIS	2.5 % v/v	2.5 % v/v		C				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
10 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
11 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	93	67	73	100
11 WEEDMASTER	32 oz/a	32 oz/a		A				
11 COC	1 % v/v	1 % v/v		A				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
11 AUTHORITY MTZ	20 oz/a	20 oz/a		C				
11 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
11 NIS	0.25 % v/v	0.25 % v/v		C				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
11 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SENGL	AMBTR	VERAG	STEME
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Veronica agres>	Stellaria media
Pest Name	Cressleaf grou>	Giant ragweed	Field speedwell	Common chickwe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	May-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	6	7	8	9
Days After First/Last Applic.	172 5	172 5	172 5	189 10
Trt-Eval Interval	-7 DA-C	-7 DA-C	-7 DA-C	10 DA-C
Plant-Eval Interval	-5 DP-1	-5 DP-1	-5 DP-1	12 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	1 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl
No. Name	Rate Unit	Rate	Rate Unit	Code
12 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A
12 WEEDMASTER	32 oz/a	32 oz/a		A
12 COC	1 % v/v	1 % v/v		A
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A
12 AUTHORITY MTZ	20 oz/a	20 oz/a		C
12 SHARPEN	1 oz/a	1 oz/a		C
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C
12 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D
LSD (P=.05)	9.8	19.1	13.9	15.1
Standard Deviation	5.8	11.3	8.2	8.9
CV	6.42	14.14	10.05	10.04
Bartlett's X2	0.0	8.591	2.726	3.2
P(Bartlett's X2)	.	0.476	0.974	0.362
Skewness	-2.9509*	-2.081*	-2.1962*	-2.7584*
Kurtosis	7.4788*	3.9032*	4.3837*	6.5002*
Replicate F	1.000	0.022	2.348	0.374
Replicate Prob(F)	0.3840	0.9784	0.1190	0.6923
Treatment F	73.091	17.211	34.180	30.251
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	LAMPU	RANAB	ERYRE	SENGL				
Pest Scientific Name	Lamium purpure>	Ranunculus abo>	Erysimum repa>	Senecio glabel>				
Pest Name	Purple deadnet>	Smallflower bu>	Bushy wallflow>	Cressleaf grou>				
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Description								
Rating Date	May-16-2014	May-16-2014	May-16-2014	May-16-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	9	9	9	10				
Days After First/Last Applic.	189 10	189 10	189 10	189 10				
Trt-Eval Interval	10 DA-C	10 DA-C	10 DA-C	10 DA-C				
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1				
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1				
ARM Action Codes								
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	13	14	15	16
No. Name	Rate Unit	Rate	Rate Unit	Code				
1 UNTREATED					0	0	0	0
2 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	100	100
2 WEEDMASTER	32 oz/a	32 oz/a	A					
2 COC	1 % v/v	1 % v/v	A					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
2 AUTHORITY MAXX	7 oz/a	7 oz/a	B					
2 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
3 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	100	100
3 WEEDMASTER	32 oz/a	32 oz/a	A					
3 COC	1 % v/v	1 % v/v	A					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
3 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a	B					
3 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					
4 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	100	100
4 WEEDMASTER	32 oz/a	32 oz/a	A					
4 COC	1 % v/v	1 % v/v	A					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A					
4 AUTHORITY XL	4 oz/a	4 oz/a	B					
4 2,4-D LV ESTER	16 oz/a	16 oz/a	B					
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B					
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D					
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	RANAB	ERYRE	SENGL
Pest Scientific Name	Lamium purpure>	Ranunculus abo>	Erysimum repa>	Senecio glabel>
Pest Name	Purple deadnet>	Smallflower bu>	Bushy wallflow>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	May-16-2014	May-16-2014	May-16-2014	May-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	9	9	9	10
Days After First/Last Applic.	189 10	189 10	189 10	189 10
Trt-Eval Interval	10 DA-C	10 DA-C	10 DA-C	10 DA-C
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	13	14	15	16
5 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A		97	100	100
5 WEEDMASTER	32 oz/a	32 oz/a		A				100
5 COC	1 % v/v	1 % v/v		A				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
5 AUTHORITY MAXX	6.4 oz/a	6.4 oz/a		B				
5 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
6 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100		100	100
6 WEEDMASTER	32 oz/a	32 oz/a		A		100		100
6 COC	1 % v/v	1 % v/v		A				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
6 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
6 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
7 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100		100	100
7 WEEDMASTER	32 oz/a	32 oz/a		A		100		100
7 COC	1 % v/v	1 % v/v		A				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
7 AUTHORITY XL	4 oz/a	4 oz/a		B				
7 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
8 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100		100	100
8 WEEDMASTER	32 oz/a	32 oz/a		A		100		100
8 COC	1 % v/v	1 % v/v		A				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
8 AUTHORITY MTZ	20 oz/a	20 oz/a		B				
8 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	RANAB	ERYRE	SENGL
Pest Scientific Name	Lamium purpure>	Ranunculus abo>	Erysimum repa>	Senecio glabel>
Pest Name	Purple deadnet>	Smallflower bu>	Bushy wallflow>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	May-16-2014	May-16-2014	May-16-2014	May-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	9	9	9	10
Days After First/Last Applic.	189 10	189 10	189 10	189 10
Trt-Eval Interval	10 DA-C	10 DA-C	10 DA-C	10 DA-C
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	13	14	15	16
9 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
9 WEEDMASTER	32 oz/a	32 oz/a		A				
9 COC	1 % v/v	1 % v/v		A				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
9 AUTHORITY ASSIST	6 oz/a	6 oz/a		B				
9 Sencor 75DF	4 oz/a	4 oz/a		B				
9 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
10 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	100	100
10 WEEDMASTER	24 oz/a	24 oz/a		A				
10 COC	1 % v/v	1 % v/v		A				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
10 AUTHORITY ASSIST	6 oz/a	6 oz/a		C				
10 Sencor 75DF	4 oz/a	4 oz/a		C				
10 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
10 NIS	2.5 % v/v	2.5 % v/v		C				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
10 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
11 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	100	100
11 WEEDMASTER	32 oz/a	32 oz/a		A				
11 COC	1 % v/v	1 % v/v		A				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
11 AUTHORITY MTZ	20 oz/a	20 oz/a		C				
11 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
11 NIS	0.25 % v/v	0.25 % v/v		C				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
11 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	RANAB	ERYRE	SENGL
Pest Scientific Name	Lamium purpure>	Ranunculus abo>	Erysimum repa>	Senecio glabel>
Pest Name	Purple deadnet>	Smallflower bu>	Bushy wallflow>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description				
Rating Date	May-16-2014	May-16-2014	May-16-2014	May-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	9	9	9	10
Days After First/Last Applic.	189 10	189 10	189 10	189 10
Trt-Eval Interval	10 DA-C	10 DA-C	10 DA-C	10 DA-C
Plant-Eval Interval	12 DP-1	12 DP-1	12 DP-1	12 DP-1
Days After Emergence	1 DE-1	1 DE-1	1 DE-1	1 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment				
No. Name	Rate	Other	Other	Appl
	Rate Unit	Rate	Rate Unit	Code
12 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A
12 WEEDMASTER	32 oz/a	32 oz/a		A
12 COC	1 % v/v	1 % v/v		A
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A
12 AUTHORITY MTZ	20 oz/a	20 oz/a		C
12 SHARPEN	1 oz/a	1 oz/a		C
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C
12 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D
LSD (P=.05)	2.8	0.0	0.0	0.0
Standard Deviation	1.7	0.0	0.0	0.0
CV	1.82	0.0	0.0	0.0
Bartlett's X2	0.0	0.0	0.0	0.0
P(Bartlett's X2)
Skewness	-3.1291*	-3.1478*	-3.1478*	-3.1478*
Kurtosis	8.2903*	8.3714*	8.3714*	8.3714*
Replicate F	1.000	0.000	0.000	0.000
Replicate Prob(F)	0.3840	1.0000	1.0000	1.0000
Treatment F	895.546	0.000	0.000	0.000
Treatment Prob(F)	0.0001	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBTR	VERAG	SETFA	AMBTR					
Pest Scientific Name	Ambrosia trifida	Veronica agrestis	Setaria faberii	Ambrosia trifida					
Pest Name	Giant ragweed	Field speedwell	Giant foxtail	Giant ragweed					
Crop Code			GLXMA						
BBCH Scale			BSOY						
Crop Scientific Name			Glycine max						
Crop Name			Soybean						
Description			AT POST	AT POST					
Rating Date	May-16-2014	May-16-2014	May-29-2014	May-29-2014					
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
SE Group No.	11	12	13	14					
Days After First/Last Applic.	189 10	189 10	202 23	202 23					
Trt-Eval Interval	10 DA-C	10 DA-C	-2 DA-D	-2 DA-D					
Plant-Eval Interval	12 DP-1	12 DP-1	25 DP-1	25 DP-1					
Days After Emergence	1 DE-1	1 DE-1	14 DE-1	14 DE-1					
ARM Action Codes			ET5	AL					
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Other	Other	Appl	17	18	19	20	21
No. Name	Rate Unit	Rate	Rate Unit	Code					
1 UNTREATED					0	0	0	0	0
2 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	97	0	100	88
2 WEEDMASTER	32 oz/a	32 oz/a	A						
2 COC	1 % v/v	1 % v/v	A						
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A						
2 AUTHORITY MAXX	7 oz/a	7 oz/a	B						
2 2,4-D LV ESTER	16 oz/a	16 oz/a	B						
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B						
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B						
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D						
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D						
3 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	0	97	88
3 WEEDMASTER	32 oz/a	32 oz/a	A						
3 COC	1 % v/v	1 % v/v	A						
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A						
3 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a	B						
3 2,4-D LV ESTER	16 oz/a	16 oz/a	B						
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B						
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B						
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D						
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D						
4 AUTHORITY MTZ	8 oz/a	8 oz/a	A		100	100	0	100	82
4 WEEDMASTER	32 oz/a	32 oz/a	A						
4 COC	1 % v/v	1 % v/v	A						
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	A						
4 AUTHORITY XL	4 oz/a	4 oz/a	B						
4 2,4-D LV ESTER	16 oz/a	16 oz/a	B						
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	B						
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	B						
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a	D						
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v	D						

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	VERAG	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifida	Veronica agrestis	Setaria faberii	Ambrosia trifida
Pest Name	Giant ragweed	Field speedwell	Giant foxtail	Giant ragweed
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Scientific Name			Glycine max	
Crop Name			Soybean	
Description			AT POST	AT POST
Rating Date	May-16-2014	May-16-2014	May-29-2014	May-29-2014
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	11	12	13	14
Days After First/Last Applic.	189 10	189 10	202 23	202 23
Trt-Eval Interval	10 DA-C	10 DA-C	-2 DA-D	-2 DA-D
Plant-Eval Interval	12 DP-1	12 DP-1	25 DP-1	25 DP-1
Days After Emergence	1 DE-1	1 DE-1	14 DE-1	14 DE-1
ARM Action Codes			ET5	AL
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Code	17	18	19	20	21
5	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	97	80	2	100	70
5	WEEDMASTER	32 oz/a	32 oz/a		A					
5	COC	1 % v/v	1 % v/v		A					
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
5	AUTHORITY MAXX	6.4 oz/a	6.4 oz/a		B					
5	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
5	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
5	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
6	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	93	93	0	100	80
6	WEEDMASTER	32 oz/a	32 oz/a		A					
6	COC	1 % v/v	1 % v/v		A					
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
6	AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B					
6	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
6	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
6	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
7	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	87	87	0	97	70
7	WEEDMASTER	32 oz/a	32 oz/a		A					
7	COC	1 % v/v	1 % v/v		A					
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
7	AUTHORITY XL	4 oz/a	4 oz/a		B					
7	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
7	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
7	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
8	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	0	100	77
8	WEEDMASTER	32 oz/a	32 oz/a		A					
8	COC	1 % v/v	1 % v/v		A					
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
8	AUTHORITY MTZ	20 oz/a	20 oz/a		B					
8	2,4-D LV ESTER	16 oz/a	16 oz/a		B					
8	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
8	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	VERAG	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifida	Veronica agrestis	Setaria faberii	Ambrosia trifida
Pest Name	Giant ragweed	Field speedwell	Giant foxtail	Giant ragweed
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Scientific Name			Glycine max	
Crop Name			Soybean	
Description			AT POST	AT POST
Rating Date	May-16-2014	May-16-2014	May-29-2014	May-29-2014
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	11	12	13	14
Days After First/Last Applic.	189 10	189 10	202 23	202 23
Trt-Eval Interval	10 DA-C	10 DA-C	-2 DA-D	-2 DA-D
Plant-Eval Interval	12 DP-1	12 DP-1	25 DP-1	25 DP-1
Days After Emergence	1 DE-1	1 DE-1	14 DE-1	14 DE-1
ARM Action Codes			ET5	AL
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Appl Code	17	18	19	20	21
9 AUTHORITY MTZ	8 oz/a	8 oz/a		A	97	100	0	100	80
9 WEEDMASTER	32 oz/a	32 oz/a		A					
9 COC	1 % v/v	1 % v/v		A					
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
9 AUTHORITY ASSIST	6 oz/a	6 oz/a		B					
9 Sencor 75DF	4 oz/a	4 oz/a		B					
9 2,4-D LV ESTER	16 oz/a	16 oz/a		B					
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B					
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B					
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
10 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	0	93	80
10 WEEDMASTER	24 oz/a	24 oz/a		A					
10 COC	1 % v/v	1 % v/v		A					
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
10 AUTHORITY ASSIST	6 oz/a	6 oz/a		C					
10 Sencor 75DF	4 oz/a	4 oz/a		C					
10 GRAMOXONE INTEON	32 oz/a	32 oz/a		C					
10 NIS	2.5 % v/v	2.5 % v/v		C					
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C					
10 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					
11 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	0	100	85
11 WEEDMASTER	32 oz/a	32 oz/a		A					
11 COC	1 % v/v	1 % v/v		A					
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
11 AUTHORITY MTZ	20 oz/a	20 oz/a		C					
11 GRAMOXONE INTEON	32 oz/a	32 oz/a		C					
11 NIS	0.25 % v/v	0.25 % v/v		C					
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C					
11 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	VERAG	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifida	Veronica agrestis	Setaria faberii	Ambrosia trifida
Pest Name	Giant ragweed	Field speedwell	Giant foxtail	Giant ragweed
Crop Code			GLXMA	
BBCH Scale			BSOY	
Crop Scientific Name			Glycine max	
Crop Name			Soybean	
Description			AT POST	AT POST
Rating Date	May-16-2014	May-16-2014	May-29-2014	May-29-2014
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	11	12	13	14
Days After First/Last Applic.	189 10	189 10	202 23	202 23
Trt-Eval Interval	10 DA-C	10 DA-C	-2 DA-D	-2 DA-D
Plant-Eval Interval	12 DP-1	12 DP-1	25 DP-1	25 DP-1
Days After Emergence	1 DE-1	1 DE-1	14 DE-1	14 DE-1
ARM Action Codes			ET5	AL
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Appl Code	17	18	19	20	21
12	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	70	80	0	100	50
12	WEEDMASTER	32 oz/a	32 oz/a		A					
12	COC	1 % v/v	1 % v/v		A					
12	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A					
12	AUTHORITY MTZ	20 oz/a	20 oz/a		C					
12	SHARPEN	1 oz/a	1 oz/a		C					
12	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C					
12	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D					
12	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D					

LSD (P=.05)	14.3	17.5	1.4	0.0t	24.1
Standard Deviation	8.4	10.4	0.8	0.0t	14.2
CV	9.69	11.99	600.0	0.73	20.05
Bartlett's X2	5.231	3.99	0.0	0.0	4.354
P(Bartlett's X2)	0.264	0.407	.	1.00	0.93
Skewness	-2.4888*	-2.4479*	6.0*	-3.1442*	-1.6017*
Kurtosis	5.3095*	5.1725*	36.0*	8.3565*	2.3302*

Replicate F	0.744	0.181	1.000	0.314	0.692
Replicate Prob(F)	0.4869	0.8355	0.3840	0.7335	0.5111
Treatment F	34.972	22.388	1.000	5513.539	9.018
Treatment Prob(F)	0.0001	0.0001	0.4767	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBEL	ERICA	SETFA	AMBTR				
Pest Scientific Name	Ambrosia artem>	Conyza canadens>	Setaria faberi	Ambrosia trifi>				
Pest Name	Common ragweed	Canada horsewe>	Giant foxtail	Giant ragweed				
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Description	AT POST	AT POST						
Rating Date	May-29-2014	May-29-2014	Jun-30-2014	Jun-30-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	16	17	18	19				
Days After First/Last Applic.	202 23	202 23	234 30	234 30				
Trt-Eval Interval	-2 DA-D	-2 DA-D	30 DA-D	30 DA-D				
Plant-Eval Interval	25 DP-1	25 DP-1	57 DP-1	57 DP-1				
Days After Emergence	14 DE-1	14 DE-1	46 DE-1	46 DE-1				
ARM Action Codes								
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	22	23	24	25
No. Name	Rate Unit	Rate	Rate Unit	Code				
1 UNTREATED					0	0	83	62
2 AUTHORITY MTZ	8 oz/a	8 oz/a		A	93	100	100	87
2 WEEDMASTER	32 oz/a	32 oz/a		A				
2 COC	1 % v/v	1 % v/v		A				
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
2 AUTHORITY MAXX	7 oz/a	7 oz/a		B				
2 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
2 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
2 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
3 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	95	68
3 WEEDMASTER	32 oz/a	32 oz/a		A				
3 COC	1 % v/v	1 % v/v		A				
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
3 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B				
3 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
3 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
3 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
4 AUTHORITY MTZ	8 oz/a	8 oz/a		A	95	100	98	77
4 WEEDMASTER	32 oz/a	32 oz/a		A				
4 COC	1 % v/v	1 % v/v		A				
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
4 AUTHORITY XL	4 oz/a	4 oz/a		B				
4 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
4 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
4 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	ERICA	SETFA	AMBTR
Pest Scientific Name	Ambrosia artem	Conyza canad	Setaria faberi	Ambrosia trifi
Pest Name	Common ragweed	Canada horsewe	Giant foxtail	Giant ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description	AT POST	AT POST		
Rating Date	May-29-2014	May-29-2014	Jun-30-2014	Jun-30-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	16	17	18	19
Days After First/Last Applic.	202 23	202 23	234 30	234 30
Trt-Eval Interval	-2 DA-D	-2 DA-D	30 DA-D	30 DA-D
Plant-Eval Interval	25 DP-1	25 DP-1	57 DP-1	57 DP-1
Days After Emergence	14 DE-1	14 DE-1	46 DE-1	46 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	22	23	24	25
5 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	100	60
5 WEEDMASTER	32 oz/a	32 oz/a		A				
5 COC	1 % v/v	1 % v/v		A				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
5 AUTHORITY MAXX	6.4 oz/a	6.4 oz/a		B				
5 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
5 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
5 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
6 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	97	68
6 WEEDMASTER	32 oz/a	32 oz/a		A				
6 COC	1 % v/v	1 % v/v		A				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
6 AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
6 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
6 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
6 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
7 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	99	72
7 WEEDMASTER	32 oz/a	32 oz/a		A				
7 COC	1 % v/v	1 % v/v		A				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
7 AUTHORITY XL	4 oz/a	4 oz/a		B				
7 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
7 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
7 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
8 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	100	68
8 WEEDMASTER	32 oz/a	32 oz/a		A				
8 COC	1 % v/v	1 % v/v		A				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
8 AUTHORITY MTZ	20 oz/a	20 oz/a		B				
8 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
8 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
8 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	ERICA	SETFA	AMBTR
Pest Scientific Name	Ambrosia artem	Conyza canad	Setaria faberi	Ambrosia trifi
Pest Name	Common ragweed	Canada horsewe	Giant foxtail	Giant ragweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Description	AT POST	AT POST		
Rating Date	May-29-2014	May-29-2014	Jun-30-2014	Jun-30-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	16	17	18	19
Days After First/Last Applic.	202 23	202 23	234 30	234 30
Trt-Eval Interval	-2 DA-D	-2 DA-D	30 DA-D	30 DA-D
Plant-Eval Interval	25 DP-1	25 DP-1	57 DP-1	57 DP-1
Days After Emergence	14 DE-1	14 DE-1	46 DE-1	46 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	22	23	24	25
9 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	93	70
9 WEEDMASTER	32 oz/a	32 oz/a		A				
9 COC	1 % v/v	1 % v/v		A				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
9 AUTHORITY ASSIST	6 oz/a	6 oz/a		B				
9 Sencor 75DF	4 oz/a	4 oz/a		B				
9 2,4-D LV ESTER	16 oz/a	16 oz/a		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		B				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B				
9 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
9 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
10 AUTHORITY MTZ	8 oz/a	8 oz/a		A	100	100	93	57
10 WEEDMASTER	24 oz/a	24 oz/a		A				
10 COC	1 % v/v	1 % v/v		A				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
10 AUTHORITY ASSIST	6 oz/a	6 oz/a		C				
10 Sencor 75DF	4 oz/a	4 oz/a		C				
10 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
10 NIS	2.5 % v/v	2.5 % v/v		C				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
10 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
10 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
11 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	95	68
11 WEEDMASTER	32 oz/a	32 oz/a		A				
11 COC	1 % v/v	1 % v/v		A				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
11 AUTHORITY MTZ	20 oz/a	20 oz/a		C				
11 GRAMOXONE INTEON	32 oz/a	32 oz/a		C				
11 NIS	0.25 % v/v	0.25 % v/v		C				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
11 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
11 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBEL	ERICA	SETFA	AMBTR				
Pest Scientific Name	Ambrosia artem	Conyza canad	Setaria faberi	Ambrosia trifi				
Pest Name	Common ragweed	Canada horsewe	Giant foxtail	Giant ragweed				
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Description	AT POST	AT POST						
Rating Date	May-29-2014	May-29-2014	Jun-30-2014	Jun-30-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	16	17	18	19				
Days After First/Last Applic.	202 23	202 23	234 30	234 30				
Trt-Eval Interval	-2 DA-D	-2 DA-D	30 DA-D	30 DA-D				
Plant-Eval Interval	25 DP-1	25 DP-1	57 DP-1	57 DP-1				
Days After Emergence	14 DE-1	14 DE-1	46 DE-1	46 DE-1				
ARM Action Codes								
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl	22	23	24	25
No. Name	Rate Unit	Rate	Rate Unit	Code				
12 AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100	100	98	53
12 WEEDMASTER	32 oz/a	32 oz/a		A				
12 COC	1 % v/v	1 % v/v		A				
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A				
12 AUTHORITY MTZ	20 oz/a	20 oz/a		C				
12 SHARPEN	1 oz/a	1 oz/a		C				
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C				
12 ROUNDUP POWERMAX	32 oz/a	32 oz/a		D				
12 AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D				
LSD (P=.05)					6.7	0.0	7.8	23.6
Standard Deviation					4.0	0.0	4.6	13.9
CV					4.39	0.0	4.83	20.62
Bartlett's X2					0.16	0.0	8.521	7.863
P(Bartlett's X2)					0.689	.	0.384	0.642
Skewness					-3.0405*	-3.1478*	-1.4153*	0.2265
Kurtosis					7.8841*	8.3714*	0.7773	-0.7605
Replicate F					2.147	0.000	4.130	0.527
Replicate Prob(F)					0.1406	1.0000	0.0300	0.5977
Treatment F					155.422	0.000	3.059	1.247
Treatment Prob(F)					0.0001	1.0000	0.0123	0.3157

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Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadensis
 Pest Name Canada horseweed
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Description
 Rating Date Jun-30-2014
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 SE Group No. 20
 Days After First/Last Applic. 234 30
 Trt-Eval Interval 30 DA-D
 Plant-Eval Interval 57 DP-1
 Days After Emergence 46 DE-1
 ARM Action Codes ET1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	
						26
1	UNTREATED					57
2	AUTHORITY MTZ	8 oz/a	8 oz/a		A	100
2	WEEDMASTER	32 oz/a	32 oz/a		A	
2	COC	1 % v/v	1 % v/v		A	
2	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A	
2	AUTHORITY MAXX	7 oz/a	7 oz/a		B	
2	2,4-D LV ESTER	16 oz/a	16 oz/a		B	
2	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B	
2	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B	
2	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D	
2	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D	
3	AUTHORITY MTZ	8 oz/a	8 oz/a		A	100
3	WEEDMASTER	32 oz/a	32 oz/a		A	
3	COC	1 % v/v	1 % v/v		A	
3	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A	
3	AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a		B	
3	2,4-D LV ESTER	16 oz/a	16 oz/a		B	
3	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B	
3	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B	
3	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D	
3	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D	
4	AUTHORITY MTZ	8 oz/a	8 oz/a		A	100
4	WEEDMASTER	32 oz/a	32 oz/a		A	
4	COC	1 % v/v	1 % v/v		A	
4	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A	
4	AUTHORITY XL	4 oz/a	4 oz/a		B	
4	2,4-D LV ESTER	16 oz/a	16 oz/a		B	
4	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B	
4	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B	
4	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D	
4	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D	

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Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horsewe>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Description	
Rating Date	Jun-30-2014
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
SE Group No.	20
Days After First/Last Applic.	234 30
Trt-Eval Interval	30 DA-D
Plant-Eval Interval	57 DP-1
Days After Emergence	46 DE-1
ARM Action Codes	ET1
Number of Decimals	0

Trt No.	Treatment	Rate	Other Rate	Other Rate	Unit	Appl Code	26
5	AUTHORITY XL	3.2 oz/a	3.2 oz/a			A	100
5	WEEDMASTER	32 oz/a	32 oz/a			A	
5	COC	1 % v/v	1 % v/v			A	
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			A	
5	AUTHORITY MAXX	6.4 oz/a	6.4 oz/a			B	
5	2,4-D LV ESTER	16 oz/a	16 oz/a			B	
5	ROUNDUP POWERMAX	32 oz/a	32 oz/a			B	
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			B	
5	ROUNDUP POWERMAX	32 oz/a	32 oz/a			D	
5	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			D	
6	AUTHORITY XL	3.2 oz/a	3.2 oz/a			A	100
6	WEEDMASTER	32 oz/a	32 oz/a			A	
6	COC	1 % v/v	1 % v/v			A	
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			A	
6	AUTHORITY FIRST DF	6.4 oz/a	6.4 oz/a			B	
6	ROUNDUP POWERMAX	32 oz/a	32 oz/a			B	
6	2,4-D LV ESTER	16 oz/a	16 oz/a			B	
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			B	
6	ROUNDUP POWERMAX	32 oz/a	32 oz/a			D	
6	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			D	
7	AUTHORITY XL	3.2 oz/a	3.2 oz/a			A	100
7	WEEDMASTER	32 oz/a	32 oz/a			A	
7	COC	1 % v/v	1 % v/v			A	
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			A	
7	AUTHORITY XL	4 oz/a	4 oz/a			B	
7	2,4-D LV ESTER	16 oz/a	16 oz/a			B	
7	ROUNDUP POWERMAX	32 oz/a	32 oz/a			B	
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			B	
7	ROUNDUP POWERMAX	32 oz/a	32 oz/a			D	
7	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			D	
8	AUTHORITY XL	3.2 oz/a	3.2 oz/a			A	100
8	WEEDMASTER	32 oz/a	32 oz/a			A	
8	COC	1 % v/v	1 % v/v			A	
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			A	
8	AUTHORITY MTZ	20 oz/a	20 oz/a			B	
8	2,4-D LV ESTER	16 oz/a	16 oz/a			B	
8	ROUNDUP POWERMAX	32 oz/a	32 oz/a			B	
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			B	
8	ROUNDUP POWERMAX	32 oz/a	32 oz/a			D	
8	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v			D	

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Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horseweed
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Description	
Rating Date	Jun-30-2014
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
SE Group No.	20
Days After First/Last Applic.	234 30
Trt-Eval Interval	30 DA-D
Plant-Eval Interval	57 DP-1
Days After Emergence	46 DE-1
ARM Action Codes	ET1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Code	26
		Rate Unit	Rate	Rate Unit		
9	AUTHORITY MTZ	8 oz/a	8 oz/a		A	100
9	WEEDMASTER	32 oz/a	32 oz/a		A	
9	COC	1 % v/v	1 % v/v		A	
9	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A	
9	AUTHORITY ASSIST	6 oz/a	6 oz/a		B	
9	Sencor 75DF	4 oz/a	4 oz/a		B	
9	2,4-D LV ESTER	16 oz/a	16 oz/a		B	
9	ROUNDUP POWERMAX	32 oz/a	32 oz/a		B	
9	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		B	
9	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D	
9	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D	
10	AUTHORITY MTZ	8 oz/a	8 oz/a		A	100
10	WEEDMASTER	24 oz/a	24 oz/a		A	
10	COC	1 % v/v	1 % v/v		A	
10	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A	
10	AUTHORITY ASSIST	6 oz/a	6 oz/a		C	
10	Sencor 75DF	4 oz/a	4 oz/a		C	
10	GRAMOXONE INTEON	32 oz/a	32 oz/a		C	
10	NIS	2.5 % v/v	2.5 % v/v		C	
10	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C	
10	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D	
10	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D	
11	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A	100
11	WEEDMASTER	32 oz/a	32 oz/a		A	
11	COC	1 % v/v	1 % v/v		A	
11	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A	
11	AUTHORITY MTZ	20 oz/a	20 oz/a		C	
11	GRAMOXONE INTEON	32 oz/a	32 oz/a		C	
11	NIS	0.25 % v/v	0.25 % v/v		C	
11	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C	
11	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D	
11	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D	

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Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horseweed
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Description	
Rating Date	Jun-30-2014
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
SE Group No.	20
Days After First/Last Applic.	234 30
Trt-Eval Interval	30 DA-D
Plant-Eval Interval	57 DP-1
Days After Emergence	46 DE-1
ARM Action Codes	ET1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	26
12	AUTHORITY XL	3.2 oz/a	3.2 oz/a		A		100
12	WEEDMASTER	32 oz/a	32 oz/a		A		
12	COC	1 % v/v	1 % v/v		A		
12	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		A		
12	AUTHORITY MTZ	20 oz/a	20 oz/a		C		
12	SHARPEN	1 oz/a	1 oz/a		C		
12	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		C		
12	ROUNDUP POWERMAX	32 oz/a	32 oz/a		D		
12	AMMONIUM SULFATE	2.5 % v/v	2.5 % v/v		D		

LSD (P=.05)	2.8
Standard Deviation	1.7
CV	1.73
Bartlett's X2	0.0
P(Bartlett's X2)	.
Skewness	-3.2231*
Kurtosis	9.092*
Replicate F	1.000
Replicate Prob(F)	0.3840
Treatment F	169.000
Treatment Prob(F)	0.0001

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2013/SOYBEAN/AUTHORITY XL/AUTHORITY ASSIST/AUTHORITY MTZ/SPLIT

Title No. 2: APPLICATIONS/FALL/SPRING PROGRAMS/

Trial ID: 14FALLSOY1 Location: Trial Year: 2014
 Protocol ID: SULF.SOY.13.JPR.21 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type

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

Pest Code

STEME, Stellaria media, = US
 LAMPU, Lamium purpureum, = US
 RANAB, Ranunculus abortivus, = US
 ERYRE, Erysimum repandum, = US
 SENGL, Senecio glabellus, = US
 AMBTR, Ambrosia trifida, = US
 VERAG, Veronica agrestis, = US
 SETFA, Setaria faberi, = US
 AMBEL, Ambrosia artemisiifolia, = US
 ERICA, Conyza canadensis, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

-33 DP-1 = 1 GLXMA May-4-2014
 -5 DP-1 = 1 GLXMA May-4-2014
 12 DP-1 = 1 GLXMA May-4-2014
 25 DP-1 = 1 GLXMA May-4-2014
 57 DP-1 = 1 GLXMA May-4-2014

ARM Action Codes

AA = Automatic arcsine square root % transformation
 AL = Automatic log transformation of X+1