

Ohio State University
Horticulture and Crop Science

2012 FALL + SPRING MARESTAIL MANAGEMENT IN SOYBEAN PROTOCOL

Title No. 2:
 Trial ID: 12FALLSOY4 Protocol ID: 12FALLSOY4
 Location: WESTERN BRANCH F-10 E Study Director:
 Project ID: Investigator: Dr. Mark M. Loux
 Sponsor Contact: Caren Schmidt, BASF

General Trial Information

Study Director: Anthony F. Dobbels Title: Research Specialist
 Investigator: Dr. Mark M. Loux Title: Professor

Trial Location

City: South Charleston Latitude of LL Corner °: 39.85865 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67086 W
 Postal Code: 45368
 Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
 Variety: Pioneer 93Y51 Description: RR
 BBCH Scale: BSOY Planting Date: Apr-30-2012
 Planting Method: SEEDED seeded Rate, Unit: 225000 S/A
 Depth, Unit: 0.5 IN
 Row Spacing, Unit: 15 IN
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 63 F
 Soil Moisture: SLIWET slightly wet Emergence Date: May-9-2012

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: TAROF *Taraxacum officinale*
 Common Name: Common dandelion
 Pest 4 Type: W Code: SENGL *Senecio glabellus*
 Common Name: Cressleaf groundsel
 Pest 5 Type: W Code: LAMAM *Lamium amplexicaule*
 Common Name: Henbit
 Pest 6 Type: W Code: ERYRE *Erysimum repandum*
 Common Name: Bushy wallflower
 Pest 7 Type: W Code: ERICA *Conyza canadensis*
 Common Name: Canada horseweed
 Pest 8 Type: W Code: CAPBP *Capsella bursa-pastoris*
 Common Name: Shepherd's purse
 Pest 9 Type: W Code: VERAR *Veronica arvensis*
 Common Name: Corn speedwell
 Pest10 Type: W Code: AMBTR *Ambrosia trifida*
 Common Name: Giant ragweed

Site and Design

Plot Width, Unit: 6.67 FT Site Type: FIELD field
 Plot Length, Unit: 30 FT Experimental Unit: 1 PLOT plot
 Plot Area, Unit: 200.1 FT² Tillage Type: NOTILL no-till
 Replications: 3 Study Design: RACOB L Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-10 East
 % OM: 3.3 Texture: SICL silty clay loam
 pH: 6 Soil Name: Kokomo
 CEC: 25.7 Fert. Level: G good
 Soil Drainage: G good

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Application Description

	A	B
Application Date:	Nov-17-2011	Apr-25-2012
Time of Day:	10:00 A.M	10:00 A.M
Application Method:	SPRAY	SPRAY
Application Timing:	FALL	7 EPP
Application Placement:	BROFOL	BROFOL
Applied By:	McCormick	Bethel
Air Temperature, Unit:	38 F	55 f
% Relative Humidity:	49	62
Wind Velocity, Unit:	8 MPH	5 MPH
Wind Direction:	WSW	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	41 F	45 F
Soil Moisture:	SLIWET	GOOD
% Cloud Cover:	7	3
Next Rain Occurred On:	Nov-21-2011	Apr-26-2012

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:	STEME	W	STEME	W
Stage Majority, Percent:	19	100	65	100
Diameter, Unit:	3	IN	9	IN
Height, Unit:	1	IN	1	IN
Height Minimum, Maximum:	1	2	0.5	1
Density, Unit:	12	m2	12	m2
Pest 2 Code, Type, Scale:	LAMPU	W	LAMPU	W
Stage Majority, Percent:	14	90	65	100
Stage Minimum, Percent:	12	10		
Stage Maximum, Percent:	14	90		
Diameter, Unit:	1	IN	3	IN
Height, Unit:	1	IN	5	IN
Height Minimum, Maximum:	1	2	5	6
Density, Unit:	21.28	m2	21.28	m2
Pest 3 Code, Type, Scale:	TAROF	W	TAROF	W
Stage Majority, Percent:	16	100	65	100
Diameter, Unit:	4	IN	8	IN
Height, Unit:	0.5	IN	3	IN
Height Minimum, Maximum:	0.5	1	2	3
Density, Unit:	0.25	m2	0.25	m2
Pest 4 Code, Type, Scale:	SENGL	W	SENGL	W
Stage Majority, Percent:	18	100	65	100
Diameter, Unit:	4	IN	4	IN
Height, Unit:	1	IN	12	IN
Height Minimum, Maximum:	1	1	12	14
Density, Unit:	0.25	m2	0.25	m2
Pest 5 Code, Type, Scale:	LAMAM	W	LAMAM	W
Stage Majority, Percent:			65	100
Diameter, Unit:			3	IN
Height, Unit:			5	IN
Height Minimum, Maximum:			5	6
Density, Unit:			1.33	m2
Pest 6 Code, Type, Scale:	ERYRE	W	ERYRE	W
Stage Majority, Percent:			65	100
Diameter, Unit:			4	IN
Height, Unit:			10	IN
Height Minimum, Maximum:			9	10
Density, Unit:			4	m2
Pest 7 Code, Type, Scale:	ERICA	W	ERICA	W
Stage Majority, Percent:			19	100
Diameter, Unit:			3	IN
Height, Unit:			2	IN
Height Minimum, Maximum:			0.5	4
Density, Unit:			21.28	m2
Pest 8 Code, Type, Scale:	CAPBP	W	CAPBP	W
Stage Majority, Percent:			69	100
Diameter, Unit:			4	IN
Height, Unit:			12	IN
Height Minimum, Maximum:			10	12
Density, Unit:			2.66	m2
Pest 9 Code, Type, Scale:	VERAR	W	VERAR	W
Stage Majority, Percent:			65	100
Diameter, Unit:			8	IN
Height, Unit:			0.5	IN
Height Minimum, Maximum:			0.5	0.75
Density, Unit:			1.33	m2
Pest10 Code, Type, Scale:	AMBTR	W	AMBTR	W
Stage Majority, Percent:			16	90
Stage Minimum, Percent:			14	10
Stage Maximum, Percent:			16	90
Diameter, Unit:			3	IN
Height, Unit:			2	IN
Height Minimum, Maximum:			2	3
Density, Unit:			5.22	m2

Application Equipment

	A		B	
Appl. Equipment:	10 Foot Boom	10' AI XR		
Equipment Type:	SPRBAC	SPRBAC		
Operation Pressure, Unit:	46	PSI	46	PSI
Nozzle Type:	TEEJET DG	AI XR		
Nozzle Size:	80015	110015		
Nozzle Spacing, Unit:	18	IN	18	IN
Boom Length, Unit:	10	FT	10	FT
Boom Height, Unit:	20	IN	20	IN
Ground Speed, Unit:	3	MPH	3	MPH
Carrier:	WATER	WATER		
Spray Volume, Unit:	15	GPA	15	GPA
Mix Size, Unit:	0.33	Gallons	0.33	Gallons
Propellant:	CO2	CO2		

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Location: WESTERN BRANCH F-10 E

Study Director:

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Investigator: Dr. Mark M. Loux

Sponsor Contact: Caren Schmidt, BASF

Pest Type		W Weed	W Weed	W Weed	W Weed						
Pest Code		LAMPU	STEME	ERYRE	AMBTR						
Pest Scientific Name		Lamium purpure>	Stellaria media	Erysimum repa>	Ambrosia trifi>						
Pest Name		Purple deadnet>	Common chickwe>	Bushy wallflow>	Giant ragweed						
Rating Date		Apr-17-2012	Apr-17-2012	Apr-17-2012	Apr-17-2012						
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit		%	%	%	%						
Number of Subsamples		1	1	1	1						
Days After First/Last Applic.		152 152	152 152	152 152	152 152						
Trt-Eval Interval		152 DA-A	152 DA-A	152 DA-A	152 DA-A						
Plant-Eval Interval		-13 DP-1	-13 DP-1	-13 DP-1	-13 DP-1						
Days After Emergence		-22 DE-1	-22 DE-1	-22 DE-1	-22 DE-1						
Number of Decimals		0	0	0	0						
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4
1	CHECK							0 b	0 b	0 b	0 c
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	100 a	100 a	100 a	97 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	COC	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	99 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	85 b
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	0 b	0 b	0 b	0 c
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	0 b	0 b	0 b	0 c
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	LAMPU	STEME	ERYRE	AMBTR							
Pest Scientific Name	Lamium purpure>	Stellaria media	Erysimum repa>	Ambrosia trifi>							
Pest Name	Purple deadnet>	Common chickwe>	Bushy wallflow>	Giant ragweed							
Rating Date	Apr-17-2012	Apr-17-2012	Apr-17-2012	Apr-17-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	152 152	152 152	152 152	152 152							
Trt-Eval Interval	152 DA-A	152 DA-A	152 DA-A	152 DA-A							
Plant-Eval Interval	-13 DP-1	-13 DP-1	-13 DP-1	-13 DP-1							
Days After Emergence	-22 DE-1	-22 DE-1	-22 DE-1	-22 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4
6	Zidua	0.133	lb ai/a	2.5	oz/a	7	EPP				
6	MSO	1	% v/v	0.6	qt/a	7	EPP				
6	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
7	VALOR XLT 3.5							0 b	0 b	0 b	0 c
7	Valor SX	0.0653	lb ai/a	2.05	oz/a	7	EPP B				
7	Classic	0.0227	lb ai/a	1.45	oz/a	7	EPP				
7	2,4-D Ester	0.5	lb ai/a	16	oz/a	7	EPP				
7	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7	EPP				
7	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
8	Canopy	0.164	lb ai/a	3.5	oz/a	7	EPP B	0 b	0 b	0 b	0 c
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	7	EPP				
8	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7	EPP				
8	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
	LSD (P=.05)							0.0	0.0	0.0	6.6
	Standard Deviation							0.0	0.0	0.0	3.7
	CV							0.0	0.0	0.0	10.65

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	STEME	LAMPU	CAPBP	VERAR							
Pest Scientific Name	Stellaria media Lamium purpure> Capsella bursa> Veronica arven>										
Pest Name	Common chickwe> Purple deadnet> Shepherd's pur> Corn speedwell										
Rating Date	Apr-30-2012	Apr-30-2012	Apr-30-2012	Apr-30-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	165 5	165 5	165 5	165 5							
Trt-Eval Interval	152 DA-A	5 DA-B	5 DA-B	5 DA-B							
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1							
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	5	6	7	8
1	CHECK							0 d	0 d	0 d	0 d
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	COC	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	99 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	63 b	60 b	61 b	51 b
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	65 b	57 b	60 b	57 b
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					

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Pest Code	STEME	LAMPU	CAPBP	VERAR							
Pest Scientific Name	Stellaria media	Lamium purpure>	Capsella bursa>	Veronica arven>							
Pest Name	Common chickwe>	Purple deadnet>	Shepherd's pur>	Corn speedwell							
Rating Date	Apr-30-2012	Apr-30-2012	Apr-30-2012	Apr-30-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	165 5	165 5	165 5	165 5							
Trt-Eval Interval	152 DA-A	5 DA-B	5 DA-B	5 DA-B							
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1							
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	5	6	7	8
6	Zidua	0.133	lb ai/a	2.5	oz/a	7	EPP				
6	MSO	1	% v/v	0.6	qt/a	7	EPP				
6	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
7	VALOR XLT 3.5							60 b	60 b	57 b	53 b
7	Valor SX	0.0653	lb ai/a	2.05	oz/a	7	EPP B				
7	Classic	0.0227	lb ai/a	1.45	oz/a	7	EPP				
7	2,4-D Ester	0.5	lb ai/a	16	oz/a	7	EPP				
7	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7	EPP				
7	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
8	Canopy	0.164	lb ai/a	3.5	oz/a	7	EPP B	23 c	17 c	36 c	32 c
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	7	EPP				
8	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7	EPP				
8	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
LSD (P=.05)								7.3	14.5	11.7	8.8
Standard Deviation								4.2	8.3	6.6	4.8
CV								6.52	13.46	10.21	7.84

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Pest Code	ERYRE	TAROF	ERICA	AMBTR							
Pest Scientific Name	Erysimum repa>	Taraxacum offi>	Conyza canad>	Ambrosia trifi>							
Pest Name	Bushy wallflow>	Common dandel>	Canada horsewe>	Giant ragweed							
Rating Date	Apr-30-2012	Apr-30-2012	Apr-30-2012	Apr-30-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	165 5	165 5	165 5	165 5							
Trt-Eval Interval	5 DA-B	5 DA-B	5 DA-B	5 DA-B							
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1							
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	9	10	11	12
1	CHECK							0 c	0 d	0 d	0 d
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	COC	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	57 b		93 ab	93 ab
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	53 b	93 b	90 b	92 ab
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	ERYRE	TAROF	ERICA	AMBTR							
Pest Scientific Name	Erysimum repa>	Taraxacum offi>	Conyza canad>	Ambrosia trifi>							
Pest Name	Bushy wallflow>	Common dandel>	Canada horsewe>	Giant ragweed							
Rating Date	Apr-30-2012	Apr-30-2012	Apr-30-2012	Apr-30-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	165 5	165 5	165 5	165 5							
Trt-Eval Interval	5 DA-B	5 DA-B	5 DA-B	5 DA-B							
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1							
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	9	10	11	12
6	Zidua	0.133	lb ai/a	2.5	oz/a	7 EPP					
6	MSO	1	% v/v	0.6	qt/a	7 EPP					
6	N-PAK AMS	5	% v/v	3	qt/a	7 EPP					
7	VALOR XLT 3.5							50 b	89 c	88 b	90 b
7	Valor SX	0.0653	lb ai/a	2.05	oz/a	7 EPP B					
7	Classic	0.0227	lb ai/a	1.45	oz/a	7 EPP					
7	2,4-D Ester	0.5	lb ai/a	16	oz/a	7 EPP					
7	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7 EPP					
7	N-PAK AMS	5	% v/v	3	qt/a	7 EPP					
8	Canopy	0.164	lb ai/a	3.5	oz/a	7 EPP B		47 b		53 c	62 c
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	7 EPP					
8	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7 EPP					
8	N-PAK AMS	5	% v/v	3	qt/a	7 EPP					
	LSD (P=.05)							10.1	2.3	10.0	9.2
	Standard Deviation							5.8	1.1	5.7	5.2
	CV							9.12	1.4	7.31	6.59

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	LAMAM	STEME	LAMPU	CAPBP							
Pest Scientific Name	Lamium amplexi>	Stellaria media	Lamium purpure>	Capsella bursa>							
Pest Name	Henbit	Common chickwe>	Purple deadnet>	Shepherd's pur>							
Rating Date	Apr-30-2012	May-14-2012	May-14-2012	May-14-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	165 5	179 19	179 19	179 19							
Trt-Eval Interval	5 DA-B	19 DA-B	19 DA-B	19 DA-B							
Plant-Eval Interval	0 DP-1	14 DP-1	14 DP-1	14 DP-1							
Days After Emergence	-9 DE-1	5 DE-1	5 DE-1	5 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16
1	CHECK							0 d	0 c	0 c	0 b
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	COC	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	60 b	99 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	60 b	90 b	95 ab	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	LAMAM	STEME	LAMPU	CAPBP							
Pest Scientific Name	Lamium amplexi>	Stellaria media	Lamium purpure>	Capsella bursa>							
Pest Name	Henbit Common chickwe>		Purple deadnet>	Shepherd's pur>							
Rating Date	Apr-30-2012	May-14-2012	May-14-2012	May-14-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	165 5	179 19	179 19	179 19							
Trt-Eval Interval	5 DA-B	19 DA-B	19 DA-B	19 DA-B							
Plant-Eval Interval	0 DP-1	14 DP-1	14 DP-1	14 DP-1							
Days After Emergence	-9 DE-1	5 DE-1	5 DE-1	5 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16
6	Zidua	0.133	lb ai/a	2.5	oz/a	7	EPP				
6	MSO	1	% v/v	0.6	qt/a	7	EPP				
6	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
7	VALOR XLT 3.5							60 b	95 ab	100 a	100 a
7	Valor SX	0.0653	lb ai/a	2.05	oz/a	7	EPP B				
7	Classic	0.0227	lb ai/a	1.45	oz/a	7	EPP				
7	2,4-D Ester	0.5	lb ai/a	16	oz/a	7	EPP				
7	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7	EPP				
7	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
8	Canopy	0.164	lb ai/a	3.5	oz/a	7	EPP B	30 c	96 ab	92 b	100 a
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	7	EPP				
8	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7	EPP				
8	N-PAK AMS	5	% v/v	3	qt/a	7	EPP				
LSD (P=.05)								12.4	8.9	7.8	0.0
Standard Deviation								7.1	5.1	4.4	0.0
CV								11.09	6.01	5.18	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	VERAR	ERYRE	TAROF	ERICA							
Pest Scientific Name	Veronica arven>	Erysimum repa>	Taraxacum offi>	Conyza canad>							
Pest Name	Corn speedwell	Bushy wallflow>	Common dandel>	Canada horsewe>							
Rating Date	May-14-2012	May-14-2012	May-14-2012	May-14-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	179 19	179 19	179 19	179 19							
Trt-Eval Interval	19 DA-B	19 DA-B	19 DA-B	19 DA-B							
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1							
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	19	20
1	CHECK							0 b	0 b	0	0 b
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	100 a	100 a		100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	COC	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a		100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a		100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	MSO	1 % v/v		0.6 qt/a		FALL					
	N-PAK AMS	5 % v/v		3 qt/a		FALL					
	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	100 a	100 a		100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	MSO	1 % v/v		0.6 qt/a		7 EPP					
	N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	100 a	100 a		100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	VERAR	ERYRE	TAROF	ERICA				
Pest Scientific Name	Veronica arven>	Erysimum repa>	Taraxacum offi>	Conyza canad>				
Pest Name	Corn speedwell	Bushy wallflow>	Common dandel>	Canada horsewe>				
Rating Date	May-14-2012	May-14-2012	May-14-2012	May-14-2012				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Days After First/Last Applic.	179 19	179 19	179 19	179 19				
Trt-Eval Interval	19 DA-B	19 DA-B	19 DA-B	19 DA-B				
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1				
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1				
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Rate	Other Other	Growth Appl	17	18	19	20
No. Name	Unit	Unit	Rate Rate Unit	Stage Code				
6 Zidua	0.133 lb ai/a	2.5 oz/a		7 EPP				
6 MSO	1 % v/v	0.6 qt/a		7 EPP				
6 N-PAK AMS	5 % v/v	3 qt/a		7 EPP				
7 VALOR XLT 3.5					100 a	100 a		100 a
7 Valor SX	0.0653 lb ai/a	2.05 oz/a		7 EPP B				
7 Classic	0.0227 lb ai/a	1.45 oz/a		7 EPP				
7 2,4-D Ester	0.5 lb ai/a	16 oz/a		7 EPP				
7 Roundup PowerMax	0.77 lb ae/a	22 oz/a		7 EPP				
7 N-PAK AMS	5 % v/v	3 qt/a		7 EPP				
8 Canopy	0.164 lb ai/a	3.5 oz/a		7 EPP B	100 a	100 a		100 a
8 2,4-D Ester	0.5 lb ai/a	16 oz/a		7 EPP				
8 Roundup PowerMax	0.77 lb ae/a	22 oz/a		7 EPP				
8 N-PAK AMS	5 % v/v	3 qt/a		7 EPP				
LSD (P=.05)					0.0	0.0	.	0.0
Standard Deviation					0.0	0.0	.	0.0
CV					0.0	0.0	.	0.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code	AMBTR	LAMAM	SETFA	ERICA	AMBTR							
Pest Scientific Name	Ambrosia trifi>	Lamium amplexi>	Setaria faberi	Conyza canadens>	Ambrosia trifi>							
Pest Name	Giant ragweed	Henbit	Giant foxtail	Canada horsewe>	Giant ragweed							
Rating Date	May-14-2012	May-14-2012	May-29-2012	May-29-2012	May-29-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%	%							
Number of Subsamples	1	1	1	1	1							
Days After First/Last Applic.	179 19	179 19	194 34	194 34	194 34							
Trt-Eval Interval	19 DA-B	19 DA-B	34 DA-B	34 DA-B	34 DA-B							
Plant-Eval Interval	14 DP-1	14 DP-1	29 DP-1	29 DP-1	29 DP-1							
Days After Emergence	5 DE-1	5 DE-1	20 DE-1	20 DE-1	20 DE-1							
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21	22	23	24	25
1	CHECK							0 c	0 c	0 c	0 b	0 d
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	96 a	100 a	87 a	100 a	83 a
2	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL						
2	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL						
2	COC	1 % v/v		0.6 qt/a		FALL						
2	N-PAK AMS	5 % v/v		3 qt/a		FALL						
2	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B					
2	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
2	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						
2	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP						
2	MSO	1 % v/v		0.6 qt/a		7 EPP						
2	N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	95 a	100 a	87 a	100 a	83 a
3	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL						
3	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL						
3	MSO	1 % v/v		0.6 qt/a		FALL						
3	N-PAK AMS	5 % v/v		3 qt/a		FALL						
3	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B					
3	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
3	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						
3	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP						
3	MSO	1 % v/v		0.6 qt/a		7 EPP						
3	N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	85 ab	99 a	48 b	100 a	40 c
4	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL						
4	Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL						
4	MSO	1 % v/v		0.6 qt/a		FALL						
4	N-PAK AMS	5 % v/v		3 qt/a		FALL						
4	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B					
4	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
4	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						
4	Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP						
4	MSO	1 % v/v		0.6 qt/a		7 EPP						
4	N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	96 a	98 b	90 a	100 a	82 a
5	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
5	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						
5	Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP						
5	MSO	1 % v/v		0.6 qt/a		7 EPP						
5	N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	82 b	100 a	67 ab	100 a	53 bc
6	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
6	Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code	AMBTR	LAMAM	SETFA	ERICA	AMBTR							
Pest Scientific Name	Ambrosia trifi>	Lamium amplexi>	Setaria faberi	Conyza canadens>	Ambrosia trifi>							
Pest Name	Giant ragweed	Henbit	Giant foxtail	Canada horsewe>	Giant ragweed							
Rating Date	May-14-2012	May-14-2012	May-29-2012	May-29-2012	May-29-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%	%							
Number of Subsamples	1	1	1	1	1							
Days After First/Last Applic.	179 19	179 19	194 34	194 34	194 34							
Trt-Eval Interval	19 DA-B	19 DA-B	34 DA-B	34 DA-B	34 DA-B							
Plant-Eval Interval	14 DP-1	14 DP-1	29 DP-1	29 DP-1	29 DP-1							
Days After Emergence	5 DE-1	5 DE-1	20 DE-1	20 DE-1	20 DE-1							
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21	22	23	24	25
6	Zidua	0.133	lb ai/a	2.5	oz/a	7 EPP						
6	MSO	1	% v/v	0.6	qt/a	7 EPP						
6	N-PAK AMS	5	% v/v	3	qt/a	7 EPP						
7	VALOR XLT 3.5							89 ab	99 a	83 a	93 a	73 ab
7	Valor SX	0.0653	lb ai/a	2.05	oz/a	7 EPP B						
7	Classic	0.0227	lb ai/a	1.45	oz/a	7 EPP						
7	2,4-D Ester	0.5	lb ai/a	16	oz/a	7 EPP						
7	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7 EPP						
7	N-PAK AMS	5	% v/v	3	qt/a	7 EPP						
8	Canopy	0.164	lb ai/a	3.5	oz/a	7 EPP B		94 a	100 a	77 ab	100 a	78 a
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	7 EPP						
8	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7 EPP						
8	N-PAK AMS	5	% v/v	3	qt/a	7 EPP						
	LSD (P=.05)							11.8	1.6	30.8	7.2	20.2
	Standard Deviation							6.8	0.9	17.6	4.1	11.5
	CV							8.49	1.08	26.11	4.71	18.72

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Pest Type		W Weed	W Weed	W Weed	W Weed						
Pest Code		CHEAL	AMARE	ABUTH	ERICA						
Pest Scientific Name		Chenopodium al>	Amaranthus ret>	Abutilon theop>	Conyza canadens>						
Pest Name		Common lambsqu>	Redroot pigweed	velvetleaf	Canada horsewe>						
Rating Date		May-29-2012	May-29-2012	May-29-2012	Jun-25-2012						
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit		%	%	%	%						
Number of Subsamples		1	1	1	1						
Days After First/Last Applic.		194 34	194 34	194 34	221 61						
Trt-Eval Interval		34 DA-B	34 DA-B	34 DA-B	61 DA-B						
Plant-Eval Interval		29 DP-1	29 DP-1	29 DP-1	56 DP-1						
Days After Emergence		20 DE-1	20 DE-1	20 DE-1	47 DE-1						
Number of Decimals		0	0	0	0						
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	26	27	28	29
1	CHECK							0 c	0 b	0 c	0 b
2	DISTINCT	0.0875 lb ai/a		2 oz/a		FALL	A	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	2 COC	1 % v/v		0.6 qt/a		FALL					
	2 N-PAK AMS	5 % v/v		3 qt/a		FALL					
	2 Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	2 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	2 Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	2 MSO	1 % v/v		0.6 qt/a		7 EPP					
	2 N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
3	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	100 a	100 a	100 a	95 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	3 MSO	1 % v/v		0.6 qt/a		FALL					
	3 N-PAK AMS	5 % v/v		3 qt/a		FALL					
	3 Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	3 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	3 Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	3 MSO	1 % v/v		0.6 qt/a		7 EPP					
	3 N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
4	Sharpen	0.0223 lb ai/a		1 oz/a		FALL	A	48 b	100 a	33 bc	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		FALL					
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		FALL					
	4 MSO	1 % v/v		0.6 qt/a		FALL					
	4 N-PAK AMS	5 % v/v		3 qt/a		FALL					
	4 Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B				
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	4 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	4 Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP					
	4 MSO	1 % v/v		0.6 qt/a		7 EPP					
	4 N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
5	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	100 a	100 a	100 a	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	5 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					
	5 Scepter	0.123 lb ai/a		2.8 oz/a		7 EPP					
	5 MSO	1 % v/v		0.6 qt/a		7 EPP					
	5 N-PAK AMS	5 % v/v		3 qt/a		7 EPP					
6	Sharpen	0.0223 lb ai/a		1 oz/a		7 EPP	B	100 a	100 a	60 ab	100 a
	2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP					
	6 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	ERICA
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Conyza canadens>
Pest Name	Common lambsqu>	Redroot pigweed	velvetleaf	Canada horsewe>
Rating Date	May-29-2012	May-29-2012	May-29-2012	Jun-25-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	194 34	194 34	194 34	221 61
Trt-Eval Interval	34 DA-B	34 DA-B	34 DA-B	61 DA-B
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	56 DP-1
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	47 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	26	27	28	29
6	Zidua	0.133	lb ai/a	2.5	oz/a	7 EPP					
6	MSO	1	% v/v	0.6	qt/a	7 EPP					
6	N-PAK AMS	5	% v/v	3	qt/a	7 EPP					
7	VALOR XLT 3.5							100 a	100 a	100 a	93 a
7	Valor SX	0.0653	lb ai/a	2.05	oz/a	7 EPP	B				
7	Classic	0.0227	lb ai/a	1.45	oz/a	7 EPP					
7	2,4-D Ester	0.5	lb ai/a	16	oz/a	7 EPP					
7	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7 EPP					
7	N-PAK AMS	5	% v/v	3	qt/a	7 EPP					
8	Canopy	0.164	lb ai/a	3.5	oz/a	7 EPP	B	100 a	100 a	100 a	100 a
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	7 EPP					
8	Roundup PowerMax	0.77	lb ae/a	22	oz/a	7 EPP					
8	N-PAK AMS	5	% v/v	3	qt/a	7 EPP					
LSD (P=.05)								27.0	0.0	46.2	8.3
Standard Deviation								15.4	0.0	26.4	4.7
CV								19.06	0.0	35.55	5.51

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Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	SETFA	AMBTR	AMBEL	CHEAL								
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>								
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Common lambsqu>								
Rating Date	Jun-25-2012	Jun-25-2012	Jun-25-2012	Jun-25-2012								
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO								
Rating Unit	%	%	%	%								
Number of Subsamples	1	1	1	1								
Days After First/Last Applic.	221 61	221 61	221 61	221 61								
Trt-Eval Interval	61 DA-B	61 DA-B	61 DA-B	61 DA-B								
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1								
Days After Emergence	47 DE-1	47 DE-1	47 DE-1	47 DE-1								
Number of Decimals	0	0	0	0								
Trt Treatment	Rate	Rate	Other	Other	Growth	Appl						
No. Name	Rate	Unit	Rate	Rate	Unit	Stage	Code	30	31	32	33	34
1 CHECK								0 b	0 e	0 c	0 b	
2 DISTINCT	0.0875 lb ai/a		2 oz/a			FALL	A	70 a	67 ab	93 a	100 a	
2 2,4-D Ester	0.5 lb ai/a		16 oz/a			FALL						
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a			FALL						
2 COC	1 % v/v		0.6 qt/a			FALL						
2 N-PAK AMS	5 % v/v		3 qt/a			FALL						
2 Sharpen	0.0223 lb ai/a		1 oz/a			7 EPP	B					
2 2,4-D Ester	0.5 lb ai/a		16 oz/a			7 EPP						
2 Roundup PowerMax	0.77 lb ae/a		22 oz/a			7 EPP						
2 Scepter	0.123 lb ai/a		2.8 oz/a			7 EPP						
2 MSO	1 % v/v		0.6 qt/a			7 EPP						
2 N-PAK AMS	5 % v/v		3 qt/a			7 EPP						
3 Sharpen	0.0223 lb ai/a		1 oz/a			FALL	A	73 a	77 a	95 a	100 a	
3 2,4-D Ester	0.5 lb ai/a		16 oz/a			FALL						
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a			FALL						
3 MSO	1 % v/v		0.6 qt/a			FALL						
3 N-PAK AMS	5 % v/v		3 qt/a			FALL						
3 Sharpen	0.0223 lb ai/a		1 oz/a			7 EPP	B					
3 2,4-D Ester	0.5 lb ai/a		16 oz/a			7 EPP						
3 Roundup PowerMax	0.77 lb ae/a		22 oz/a			7 EPP						
3 Scepter	0.123 lb ai/a		2.8 oz/a			7 EPP						
3 MSO	1 % v/v		0.6 qt/a			7 EPP						
3 N-PAK AMS	5 % v/v		3 qt/a			7 EPP						
4 Sharpen	0.0223 lb ai/a		1 oz/a			FALL	A	53 a	20 d	44 b	80 a	
4 2,4-D Ester	0.5 lb ai/a		16 oz/a			FALL						
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a			FALL						
4 MSO	1 % v/v		0.6 qt/a			FALL						
4 N-PAK AMS	5 % v/v		3 qt/a			FALL						
4 Sharpen	0.0223 lb ai/a		1 oz/a			7 EPP	B					
4 2,4-D Ester	0.5 lb ai/a		16 oz/a			7 EPP						
4 Roundup PowerMax	0.77 lb ae/a		22 oz/a			7 EPP						
4 Zidua	0.133 lb ai/a		2.5 oz/a			7 EPP						
4 MSO	1 % v/v		0.6 qt/a			7 EPP						
4 N-PAK AMS	5 % v/v		3 qt/a			7 EPP						
5 Sharpen	0.0223 lb ai/a		1 oz/a			7 EPP	B	73 a	65 abc	83 a	100 a	
5 2,4-D Ester	0.5 lb ai/a		16 oz/a			7 EPP						
5 Roundup PowerMax	0.77 lb ae/a		22 oz/a			7 EPP						
5 Scepter	0.123 lb ai/a		2.8 oz/a			7 EPP						
5 MSO	1 % v/v		0.6 qt/a			7 EPP						
5 N-PAK AMS	5 % v/v		3 qt/a			7 EPP						
6 Sharpen	0.0223 lb ai/a		1 oz/a			7 EPP	B	53 a	10 de	87 a	100 a	
6 2,4-D Ester	0.5 lb ai/a		16 oz/a			7 EPP						
6 Roundup PowerMax	0.77 lb ae/a		22 oz/a			7 EPP						

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	CHEAL
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Common lambsqu>
Rating Date	Jun-25-2012	Jun-25-2012	Jun-25-2012	Jun-25-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	221 61	221 61	221 61	221 61
Trt-Eval Interval	61 DA-B	61 DA-B	61 DA-B	61 DA-B
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	47 DE-1	47 DE-1	47 DE-1	47 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	30	31	32	33	34
6 Zidua	0.133 lb ai/a		2.5 oz/a		7 EPP						
6 MSO	1 % v/v		0.6 qt/a		7 EPP						
6 N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
7 VALOR XLT 3.5							57 a	53 bc	100 a		100 a
7 Valor SX	0.0653 lb ai/a		2.05 oz/a		7 EPP	B					
7 Classic	0.0227 lb ai/a		1.45 oz/a		7 EPP						
7 2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
7 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						
7 N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
8 Canopy	0.164 lb ai/a		3.5 oz/a		7 EPP	B	62 a	50 c	100 a		100 a
8 2,4-D Ester	0.5 lb ai/a		16 oz/a		7 EPP						
8 Roundup PowerMax	0.77 lb ae/a		22 oz/a		7 EPP						
8 N-PAK AMS	5 % v/v		3 qt/a		7 EPP						
LSD (P=.05)							21.5	16.2	26.3		21.5
Standard Deviation							12.3	9.2	14.9		12.2
CV							22.24	21.6	19.81		14.41