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Fall Burndown and Residual Control of Winter Annual Weeds in Soybean

Trial ID: 14FALLSOY2 Location: Trial Year: 2014
 Protocol ID: 14FALLSOY2 Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact: Valent, UPI, Willowood

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

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:** SENGL Senecio glabellus
Common Name: Cressleaf groundsel

Pest 4 Type: W **Code:** RANAB Ranunculus abortivus
Common Name: Smallflower buttercup

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

Pest Description

Treated Plot Width: 6.67 FT **Site and Design**
Treated Plot Length: 30 FT **Site Type:** FIELD field
Treated Plot Area: 200.1 FT2 **Experimental Unit:** 1 PLOT plot
Replications: 3 **Tillage Type:** NOTILL no-till
Treatments: 16 **Study Design:** RACOB� Randomized Complete Block (RCB)

No. Previous Crop Year
 1. Corn 2013

No.	Date	Maintenance Product Name	Form Conc	Form Type	Form Rate	Maintenance Rate Unit	Maintenance Tank Mix Code	Maintenance Tank Mix
1.	May-31-2014	Roundup Weathermax	4.5	SL	32	OZ.A N	no	

Soil Description

Description Name: F-9 West
% OM: 2 **Texture:** SICL silty clay loam
pH: 6.2 **Soil Name:** Kokomo
CEC: 9.7 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	Nov-8-2013	Apr-24-2014
Appl. Start Time:	9:30 AM	9:00 AM
Appl. Stop Time:	10:00 AM	9:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	FALL	PREPLA
Application Placement:	BROFOL	BROFOL
Applied By:	Reeb	Dobbels
Air Temperature, Unit:	35 F	48.5 F
% Relative Humidity:	88	45
Wind Velocity, Unit:	4 MPH	7 MPH
Wind Direction:	WNW	E
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	40 F	50 F
Soil Moisture:	WET	DRY
% Cloud Cover:	90	20
Next Moisture Occurred On:	Nov-12-2013	Apr-25-2014
Time to Next Moisture, Unit:	3 DAY	1 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	14	100
Diameter, Unit:	1	IN
Height, Unit:	1	IN
Height Minimum, Maximum:	1	1.25
Density, Unit:	30	M2
Pest 2 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	19	100
Diameter, Unit:	3	IN
Height, Unit:	1	IN
Height Minimum, Maximum:	0.5	1
Density, Unit:	2	M2
Pest 3 Code, Type, Scale:	SENGL W	SENGL W
Stage Majority, Percent:	14	80
Stage Minimum, Percent:	14	80
Stage Maximum, Percent:	16	20
Diameter, Unit:	3	IN
Height, Unit:	2	IN
Height Minimum, Maximum:	1	2
Density, Unit:	1	M2
Pest 4 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	12	100
Diameter, Unit:	3	IN
Height, Unit:	2	IN
Height Minimum, Maximum:	1	2
Density, Unit:	5.33	M2
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	12	100
Height, Unit:	2	IN
Height Minimum, Maximum:	1	3
Density, Unit:	6	M2

Application Equipment

	A	B
Appl. Equipment:	6 FOOT BOOM	6 FOOT BOOM
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	1 Liters	1 Liters
Propellant:	CO2	CO2

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	SENGL
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Senecio glabel>
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Nov-21-2013	Nov-21-2013	Nov-21-2013	Nov-21-2013
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	13 13	13 13	13 13	13 13
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Plant-Eval Interval	-164 DP-1	-164 DP-1	-164 DP-1	-164 DP-1
Days After Emergence	-175 DE-1	-175 DE-1	-175 DE-1	-175 DE-1
ARM Action Codes	AL		AS	AS
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1	2	3	4
1 utc						0	0	0	0
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0	0	0	0
2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
2 N PAK AMS	5 % v/v		4 qt/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	2	43	16	15
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
3 N PAK AMS	5 % v/v		4 qt/a		A				
3 Valor XLT 4 oz									
3 Valor SX	0.075 lb ai/a		2.35 oz/a		B				
3 Classic	0.0258 lb ai/a		1.65 oz/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
3 N PAK AMS	5 % v/v		4 qt/a		B				
4 Valor XLT 3 oz						80	90	61	30
4 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
4 Classic	0.0194 lb ai/a		1.24 oz/a		A				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
4 N PAK AMS	5 % v/v		4 qt/a		A				
4 Valor XLT 3 oz									
4 Valor SX	0.056 lb ai/a		1.76 oz/a		B				
4 Classic	0.0194 lb ai/a		1.24 oz/a		B				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
4 N PAK AMS	5 % v/v		4 qt/a		B				
5 Canopy	0.105 lb ai/a		2.25 oz/a		A	0	57	5	3
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
5 N PAK AMS	5 % v/v		4 qt/a		A				
6 Tricor	0.375 lb ai/a		8 oz/a		A	55	67	9	9
6 COC	1 % v/v		0.8 qt/a		A				
6 Roundup PowerMax	22 fl oz/a				B				
6 VALOR XLT 3.5 OZ					B				
6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
6 Classic	0.0227 lb ai/a		1.45 oz/a		B				
6 2,4-D Ester	16 fl oz/a		1 pt/a		B				
6 AMS	2.5 % v/v				B				

t=Mean descriptions are reported in transformed data units, and are not de-transformed.
 Missing data estimates are included in columns: Yates=2,3,6,29; Average=1,4,5,8

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	SENGL
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Senecio glabel>
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Nov-21-2013	Nov-21-2013	Nov-21-2013	Nov-21-2013
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	13 13	13 13	13 13	13 13
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Plant-Eval Interval	-164 DP-1	-164 DP-1	-164 DP-1	-164 DP-1
Days After Emergence	-175 DE-1	-175 DE-1	-175 DE-1	-175 DE-1
ARM Action Codes	AL		AS	AS
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	1	2	3	4
7	Tricor	0.56 lb ai/a	12 oz/a		A	45	59	26	10
7	COC	1 % v/v	0.8 qt/a		A				
7	Roundup PowerMax	22 fl oz/a			B				
7	Valor XLT 3.5 oz/a	3.5 oz/a			B				
7	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
7	Classic	0.0227 lb ai/a	1.45 oz/a		B				
7	2,4-D Ester	16 fl oz/a			B				
7	AMS	2.5 % v/v			B				
8	Tricor	0.375 lb ai/a	8 oz/a		A	25	57	13	9
8	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
8	COC	1 % v/v	0.8 qt/a		A				
8	Roundup PowerMax	22 fl oz/a	22 oz/a		B				
8	Valor XLT 3.5 oz								
8	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
8	Classic	0.0227 lb ai/a	1.45 oz/a		B				
8	2,4-D Ester	16 fl oz/a	16 oz/a		B				
8	AMS	2.5 % v/v	2 qt/a		B				
9	Tricor	0.56 lb ai/a	12 oz/a		A	9	43	10	20
9	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
9	COC	1 % v/v	0.8 qt/a		A				
9	Roundup PowerMax	0.77 lb ae/a	22 oz/a		B				
9	Valor XLT 3.5 oz								
9	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
9	Classic	0.0227 lb ai/a	1.45 oz/a		B				
9	2,4-D Ester	16 fl oz/a	16 oz/a		B				
9	AMS	2.5 % v/v	2 qt/a		B				
10	Tricor	0.188 lb ai/a	4 oz/a		A	14	58	10	
10	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
10	Roundup PowerMax	16 fl oz/a	16 oz/a		A				
10	AMS	2.5 % v/v	2 qt/a		A				
10	TRICOR	0.188 lb ai/a	4 oz/a		B				
10	Valor XLT 3.5 oz								
10	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
10	Classic	0.0227 lb ai/a	1.45 oz/a		B				
10	2,4-D Ester	16 fl oz/a			B				
10	Roundup PowerMax	22 fl oz/a			B				
10	AMS	2.5 % v/v			B				
11	2,4-D Ester	16 fl oz/a	16 oz/a		A	43	40	7	0
11	Roundup PowerMax	16 fl oz/a	16 oz/a		A				
11	AMS	2.5 % v/v	2 qt/a		A				
11	Tricor	8 oz/a	8 oz/a		B				
11	Valor XLT 3.5 oz								
11	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
11	Classic	0.0227 lb ai/a	1.45 oz/a		B				
11	2,4-D Ester	16 fl oz/a			B				
11	Roundup PowerMax	22 fl oz/a			B				
11	AMS	2.5 % v/v			B				

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BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Nov-21-2013	Nov-21-2013	Nov-21-2013	Nov-21-2013
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	1	2	3	4
Days After First/Last Applic.	13 13	13 13	13 13	13 13
Trt-Eval Interval	13 DA-A	13 DA-A	13 DA-A	13 DA-A
Plant-Eval Interval	-164 DP-1	-164 DP-1	-164 DP-1	-164 DP-1
Days After Emergence	-175 DE-1	-175 DE-1	-175 DE-1	-175 DE-1
ARM Action Codes	AL		AS	AS
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Appl Unit Code	1	2	3	4
12 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	63	90	86	90
12 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
12 MSO	2 pt/a	2 pt/a		A				
13 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	17	89	19	39
13 Express	0.15 oz ai/a	0.3 oz/a		A				
13 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
13 MSO	2 pt/a	2 pt/a		A				
14 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	30	88	23	26
14 Command	0.3 lb ai/a	12.8 oz/a		A				
14 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
14 MSO	2 pt/a	2 pt/a		A				
15 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	4	78	13	16
15 Command	0.3 lb ai/a	12.8 oz/a		A				
15 Express	0.15 oz ai/a	0.3 oz/a		A				
15 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
15 MSO	2 pt/a	2 pt/a		A				
16 Canopy EX 1.1 oz/a					10	40	10	18
16 Classic	0.0156 lb ai/a	1 oz/a		A				
16 Express	0.0047 lb ai/a	0.15 oz/a		A				
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
16 Authority XL	0.175 lb ai/a	4 oz/a		B				
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B				
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		B				
16 N PAK AMS	5 % v/v	8 pt/a		B				
LSD (P=.05)					0.9t	28.8	2.5t	3.4t
Standard Deviation					0.5t	17.2	1.5t	1.9t
CV					50.41	30.66	37.86	50.28
Bartlett's X2					6.264	13.639	77.086	67.504
P(Bartlett's X2)					0.793	0.324	0.001*	0.001*
Skewness					-0.3714	-0.1816	0.892*	0.4577
Kurtosis					-1.5318	-0.873	0.8319	-0.3375
Replicate F					0.412	2.802	0.163	0.331
Replicate Prob(F)					0.6689	0.0784	0.8501	0.7244
Treatment F					4.454	8.189	6.613	4.598
Treatment Prob(F)					0.0021	0.0001	0.0001	0.0059

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Pest Code	STEME	LAMPU	RANAB	SENGL					
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Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>					
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Dec-4-2013	Dec-4-2013	Dec-4-2013	Dec-4-2013					
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
SE Group No.	6	7	8	9					
Days After First/Last Applic.	26 26	26 26	26 26	26 26					
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A					
Plant-Eval Interval	-151 DP-1	-151 DP-1	-151 DP-1	-151 DP-1					
Days After Emergence	-162 DE-1	-162 DE-1	-162 DE-1	-162 DE-1					
ARM Action Codes									
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	5	6	7	8
1 utc						0	0	0	0
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0	0	0	0
2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
2 N PAK AMS	5 % v/v		4 qt/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	40	48	27	30
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
3 N PAK AMS	5 % v/v		4 qt/a		A				
3 Valor XLT 4 oz									
3 Valor SX	0.075 lb ai/a		2.35 oz/a		B				
3 Classic	0.0258 lb ai/a		1.65 oz/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
3 N PAK AMS	5 % v/v		4 qt/a		B				
4 Valor XLT 3 oz						75	93	67	70
4 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
4 Classic	0.0194 lb ai/a		1.24 oz/a		A				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
4 N PAK AMS	5 % v/v		4 qt/a		A				
4 Valor XLT 3 oz									
4 Valor SX	0.056 lb ai/a		1.76 oz/a		B				
4 Classic	0.0194 lb ai/a		1.24 oz/a		B				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
4 N PAK AMS	5 % v/v		4 qt/a		B				
5 Canopy	0.105 lb ai/a		2.25 oz/a		A	86	80	27	38
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
5 N PAK AMS	5 % v/v		4 qt/a		A				
6 Tricor	0.375 lb ai/a		8 oz/a		A	98	88	47	50
6 COC	1 % v/v		0.8 qt/a		A				
6 Roundup PowerMax	22 fl oz/a				B				
6 VALOR XLT 3.5 OZ					B				
6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
6 Classic	0.0227 lb ai/a		1.45 oz/a		B				
6 2,4-D Ester	16 fl oz/a		1 pt/a		B				
6 AMS	2.5 % v/v				B				

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Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Dec-4-2013	Dec-4-2013	Dec-4-2013	Dec-4-2013
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	6	7	8	9
Days After First/Last Applic.	26 26	26 26	26 26	26 26
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A
Plant-Eval Interval	-151 DP-1	-151 DP-1	-151 DP-1	-151 DP-1
Days After Emergence	-162 DE-1	-162 DE-1	-162 DE-1	-162 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	5	6	7	8
7	Tricor	0.56 lb ai/a	12 oz/a		A	80	93	30	20
7	COC	1 % v/v	0.8 qt/a		A				
7	Roundup PowerMax	22 fl oz/a			B				
7	Valor XLT 3.5 oz/a	3.5 oz/a			B				
7	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
7	Classic	0.0227 lb ai/a	1.45 oz/a		B				
7	2,4-D Ester	16 fl oz/a			B				
7	AMS	2.5 % v/v			B				
8	Tricor	0.375 lb ai/a	8 oz/a		A	93	88	40	47
8	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
8	COC	1 % v/v	0.8 qt/a		A				
8	Roundup PowerMax	22 fl oz/a	22 oz/a		B				
8	Valor XLT 3.5 oz				B				
8	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
8	Classic	0.0227 lb ai/a	1.45 oz/a		B				
8	2,4-D Ester	16 fl oz/a	16 oz/a		B				
8	AMS	2.5 % v/v	2 qt/a		B				
9	Tricor	0.56 lb ai/a	12 oz/a		A	97	95	53	65
9	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
9	COC	1 % v/v	0.8 qt/a		A				
9	Roundup PowerMax	0.77 lb ae/a	22 oz/a		B				
9	Valor XLT 3.5 oz				B				
9	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
9	Classic	0.0227 lb ai/a	1.45 oz/a		B				
9	2,4-D Ester	16 fl oz/a	16 oz/a		B				
9	AMS	2.5 % v/v	2 qt/a		B				
10	Tricor	0.188 lb ai/a	4 oz/a		A	80	93	33	40
10	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
10	Roundup PowerMax	16 fl oz/a	16 oz/a		A				
10	AMS	2.5 % v/v	2 qt/a		A				
10	TRICOR	0.188 lb ai/a	4 oz/a		B				
10	Valor XLT 3.5 oz				B				
10	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
10	Classic	0.0227 lb ai/a	1.45 oz/a		B				
10	2,4-D Ester	16 fl oz/a			B				
10	Roundup PowerMax	22 fl oz/a			B				
10	AMS	2.5 % v/v			B				
11	2,4-D Ester	16 fl oz/a	16 oz/a		A	35	73	30	50
11	Roundup PowerMax	16 fl oz/a	16 oz/a		A				
11	AMS	2.5 % v/v	2 qt/a		A				
11	Tricor	8 oz/a	8 oz/a		B				
11	Valor XLT 3.5 oz				B				
11	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
11	Classic	0.0227 lb ai/a	1.45 oz/a		B				
11	2,4-D Ester	16 fl oz/a			B				
11	Roundup PowerMax	22 fl oz/a			B				
11	AMS	2.5 % v/v			B				

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	STEME	LAMPU	RANAB	SENGL				
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Senecio glabel>				
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>				
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Dec-4-2013	Dec-4-2013	Dec-4-2013	Dec-4-2013				
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	6	7	8	9				
Days After First/Last Applic.	26 26	26 26	26 26	26 26				
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A				
Plant-Eval Interval	-151 DP-1	-151 DP-1	-151 DP-1	-151 DP-1				
Days After Emergence	-162 DE-1	-162 DE-1	-162 DE-1	-162 DE-1				
ARM Action Codes								
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Other Rate	Other Rate	Appl Code	5	6	7	8
12 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	80	100	53	
12 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
12 MSO	2 pt/a	2 pt/a		A				
13 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	45	93	27	40
13 Express	0.15 oz ai/a	0.3 oz/a		A				
13 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
13 MSO	2 pt/a	2 pt/a		A				
14 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	55	93	33	30
14 Command	0.3 lb ai/a	12.8 oz/a		A				
14 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
14 MSO	2 pt/a	2 pt/a		A				
15 OxyFlo	0.25 lb ai/a	0.5 pt/a		A	30	95	37	37
15 Command	0.3 lb ai/a	12.8 oz/a		A				
15 Express	0.15 oz ai/a	0.3 oz/a		A				
15 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
15 MSO	2 pt/a	2 pt/a		A				
16 Canopy EX 1.1 oz/a					37	40	27	30
16 Classic	0.0156 lb ai/a	1 oz/a		A				
16 Express	0.0047 lb ai/a	0.15 oz/a		A				
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		A				
16 Authority XL	0.175 lb ai/a	4 oz/a		B				
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B				
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		B				
16 N PAK AMS	5 % v/v	8 pt/a		B				
LSD (P=.05)					29.6	22.5	21.2	20.3
Standard Deviation					17.4	13.4	12.7	12.0
CV					29.9	18.32	38.47	32.91
Bartlett's X2					10.543	4.283	12.71	5.531
P(Bartlett's X2)					0.482	0.978	0.39	0.595
Skewness					-0.2927	-1.206*	0.4499	0.1186
Kurtosis					-1.3757	0.0696	0.4207	-0.1116
Replicate F					1.548	0.176	1.424	0.291
Replicate Prob(F)					0.2370	0.8392	0.2565	0.7502
Treatment F					10.476	18.387	5.624	8.203
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	STEME	LAMPU	RANAB	SENGL					
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Senecio glabel>					
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>					
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014					
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
SE Group No.	11	11	11	11					
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									
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	9	10	11	12
1 utc						0	0	0	0
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0	0	0	0
2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
2 N PAK AMS	5 % v/v		4 qt/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	100	100	100	100
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
3 N PAK AMS	5 % v/v		4 qt/a		A				
3 Valor XLT 4 oz									
3 Valor SX	0.075 lb ai/a		2.35 oz/a		B				
3 Classic	0.0258 lb ai/a		1.65 oz/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
3 N PAK AMS	5 % v/v		4 qt/a		B				
4 Valor XLT 3 oz						100	100	100	100
4 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
4 Classic	0.0194 lb ai/a		1.24 oz/a		A				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
4 N PAK AMS	5 % v/v		4 qt/a		A				
4 Valor XLT 3 oz									
4 Valor SX	0.056 lb ai/a		1.76 oz/a		B				
4 Classic	0.0194 lb ai/a		1.24 oz/a		B				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
4 N PAK AMS	5 % v/v		4 qt/a		B				
5 Canopy	0.105 lb ai/a		2.25 oz/a		A	100	100	100	100
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
5 N PAK AMS	5 % v/v		4 qt/a		A				
6 Tricor	0.375 lb ai/a		8 oz/a		A	100	100	100	100
6 COC	1 % v/v		0.8 qt/a		A				
6 Roundup PowerMax	22 fl oz/a				B				
6 VALOR XLT 3.5 OZ					B				
6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
6 Classic	0.0227 lb ai/a		1.45 oz/a		B				
6 2,4-D Ester	16 fl oz/a		1 pt/a		B				
6 AMS	2.5 % v/v				B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	SENGL
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Senecio glabel>
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	11	11	11	11
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				
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Appl	9	10	11	12	
No.	Name	Rate	Unit	Rate	Unit	Code				
7	Tricor	0.56 lb ai/a		12 oz/a		A	100	100	97	100
7	COC	1 % v/v		0.8 qt/a		A				
7	Roundup PowerMax	22 fl oz/a				B				
7	Valor XLT 3.5 oz/a	3.5 oz/a				B				
7	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
7	Classic	0.0227 lb ai/a		1.45 oz/a		B				
7	2,4-D Ester	16 fl oz/a				B				
7	AMS	2.5 % v/v				B				
8	Tricor	0.375 lb ai/a		8 oz/a		A	100	100	100	100
8	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
8	COC	1 % v/v		0.8 qt/a		A				
8	Roundup PowerMax	22 fl oz/a		22 oz/a		B				
8	Valor XLT 3.5 oz									
8	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
8	Classic	0.0227 lb ai/a		1.45 oz/a		B				
8	2,4-D Ester	16 fl oz/a		16 oz/a		B				
8	AMS	2.5 % v/v		2 qt/a		B				
9	Tricor	0.56 lb ai/a		12 oz/a		A	100	100	100	100
9	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
9	COC	1 % v/v		0.8 qt/a		A				
9	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
9	Valor XLT 3.5 oz									
9	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
9	Classic	0.0227 lb ai/a		1.45 oz/a		B				
9	2,4-D Ester	16 fl oz/a		16 oz/a		B				
9	AMS	2.5 % v/v		2 qt/a		B				
10	Tricor	0.188 lb ai/a		4 oz/a		A	100	100	100	100
10	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
10	Roundup PowerMax	16 fl oz/a		16 oz/a		A				
10	AMS	2.5 % v/v		2 qt/a		A				
10	TRICOR	0.188 lb ai/a		4 oz/a		B				
10	Valor XLT 3.5 oz									
10	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
10	Classic	0.0227 lb ai/a		1.45 oz/a		B				
10	2,4-D Ester	16 fl oz/a				B				
10	Roundup PowerMax	22 fl oz/a				B				
10	AMS	2.5 % v/v				B				
11	2,4-D Ester	16 fl oz/a		16 oz/a		A	100	100	100	100
11	Roundup PowerMax	16 fl oz/a		16 oz/a		A				
11	AMS	2.5 % v/v		2 qt/a		A				
11	Tricor	8 oz/a		8 oz/a		B				
11	Valor XLT 3.5 oz									
11	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
11	Classic	0.0227 lb ai/a		1.45 oz/a		B				
11	2,4-D Ester	16 fl oz/a				B				
11	Roundup PowerMax	22 fl oz/a				B				
11	AMS	2.5 % v/v				B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	RANAB	SENGL
Pest Scientific Name	Stellaria media	Lamium purpure>	Ranunculus abo>	Senecio glabel>
Pest Name	Common chickwe>	Purple deadnet>	Smallflower bu>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-1-2014	Apr-1-2014	Apr-1-2014	Apr-1-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	11	11	11	11
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				
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Other Other	Appl	
No. Name	Rate Unit	Rate Rate Unit	Code	9 10 11 12
12 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100 100 100 100
12 2,4-D Ester	0.5 lb ai/a	1 pt/a	A	
12 MSO	2 pt/a	2 pt/a	A	
13 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100 100 100 100
13 Express	0.15 oz ai/a	0.3 oz/a	A	
13 2,4-D Ester	0.5 lb ai/a	1 pt/a	A	
13 MSO	2 pt/a	2 pt/a	A	
14 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100 100 100 100
14 Command	0.3 lb ai/a	12.8 oz/a	A	
14 2,4-D Ester	0.5 lb ai/a	1 pt/a	A	
14 MSO	2 pt/a	2 pt/a	A	
15 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100 100 100 100
15 Command	0.3 lb ai/a	12.8 oz/a	A	
15 Express	0.15 oz ai/a	0.3 oz/a	A	
15 2,4-D Ester	0.5 lb ai/a	1 pt/a	A	
15 MSO	2 pt/a	2 pt/a	A	
16 Canopy EX 1.1 oz/a				100 100 100 100
16 Classic	0.0156 lb ai/a	1 oz/a	A	
16 Express	0.0047 lb ai/a	0.15 oz/a	A	
16 2,4-D Ester	0.5 lb ai/a	1 pt/a	A	
16 Authority XL	0.175 lb ai/a	4 oz/a	B	
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a	B	
16 2,4-D Ester	0.5 lb ai/a	1 pt/a	B	
16 N PAK AMS	5 % v/v	8 pt/a	B	
LSD (P=.05)	0.0	0.0	2.4	0.0
Standard Deviation	0.0	0.0	1.4	0.0
CV	0.0	0.0	1.65	0.0
Bartlett's X2	0.0	0.0	0.0	0.0
P(Bartlett's X2)				
Skewness	-2.3416*	-2.3416*	-2.3334*	-2.3416*
Kurtosis	3.6329*	3.6329*	3.6084*	3.6329*
Replicate F	0.000	0.000	1.000	0.000
Replicate Prob(F)	1.0000	1.0000	0.3798	1.0000
Treatment F	0.000	0.000	1673.000	0.000
Treatment Prob(F)	1.0000	1.0000	0.0001	1.0000

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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									
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014					
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
SE Group No.	12	13	14	15					
Days After First/Last Applic.	172 5	172 5	172 5	172 5					
Trt-Eval Interval	5 DA-B	5 DA-B	5 DA-B	5 DA-B					
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	Rate Unit	Other Rate	Other Rate Unit	Appl Code	13	14	15	16
1 utc						0	0	0	0
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	23	23	20	23
2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
2 N PAK AMS	5 % v/v		4 qt/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	100	100	100	100
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
3 N PAK AMS	5 % v/v		4 qt/a		A				
3 Valor XLT 4 oz									
3 Valor SX	0.075 lb ai/a		2.35 oz/a		B				
3 Classic	0.0258 lb ai/a		1.65 oz/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
3 N PAK AMS	5 % v/v		4 qt/a		B				
4 Valor XLT 3 oz						100	100	100	100
4 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
4 Classic	0.0194 lb ai/a		1.24 oz/a		A				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
4 N PAK AMS	5 % v/v		4 qt/a		A				
4 Valor XLT 3 oz									
4 Valor SX	0.056 lb ai/a		1.76 oz/a		B				
4 Classic	0.0194 lb ai/a		1.24 oz/a		B				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
4 N PAK AMS	5 % v/v		4 qt/a		B				
5 Canopy	0.105 lb ai/a		2.25 oz/a		A	100	100	100	100
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
5 N PAK AMS	5 % v/v		4 qt/a		A				
6 Tricor	0.375 lb ai/a		8 oz/a		A	100	100	100	100
6 COC	1 % v/v		0.8 qt/a		A				
6 Roundup PowerMax	22 fl oz/a				B				
6 VALOR XLT 3.5 OZ					B				
6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
6 Classic	0.0227 lb ai/a		1.45 oz/a		B				
6 2,4-D Ester	16 fl oz/a		1 pt/a		B				
6 AMS	2.5 % v/v				B				

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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				
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	12	13	14	15
Days After First/Last Applic.	172 5	172 5	172 5	172 5
Trt-Eval Interval	5 DA-B	5 DA-B	5 DA-B	5 DA-B
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 No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	13	14	15	16
7	Tricor	0.56 lb ai/a	12 oz/a		A	100	100	100	100
7	COC	1 % v/v	0.8 qt/a		A				
7	Roundup PowerMax	22 fl oz/a			B				
7	Valor XLT 3.5 oz/a	3.5 oz/a			B				
7	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
7	Classic	0.0227 lb ai/a	1.45 oz/a		B				
7	2,4-D Ester	16 fl oz/a			B				
7	AMS	2.5 % v/v			B				
8	Tricor	0.375 lb ai/a	8 oz/a		A	100	100	100	100
8	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
8	COC	1 % v/v	0.8 qt/a		A				
8	Roundup PowerMax	22 fl oz/a	22 oz/a		B				
8	Valor XLT 3.5 oz								
8	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
8	Classic	0.0227 lb ai/a	1.45 oz/a		B				
8	2,4-D Ester	16 fl oz/a	16 oz/a		B				
8	AMS	2.5 % v/v	2 qt/a		B				
9	Tricor	0.56 lb ai/a	12 oz/a		A	100	100	100	100
9	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
9	COC	1 % v/v	0.8 qt/a		A				
9	Roundup PowerMax	0.77 lb ae/a	22 oz/a		B				
9	Valor XLT 3.5 oz								
9	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
9	Classic	0.0227 lb ai/a	1.45 oz/a		B				
9	2,4-D Ester	16 fl oz/a	16 oz/a		B				
9	AMS	2.5 % v/v	2 qt/a		B				
10	Tricor	0.188 lb ai/a	4 oz/a		A	100	100	100	100
10	2,4-D Ester	0.5 lb ai/a	16 oz/a		A				
10	Roundup PowerMax	16 fl oz/a	16 oz/a		A				
10	AMS	2.5 % v/v	2 qt/a		A				
10	TRICOR	0.188 lb ai/a	4 oz/a		B				
10	Valor XLT 3.5 oz								
10	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
10	Classic	0.0227 lb ai/a	1.45 oz/a		B				
10	2,4-D Ester	16 fl oz/a			B				
10	Roundup PowerMax	22 fl oz/a			B				
10	AMS	2.5 % v/v			B				
11	2,4-D Ester	16 fl oz/a	16 oz/a		A	100	100	100	100
11	Roundup PowerMax	16 fl oz/a	16 oz/a		A				
11	AMS	2.5 % v/v	2 qt/a		A				
11	Tricor	8 oz/a	8 oz/a		B				
11	Valor XLT 3.5 oz								
11	Valor SX	0.0653 lb ai/a	2.05 oz/a		B				
11	Classic	0.0227 lb ai/a	1.45 oz/a		B				
11	2,4-D Ester	16 fl oz/a			B				
11	Roundup PowerMax	22 fl oz/a			B				
11	AMS	2.5 % v/v			B				

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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							
Rating Date	Apr-29-2014	Apr-29-2014	Apr-29-2014	Apr-29-2014			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
SE Group No.	12	13	14	15			
Days After First/Last Applic.	172 5	172 5	172 5	172 5			
Trt-Eval Interval	5 DA-B	5 DA-B	5 DA-B	5 DA-B			
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	13	14	15	16
No. Name	Rate Unit	Rate Rate Unit	Code				
12 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	100
12 2,4-D Ester	0.5 lb ai/a	1 pt/a	A				
12 MSO	2 pt/a	2 pt/a	A				
13 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	100
13 Express	0.15 oz ai/a	0.3 oz/a	A				
13 2,4-D Ester	0.5 lb ai/a	1 pt/a	A				
13 MSO	2 pt/a	2 pt/a	A				
14 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	100
14 Command	0.3 lb ai/a	12.8 oz/a	A				
14 2,4-D Ester	0.5 lb ai/a	1 pt/a	A				
14 MSO	2 pt/a	2 pt/a	A				
15 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	100
15 Command	0.3 lb ai/a	12.8 oz/a	A				
15 Express	0.15 oz ai/a	0.3 oz/a	A				
15 2,4-D Ester	0.5 lb ai/a	1 pt/a	A				
15 MSO	2 pt/a	2 pt/a	A				
16 Canopy EX 1.1 oz/a				100	100	100	100
16 Classic	0.0156 lb ai/a	1 oz/a	A				
16 Express	0.0047 lb ai/a	0.15 oz/a	A				
16 2,4-D Ester	0.5 lb ai/a	1 pt/a	A				
16 Authority XL	0.175 lb ai/a	4 oz/a	B				
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a	B				
16 2,4-D Ester	0.5 lb ai/a	1 pt/a	B				
16 N PAK AMS	5 % v/v	8 pt/a	B				
LSD (P=.05)				2.4	2.4	0.0	2.4
Standard Deviation				1.4	1.4	0.0	1.4
CV				1.62	1.62	0.0	1.62
Bartlett's X2				0.0	0.0	0.0	0.0
P(Bartlett's X2)			
Skewness				-2.4369*	-2.4369*	-2.4061*	-2.4369*
Kurtosis				4.2942*	4.2942*	4.0868*	4.2942*
Replicate F				1.000	1.000	0.000	1.000
Replicate Prob(F)				0.3798	0.3798	1.0000	0.3798
Treatment F				1337.000	1337.000	0.000	1337.000
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SENGL	AMBTR	STEME	LAMPU					
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Stellaria media	Lamium purpure>					
Pest Name	Cressleaf grou>	Giant ragweed	Common chickwe>	Purple deadnet>					
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Apr-29-2014	Apr-29-2014	May-16-2014	May-16-2014					
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
SE Group No.	17	18	19	20					
Days After First/Last Applic.	172 5	172 5	189 22	189 22					
Trt-Eval Interval	5 DA-B	5 DA-B	22 DA-B	22 DA-B					
Plant-Eval Interval	-5 DP-1	-5 DP-1	12 DP-1	12 DP-1					
Days After Emergence	-16 DE-1	-16 DE-1	1 DE-1	1 DE-1					
ARM Action Codes		AA							
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	17	18	19	20
1 utc						0	0	0	0
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	23	23	60	60
2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
2 N PAK AMS	5 % v/v		4 qt/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	100	81	100	100
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
3 N PAK AMS	5 % v/v		4 qt/a		A				
3 Valor XLT 4 oz									
3 Valor SX	0.075 lb ai/a		2.35 oz/a		B				
3 Classic	0.0258 lb ai/a		1.65 oz/a		B				
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
3 N PAK AMS	5 % v/v		4 qt/a		B				
4 Valor XLT 3 oz						100	99	100	100
4 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
4 Classic	0.0194 lb ai/a		1.24 oz/a		A				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
4 N PAK AMS	5 % v/v		4 qt/a		A				
4 Valor XLT 3 oz									
4 Valor SX	0.056 lb ai/a		1.76 oz/a		B				
4 Classic	0.0194 lb ai/a		1.24 oz/a		B				
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
4 N PAK AMS	5 % v/v		4 qt/a		B				
5 Canopy	0.105 lb ai/a		2.25 oz/a		A	100	72	100	100
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
5 N PAK AMS	5 % v/v		4 qt/a		A				
6 Tricor	0.375 lb ai/a		8 oz/a		A	100	97	100	100
6 COC	1 % v/v		0.8 qt/a		A				
6 Roundup PowerMax	22 fl oz/a				B				
6 VALOR XLT 3.5 OZ					B				
6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
6 Classic	0.0227 lb ai/a		1.45 oz/a		B				
6 2,4-D Ester	16 fl oz/a		1 pt/a		B				
6 AMS	2.5 % v/v				B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SENGL	AMBTR	STEME	LAMPU
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Stellaria media	Lamium purpure>
Pest Name	Cressleaf grou>	Giant ragweed	Common chickwe>	Purple deadnet>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-29-2014	Apr-29-2014	May-16-2014	May-16-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	17	18	19	20
Days After First/Last Applic.	172 5	172 5	189 22	189 22
Trt-Eval Interval	5 DA-B	5 DA-B	22 DA-B	22 DA-B
Plant-Eval Interval	-5 DP-1	-5 DP-1	12 DP-1	12 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	1 DE-1	1 DE-1
ARM Action Codes		AA		
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Appl					
No.	Name	Rate	Unit	Rate	Unit	Code	17	18	19	20
7	Tricor	0.56 lb ai/a		12 oz/a		A	100	100	100	100
7	COC	1 % v/v		0.8 qt/a		A				
7	Roundup PowerMax	22 fl oz/a				B				
7	Valor XLT 3.5 oz/a	3.5 oz/a				B				
7	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
7	Classic	0.0227 lb ai/a		1.45 oz/a		B				
7	2,4-D Ester	16 fl oz/a				B				
7	AMS	2.5 % v/v				B				
8	Tricor	0.375 lb ai/a		8 oz/a		A	100	92	100	100
8	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
8	COC	1 % v/v		0.8 qt/a		A				
8	Roundup PowerMax	22 fl oz/a		22 oz/a		B				
8	Valor XLT 3.5 oz									
8	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
8	Classic	0.0227 lb ai/a		1.45 oz/a		B				
8	2,4-D Ester	16 fl oz/a		16 oz/a		B				
8	AMS	2.5 % v/v		2 qt/a		B				
9	Tricor	0.56 lb ai/a		12 oz/a		A	100	98	100	100
9	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
9	COC	1 % v/v		0.8 qt/a		A				
9	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
9	Valor XLT 3.5 oz									
9	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
9	Classic	0.0227 lb ai/a		1.45 oz/a		B				
9	2,4-D Ester	16 fl oz/a		16 oz/a		B				
9	AMS	2.5 % v/v		2 qt/a		B				
10	Tricor	0.188 lb ai/a		4 oz/a		A	100	100	100	100
10	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
10	Roundup PowerMax	16 fl oz/a		16 oz/a		A				
10	AMS	2.5 % v/v		2 qt/a		A				
10	TRICOR	0.188 lb ai/a		4 oz/a		B				
10	Valor XLT 3.5 oz									
10	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
10	Classic	0.0227 lb ai/a		1.45 oz/a		B				
10	2,4-D Ester	16 fl oz/a				B				
10	Roundup PowerMax	22 fl oz/a				B				
10	AMS	2.5 % v/v				B				
11	2,4-D Ester	16 fl oz/a		16 oz/a		A	100	100	100	100
11	Roundup PowerMax	16 fl oz/a		16 oz/a		A				
11	AMS	2.5 % v/v		2 qt/a		A				
11	Tricor	8 oz/a		8 oz/a		B				
11	Valor XLT 3.5 oz									
11	Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
11	Classic	0.0227 lb ai/a		1.45 oz/a		B				
11	2,4-D Ester	16 fl oz/a				B				
11	Roundup PowerMax	22 fl oz/a				B				
11	AMS	2.5 % v/v				B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SENGL	AMBTR	STEME	LAMPU
Pest Scientific Name	Senecio glabel>	Ambrosia trifi>	Stellaria media	Lamium purpure>
Pest Name	Cressleaf grou>	Giant ragweed	Common chickwe>	Purple deadnet>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-29-2014	Apr-29-2014	May-16-2014	May-16-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	17	18	19	20
Days After First/Last Applic.	172 5	172 5	189 22	189 22
Trt-Eval Interval	5 DA-B	5 DA-B	22 DA-B	22 DA-B
Plant-Eval Interval	-5 DP-1	-5 DP-1	12 DP-1	12 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	1 DE-1	1 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	17	18	19	20
12 OxyFlo	0.25 lb ai/a		0.5 pt/a		A	100	33	100	100
12 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
12 MSO	2 pt/a		2 pt/a		A				
13 OxyFlo	0.25 lb ai/a		0.5 pt/a		A	100	64	100	100
13 Express	0.15 oz ai/a		0.3 oz/a		A				
13 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
13 MSO	2 pt/a		2 pt/a		A				
14 OxyFlo	0.25 lb ai/a		0.5 pt/a		A	100	30	100	100
14 Command	0.3 lb ai/a		12.8 oz/a		A				
14 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
14 MSO	2 pt/a		2 pt/a		A				
15 OxyFlo	0.25 lb ai/a		0.5 pt/a		A	100	62	100	100
15 Command	0.3 lb ai/a		12.8 oz/a		A				
15 Express	0.15 oz ai/a		0.3 oz/a		A				
15 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
15 MSO	2 pt/a		2 pt/a		A				
16 Canopy EX 1.1 oz/a					A	100	95	100	100
16 Classic	0.0156 lb ai/a		1 oz/a		A				
16 Express	0.0047 lb ai/a		0.15 oz/a		A				
16 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
16 Authority XL	0.175 lb ai/a		4 oz/a		B				
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
16 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
16 N PAK AMS	5 % v/v		8 pt/a		B				
LSD (P=.05)						2.4	27.8t	0.0	12.5
Standard Deviation						1.4	16.7t	0.0	7.5
CV						1.62	26.91	0.0	8.22
Bartlett's X2						0.0	18.296	0.0	0.0
P(Bartlett's X2)						.	0.075	.	.
Skewness						-2.4369*	-0.922*	-3.0521*	-3.0074*
Kurtosis						4.2942*	-0.2146	8.4355*	7.7973*
Replicate F						1.000	0.323	0.000	1.000
Replicate Prob(F)						0.3798	0.7268	1.0000	0.3798
Treatment F						1337.000	7.611	0.000	36.889
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	ERYRE	SENGL	AMBTR	VERAG
Pest Scientific Name	Ranunculus abo>	Erysimum repan>	Senecio glabel>	Ambrosia trifri>	Veronica agres>
Pest Name	Smallflower bu>	Bushy wallflow>	Cressleaf grou>	Giant ragweed	Field speedwell
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	May-16-2014	May-16-2014	May-16-2014	May-16-2014	May-16-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
SE Group No.	21	22	24	25	26
Days After First/Last Applic.	189 22	189 22	189 22	189 22	189 22
Trt-Eval Interval	22 DA-B	22 DA-B	22 DA-B	22 DA-B	22 DA-B
Plant-Eval Interval	12 DP-1	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	1 DE-1
ARM Action Codes				AA	
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	21	22	23	24	25
1 utc						0	0	0	0	0
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	80	97	80	92	60
2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B					
2 N PAK AMS	5 % v/v		4 qt/a		B					
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	100	100	100	98	100
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A					
3 N PAK AMS	5 % v/v		4 qt/a		A					
3 Valor XLT 4 oz										
3 Valor SX	0.075 lb ai/a		2.35 oz/a		B					
3 Classic	0.0258 lb ai/a		1.65 oz/a		B					
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B					
3 N PAK AMS	5 % v/v		4 qt/a		B					
4 Valor XLT 3 oz						100	100	100	99	100
4 Valor SX	0.056 lb ai/a		1.76 oz/a		A					
4 Classic	0.0194 lb ai/a		1.24 oz/a		A					
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A					
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A					
4 N PAK AMS	5 % v/v		4 qt/a		A					
4 Valor XLT 3 oz										
4 Valor SX	0.056 lb ai/a		1.76 oz/a		B					
4 Classic	0.0194 lb ai/a		1.24 oz/a		B					
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B					
4 N PAK AMS	5 % v/v		4 qt/a		B					
5 Canopy	0.105 lb ai/a		2.25 oz/a		A	100	100	100	67	87
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A					
5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A					
5 N PAK AMS	5 % v/v		4 qt/a		A					
6 Tricor	0.375 lb ai/a		8 oz/a		A	100	100	100	99	100
6 COC	1 % v/v		0.8 qt/a		A					
6 Roundup PowerMax	22 fl oz/a				B					
6 VALOR XLT 3.5 OZ					B					
6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
6 Classic	0.0227 lb ai/a		1.45 oz/a		B					
6 2,4-D Ester	16 fl oz/a		1 pt/a		B					
6 AMS	2.5 % v/v				B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	RANAB	ERYRE	SENGL	AMBTR	VERAG			
Pest Scientific Name	Ranunculus abo>	Erysimum repa>	Senecio glabel>	Ambrosia trifi>	Veronica agres>			
Pest Name	Smallflower bu>	Bushy wallflow>	Cressleaf grou>	Giant ragweed	Field speedwell			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	May-16-2014	May-16-2014	May-16-2014	May-16-2014	May-16-2014			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
SE Group No.	21	22	24	25	26			
Days After First/Last Applic.	189 22	189 22	189 22	189 22	189 22			
Trt-Eval Interval	22 DA-B	22 DA-B	22 DA-B	22 DA-B	22 DA-B			
Plant-Eval Interval	12 DP-1	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	1 DE-1			
ARM Action Codes				AA				
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Other Other	Appl	21	22	23	24	25
12 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	28	100
12 2,4-D Ester	0.5 lb ai/a	1 pt/a	A					
12 MSO	2 pt/a	2 pt/a	A					
13 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	93	53	87
13 Express	0.15 oz ai/a	0.3 oz/a	A					
13 2,4-D Ester	0.5 lb ai/a	1 pt/a	A					
13 MSO	2 pt/a	2 pt/a	A					
14 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	43	100
14 Command	0.3 lb ai/a	12.8 oz/a	A					
14 2,4-D Ester	0.5 lb ai/a	1 pt/a	A					
14 MSO	2 pt/a	2 pt/a	A					
15 OxyFlo	0.25 lb ai/a	0.5 pt/a	A	100	100	100	57	93
15 Command	0.3 lb ai/a	12.8 oz/a	A					
15 Express	0.15 oz ai/a	0.3 oz/a	A					
15 2,4-D Ester	0.5 lb ai/a	1 pt/a	A					
15 MSO	2 pt/a	2 pt/a	A					
16 Canopy EX 1.1 oz/a				100	100	100	99	100
16 Classic	0.0156 lb ai/a	1 oz/a	A					
16 Express	0.0047 lb ai/a	0.15 oz/a	A					
16 2,4-D Ester	0.5 lb ai/a	1 pt/a	A					
16 Authority XL	0.175 lb ai/a	4 oz/a	B					
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a	B					
16 2,4-D Ester	0.5 lb ai/a	1 pt/a	B					
16 N PAK AMS	5 % v/v	8 pt/a	B					
LSD (P=.05)				0.0	2.4	8.8	18.0t	14.2
Standard Deviation				0.0	1.4	5.3	10.8t	8.5
CV				0.0	1.54	5.78	16.08	9.57
Bartlett's X2				0.0	0.0	0.315	16.589	1.018
P(Bartlett's X2)				.	.	0.574	0.121	0.601
Skewness				-3.5127*	-3.7116*	-3.3118*	-1.1456*	-2.6559*
Kurtosis				11.252*	12.3404*	10.1604*	0.5597	6.4382*
Replicate F				0.000	1.000	0.522	1.870	1.489
Replicate Prob(F)				1.0000	0.3798	0.5984	0.1716	0.2419
Treatment F				0.000	897.000	67.179	18.372	27.817
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifid	Ambrosia artem	Conyza canadensis
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Canada horseweed
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014
Rating Type	PHYCHL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	27	28	29	30
Days After First/Last Applic.	202 35	202 35	202 35	202 35
Trt-Eval Interval	35 DA-A	35 DA-B	35 DA-B	35 DA-B
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1
ARM Action Codes	AL	AA	ER1	AA
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	26	27	28	29	30
1	utc						0	0	0	0	0
2	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	0	22	80	98	57
	2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B					
	2 N PAK AMS	5 % v/v		4 qt/a		B					
3	Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	1	100	93	100	100
	3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A					
	3 N PAK AMS	5 % v/v		4 qt/a		A					
	3 Valor XLT 4 oz										
	3 Valor SX	0.075 lb ai/a		2.35 oz/a		B					
	3 Classic	0.0258 lb ai/a		1.65 oz/a		B					
	3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
	3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B					
	3 N PAK AMS	5 % v/v		4 qt/a		B					
4	Valor XLT 3 oz						0	100	88	100	100
	4 Valor SX	0.056 lb ai/a		1.76 oz/a		A					
	4 Classic	0.0194 lb ai/a		1.24 oz/a		A					
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A					
	4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A					
	4 N PAK AMS	5 % v/v		4 qt/a		A					
	4 Valor XLT 3 oz										
	4 Valor SX	0.056 lb ai/a		1.76 oz/a		B					
	4 Classic	0.0194 lb ai/a		1.24 oz/a		B					
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
	4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B					
	4 N PAK AMS	5 % v/v		4 qt/a		B					
5	Canopy	0.105 lb ai/a		2.25 oz/a		A	1	64	47	100	85
	5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A					
	5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A					
	5 N PAK AMS	5 % v/v		4 qt/a		A					
6	Tricor	0.375 lb ai/a		8 oz/a		A	0	100	92	100	100
	6 COC	1 % v/v		0.8 qt/a		A					
	6 Roundup PowerMax	22 fl oz/a				B					
	6 VALOR XLT 3.5 OZ					B					
	6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
	6 Classic	0.0227 lb ai/a		1.45 oz/a		B					
	6 2,4-D Ester	16 fl oz/a		1 pt/a		B					
	6 AMS	2.5 % v/v				B					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canad>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014
Rating Type	PHYCHL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	27	28	29	30
Days After First/Last Applic.	202 35	202 35	202 35	202 35
Trt-Eval Interval	35 DA-A	35 DA-B	35 DA-B	35 DA-B
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1
ARM Action Codes	AL	AA	ER1	AA
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Appl	26	27	28	29	30	
No.	Name	Rate	Unit	Rate	Unit	Code					
7	Tricor	0.56 lb ai/a		12 oz/a		A	0	99	92	100	100
7	COC	1 % v/v		0.8 qt/a		A					
7	Roundup PowerMax	22 fl oz/a				B					
7	Valor XLT 3.5 oz/a	3.5 oz/a				B					
7	Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
7	Classic	0.0227 lb ai/a		1.45 oz/a		B					
7	2,4-D Ester	16 fl oz/a				B					
7	AMS	2.5 % v/v				B					
8	Tricor	0.375 lb ai/a		8 oz/a		A	0	100	83	99	100
8	2,4-D Ester	0.5 lb ai/a		16 oz/a		A					
8	COC	1 % v/v		0.8 qt/a		A					
8	Roundup PowerMax	22 fl oz/a		22 oz/a		B					
8	Valor XLT 3.5 oz					B					
8	Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
8	Classic	0.0227 lb ai/a		1.45 oz/a		B					
8	2,4-D Ester	16 fl oz/a		16 oz/a		B					
8	AMS	2.5 % v/v		2 qt/a		B					
9	Tricor	0.56 lb ai/a		12 oz/a		A	1	98	93	100	100
9	2,4-D Ester	0.5 lb ai/a		16 oz/a		A					
9	COC	1 % v/v		0.8 qt/a		A					
9	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B					
9	Valor XLT 3.5 oz					B					
9	Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
9	Classic	0.0227 lb ai/a		1.45 oz/a		B					
9	2,4-D Ester	16 fl oz/a		16 oz/a		B					
9	AMS	2.5 % v/v		2 qt/a		B					
10	Tricor	0.188 lb ai/a		4 oz/a		A	1	96	97	100	100
10	2,4-D Ester	0.5 lb ai/a		16 oz/a		A					
10	Roundup PowerMax	16 fl oz/a		16 oz/a		A					
10	AMS	2.5 % v/v		2 qt/a		A					
10	TRICOR	0.188 lb ai/a		4 oz/a		B					
10	Valor XLT 3.5 oz					B					
10	Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
10	Classic	0.0227 lb ai/a		1.45 oz/a		B					
10	2,4-D Ester	16 fl oz/a				B					
10	Roundup PowerMax	22 fl oz/a				B					
10	AMS	2.5 % v/v				B					
11	2,4-D Ester	16 fl oz/a		16 oz/a		A	2	96	90	100	100
11	Roundup PowerMax	16 fl oz/a		16 oz/a		A					
11	AMS	2.5 % v/v		2 qt/a		A					
11	Tricor	8 oz/a		8 oz/a		B					
11	Valor XLT 3.5 oz					B					
11	Valor SX	0.0653 lb ai/a		2.05 oz/a		B					
11	Classic	0.0227 lb ai/a		1.45 oz/a		B					
11	2,4-D Ester	16 fl oz/a				B					
11	Roundup PowerMax	22 fl oz/a				B					
11	AMS	2.5 % v/v				B					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canad>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code	GLXMA			
BBCH Scale	BSOY			
Crop Scientific Name	Glycine max			
Crop Name	Soybean			
Rating Date	May-29-2014	May-29-2014	May-29-2014	May-29-2014
Rating Type	PHYCHL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	27	28	29	30
Days After First/Last Applic.	202 35	202 35	202 35	202 35
Trt-Eval Interval	35 DA-A	35 DA-B	35 DA-B	35 DA-B
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1
ARM Action Codes	AL	AA	ER1	AA
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Appl Unit	Code	26	27	28	29	30
12 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		0	4	17	7	33
12 2,4-D Ester	0.5 lb ai/a	1 pt/a		A						
12 MSO	2 pt/a	2 pt/a		A						
13 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		1	89	40	69	100
13 Express	0.15 oz ai/a	0.3 oz/a		A						
13 2,4-D Ester	0.5 lb ai/a	1 pt/a		A						
13 MSO	2 pt/a	2 pt/a		A						
14 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		0	91	30	9	63
14 Command	0.3 lb ai/a	12.8 oz/a		A						
14 2,4-D Ester	0.5 lb ai/a	1 pt/a		A						
14 MSO	2 pt/a	2 pt/a		A						
15 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		1	88	37	51	70
15 Command	0.3 lb ai/a	12.8 oz/a		A						
15 Express	0.15 oz ai/a	0.3 oz/a		A						
15 2,4-D Ester	0.5 lb ai/a	1 pt/a		A						
15 MSO	2 pt/a	2 pt/a		A						
16 Canopy EX 1.1 oz/a						4	98	87	100	100
16 Classic	0.0156 lb ai/a	1 oz/a		A						
16 Express	0.0047 lb ai/a	0.15 oz/a		A						
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		A						
16 Authority XL	0.175 lb ai/a	4 oz/a		B						
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B						
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		B						
16 N PAK AMS	5 % v/v	8 pt/a		B						
LSD (P=.05)						0.7t	21.1t	16.9	28.3t	30.8
Standard Deviation						0.4t	12.7t	10.1	16.9t	18.5
CV						223.85	18.98	15.23	24.38	22.58
Bartlett's X2						0.572	9.369	12.217	6.512	7.255
P(Bartlett's X2)						0.999	0.588	0.428	0.26	0.123
Skewness						1.7275*	-1.2908*	-0.8076*	-1.4553*	-1.6784*
Kurtosis						1.1409	0.5056	-0.6604	0.4217	1.4971*
Replicate F						0.265	2.852	6.811	0.550	1.945
Replicate Prob(F)						0.7686	0.0735	0.0036	0.5829	0.1605
Treatment F						0.789	15.478	30.632	10.791	7.908
Treatment Prob(F)						0.6798	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canadens>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-30-2014	Jun-30-2014	Jun-30-2014	Jun-30-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	32	33	35	34
Days After First/Last Applic.	234 67	234 67	234 67	234 67
Trt-Eval Interval	67 DA-B	67 DA-B	67 DA-B	67 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1
ARM Action Codes				ET1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	31	32	33	34
1	utc						100	78	100	27
2	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B	92	83	100	57
	2 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
	2 N PAK AMS	5 % v/v		4 qt/a		B				
3	Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	99	81	100	100
	3 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
	3 N PAK AMS	5 % v/v		4 qt/a		A				
	3 Valor XLT 4 oz									
	3 Valor SX	0.075 lb ai/a		2.35 oz/a		B				
	3 Classic	0.0258 lb ai/a		1.65 oz/a		B				
	3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
	3 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
	3 N PAK AMS	5 % v/v		4 qt/a		B				
4	Valor XLT 3 oz						98	87	100	100
	4 Valor SX	0.056 lb ai/a		1.76 oz/a		A				
	4 Classic	0.0194 lb ai/a		1.24 oz/a		A				
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
	4 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
	4 N PAK AMS	5 % v/v		4 qt/a		A				
	4 Valor XLT 3 oz									
	4 Valor SX	0.056 lb ai/a		1.76 oz/a		B				
	4 Classic	0.0194 lb ai/a		1.24 oz/a		B				
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		B				
	4 2,4-D Ester	0.5 lb ai/a		1 pt/a		B				
	4 N PAK AMS	5 % v/v		4 qt/a		B				
5	Canopy	0.105 lb ai/a		2.25 oz/a		A	90	90	100	83
	5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A				
	5 2,4-D Ester	0.5 lb ai/a		1 pt/a		A				
	5 N PAK AMS	5 % v/v		4 qt/a		A				
6	Tricor	0.375 lb ai/a		8 oz/a		A	93	80	100	95
	6 COC	1 % v/v		0.8 qt/a		A				
	6 Roundup PowerMax	22 fl oz/a				B				
	6 VALOR XLT 3.5 OZ					B				
	6 Valor SX	0.0653 lb ai/a		2.05 oz/a		B				
	6 Classic	0.0227 lb ai/a		1.45 oz/a		B				
	6 2,4-D Ester	16 fl oz/a		1 pt/a		B				
	6 AMS	2.5 % v/v				B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canadens>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-30-2014	Jun-30-2014	Jun-30-2014	Jun-30-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	32	33	35	34
Days After First/Last Applic.	234 67	234 67	234 67	234 67
Trt-Eval Interval	67 DA-B	67 DA-B	67 DA-B	67 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1
ARM Action Codes				ET1
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Appl	31		32		33		34	
No.	Name	Rate	Unit	Rate	Unit	Code							
7	Tricor	0.56 lb ai/a		12 oz/a		A	92		75		100		90
7	COC	1 % v/v		0.8 qt/a		A							
7	Roundup PowerMax	22 fl oz/a				B							
7	Valor XLT 3.5 oz/a	3.5 oz/a				B							
7	Valor SX	0.0653 lb ai/a		2.05 oz/a		B							
7	Classic	0.0227 lb ai/a		1.45 oz/a		B							
7	2,4-D Ester	16 fl oz/a				B							
7	AMS	2.5 % v/v				B							
8	Tricor	0.375 lb ai/a		8 oz/a		A	92		77		100		90
8	2,4-D Ester	0.5 lb ai/a		16 oz/a		A							
8	COC	1 % v/v		0.8 qt/a		A							
8	Roundup PowerMax	22 fl oz/a		22 oz/a		B							
8	Valor XLT 3.5 oz												
8	Valor SX	0.0653 lb ai/a		2.05 oz/a		B							
8	Classic	0.0227 lb ai/a		1.45 oz/a		B							
8	2,4-D Ester	16 fl oz/a		16 oz/a		B							
8	AMS	2.5 % v/v		2 qt/a		B							
9	Tricor	0.56 lb ai/a		12 oz/a		A	99		90		100		95
9	2,4-D Ester	0.5 lb ai/a		16 oz/a		A							
9	COC	1 % v/v		0.8 qt/a		A							
9	Roundup PowerMax	0.77 lb ae/a		22 oz/a		B							
9	Valor XLT 3.5 oz												
9	Valor SX	0.0653 lb ai/a		2.05 oz/a		B							
9	Classic	0.0227 lb ai/a		1.45 oz/a		B							
9	2,4-D Ester	16 fl oz/a		16 oz/a		B							
9	AMS	2.5 % v/v		2 qt/a		B							
10	Tricor	0.188 lb ai/a		4 oz/a		A	88		93		100		93
10	2,4-D Ester	0.5 lb ai/a		16 oz/a		A							
10	Roundup PowerMax	16 fl oz/a		16 oz/a		A							
10	AMS	2.5 % v/v		2 qt/a		A							
10	TRICOR	0.188 lb ai/a		4 oz/a		B							
10	Valor XLT 3.5 oz												
10	Valor SX	0.0653 lb ai/a		2.05 oz/a		B							
10	Classic	0.0227 lb ai/a		1.45 oz/a		B							
10	2,4-D Ester	16 fl oz/a				B							
10	Roundup PowerMax	22 fl oz/a				B							
10	AMS	2.5 % v/v				B							
11	2,4-D Ester	16 fl oz/a		16 oz/a		A	87		80		100		90
11	Roundup PowerMax	16 fl oz/a		16 oz/a		A							
11	AMS	2.5 % v/v		2 qt/a		A							
11	Tricor	8 oz/a		8 oz/a		B							
11	Valor XLT 3.5 oz												
11	Valor SX	0.0653 lb ai/a		2.05 oz/a		B							
11	Classic	0.0227 lb ai/a		1.45 oz/a		B							
11	2,4-D Ester	16 fl oz/a				B							
11	Roundup PowerMax	22 fl oz/a				B							
11	AMS	2.5 % v/v				B							

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	ERICA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Conyza canadens>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-30-2014	Jun-30-2014	Jun-30-2014	Jun-30-2014
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	32	33	35	34
Days After First/Last Applic.	234 67	234 67	234 67	234 67
Trt-Eval Interval	67 DA-B	67 DA-B	67 DA-B	67 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1
ARM Action Codes				ET1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Appl Unit	Code	31	32	33	34
12 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		97	83	100	80
12 2,4-D Ester	0.5 lb ai/a	1 pt/a		A					
12 MSO	2 pt/a	2 pt/a		A					
13 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		83	77	100	87
13 Express	0.15 oz ai/a	0.3 oz/a		A					
13 2,4-D Ester	0.5 lb ai/a	1 pt/a		A					
13 MSO	2 pt/a	2 pt/a		A					
14 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		93	83	100	70
14 Command	0.3 lb ai/a	12.8 oz/a		A					
14 2,4-D Ester	0.5 lb ai/a	1 pt/a		A					
14 MSO	2 pt/a	2 pt/a		A					
15 OxyFlo	0.25 lb ai/a	0.5 pt/a		A		87	78	100	73
15 Command	0.3 lb ai/a	12.8 oz/a		A					
15 Express	0.15 oz ai/a	0.3 oz/a		A					
15 2,4-D Ester	0.5 lb ai/a	1 pt/a		A					
15 MSO	2 pt/a	2 pt/a		A					
16 Canopy EX 1.1 oz/a						90	83	100	100
16 Classic	0.0156 lb ai/a	1 oz/a		A					
16 Express	0.0047 lb ai/a	0.15 oz/a		A					
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		A					
16 Authority XL	0.175 lb ai/a	4 oz/a		B					
16 Roundup PowerMax	0.77 lb ae/a	22 oz/a		B					
16 2,4-D Ester	0.5 lb ai/a	1 pt/a		B					
16 N PAK AMS	5 % v/v	8 pt/a		B					
LSD (P=.05)						10.7	23.4	0.0	26.2
Standard Deviation						6.4	14.0	0.0	15.7
CV						6.95	17.04	0.0	18.91
Bartlett's X2						16.098	12.58	0.0	12.586
P(Bartlett's X2)						0.307	0.635	.	0.40
Skewness						-0.4793	-0.5122	.	-1.9442*
Kurtosis						-1.2607	-0.3567	.	4.5674*
Replicate F						4.212	2.703	0.000	4.637
Replicate Prob(F)						0.0244	0.0833	1.0000	0.0176
Treatment F						1.869	0.433	0.000	4.503
Treatment Prob(F)						0.0706	0.9553	1.0000	0.0002

The Ohio State University

Fall Burndown and Residual Control of Winter Annual Weeds in Soybean

Trial ID: 14FALLSOY2 Location: Trial Year: 2014
Protocol ID: 14FALLSOY2 Investigator: Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact: Valent, UPI, Willowood

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
SENGL, Senecio glabellus, = US
ERYRE, Erysimum repandum, = 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

PHYCHL = phytotoxicity - chlorosis

Rating Unit

% = percent

Plant-Eval Interval

-164 DP-1 = 1 GLXMA May-4-2014
-151 DP-1 = 1 GLXMA May-4-2014
-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

AL = Automatic log transformation of X+1
AS = Automatic square root transformation of X+0.5
AA = Automatic arcsine square root % transformation