

Ohio State University Horticulture and Crop Science

FALL VS SPRING TREATMENTS OF RESIDUAL HERBICIDES FOR MARESTAIL CONTROL

Title No. 2:

Trial ID: 11FALLBURN2 Protocol ID: 11FALLBURN2
Location: Western Branch F-10W Study Director: Bryan Reeb
Project ID: 11FALLBURN2 Investigator: Dr. Mark M. Loux
Sponsor Contact: JOHN WILLIS

General Trial Information

Study Director: Bryan Reeb **Title:** Research Technician
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.85873 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67236 W
Postal Code: 45368
Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG 3631 **Description:** Round Up Ready
BBCH Scale: BSOY **Planting Date:** 5/14/11
Planting Method: PLANTD planted **Rate, Unit:** 197000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: MEDTRA medium/trashy
Soil Moisture: SLIWET slightly wet

Pest Description

- Pest 1 Type:** W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel
- Pest 2 Type:** W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion
- Pest 3 Type:** W **Code:** STEME Stellaria media
Common Name: Common chickweed
- Pest 4 Type:** W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed
- Pest 5 Type:** W **Code:** ERPSS Erophila sp.
Common Name: Whitlowgrass
- Pest 6 Type:** W **Code:** ERYRE Erysimum repandum
Common Name: Bushy wallflower
- Pest 7 Type:** W **Code:** CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse
- Pest 8 Type:** W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 9 Type:** W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
- Pest10 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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: G-7 West
% OM: 1.7 **Texture:** SIL silt loam
pH: 6.1 **Soil Name:** Crosby Silt Loam
CEC: 12.8 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B	C	D
Application Date:	11/9/10	4/1/11	4/21/11	6/9/11
Time of Day:	12:30 PM	1:45 PM	9:00 AM	8:30 am
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	30 EPP	7 EPP	POST
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	71 F	54 F	43 F	81 F
% Relative Humidity:	35	41.7	64	58
Wind Velocity, Unit:	2.4 MPH	8 MPH	6 MPH	2.5 MPH
Wind Direction:	SSW	NW	NNE	SW
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	48 F	41 F	42 F	72 F
Soil Moisture:	DRY	GOOD	VERWET	DRY
% Cloud Cover:	0	25	5	5
Next Rain Occurred On:	11/14/10	4/2/11	4/22/11	6/10/11

Crop Stage At Each Application

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

Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Type, Scale:	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent:	15	100	16	100	65	100		
Diameter, Unit:					4	IN		
Height, Unit:	0.5	IN	1.5	IN	2	IN		
Height Minimum, Maximum:	0.25	0.50	1	2	2	3		
Pest 2 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent:	18	100	19	100	65	100		
Diameter, Unit:	3.5	IN	3	IN	6.5	IN		
Pest 3 Code, Type, Scale:	STEME	W	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	19	100	19	100				
Diameter, Unit:	1	IN	1	IN				
Height, Unit:	0.5	IN	1	IN				
Height Minimum, Maximum:			0.5	1				
Pest 4 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W	ERICA	W
Stage Majority, Percent:			18	100				
Diameter, Unit:			1	IN				
Height, Unit:			1	IN		4	IN	
Height Minimum, Maximum:			0.5	1		4	4	
Pest 5 Code, Type, Scale:	ERPSS	W	ERPSS	W	ERPSS	W	ERPSS	W
Stage Majority, Percent:			61	100				
Diameter, Unit:			1	IN				
Height, Unit:			1	IN				
Height Minimum, Maximum:			1	1.5				
Pest 6 Code, Type, Scale:	ERYRE	W	ERYRE	W	ERYRE	W	ERYRE	W
Stage Majority, Percent:					65	100		
Height, Unit:					7	IN		
Pest 7 Code, Type, Scale:	CAPBP	W	CAPBP	W	CAPBP	W	CAPBP	W
Stage Majority, Percent:					65	100		
Height, Unit:					10	IN		
Height Minimum, Maximum:					4	10		
Pest 8 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Height, Unit:					2	IN		
Height Minimum, Maximum:					2	2		
Pest 9 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL	W	AMBEL	W
Height, Unit:					4	IN		
Height Minimum, Maximum:					4	6		
Pest 10 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Height, Unit:					6	IN		
Height Minimum, Maximum:					5	7		

Application Equipment

	A		B		C		D	
Appl. Equipment:	Backpack		Backpack		Backpack		Backpack	
Equipment Type:	SPRBAC		SPRBAC		SPRBAC		SPRBAC	
Operating Pressure, Unit:	52	PSI	52	PSI	34	PSI	46	PSI
Nozzle Type:	DG		DG		DG		DG	
Nozzle Size:	8002		8002		8002		8015	
Nozzle Spacing, Unit:	18	IN	18	IN	18	IN	18	IN
Boom Length, Unit:	6.67	FT	6.67	FT	6.67	FT	6.67	FT
Boom Height, Unit:	18	IN	18	IN	18	IN	18	IN
Ground Speed, Unit:	3	MPH	3	MPH	3	MPH	3	MPH
Carrier:	WATER		WATER		WATER		WATER	
Spray Volume, Unit:	20	gal/ac	20	gal/ac	15	gal/ac	15	gal/ac
Mix Size, Unit:	0.33	gallons	0.33	gallons	0.33	gallons	0.33	gallons
Propellant:	COMCO2		COMCO2		COMCO2		COMCO2	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERPSS	TAROF	CARPE
Pest Scientific Name	Lamium purpure>	Stellaria media	Erophila sp.	Taraxacum offi>	Cardamine pens>
Pest Name	Purple deadnet>	Common chickwe>	Whitlowgrass	Common dandel>	Pennsylvania b>
Rating Date	4/21/11	4/21/11	4/21/11	4/21/11	4/21/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	163 20	163 20	163 20	163 20	163 20
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Plant-Eval Interval	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code	1	2	3	4	5
1	2,4-D Amine	4	0.5	qt/a	B		0	0	0	0	0
1	Roundup Power Max	4.5	21.3	oz/a	B						
1	N-pak ams	100	3	qt/a	B						
1	Firstate	84	0.3	oz/a	D						
1	Roundup Power Max	4.5	21.3	oz/a	D						
1	N-pak ams	100	3	qt/a	D						
2	Sharpen	2.85	1	oz/a	C		0	0	0	0	0
2	Roundup Power Max	4.5	21.3	oz/a	C						
2	N-pak ams	100	3	qt/a	C						
2	MSO	100	0.6	qt/a	C						
2	Roundup Power Max	4.5	21.3	oz/a	D						
2	N-pak ams	100	3	qt/a	D						
3	Valor XLT @ 3oz						100	100	100	100	100
3	Valor SX	51	1.76	oz/a	A						
3	Classic	25	1.24	oz/a	A						
3	Express	50	0.1	oz/a	A						
3	2,4-D Amine	4	0.5	qt/a	A						
3	Roundup Power Max	4.5	21.3	oz/a	A						
3	N-pak ams	100	3	qt/a	A						
3	Coc	100	0.6	qt/a	A						
3	Sharpen	2.85	1	oz/a	C						
3	Roundup Power Max	4.5	21.3	oz/a	C						
3	N-pak ams	100	3	qt/a	C						
3	MSO	100	0.6	qt/a	C						
3	Roundup Power Max	4.5	21.3	oz/a	D						
3	N-pak ams	100	3	qt/a	D						
4	Valor XLT @ 3oz						100	97	100	100	100
4	Valor SX	51	1.76	oz/a	B						
4	Classic	25	1.24	oz/a	B						
4	Express	50	0.1	oz/a	B						
4	2,4-D Amine	4	0.5	qt/a	B						
4	Roundup Power Max	4.5	21.3	oz/a	B						
4	N-pak ams	100	3	qt/a	B						
4	Coc	100	0.6	qt/a	B						
4	Roundup Power Max	4.5	21.3	oz/a	D						
4	N-pak ams	100	3	qt/a	D						
5	Authority MTZ	45	11	oz/a	A		100	100	100	100	100
5	Express	50	0.1	oz/a	A						
5	2,4-D Amine	4	0.5	qt/a	A						
5	Roundup Power Max	4.5	21.3	oz/a	A						
5	N-pak ams	100	3	qt/a	A						
5	Coc	100	0.6	qt/a	A						
5	Sharpen	2.85	1	oz/a	C						
5	Roundup Power Max	4.5	21.3	oz/a	C						
5	N-pak ams	100	3	qt/a	C						
5	MSO	100	0.6	qt/a	C						
5	Roundup Power Max	4.5	21.3	oz/a	D						
5	N-pak ams	100	3	qt/a	D						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERPSS	TAROF	CARPE
Pest Scientific Name	Lamium purpure>	Stellaria media	Erophila sp.	Taraxacum offi>	Cardamine pens>
Pest Name	Purple deadnet>	Common chickwe>	Whitlowgrass	Common dandel>	Pennsylvania b>
Rating Date	4/21/11	4/21/11	4/21/11	4/21/11	4/21/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	163 20	163 20	163 20	163 20	163 20
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Plant-Eval Interval	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
6	Authority MTZ	45	11 oz/a		B	83	85	100	100	85
6	Express	50	0.1 oz/a		B					
6	2,4-D Amine	4	0.5 qt/a		B					
6	Roundup Power Max	4.5	21.3 oz/a		B					
6	N-pak ams	100	3 qt/a		B					
6	Coc	100	0.6 qt/a		B					
6	Roundup Power Max	4.5	21.3 oz/a		D					
6	N-pak ams	100	3 qt/a		D					
7	Authority	4	5 oz/a		A	100	100	100	100	100
7	Classic	25	1.25 oz/a		A					
7	Express	50	0.1 oz/a		A					
7	2,4-D Amine	4	0.5 qt/a		A					
7	Roundup Power Max	4.5	21.3 oz/a		A					
7	N-pak ams	100	3 qt/a		A					
7	Coc	100	0.6 qt/a		A					
7	Sharpen	2.85	1 oz/a		C					
7	Roundup Power Max	4.5	21.3 oz/a		C					
7	N-pak ams	100	3 qt/a		C					
7	MSO	100	0.6 qt/a		C					
7	Roundup Power Max	4.5	21.3 oz/a		D					
7	N-pak ams	100	3 qt/a		D					
8	Authority	4	5 oz/a		B	90	85	40	99	87
8	Classic	25	1.25 oz/a		B					
8	Express	50	0.1 oz/a		B					
8	2,4-D Amine	4	0.5 qt/a		B					
8	Roundup Power Max	4.5	21.3 oz/a		B					
8	N-pak ams	100	3 qt/a		B					
8	Coc	100	0.6 qt/a		B					
8	Roundup Power Max	4.5	21.3 oz/a		D					
8	N-pak ams	100	3 qt/a		D					
9	Express	50	0.1 oz/a		A	100	100	100	100	100
9	Mon 63410	3	48 oz/a		A					
9	2,4-D Amine	4	0.5 qt/a		A					
9	Roundup Power Max	4.5	21.3 oz/a		A					
9	N-pak ams	100	3 qt/a		A					
9	Sharpen	2.85	1 oz/a		C					
9	Roundup Power Max	4.5	21.3 oz/a		C					
9	N-pak ams	100	3 qt/a		C					
9	MSO	100	0.6 qt/a		C					
9	Roundup Power Max	4.5	21.3 oz/a		D					
9	N-pak ams	100	3 qt/a		D					
10	Express	50	0.1 oz/a		B	62	85	100	97	77
10	Mon 63410	3	48 oz/a		B					
10	2,4-D Amine	4	0.5 qt/a		B					
10	Roundup Power Max	4.5	21.3 oz/a		B					
10	N-pak ams	100	3 qt/a		B					
10	Roundup Power Max	4.5	21.3 oz/a		D					
10	N-pak ams	100	3 qt/a		D					
11	Authority First	70	6.45 oz/a		A	100	100	100	100	100
11	Express	50	0.1 oz/a		A					
11	2,4-D Amine	4	0.5 qt/a		A					
11	Roundup Power Max	4.5	21.3 oz/a		A					
11	N-pak ams	100	3 qt/a		A					
11	Coc	100	0.6 qt/a		A					
11	Sharpen	2.85	1 oz/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	TAROF	CARPE	VERAG
Pest Scientific Name	Lamium purpure>	Stellaria media	Taraxacum offi>	Cardamine pens>	Veronica agres>
Pest Name	Purple deadnet>	Common chickwe>	Common dandel>	Pennsylvania b>	Field speedwell
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	188 25	188 25	188 25	188 25	188 25
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C
Plant-Eval Interval	2 DP-1	2 DP-1	2 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code	6	7	8	9	10
1	2,4-D Amine	4	0.5 qt/a		B		0	0	0	0	0
1	Roundup Power Max	4.5	21.3 oz/a		B						
1	N-pak ams	100	3 qt/a		B						
1	Firstrate	84	0.3 oz/a		D						
1	Roundup Power Max	4.5	21.3 oz/a		D						
1	N-pak ams	100	3 qt/a		D						
2	Sharpen	2.85	1 oz/a		C		100	98	100	92	43
2	Roundup Power Max	4.5	21.3 oz/a		C						
2	N-pak ams	100	3 qt/a		C						
2	MSO	100	0.6 qt/a		C						
2	Roundup Power Max	4.5	21.3 oz/a		D						
2	N-pak ams	100	3 qt/a		D						
3	Valor XLT @ 3oz						100	100	100	100	100
3	Valor SX	51	1.76 oz/a		A						
3	Classic	25	1.24 oz/a		A						
3	Express	50	0.1 oz/a		A						
3	2,4-D Amine	4	0.5 qt/a		A						
3	Roundup Power Max	4.5	21.3 oz/a		A						
3	N-pak ams	100	3 qt/a		A						
3	Coc	100	0.6 qt/a		A						
3	Sharpen	2.85	1 oz/a		C						
3	Roundup Power Max	4.5	21.3 oz/a		C						
3	N-pak ams	100	3 qt/a		C						
3	MSO	100	0.6 qt/a		C						
3	Roundup Power Max	4.5	21.3 oz/a		D						
3	N-pak ams	100	3 qt/a		D						
4	Valor XLT @ 3oz						98	100	100	100	100
4	Valor SX	51	1.76 oz/a		B						
4	Classic	25	1.24 oz/a		B						
4	Express	50	0.1 oz/a		B						
4	2,4-D Amine	4	0.5 qt/a		B						
4	Roundup Power Max	4.5	21.3 oz/a		B						
4	N-pak ams	100	3 qt/a		B						
4	Coc	100	0.6 qt/a		B						
4	Roundup Power Max	4.5	21.3 oz/a		D						
4	N-pak ams	100	3 qt/a		D						
5	Authority MTZ	45	11 oz/a		A		100	100	100	100	100
5	Express	50	0.1 oz/a		A						
5	2,4-D Amine	4	0.5 qt/a		A						
5	Roundup Power Max	4.5	21.3 oz/a		A						
5	N-pak ams	100	3 qt/a		A						
5	Coc	100	0.6 qt/a		A						
5	Sharpen	2.85	1 oz/a		C						
5	Roundup Power Max	4.5	21.3 oz/a		C						
5	N-pak ams	100	3 qt/a		C						
5	MSO	100	0.6 qt/a		C						
5	Roundup Power Max	4.5	21.3 oz/a		D						
5	N-pak ams	100	3 qt/a		D						

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Pest Name	Purple deadnet>	Common chickwe>	Common dandel>	Pennsylvania b>	Field speedwell
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	188 25	188 25	188 25	188 25	188 25
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C
Plant-Eval Interval	2 DP-1	2 DP-1	2 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
6	Authority MTZ	45	11 oz/a		B	75	100	100	98	98
6	Express	50	0.1 oz/a		B					
6	2,4-D Amine	4	0.5 qt/a		B					
6	Roundup Power Max	4.5	21.3 oz/a		B					
6	N-pak ams	100	3 qt/a		B					
6	Coc	100	0.6 qt/a		B					
6	Roundup Power Max	4.5	21.3 oz/a		D					
6	N-pak ams	100	3 qt/a		D					
7	Authority	4	5 oz/a		A	100	100	100	100	100
7	Classic	25	1.25 oz/a		A					
7	Express	50	0.1 oz/a		A					
7	2,4-D Amine	4	0.5 qt/a		A					
7	Roundup Power Max	4.5	21.3 oz/a		A					
7	N-pak ams	100	3 qt/a		A					
7	Coc	100	0.6 qt/a		A					
7	Sharpen	2.85	1 oz/a		C					
7	Roundup Power Max	4.5	21.3 oz/a		C					
7	N-pak ams	100	3 qt/a		C					
7	MSO	100	0.6 qt/a		C					
7	Roundup Power Max	4.5	21.3 oz/a		D					
7	N-pak ams	100	3 qt/a		D					
8	Authority	4	5 oz/a		B	53	100	100	100	37
8	Classic	25	1.25 oz/a		B					
8	Express	50	0.1 oz/a		B					
8	2,4-D Amine	4	0.5 qt/a		B					
8	Roundup Power Max	4.5	21.3 oz/a		B					
8	N-pak ams	100	3 qt/a		B					
8	Coc	100	0.6 qt/a		B					
8	Roundup Power Max	4.5	21.3 oz/a		D					
8	N-pak ams	100	3 qt/a		D					
9	Express	50	0.1 oz/a		A	100	100	100	100	100
9	Mon 63410	3	48 oz/a		A					
9	2,4-D Amine	4	0.5 qt/a		A					
9	Roundup Power Max	4.5	21.3 oz/a		A					
9	N-pak ams	100	3 qt/a		A					
9	Sharpen	2.85	1 oz/a		C					
9	Roundup Power Max	4.5	21.3 oz/a		C					
9	N-pak ams	100	3 qt/a		C					
9	MSO	100	0.6 qt/a		C					
9	Roundup Power Max	4.5	21.3 oz/a		D					
9	N-pak ams	100	3 qt/a		D					
10	Express	50	0.1 oz/a		B	7	93	100	82	83
10	Mon 63410	3	48 oz/a		B					
10	2,4-D Amine	4	0.5 qt/a		B					
10	Roundup Power Max	4.5	21.3 oz/a		B					
10	N-pak ams	100	3 qt/a		B					
10	Roundup Power Max	4.5	21.3 oz/a		D					
10	N-pak ams	100	3 qt/a		D					
11	Authority First	70	6.45 oz/a		A	100	100	100	100	100
11	Express	50	0.1 oz/a		A					
11	2,4-D Amine	4	0.5 qt/a		A					
11	Roundup Power Max	4.5	21.3 oz/a		A					
11	N-pak ams	100	3 qt/a		A					
11	Coc	100	0.6 qt/a		A					
11	Sharpen	2.85	1 oz/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	TAROF	CARPE	VERAG
Pest Scientific Name	Lamium purpure>	Stellaria media	Taraxacum offi>	Cardamine pens>	Veronica agres>
Pest Name	Purple deadnet>	Common chickwe>	Common dandel>	Pennsylvania b>	Field speedwell
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	188 25	188 25	188 25	188 25	188 25
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C
Plant-Eval Interval	2 DP-1	2 DP-1	2 DP-1	2 DP-1	2 DP-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Unit	Appl Code	6	7	8	9	10
11	Roundup Power Max	4.5	21.3	oz/a	C					
	11 N-pak ams	100	3	qt/a	C					
	11 MSO	100	0.6	qt/a	C					
11	Roundup Power Max	4.5	21.3	oz/a	D					
	11 N-pak ams	100	3	qt/a	D					
12	Authority First	70	6.45	oz/a	B	95	100	100	100	97
	12 Express	50	0.1	oz/a	B					
	12 2,4-D Amine	4	0.5	qt/a	B					
	12 Roundup Power Max	4.5	21.3	oz/a	B					
	12 N-pak ams	100	3	qt/a	B					
	12 Coc	100	0.6	qt/a	B					
	12 Roundup Power Max	4.5	21.3	oz/a	D					
	12 N-pak ams	100	3	qt/a	D					
13	Express	50	0.1	oz/a	A	100	100	100	100	100
	13 Gangster @ 2.4oz									
	13 Firstrate	84	0.4	oz/a	A					
	13 Valor SX	51	2	oz/a	A					
	13 2,4-D Amine	4	0.5	qt/a	A					
	13 Roundup Power Max	4.5	21.3	oz/a	A					
	13 N-pak ams	100	3	qt/a	A					
	13 Coc	100	0.6	qt/a	A					
	13 Sharpen	2.85	1	oz/a	C					
	13 Roundup Power Max	4.5	21.3	oz/a	C					
	13 N-pak ams	100	3	qt/a	C					
	13 MSO	100	0.6	qt/a	C					
	13 Roundup Power Max	4.5	21.3	oz/a	D					
	13 N-pak ams	100	3	qt/a	D					
14	Gangster @ 2.4oz					90	100	100	100	100
	14 Firstrate	84	0.4	oz/a	B					
	14 Valor SX	51	2	oz/a	B					
	14 Express	50	0.1	oz/a	B					
	14 2,4-D Amine	4	0.5	qt/a	B					
	14 Roundup Power Max	4.5	21.3	oz/a	B					
	14 N-pak ams	100	3	qt/a	B					
	14 Coc	100	0.6	qt/a	B					
	14 Roundup Power Max	4.5	21.3	oz/a	D					
	14 N-pak ams	100	3	qt/a	D					
LSD (P=.05)		18.7	5.2				0.0		8.5	22.0
Standard Deviation		11.1	3.1				0.0		5.1	13.1
CV		13.95	3.38				0.0		5.56	15.82
Bartlett's X2		12.379	2.962				0.0		4.12	9.783
P(Bartlett's X2)		0.03*	0.085				.		0.127	0.044*
Replicate F		2.307	1.526				0.000		1.704	0.087
Replicate Prob(F)		0.1196	0.2363				1.0000		0.2017	0.9171
Treatment F		29.699	217.901				0.000		83.535	17.975
Treatment Prob(F)		0.0001	0.0001				1.0000		0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ABUTH	ERICA	VERAG	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Abutilon theophrasti	Conyza canadensis	Veronica agrestis	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Canada horseweed	Field speedwell	Giant foxtail
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11	7/8/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	204 41	204 41	204 41	204 41	204 41	241 29
Trt-Eval Interval	41 DA-C	41 DA-C	41 DA-C	41 DA-C	41 DA-C	29 DA-D
Plant-Eval Interval	18 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1	55 DP-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code	11	12	13	14	15	16
1	2,4-D Amine	4	0.5 qt/a		B		7	20	60	43	42	77
1	Roundup Power Max	4.5	21.3 oz/a		B							
1	N-pak ams	100	3 qt/a		B							
1	Firstrate	84	0.3 oz/a		D							
1	Roundup Power Max	4.5	21.3 oz/a		D							
1	N-pak ams	100	3 qt/a		D							
2	Sharpen	2.85	1 oz/a		C		13	67	65	90	56	75
2	Roundup Power Max	4.5	21.3 oz/a		C							
2	N-pak ams	100	3 qt/a		C							
2	MSO	100	0.6 qt/a		C							
2	Roundup Power Max	4.5	21.3 oz/a		D							
2	N-pak ams	100	3 qt/a		D							
3	Valor XLT @ 3oz						40	60	90	100	100	73
3	Valor SX	51	1.76 oz/a		A							
3	Classic	25	1.24 oz/a		A							
3	Express	50	0.1 oz/a		A							
3	2,4-D Amine	4	0.5 qt/a		A							
3	Roundup Power Max	4.5	21.3 oz/a		A							
3	N-pak ams	100	3 qt/a		A							
3	Coc	100	0.6 qt/a		A							
3	Sharpen	2.85	1 oz/a		C							
3	Roundup Power Max	4.5	21.3 oz/a		C							
3	N-pak ams	100	3 qt/a		C							
3	MSO	100	0.6 qt/a		C							
3	Roundup Power Max	4.5	21.3 oz/a		D							
3	N-pak ams	100	3 qt/a		D							
4	Valor XLT @ 3oz						80	78	100	100	100	73
4	Valor SX	51	1.76 oz/a		B							
4	Classic	25	1.24 oz/a		B							
4	Express	50	0.1 oz/a		B							
4	2,4-D Amine	4	0.5 qt/a		B							
4	Roundup Power Max	4.5	21.3 oz/a		B							
4	N-pak ams	100	3 qt/a		B							
4	Coc	100	0.6 qt/a		B							
4	Roundup Power Max	4.5	21.3 oz/a		D							
4	N-pak ams	100	3 qt/a		D							
5	Authority MTZ	45	11 oz/a		A		23	47	80	77	97	80
5	Express	50	0.1 oz/a		A							
5	2,4-D Amine	4	0.5 qt/a		A							
5	Roundup Power Max	4.5	21.3 oz/a		A							
5	N-pak ams	100	3 qt/a		A							
5	Coc	100	0.6 qt/a		A							
5	Sharpen	2.85	1 oz/a		C							
5	Roundup Power Max	4.5	21.3 oz/a		C							
5	N-pak ams	100	3 qt/a		C							
5	MSO	100	0.6 qt/a		C							
5	Roundup Power Max	4.5	21.3 oz/a		D							
5	N-pak ams	100	3 qt/a		D							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ABUTH	ERICA	VERAG	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Abutilon theop>	Conyza canadens>	Veronica agres>	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Canada horsewe>	Field speedwell	Giant foxtail
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11	7/8/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	204 41	204 41	204 41	204 41	204 41	241 29
Trt-Eval Interval	41 DA-C	41 DA-C	41 DA-C	41 DA-C	41 DA-C	29 DA-D
Plant-Eval Interval	18 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1	55 DP-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15	16
6	Authority MTZ	45	11 oz/a		B	40	20	87	60	98	82
6	Express	50	0.1 oz/a		B						
6	2,4-D Amine	4	0.5 qt/a		B						
6	Roundup Power Max	4.5	21.3 oz/a		B						
6	N-pak ams	100	3 qt/a		B						
6	Coc	100	0.6 qt/a		B						
6	Roundup Power Max	4.5	21.3 oz/a		D						
6	N-pak ams	100	3 qt/a		D						
7	Authority	4	5 oz/a		A	37	56	98	100	95	73
7	Classic	25	1.25 oz/a		A						
7	Express	50	0.1 oz/a		A						
7	2,4-D Amine	4	0.5 qt/a		A						
7	Roundup Power Max	4.5	21.3 oz/a		A						
7	N-pak ams	100	3 qt/a		A						
7	Coc	100	0.6 qt/a		A						
7	Sharpen	2.85	1 oz/a		C						
7	Roundup Power Max	4.5	21.3 oz/a		C						
7	N-pak ams	100	3 qt/a		C						
7	MSO	100	0.6 qt/a		C						
7	Roundup Power Max	4.5	21.3 oz/a		D						
7	N-pak ams	100	3 qt/a		D						
8	Authority	4	5 oz/a		B	58	48	98	95	60	65
8	Classic	25	1.25 oz/a		B						
8	Express	50	0.1 oz/a		B						
8	2,4-D Amine	4	0.5 qt/a		B						
8	Roundup Power Max	4.5	21.3 oz/a		B						
8	N-pak ams	100	3 qt/a		B						
8	Coc	100	0.6 qt/a		B						
8	Roundup Power Max	4.5	21.3 oz/a		D						
8	N-pak ams	100	3 qt/a		D						
9	Express	50	0.1 oz/a		A	30	50	42	92	100	80
9	Mon 63410	3	48 oz/a		A						
9	2,4-D Amine	4	0.5 qt/a		A						
9	Roundup Power Max	4.5	21.3 oz/a		A						
9	N-pak ams	100	3 qt/a		A						
9	Sharpen	2.85	1 oz/a		C						
9	Roundup Power Max	4.5	21.3 oz/a		C						
9	N-pak ams	100	3 qt/a		C						
9	MSO	100	0.6 qt/a		C						
9	Roundup Power Max	4.5	21.3 oz/a		D						
9	N-pak ams	100	3 qt/a		D						
10	Express	50	0.1 oz/a		B	20	23	47	72	73	70
10	Mon 63410	3	48 oz/a		B						
10	2,4-D Amine	4	0.5 qt/a		B						
10	Roundup Power Max	4.5	21.3 oz/a		B						
10	N-pak ams	100	3 qt/a		B						
10	Roundup Power Max	4.5	21.3 oz/a		D						
10	N-pak ams	100	3 qt/a		D						
11	Authority First	70	6.45 oz/a		A	17	68	93	100	100	70
11	Express	50	0.1 oz/a		A						
11	2,4-D Amine	4	0.5 qt/a		A						
11	Roundup Power Max	4.5	21.3 oz/a		A						
11	N-pak ams	100	3 qt/a		A						
11	Coc	100	0.6 qt/a		A						
11	Sharpen	2.85	1 oz/a		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ABUTH	ERICA	VERAG	SETFA
Pest Scientific Name	Setaria faberi	Ambrosia trifid	Abutilon theophrasti	Conyza canadensis	Veronica agrestis	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Canada horseweed	Field speedwell	Giant foxtail
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11	7/8/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	204 41	204 41	204 41	204 41	204 41	241 29
Trt-Eval Interval	41 DA-C	41 DA-C	41 DA-C	41 DA-C	41 DA-C	29 DA-D
Plant-Eval Interval	18 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1	55 DP-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Unit	Appl Code	11	12	13	14	15	16
11	Roundup Power Max	4.5	21.3	oz/a	C						
	11 N-pak ams	100	3	qt/a	C						
	11 MSO	100	0.6	qt/a	C						
11	Roundup Power Max	4.5	21.3	oz/a	D						
	11 N-pak ams	100	3	qt/a	D						
12	Authority First	70	6.45	oz/a	B	73	70	100	97	75	73
	12 Express	50	0.1	oz/a	B						
	12 2,4-D Amine	4	0.5	qt/a	B						
	12 Roundup Power Max	4.5	21.3	oz/a	B						
	12 N-pak ams	100	3	qt/a	B						
	12 Coc	100	0.6	qt/a	B						
	12 Roundup Power Max	4.5	21.3	oz/a	D						
	12 N-pak ams	100	3	qt/a	D						
13	Express	50	0.1	oz/a	A	43	62	70	100	100	75
	13 Gangster @ 2.4oz										
	13 Firstrate	84	0.4	oz/a	A						
	13 Valor SX	51	2	oz/a	A						
	13 2,4-D Amine	4	0.5	qt/a	A						
	13 Roundup Power Max	4.5	21.3	oz/a	A						
	13 N-pak ams	100	3	qt/a	A						
	13 Coc	100	0.6	qt/a	A						
	13 Sharpen	2.85	1	oz/a	C						
	13 Roundup Power Max	4.5	21.3	oz/a	C						
	13 N-pak ams	100	3	qt/a	C						
	13 MSO	100	0.6	qt/a	C						
	13 Roundup Power Max	4.5	21.3	oz/a	D						
	13 N-pak ams	100	3	qt/a	D						
14	Gangster @ 2.4oz					63	85	98	100	93	75
	14 Firstrate	84	0.4	oz/a	B						
	14 Valor SX	51	2	oz/a	B						
	14 Express	50	0.1	oz/a	B						
	14 2,4-D Amine	4	0.5	qt/a	B						
	14 Roundup Power Max	4.5	21.3	oz/a	B						
	14 N-pak ams	100	3	qt/a	B						
	14 Coc	100	0.6	qt/a	B						
	14 Roundup Power Max	4.5	21.3	oz/a	D						
	14 N-pak ams	100	3	qt/a	D						
LSD (P=.05)						24.7	24.4	38.4	26.5	27.1	16.3
Standard Deviation						14.7	14.5	22.9	15.8	16.1	9.7
CV						37.86	26.85	28.43	18.04	19.0	13.05
Bartlett's X2						13.792	9.499	25.983	14.868	18.884	10.91
P(Bartlett's X2)						0.389	0.66	0.007*	0.038*	0.015*	0.618
Replicate F						8.297	3.057	0.698	1.311	1.158	1.379
Replicate Prob(F)						0.0016	0.0657	0.5064	0.2867	0.3297	0.2695
Treatment F						7.164	6.214	2.381	3.867	4.594	0.636
Treatment Prob(F)						0.0001	0.0001	0.0290	0.0016	0.0005	0.8023

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Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	AMBEL
Pest Scientific Name	Conyza canadensis	Ambrosia trifida	Ambrosia artemisiifolia
Pest Name	Canada horseweed	Giant ragweed	Common ragweed
Rating Date	7/8/11	7/8/11	7/8/11
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	241 29	241 29	241 29
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code	17	18	19
1	2,4-D Amine	4	0.5 qt/a		B		85	80	97
1	Roundup Power Max	4.5	21.3 oz/a		B				
1	N-pak ams	100	3 qt/a		B				
1	Firstrate	84	0.3 oz/a		D				
1	Roundup Power Max	4.5	21.3 oz/a		D				
1	N-pak ams	100	3 qt/a		D				
2	Sharpen	2.85	1 oz/a		C		37	77	100
2	Roundup Power Max	4.5	21.3 oz/a		C				
2	N-pak ams	100	3 qt/a		C				
2	MSO	100	0.6 qt/a		C				
2	Roundup Power Max	4.5	21.3 oz/a		D				
2	N-pak ams	100	3 qt/a		D				
3	Valor XLT @ 3oz						77	80	100
3	Valor SX	51	1.76 oz/a		A				
3	Classic	25	1.24 oz/a		A				
3	Express	50	0.1 oz/a		A				
3	2,4-D Amine	4	0.5 qt/a		A				
3	Roundup Power Max	4.5	21.3 oz/a		A				
3	N-pak ams	100	3 qt/a		A				
3	Coc	100	0.6 qt/a		A				
3	Sharpen	2.85	1 oz/a		C				
3	Roundup Power Max	4.5	21.3 oz/a		C				
3	N-pak ams	100	3 qt/a		C				
3	MSO	100	0.6 qt/a		C				
3	Roundup Power Max	4.5	21.3 oz/a		D				
3	N-pak ams	100	3 qt/a		D				
4	Valor XLT @ 3oz						92	90	100
4	Valor SX	51	1.76 oz/a		B				
4	Classic	25	1.24 oz/a		B				
4	Express	50	0.1 oz/a		B				
4	2,4-D Amine	4	0.5 qt/a		B				
4	Roundup Power Max	4.5	21.3 oz/a		B				
4	N-pak ams	100	3 qt/a		B				
4	Coc	100	0.6 qt/a		B				
4	Roundup Power Max	4.5	21.3 oz/a		D				
4	N-pak ams	100	3 qt/a		D				
5	Authority MTZ	45	11 oz/a		A		40	72	93
5	Express	50	0.1 oz/a		A				
5	2,4-D Amine	4	0.5 qt/a		A				
5	Roundup Power Max	4.5	21.3 oz/a		A				
5	N-pak ams	100	3 qt/a		A				
5	Coc	100	0.6 qt/a		A				
5	Sharpen	2.85	1 oz/a		C				
5	Roundup Power Max	4.5	21.3 oz/a		C				
5	N-pak ams	100	3 qt/a		C				
5	MSO	100	0.6 qt/a		C				
5	Roundup Power Max	4.5	21.3 oz/a		D				
5	N-pak ams	100	3 qt/a		D				

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Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBTR	AMBEL
Pest Scientific Name	Conyza canadensis	Ambrosia trifida	Ambrosia artemisiifolia
Pest Name	Canada horseweed	Giant ragweed	Common ragweed
Rating Date	7/8/11	7/8/11	7/8/11
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	241 29	241 29	241 29
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	17	18	19
6	Authority MTZ	45	11 oz/a		B	37	82	100
6	Express	50	0.1 oz/a		B			
6	2,4-D Amine	4	0.5 qt/a		B			
6	Roundup Power Max	4.5	21.3 oz/a		B			
6	N-pak ams	100	3 qt/a		B			
6	Coc	100	0.6 qt/a		B			
6	Roundup Power Max	4.5	21.3 oz/a		D			
6	N-pak ams	100	3 qt/a		D			
7	Authority	4	5 oz/a		A	68	75	100
7	Classic	25	1.25 oz/a		A			
7	Express	50	0.1 oz/a		A			
7	2,4-D Amine	4	0.5 qt/a		A			
7	Roundup Power Max	4.5	21.3 oz/a		A			
7	N-pak ams	100	3 qt/a		A			
7	Coc	100	0.6 qt/a		A			
7	Sharpen	2.85	1 oz/a		C			
7	Roundup Power Max	4.5	21.3 oz/a		C			
7	N-pak ams	100	3 qt/a		C			
7	MSO	100	0.6 qt/a		C			
7	Roundup Power Max	4.5	21.3 oz/a		D			
7	N-pak ams	100	3 qt/a		D			
8	Authority	4	5 oz/a		B	93	81	93
8	Classic	25	1.25 oz/a		B			
8	Express	50	0.1 oz/a		B			
8	2,4-D Amine	4	0.5 qt/a		B			
8	Roundup Power Max	4.5	21.3 oz/a		B			
8	N-pak ams	100	3 qt/a		B			
8	Coc	100	0.6 qt/a		B			
8	Roundup Power Max	4.5	21.3 oz/a		D			
8	N-pak ams	100	3 qt/a		D			
9	Express	50	0.1 oz/a		A	45	93	95
9	Mon 63410	3	48 oz/a		A			
9	2,4-D Amine	4	0.5 qt/a		A			
9	Roundup Power Max	4.5	21.3 oz/a		A			
9	N-pak ams	100	3 qt/a		A			
9	Sharpen	2.85	1 oz/a		C			
9	Roundup Power Max	4.5	21.3 oz/a		C			
9	N-pak ams	100	3 qt/a		C			
9	MSO	100	0.6 qt/a		C			
9	Roundup Power Max	4.5	21.3 oz/a		D			
9	N-pak ams	100	3 qt/a		D			
10	Express	50	0.1 oz/a		B	50	87	93
10	Mon 63410	3	48 oz/a		B			
10	2,4-D Amine	4	0.5 qt/a		B			
10	Roundup Power Max	4.5	21.3 oz/a		B			
10	N-pak ams	100	3 qt/a		B			
10	Roundup Power Max	4.5	21.3 oz/a		D			
10	N-pak ams	100	3 qt/a		D			
11	Authority First	70	6.45 oz/a		A	63	82	100
11	Express	50	0.1 oz/a		A			
11	2,4-D Amine	4	0.5 qt/a		A			
11	Roundup Power Max	4.5	21.3 oz/a		A			
11	N-pak ams	100	3 qt/a		A			
11	Coc	100	0.6 qt/a		A			
11	Sharpen	2.85	1 oz/a		C			

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Pest Type	W Weed	W Weed	W Weed					
Pest Code	ERICA	AMBTR	AMBEL					
Pest Scientific Name	Conyza canadensis	Ambrosia trifida	Ambrosia artemisiifolia					
Pest Name	Canada horseweed	Giant ragweed	Common ragweed					
Rating Date	7/8/11	7/8/11	7/8/11					
Rating Type	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%					
Number of Subsamples	1	1	1					
Days After First/Last Applic.	241 29	241 29	241 29					
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D					
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1					
Number of Decimals	0	0	0					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Unit	Appl Code	17	18	19
11	Roundup Power Max	4.5	21.3	oz/a	C			
	11 N-pak ams	100	3	qt/a	C			
	11 MSO	100	0.6	qt/a	C			
11	Roundup Power Max	4.5	21.3	oz/a	D			
	11 N-pak ams	100	3	qt/a	D			
12	Authority First	70	6.45	oz/a	B	83	85	95
	12 Express	50	0.1	oz/a	B			
	12 2,4-D Amine	4	0.5	qt/a	B			
	12 Roundup Power Max	4.5	21.3	oz/a	B			
	12 N-pak ams	100	3	qt/a	B			
	12 Coc	100	0.6	qt/a	B			
	12 Roundup Power Max	4.5	21.3	oz/a	D			
	12 N-pak ams	100	3	qt/a	D			
13	Express	50	0.1	oz/a	A	53	83	95
	13 Gangster @ 2.4oz							
	13 Firstrate	84	0.4	oz/a	A			
	13 Valor SX	51	2	oz/a	A			
	13 2,4-D Amine	4	0.5	qt/a	A			
	13 Roundup Power Max	4.5	21.3	oz/a	A			
	13 N-pak ams	100	3	qt/a	A			
	13 Coc	100	0.6	qt/a	A			
	13 Sharpen	2.85	1	oz/a	C			
	13 Roundup Power Max	4.5	21.3	oz/a	C			
	13 N-pak ams	100	3	qt/a	C			
	13 MSO	100	0.6	qt/a	C			
	13 Roundup Power Max	4.5	21.3	oz/a	D			
	13 N-pak ams	100	3	qt/a	D			
14	Gangster @ 2.4oz					82	98	100
	14 Firstrate	84	0.4	oz/a	B			
	14 Valor SX	51	2	oz/a	B			
	14 Express	50	0.1	oz/a	B			
	14 2,4-D Amine	4	0.5	qt/a	B			
	14 Roundup Power Max	4.5	21.3	oz/a	B			
	14 N-pak ams	100	3	qt/a	B			
	14 Coc	100	0.6	qt/a	B			
	14 Roundup Power Max	4.5	21.3	oz/a	D			
	14 N-pak ams	100	3	qt/a	D			
LSD (P=.05)						16.7	16.0	11.8
Standard Deviation						10.0	9.6	7.0
CV						15.42	11.49	7.22
Bartlett's X2						8.819	11.78	1.173
P(Bartlett's X2)						0.786	0.546	0.978
Replicate F						0.665	1.456	0.135
Replicate Prob(F)						0.5230	0.2515	0.8743
Treatment F						13.158	1.684	0.563
Treatment Prob(F)						0.0001	0.1251	0.8604

Ohio State University Horticulture and Crop Science

FALL VS SPRING TREATMENTS OF RESIDUAL HERBICIDES FOR MARESTAIL CONTROL

Title No. 2:

Trial ID: 11FALLBURN2 Protocol ID: 11FALLBURN2
Location: Western Branch F-10W Study Director: Bryan Reeb
Project ID: 11FALLBURN2 Investigator: Dr. Mark M. Loux
Sponsor Contact: JOHN WILLIS

Pest Type

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

Pest Code

LAMPU, *Lamium purpureum*, = US
STEME, *Stellaria media*, = US
ERPSS, *Erophila* sp., = US
TAROF, *Taraxacum officinale*, = US
CARPE, *Cardamine pensylvanica*, = US
VERAG, *Veronica agrestis*, = US
SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
ABUTH, *Abutilon theophrasti*, = US
ERICA, *Conyza canadensis*, = US
AMBEL, *Ambrosia artemisiifolia*, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

-23 DP-1 = 1 5/14/11
2 DP-1 = 1 5/14/11
18 DP-1 = 1 5/14/11
55 DP-1 = 1 5/14/11

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FALL VS SPRING TREATMENTS OF RESIDUAL HERBICIDES FOR MARESTAIL CONTROL

Title No. 2:

Trial ID: 11FALLBURN2 Protocol ID: 11FALLBURN2
Location: Western Branch F-10W Study Director: Bryan Reeb
Project ID: 11FALLBURN2 Investigator: Dr. Mark M. Loux
Sponsor Contact: JOHN WILLIS

General Trial Information

Study Director: Bryan Reeb **Title:** Research Technician
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.85873 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67236 W
Postal Code: 45368
Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG 3631 **Description:** Round Up Ready
BBCH Scale: BSOY **Planting Date:** 5/14/11
Planting Method: PLANTD planted **Rate, Unit:** 197000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Seed Bed: MEDTRA medium/trashy
Soil Moisture: SLIWET slightly wet

Pest Description

- Pest 1 Type:** W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettel
- Pest 2 Type:** W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion
- Pest 3 Type:** W **Code:** STEME Stellaria media
Common Name: Common chickweed
- Pest 4 Type:** W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed
- Pest 5 Type:** W **Code:** ERPSS Erophila sp.
Common Name: Whitlowgrass
- Pest 6 Type:** W **Code:** ERYRE Erysimum repandum
Common Name: Bushy wallflower
- Pest 7 Type:** W **Code:** CAPBP Capsella bursa-pastoris
Common Name: Shepherd's purse
- Pest 8 Type:** W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
- Pest 9 Type:** W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed
- Pest10 Type:** W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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: G-7 West
% OM: 1.7 **Texture:** SIL silt loam
pH: 6.1 **Soil Name:** Crosby Silt Loam
CEC: 12.8 **Fert. Level:** G good
Soil Drainage: G good