

Ohio State University Horticulture and Crop Science

LL SOY MARESTAIL RESEARCH/DEMO STUDY

Title No. 2:
Trial ID: 10LLHOWE(WARS) Protocol ID: 10LLHOWE
Location: Western Branch G-7 Study Director: Bryan Reeb
Project ID: 10LLHOWE Investigator: Dr. Mark M. Loux
Sponsor Contact:

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.8582 N
State/Prov.: Ohio **Longitude of LL Corner °:** 83.67693 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1094.00 FT
Country: USA

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: S.C. 3330 LL **Description:** LIBERTY LINK
BBCH Scale: BSOY **Planting Date:** Apr-29-2010
Planting Method: SEEDED seeded **Rate, Unit:** 196000 S/A
Depth, Unit: 0.75 IN
Row Spacing, Unit: 15 IN
Seed Bed: NO-TIL
Soil Moisture: GOOD good **Emergence Date:** May-7-2010
Harvested Width, Unit: 6.25 FT **Harvested Length, Unit:** 30 FT

Pest Description

- Pest 1 Type:** W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel
- Pest 2 Type:** W **Code:** ERPSS *Erophila sp.*
Common Name: Whitlowgrass
- Pest 3 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 4 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel
- Pest 5 Type:** W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse
- Pest 6 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest 7 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 8 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 9 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common 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: G-7
% OM: 2 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Crosby Silt Loam
CEC: 14 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B	C
Application Date:	Nov-24-2009	Apr-21-2010	Jun-8-2010
Time of Day:	2:00 PM	9:00 AM	9:40 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	7 EPP	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	53 F	53 F	60 F
% Relative Humidity:	70	49	65
Wind Velocity, Unit:	3 MPH	3 MPH	5 MPH
Wind Direction:	SE	WSW	ESE
Dew Presence (Y/N):		N no	N no
Soil Temperature, Unit:	48 F	50 F	62 F
Soil Moisture:	GOOD	DRY	GOOD
% Cloud Cover:	100	2	10
Next Rain Occurred On:	Nov-26-2009	Apr-24-2010	Jun-8-2010

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:			BBCH
Stage Majority, Percent:			13 100
Height, Unit:			10 IN
Height Minimum, Maximum:			8 10

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SENGL W	SENGL W	SENGL W
Stage Majority, Percent:	19 100	19 100	
Diameter, Unit:	4 IN		
Height, Unit:	4 IN	8 IN	
Height Minimum, Maximum:	2 4	6 8	
Pest 2 Code, Type, Scale:	ERPSS W	ERPSS W	ERPSS W
Stage Majority, Percent:	18 100		
Height, Unit:	0.5 IN		
Height Minimum, Maximum:	0.25 0.5		
Pest 3 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Stage Majority, Percent:	15 100	19 100	19 100
Height, Unit:	0.25 IN	6 IN	5 IN
Height Minimum, Maximum:		4 6	1 5
Pest 4 Code, Type, Scale:	LAMPU W	LAMPU W	LAMPU W
Stage Majority, Percent:	16 100	65 100	
Diameter, Unit:	1 IN	4 IN	
Height, Unit:	2 IN	6 IN	
Height Minimum, Maximum:	1 2	4 6	
Pest 5 Code, Type, Scale:	CAPBP W	CAPBP W	CAPBP W
Stage Majority, Percent:	18 100		
Diameter, Unit:	2 IN		
Height, Unit:	2 IN		
Height Minimum, Maximum:	1 2		
Pest 6 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:		65 100	
Diameter, Unit:		10 IN	
Height, Unit:		3 IN	
Pest 7 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		12 100	16 100
Height, Unit:		1 IN	6 IN
Height Minimum, Maximum:		0.5 1	4 6
Pest 8 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:			18 100
Height, Unit:			4 IN
Height Minimum, Maximum:			2 4
Pest 9 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:			16 100
Height, Unit:			7 IN
Height Minimum, Maximum:			6 7

Application Equipment

	A	B	C
Appl. Equipment:	Backpack	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operating Pressure, Unit:	52 PSI	52 PSI	52 PSI
Nozzle Type:	DG	DG	DG
Nozzle Size:	8002	8002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6.67 FT	10 FT
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 gal/ac	20 gal/ac	20 gal/ac
Mix Size, Unit:	0.33 gallons	0.33 gallons	3 gallons
Propellant:	COMCO2	COMCO2	COMCO2

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERICA	SENGL
Pest Scientific Name	Lamium purpure>	Stellaria media	Conyza canadens>	Senecio glabel>
Pest Name	Purple deadnet>	Common chickwe>	Canada horsewe>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-29-2010	Apr-29-2010	Apr-29-2010	Apr-29-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	156 8	156 8	156 8	156 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B	8 DA-B
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-8 DE-	-8 DE-	-8 DE-	-8 DE-
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	1	2	3	4
1	Ignite	2.34	LBA/GAL	32	oz/a	B	75	73	62	75
	1 N-pak ams	100	%	2	qt/a	B				
1	Ignite	2.34	LBA/GAL	22	oz/a	C				
	1 N-pak ams	100	%	2	qt/a	C				
2	Ignite	2.34	LBA/GAL	32	oz/a	B	68	40	27	45
	2 Sencor 75DF	75	%AW/W	8	oz/a	B				
	2 N-pak ams	100	%	2	qt/a	B				
	2 Ignite	2.34	LBA/GAL	22	oz/a	C				
	2 N-pak ams	100	%	2	qt/a	C				
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	43	43	57	23
	3 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	3 N-pak ams	100	%	2	qt/a	B				
	3 Ignite	2.34	LBA/GAL	22	oz/a	C				
	3 N-pak ams	100	%	2	qt/a	C				
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	51	37	97	75
	4 Sharpen	2.85	LBA/GAL	1	oz/a	B				
	4 N-pak ams	100	%	2	qt/a	B				
	4 Ignite	2.34	LBA/GAL	22	oz/a	C				
	4 N-pak ams	100	%	2	qt/a	C				
5	Valor XLT @4oz					B	67	70	77	78
	5 Valor SX	51	%AW/W	2.35	oz/a	B				
	5 Classic	25	%AW/W	1.65	oz/a	B				
	5 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	5 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	5 N-pak ams	100	%	2	qt/a	B				
	5 Ignite	2.34	LBA/GAL	22	oz/a	C				
	5 N-pak ams	100	%	2	qt/a	C				
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	100	98	90	85
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	A				
	6 N-pak ams	100	%	2	qt/a	A				
	6 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	6 N-pak ams	100	%	2	qt/a	B				
	6 Ignite	2.34	LBA/GAL	22	oz/a	C				
	6 N-pak ams	100	%	2	qt/a	C				
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	96	100	100	100
	7 2,4-D Ester	4	LBA/GAL	1	pt/a	A				
	7 N-pak ams	100	%	2	qt/a	A				
	7 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	7 Sharpen	2.85	LBA/GAL	1	oz/a	B				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERICA	SENGL
Pest Scientific Name	Lamium purpure>	Stellaria media	Conyza canadens>	Senecio glabel>
Pest Name	Purple deadnet>	Common chickwe>	Canada horsewe>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-29-2010	Apr-29-2010	Apr-29-2010	Apr-29-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	156 8	156 8	156 8	156 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B	8 DA-B
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-8 DE-	-8 DE-	-8 DE-	-8 DE-
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	1	2	3	4
7	N-pak ams	100 %		2 qt/a		B				
7	Ignite	2.34 LBA/GAL		22 oz/a		C				
7	N-pak ams	100 %		2 qt/a		C				
8	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	100	98	100	100
8	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
8	N-pak ams	100 %		2 qt/a		A				
8	VALOR XLT @4oz					B				
8	Valor SX	51 %AW/W		2.35 oz/a		B				
8	Classic	25 %AW/W		1.65 oz/a		B				
8	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
8	2,4-D Ester	4 LBA/GAL		1 pt/a		B				
8	N-pak ams	100 %		2 qt/a		B				
8	Ignite	2.34 LBA/GAL		22 oz/a		C				
8	N-pak ams	100 %		2 qt/a		C				
9	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	98	98	97	100
9	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
9	N-pak ams	100 %		2 qt/a		A				
9	Ignite	2.34 LBA/GAL		32 oz/a		B				
9	N-pak ams	100 %		2 qt/a		B				
9	Ignite	2.34 LBA/GAL		22 oz/a		C				
9	N-pak ams	100 %		2 qt/a		C				
10	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	100	98	83	93
10	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
10	N-pak ams	100 %		2 qt/a		A				
10	Ignite	2.34 LBA/GAL		32 oz/a		B				
10	Sencor 75DF	75 %AW/W		8 oz/a		B				
10	N-pak ams	100 %		2 qt/a		B				
10	Ignite	2.34 LBA/GAL		22 oz/a		C				
10	N-pak ams	100 %		2 qt/a		C				
11	Canopy	75 %AW/W		4.5 oz/a		A	100	367	100	100
11	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
11	N-pak ams	100 %		2 qt/a		A				
11	Coc	100 %		0.8 qt/a		A				
11	Ignite	2.34 LBA/GAL		22 oz/a		C				
11	N-pak ams	100 %		2 qt/a		C				
12	Canopy	75 %AW/W		2.25 oz/a		A	93	88	100	100
12	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
12	N-pak ams	100 %		2 qt/a		A				
12	Coc	100 %		0.8 qt/a		A				
12	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
12	2,4-D Ester	4 LBA/GAL		1 pt/a		B				
12	N-pak ams	100 %		2 qt/a		B				
12	Ignite	2.34 LBA/GAL		22 oz/a		C				
12	N-pak ams	100 %		2 qt/a		C				
13	Canopy	75 %AW/W		2.25 oz/a		A	95	83	100	100
13	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
13	N-pak ams	100 %		2 qt/a		A				
13	Coc	100 %		0.8 qt/a		A				
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
13	Sharpen	2.85 LBA/GAL		1 oz/a		B				
13	N-pak ams	100 %		2 qt/a		B				
13	Ignite	2.34 LBA/GAL		22 oz/a		C				
13	N-pak ams	100 %		2 qt/a		C				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERICA	SENGL
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Pest Name	Purple deadnet>	Common chickwe>	Canada horsewe>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-12-2010	May-12-2010	May-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	169 21	169 21	169 21
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	5	6	7	8
1	Ignite	2.34	LBA/GAL	32	oz/a	B	100	100	100	95
	1 N-pak ams	100	%	2	qt/a	B				
1	Ignite	2.34	LBA/GAL	22	oz/a	C				
	1 N-pak ams	100	%	2	qt/a	C				
2	Ignite	2.34	LBA/GAL	32	oz/a	B	100	100	100	100
	2 Sencor 75DF	75	%AW/W	8	oz/a	B				
	2 N-pak ams	100	%	2	qt/a	B				
	2 Ignite	2.34	LBA/GAL	22	oz/a	C				
	2 N-pak ams	100	%	2	qt/a	C				
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	100	100	100	100
	3 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	3 N-pak ams	100	%	2	qt/a	B				
	3 Ignite	2.34	LBA/GAL	22	oz/a	C				
	3 N-pak ams	100	%	2	qt/a	C				
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	100	100	100	100
	4 Sharpen	2.85	LBA/GAL	1	oz/a	B				
	4 N-pak ams	100	%	2	qt/a	B				
	4 Ignite	2.34	LBA/GAL	22	oz/a	C				
	4 N-pak ams	100	%	2	qt/a	C				
5	Valor XLT @4oz					B	100	100	98	100
	5 Valor SX	51	%AW/W	2.35	oz/a	B				
	5 Classic	25	%AW/W	1.65	oz/a	B				
	5 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	5 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	5 N-pak ams	100	%	2	qt/a	B				
	5 Ignite	2.34	LBA/GAL	22	oz/a	C				
	5 N-pak ams	100	%	2	qt/a	C				
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	100	100	98	100
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	A				
	6 N-pak ams	100	%	2	qt/a	A				
	6 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	6 N-pak ams	100	%	2	qt/a	B				
	6 Ignite	2.34	LBA/GAL	22	oz/a	C				
	6 N-pak ams	100	%	2	qt/a	C				
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	100	100	100	99
	7 2,4-D Ester	4	LBA/GAL	1	pt/a	A				
	7 N-pak ams	100	%	2	qt/a	A				
	7 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	7 Sharpen	2.85	LBA/GAL	1	oz/a	B				

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Pest Name	Purple deadnet>	Common chickwe>	Canada horsewe>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-12-2010	May-12-2010	May-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	169 21	169 21	169 21
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	
				5
				6
				7
				8
7 N-pak ams	100 %	2 qt/a	B	
7 Ignite	2.34 LBA/GAL	22 oz/a	C	
7 N-pak ams	100 %	2 qt/a	C	
8 Roundup Power Max	4.5 LBAE/GAL	11 oz/a	A	100
8 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
8 N-pak ams	100 %	2 qt/a	A	
8 VALOR XLT @4oz			B	
8 Valor SX	51 %AW/W	2.35 oz/a	B	
8 Classic	25 %AW/W	1.65 oz/a	B	
8 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
8 2,4-D Ester	4 LBA/GAL	1 pt/a	B	
8 N-pak ams	100 %	2 qt/a	B	
8 Ignite	2.34 LBA/GAL	22 oz/a	C	
8 N-pak ams	100 %	2 qt/a	C	
9 Roundup Power Max	4.5 LBAE/GAL	11 oz/a	A	100
9 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
9 N-pak ams	100 %	2 qt/a	A	
9 Ignite	2.34 LBA/GAL	32 oz/a	B	
9 N-pak ams	100 %	2 qt/a	B	
9 Ignite	2.34 LBA/GAL	22 oz/a	C	
9 N-pak ams	100 %	2 qt/a	C	
10 Roundup Power Max	4.5 LBAE/GAL	11 oz/a	A	100
10 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
10 N-pak ams	100 %	2 qt/a	A	
10 Ignite	2.34 LBA/GAL	32 oz/a	B	
10 Sencor 75DF	75 %AW/W	8 oz/a	B	
10 N-pak ams	100 %	2 qt/a	B	
10 Ignite	2.34 LBA/GAL	22 oz/a	C	
10 N-pak ams	100 %	2 qt/a	C	
11 Canopy	75 %AW/W	4.5 oz/a	A	100
11 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
11 N-pak ams	100 %	2 qt/a	A	
11 Coc	100 %	0.8 qt/a	A	
11 Ignite	2.34 LBA/GAL	22 oz/a	C	
11 N-pak ams	100 %	2 qt/a	C	
12 Canopy	75 %AW/W	2.25 oz/a	A	100
12 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
12 N-pak ams	100 %	2 qt/a	A	
12 Coc	100 %	0.8 qt/a	A	
12 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
12 2,4-D Ester	4 LBA/GAL	1 pt/a	B	
12 N-pak ams	100 %	2 qt/a	B	
12 Ignite	2.34 LBA/GAL	22 oz/a	C	
12 N-pak ams	100 %	2 qt/a	C	
13 Canopy	75 %AW/W	2.25 oz/a	A	100
13 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
13 N-pak ams	100 %	2 qt/a	A	
13 Coc	100 %	0.8 qt/a	A	
13 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
13 Sharpen	2.85 LBA/GAL	1 oz/a	B	
13 N-pak ams	100 %	2 qt/a	B	
13 Ignite	2.34 LBA/GAL	22 oz/a	C	
13 N-pak ams	100 %	2 qt/a	C	

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERICA	SENGL
Pest Scientific Name	Lamium purpure>	Stellaria media	Conyza canadens>	Senecio glabel>
Pest Name	Purple deadnet>	Common chickwe>	Canada horsewe>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-12-2010	May-12-2010	May-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	169 21	169 21	169 21
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	5 6 7 8
14 Canopy	75 %AW/W	2.25 oz/a	A	100 100 100 100
14 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
14 N-pak ams	100 %	2 qt/a	A	
14 Coc	100 %	0.8 qt/a	A	
14 Gramoxone Inteon	2 LBA/GAL	40 oz/a	B	
14 Sencor 75DF	75 %AW/W	8 oz/a	B	
14 N-pak ams	100 %	2 qt/a	B	
14 Ignite	2.34 LBA/GAL	22 oz/a	C	
14 N-pak ams	100 %	2 qt/a	C	
15 Canopy	75 %AW/W	2.25 oz/a	A	100 100 100 100
15 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
15 N-pak ams	100 %	2 qt/a	A	
15 Coc	100 %	0.8 qt/a	A	
15 Valor XLT @4oz			B	
15 Valor SX	51 %AW/W	2.35 oz/a	B	
15 Classic	25 %AW/W	1.65 oz/a	B	
15 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
15 2,4-D Ester	4 LBA/GAL	1 pt/a	B	
15 N-pak ams	100 %	2 qt/a	B	
15 Ignite	2.34 LBA/GAL	22 oz/a	C	
15 N-pak ams	100 %	2 qt/a	C	
16 Canopy	75 %AW/W	2.25 oz/a	A	100 100 100 100
16 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
16 N-pak ams	100 %	2 qt/a	A	
16 Coc	100 %	0.8 qt/a	A	
16 Valor XLT @2oz			B	
16 Valor SX	51 %AW/W	1.17 oz/a	B	
16 Classic	25 %AW/W	0.83 oz/a	B	
16 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
16 2,4-D Ester	4 LBA/GAL	1 pt/a	B	
16 N-pak ams	100 %	2 qt/a	B	
16 Ignite	2.34 LBA/GAL	22 oz/a	C	
16 N-pak ams	100 %	2 qt/a	C	
17 Canopy	75 %AW/W	2.25 oz/a	A	100 100 100 100
17 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
17 N-pak ams	100 %	2 qt/a	A	
17 Coc	100 %	0.8 qt/a	A	
17 Ignite	2.34 LBA/GAL	32 oz/a	B	
17 N-pak ams	100 %	2 qt/a	B	
17 Ignite	2.34 LBA/GAL	22 oz/a	C	
17 N-pak ams	100 %	2 qt/a	C	
18 Canopy	75 %AW/W	2.25 oz/a	A	0 0 73 0
18 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
18 N-pak ams	100 %	2 qt/a	A	
18 Coc	100 %	0.8 qt/a	A	
18 Ignite	2.34 LBA/GAL	32 oz/a	B	
18 Sencor 75DF	75 %AW/W	8 oz/a	B	
18 N-pak ams	100 %	2 qt/a	B	
18 Ignite	2.34 LBA/GAL	22 oz/a	C	
18 N-pak ams	100 %	2 qt/a	C	
LSD (P=.05)				0.0 0.0 10.4 5.7
Standard Deviation				0.0 0.0 6.3 3.4
CV				0.0 0.0 6.44 3.62

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	ERICA	SENGL
Pest Scientific Name	Lamium purpure>	Stellaria media	Conyza canadens>	Senecio glabell>
Pest Name	Purple deadnet>	Common chickwe>	Canada horsewe>	Cressleaf grou>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-12-2010	May-12-2010	May-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	169 21	169 21	169 21
Trt-Eval Interval	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Form Form Conc Unit	Other Other Rate Rate Unit Code	Appl Unit Code	
Bartlett's X2				
P(Bartlett's X2)				
Replicate F				
Replicate Prob(F)				
Treatment F				
Treatment Prob(F)				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	LAMPU	STEME	ERICA
Pest Scientific Name	Taraxacum offi>	Lamium purpure>	Stellaria media	Conyza canaden>
Pest Name	Common dandeli>	Purple deadnet>	Common chickwe>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-25-2010	May-25-2010	May-25-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	182 34	182 34	182 34
Trt-Eval Interval	21 DA-B	34 DA-B	34 DA-B	34 DA-B
Plant-Eval Interval	13 DP-1	26 DP-1	26 DP-1	26 DP-1
Days After Emergence	5 DE-1	18 DE-	18 DE-	18 DE-
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	9	10	11	12
1	Ignite	2.34	LBA/GAL	32	oz/a	B	98	100	100	33
	1 N-pak ams	100	%	2	qt/a	B				
1	Ignite	2.34	LBA/GAL	22	oz/a	C				
	1 N-pak ams	100	%	2	qt/a	C				
2	Ignite	2.34	LBA/GAL	32	oz/a	B	98	100	100	100
	2 Sencor 75DF	75	%AW/W	8	oz/a	B				
	2 N-pak ams	100	%	2	qt/a	B				
	2 Ignite	2.34	LBA/GAL	22	oz/a	C				
	2 N-pak ams	100	%	2	qt/a	C				
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	87	100	100	67
	3 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	3 N-pak ams	100	%	2	qt/a	B				
	3 Ignite	2.34	LBA/GAL	22	oz/a	C				
	3 N-pak ams	100	%	2	qt/a	C				
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	99	99	100	65
	4 Sharpen	2.85	LBA/GAL	1	oz/a	B				
	4 N-pak ams	100	%	2	qt/a	B				
	4 Ignite	2.34	LBA/GAL	22	oz/a	C				
	4 N-pak ams	100	%	2	qt/a	C				
5	Valor XLT @4oz					B	100	100	100	83
	5 Valor SX	51	%AW/W	2.35	oz/a	B				
	5 Classic	25	%AW/W	1.65	oz/a	B				
	5 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	5 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	5 N-pak ams	100	%	2	qt/a	B				
	5 Ignite	2.34	LBA/GAL	22	oz/a	C				
	5 N-pak ams	100	%	2	qt/a	C				
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	99	100	100	68
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	A				
	6 N-pak ams	100	%	2	qt/a	A				
	6 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	B				
	6 N-pak ams	100	%	2	qt/a	B				
	6 Ignite	2.34	LBA/GAL	22	oz/a	C				
	6 N-pak ams	100	%	2	qt/a	C				
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	93	100	87	98
	7 2,4-D Ester	4	LBA/GAL	1	pt/a	A				
	7 N-pak ams	100	%	2	qt/a	A				
	7 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
	7 Sharpen	2.85	LBA/GAL	1	oz/a	B				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	LAMPU	STEME	ERICA
Pest Scientific Name	Taraxacum offi>	Lamium purpure>	Stellaria media	Conyza canadens>
Pest Name	Common dandeli>	Purple deadnet>	Common chickwe>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-25-2010	May-25-2010	May-25-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	182 34	182 34	182 34
Trt-Eval Interval	21 DA-B	34 DA-B	34 DA-B	34 DA-B
Plant-Eval Interval	13 DP-1	26 DP-1	26 DP-1	26 DP-1
Days After Emergence	5 DE-1	18 DE-	18 DE-	18 DE-
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	9	10	11	12
7	N-pak ams	100 %		2 qt/a		B				
7	Ignite	2.34 LBA/GAL		22 oz/a		C				
7	N-pak ams	100 %		2 qt/a		C				
8	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	99	100	100	100
8	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
8	N-pak ams	100 %		2 qt/a		A				
8	VALOR XLT @4oz					B				
8	Valor SX	51 %AW/W		2.35 oz/a		B				
8	Classic	25 %AW/W		1.65 oz/a		B				
8	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
8	2,4-D Ester	4 LBA/GAL		1 pt/a		B				
8	N-pak ams	100 %		2 qt/a		B				
8	Ignite	2.34 LBA/GAL		22 oz/a		C				
8	N-pak ams	100 %		2 qt/a		C				
9	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	99	100	100	23
9	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
9	N-pak ams	100 %		2 qt/a		A				
9	Ignite	2.34 LBA/GAL		32 oz/a		B				
9	N-pak ams	100 %		2 qt/a		B				
9	Ignite	2.34 LBA/GAL		22 oz/a		C				
9	N-pak ams	100 %		2 qt/a		C				
10	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	93	100	100	98
10	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
10	N-pak ams	100 %		2 qt/a		A				
10	Ignite	2.34 LBA/GAL		32 oz/a		B				
10	Sencor 75DF	75 %AW/W		8 oz/a		B				
10	N-pak ams	100 %		2 qt/a		B				
10	Ignite	2.34 LBA/GAL		22 oz/a		C				
10	N-pak ams	100 %		2 qt/a		C				
11	Canopy	75 %AW/W		4.5 oz/a		A	100	100	100	47
11	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
11	N-pak ams	100 %		2 qt/a		A				
11	Coc	100 %		0.8 qt/a		A				
11	Ignite	2.34 LBA/GAL		22 oz/a		C				
11	N-pak ams	100 %		2 qt/a		C				
12	Canopy	75 %AW/W		2.25 oz/a		A	100	100	100	97
12	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
12	N-pak ams	100 %		2 qt/a		A				
12	Coc	100 %		0.8 qt/a		A				
12	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
12	2,4-D Ester	4 LBA/GAL		1 pt/a		B				
12	N-pak ams	100 %		2 qt/a		B				
12	Ignite	2.34 LBA/GAL		22 oz/a		C				
12	N-pak ams	100 %		2 qt/a		C				
13	Canopy	75 %AW/W		2.25 oz/a		A	95	100	100	100
13	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
13	N-pak ams	100 %		2 qt/a		A				
13	Coc	100 %		0.8 qt/a		A				
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
13	Sharpen	2.85 LBA/GAL		1 oz/a		B				
13	N-pak ams	100 %		2 qt/a		B				
13	Ignite	2.34 LBA/GAL		22 oz/a		C				
13	N-pak ams	100 %		2 qt/a		C				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	LAMPU	STEME	ERICA
Pest Scientific Name	Taraxacum offi>	Lamium purpure>	Stellaria media	Conyza canadens>
Pest Name	Common dandel>	Purple deadnet>	Common chickwe>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-25-2010	May-25-2010	May-25-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	182 34	182 34	182 34
Trt-Eval Interval	21 DA-B	34 DA-B	34 DA-B	34 DA-B
Plant-Eval Interval	13 DP-1	26 DP-1	26 DP-1	26 DP-1
Days After Emergence	5 DE-1	18 DE-	18 DE-	18 DE-
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	9 10 11 12
14 Canopy	75 %AW/W	2.25 oz/a	A	73 100 93 100
14 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
14 N-pak ams	100 %	2 qt/a	A	
14 Coc	100 %	0.8 qt/a	A	
14 Gramoxone Inteon	2 LBA/GAL	40 oz/a	B	
14 Sencor 75DF	75 %AW/W	8 oz/a	B	
14 N-pak ams	100 %	2 qt/a	B	
14 Ignite	2.34 LBA/GAL	22 oz/a	C	
14 N-pak ams	100 %	2 qt/a	C	
15 Canopy	75 %AW/W	2.25 oz/a	A	100 100 100 98
15 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
15 N-pak ams	100 %	2 qt/a	A	
15 Coc	100 %	0.8 qt/a	A	
15 Valor XLT @4oz			B	
15 Valor SX	51 %AW/W	2.35 oz/a	B	
15 Classic	25 %AW/W	1.65 oz/a	B	
15 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
15 2,4-D Ester	4 LBA/GAL	1 pt/a	B	
15 N-pak ams	100 %	2 qt/a	B	
15 Ignite	2.34 LBA/GAL	22 oz/a	C	
15 N-pak ams	100 %	2 qt/a	C	
16 Canopy	75 %AW/W	2.25 oz/a	A	100 100 100 100
16 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
16 N-pak ams	100 %	2 qt/a	A	
16 Coc	100 %	0.8 qt/a	A	
16 Valor XLT @2oz			B	
16 Valor SX	51 %AW/W	1.17 oz/a	B	
16 Classic	25 %AW/W	0.83 oz/a	B	
16 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B	
16 2,4-D Ester	4 LBA/GAL	1 pt/a	B	
16 N-pak ams	100 %	2 qt/a	B	
16 Ignite	2.34 LBA/GAL	22 oz/a	C	
16 N-pak ams	100 %	2 qt/a	C	
17 Canopy	75 %AW/W	2.25 oz/a	A	93 100 100 90
17 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
17 N-pak ams	100 %	2 qt/a	A	
17 Coc	100 %	0.8 qt/a	A	
17 Ignite	2.34 LBA/GAL	32 oz/a	B	
17 N-pak ams	100 %	2 qt/a	B	
17 Ignite	2.34 LBA/GAL	22 oz/a	C	
17 N-pak ams	100 %	2 qt/a	C	
18 Canopy	75 %AW/W	2.25 oz/a	A	33 0 17
18 2,4-D Ester	4 LBA/GAL	1 pt/a	A	
18 N-pak ams	100 %	2 qt/a	A	
18 Coc	100 %	0.8 qt/a	A	
18 Ignite	2.34 LBA/GAL	32 oz/a	B	
18 Sencor 75DF	75 %AW/W	8 oz/a	B	
18 N-pak ams	100 %	2 qt/a	B	
18 Ignite	2.34 LBA/GAL	22 oz/a	C	
18 N-pak ams	100 %	2 qt/a	C	
LSD (P=.05)				17.0 23.4 6.9 25.2
Standard Deviation				10.1 14.0 4.1 15.1
CV				10.57 14.57 4.43 19.62

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	LAMPU	STEME	ERICA
Pest Scientific Name	Taraxacum offi>	Lamium purpure>	Stellaria media	Conyza canadens>
Pest Name	Common dandelion>	Purple deadnettle>	Common chickweed>	Canada horseweed>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	May-12-2010	May-25-2010	May-25-2010	May-25-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Sample Size, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	169 21	182 34	182 34	182 34
Trt-Eval Interval	21 DA-B	34 DA-B	34 DA-B	34 DA-B
Plant-Eval Interval	13 DP-1	26 DP-1	26 DP-1	26 DP-1
Days After Emergence	5 DE-1	18 DE-	18 DE-	18 DE-
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt No.				
Treatment Name	Form Conc	Form Conc	Other Rate	Other Rate
	Unit	Unit	Unit	Unit
			Appl Unit	Code
			9	10
			11	12
Bartlett's X2			16.355	0.0
P(Bartlett's X2)			0.038*	.
				0.253
				0.615
				22.938
				0.028*
Replicate F			0.920	0.972
Replicate Prob(F)			0.4113	0.3892
Treatment F			1.362	3.762
Treatment Prob(F)			0.2353	0.0006
				0.996
				0.3804
				97.364
				11.046
				0.0001
				0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	SENGL	TAROF	AMBTR	SETFA	
Pest Scientific Name	Senecio glabel>	Taraxacum offi>	Ambrosia trifi>	Setaria faberi	
Pest Name	Cressleaf grou>	Common dandeli>	Giant ragweed	Giant foxtail	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-25-2010	May-25-2010	May-25-2010	May-25-2010	Jun-8-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	182 34	182 34	182 34	182 34	196 48
Trt-Eval Interval	34 DA-B	34 DA-B	34 DA-B	34 DA-B	0 DA-C
Plant-Eval Interval	26 DP-1	26 DP-1	26 DP-1	26 DP-1	40 DP-1
Days After Emergence	18 DE-	18 DE-	18 DE-	18 DE-	32 DE-
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	13	14	15	16	17
1	Ignite	2.34	LBA/GAL	32	oz/a	B	100	64	72	17	0
	1 N-pak ams	100	%	2	qt/a	B					
1	Ignite	2.34	LBA/GAL	22	oz/a	C					
	1 N-pak ams	100	%	2	qt/a	C					
2	Ignite	2.34	LBA/GAL	32	oz/a	B	100	95	77	20	0
	2 Sencor 75DF	75	%AW/W	8	oz/a	B					
	2 N-pak ams	100	%	2	qt/a	B					
	2 Ignite	2.34	LBA/GAL	22	oz/a	C					
	2 N-pak ams	100	%	2	qt/a	C					
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	100	79	78	65	2
	3 2,4-D Ester	4	LBA/GAL	1	pt/a	B					
	3 N-pak ams	100	%	2	qt/a	B					
	3 Ignite	2.34	LBA/GAL	22	oz/a	C					
	3 N-pak ams	100	%	2	qt/a	C					
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	100		90	41	4
	4 Sharpen	2.85	LBA/GAL	1	oz/a	B					
	4 N-pak ams	100	%	2	qt/a	B					
	4 Ignite	2.34	LBA/GAL	22	oz/a	C					
	4 N-pak ams	100	%	2	qt/a	C					
5	Valor XLT @4oz					B	100	100	95	98	5
	5 Valor SX	51	%AW/W	2.35	oz/a	B					
	5 Classic	25	%AW/W	1.65	oz/a	B					
	5 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B					
	5 2,4-D Ester	4	LBA/GAL	1	pt/a	B					
	5 N-pak ams	100	%	2	qt/a	B					
	5 Ignite	2.34	LBA/GAL	22	oz/a	C					
	5 N-pak ams	100	%	2	qt/a	C					
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	100	86	68	7	1
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	A					
	6 N-pak ams	100	%	2	qt/a	A					
	6 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B					
	6 2,4-D Ester	4	LBA/GAL	1	pt/a	B					
	6 N-pak ams	100	%	2	qt/a	B					
	6 Ignite	2.34	LBA/GAL	22	oz/a	C					
	6 N-pak ams	100	%	2	qt/a	C					
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	100	93	94	15	3
	7 2,4-D Ester	4	LBA/GAL	1	pt/a	A					
	7 N-pak ams	100	%	2	qt/a	A					
	7 Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B					
	7 Sharpen	2.85	LBA/GAL	1	oz/a	B					

Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	SENGL	TAROF	AMBTR	SETFA								
Pest Scientific Name	Senecio glabel>	Taraxacum offi>	Ambrosia trifi>	Setaria faberi								
Pest Name	Cressleaf grou>	Common dandel>	Giant ragweed	Giant foxtail								
Crop Code					GLXMA							
BBCH Scale					BSOY							
Crop Scientific Name					Glycine max							
Crop Name					Soybean							
Rating Date	May-25-2010	May-25-2010	May-25-2010	May-25-2010	Jun-8-2010							
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN							
Rating Unit	%	%	%	%	%							
Sample Size, Unit												
Number of Subsamples	1	1	1	1	1							
Days After First/Last Applic.	182 34	182 34	182 34	182 34	196 48							
Trt-Eval Interval	34 DA-B	34 DA-B	34 DA-B	34 DA-B	0 DA-C							
Plant-Eval Interval	26 DP-1	26 DP-1	26 DP-1	26 DP-1	40 DP-1							
Days After Emergence	18 DE-	18 DE-	18 DE-	18 DE-	32 DE-							
ARM Action Codes												
Number of Decimals	0	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit	Code	13	14	15	16	17
7	N-pak ams	100 %		2 qt/a		B						
7	Ignite	2.34 LBA/GAL		22 oz/a		C						
7	N-pak ams	100 %		2 qt/a		C						
8	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	100	100	90	100		3
8	2,4-D Ester	4 LBA/GAL		1 pt/a		A						
8	N-pak ams	100 %		2 qt/a		A						
8	VALOR XLT @4oz					B						
8	Valor SX	51 %AW/W		2.35 oz/a		B						
8	Classic	25 %AW/W		1.65 oz/a		B						
8	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B						
8	2,4-D Ester	4 LBA/GAL		1 pt/a		B						
8	N-pak ams	100 %		2 qt/a		B						
8	Ignite	2.34 LBA/GAL		22 oz/a		C						
8	N-pak ams	100 %		2 qt/a		C						
9	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	100	100	93	23		0
9	2,4-D Ester	4 LBA/GAL		1 pt/a		A						
9	N-pak ams	100 %		2 qt/a		A						
9	Ignite	2.34 LBA/GAL		32 oz/a		B						
9	N-pak ams	100 %		2 qt/a		B						
9	Ignite	2.34 LBA/GAL		22 oz/a		C						
9	N-pak ams	100 %		2 qt/a		C						
10	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	100	93	52	35		0
10	2,4-D Ester	4 LBA/GAL		1 pt/a		A						
10	N-pak ams	100 %		2 qt/a		A						
10	Ignite	2.34 LBA/GAL		32 oz/a		B						
10	Sencor 75DF	75 %AW/W		8 oz/a		B						
10	N-pak ams	100 %		2 qt/a		B						
10	Ignite	2.34 LBA/GAL		22 oz/a		C						
10	N-pak ams	100 %		2 qt/a		C						
11	Canopy	75 %AW/W		4.5 oz/a		A	100	100	13	33		2
11	2,4-D Ester	4 LBA/GAL		1 pt/a		A						
11	N-pak ams	100 %		2 qt/a		A						
11	Coc	100 %		0.8 qt/a		A						
11	Ignite	2.34 LBA/GAL		22 oz/a		C						
11	N-pak ams	100 %		2 qt/a		C						
12	Canopy	75 %AW/W		2.25 oz/a		A	100	95	82	40		2
12	2,4-D Ester	4 LBA/GAL		1 pt/a		A						
12	N-pak ams	100 %		2 qt/a		A						
12	Coc	100 %		0.8 qt/a		A						
12	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B						
12	2,4-D Ester	4 LBA/GAL		1 pt/a		B						
12	N-pak ams	100 %		2 qt/a		B						
12	Ignite	2.34 LBA/GAL		22 oz/a		C						
12	N-pak ams	100 %		2 qt/a		C						
13	Canopy	75 %AW/W		2.25 oz/a		A	100	55	85	50		3
13	2,4-D Ester	4 LBA/GAL		1 pt/a		A						
13	N-pak ams	100 %		2 qt/a		A						
13	Coc	100 %		0.8 qt/a		A						
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B						
13	Sharpen	2.85 LBA/GAL		1 oz/a		B						
13	N-pak ams	100 %		2 qt/a		B						
13	Ignite	2.34 LBA/GAL		22 oz/a		C						
13	N-pak ams	100 %		2 qt/a		C						

Pest Type	W Weed	W Weed	W Weed	W Weed	GLXMA			
Pest Code	SENGL	TAROF	AMBTR	SETFA	BSOY			
Pest Scientific Name	Senecio label>	Taraxacum offi>	Ambrosia trifi>	Setaria faberi	Glycine max			
Pest Name	Cressleaf grou>	Common dandel>	Giant ragweed	Giant foxtail	Soybean			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	May-25-2010	May-25-2010	May-25-2010	May-25-2010	Jun-8-2010			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN			
Rating Unit	%	%	%	%	%			
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	182 34	182 34	182 34	182 34	196 48			
Trt-Eval Interval	34 DA-B	34 DA-B	34 DA-B	34 DA-B	0 DA-C			
Plant-Eval Interval	26 DP-1	26 DP-1	26 DP-1	26 DP-1	40 DP-1			
Days After Emergence	18 DE-	18 DE-	18 DE-	18 DE-	32 DE-			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment	Form Form	Other Other	Appl					
No. Name	Conc Unit	Rate Rate	Unit Code	13	14	15	16	17
14 Canopy	75 %AW/W	2.25 oz/a	A	100	43	75	58	1
14 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
14 N-pak ams	100 %	2 qt/a	A					
14 Coc	100 %	0.8 qt/a	A					
14 Gramoxone Inteon	2 LBA/GAL	40 oz/a	B					
14 Sencor 75DF	75 %AW/W	8 oz/a	B					
14 N-pak ams	100 %	2 qt/a	B					
14 Ignite	2.34 LBA/GAL	22 oz/a	C					
14 N-pak ams	100 %	2 qt/a	C					
15 Canopy	75 %AW/W	2.25 oz/a	A	100	100	93	98	5
15 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
15 N-pak ams	100 %	2 qt/a	A					
15 Coc	100 %	0.8 qt/a	A					
15 Valor XLT @4oz			B					
15 Valor SX	51 %AW/W	2.35 oz/a	B					
15 Classic	25 %AW/W	1.65 oz/a	B					
15 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B					
15 2,4-D Ester	4 LBA/GAL	1 pt/a	B					
15 N-pak ams	100 %	2 qt/a	B					
15 Ignite	2.34 LBA/GAL	22 oz/a	C					
15 N-pak ams	100 %	2 qt/a	C					
16 Canopy	75 %AW/W	2.25 oz/a	A	100	100	88	97	3
16 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
16 N-pak ams	100 %	2 qt/a	A					
16 Coc	100 %	0.8 qt/a	A					
16 Valor XLT @2oz			B					
16 Valor SX	51 %AW/W	1.17 oz/a	B					
16 Classic	25 %AW/W	0.83 oz/a	B					
16 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B					
16 2,4-D Ester	4 LBA/GAL	1 pt/a	B					
16 N-pak ams	100 %	2 qt/a	B					
16 Ignite	2.34 LBA/GAL	22 oz/a	C					
16 N-pak ams	100 %	2 qt/a	C					
17 Canopy	75 %AW/W	2.25 oz/a	A	100	86	60	23	0
17 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
17 N-pak ams	100 %	2 qt/a	A					
17 Coc	100 %	0.8 qt/a	A					
17 Ignite	2.34 LBA/GAL	32 oz/a	B					
17 N-pak ams	100 %	2 qt/a	B					
17 Ignite	2.34 LBA/GAL	22 oz/a	C					
17 N-pak ams	100 %	2 qt/a	C					
18 Canopy	75 %AW/W	2.25 oz/a	A	0	6	0	0	0
18 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
18 N-pak ams	100 %	2 qt/a	A					
18 Coc	100 %	0.8 qt/a	A					
18 Ignite	2.34 LBA/GAL	32 oz/a	B					
18 Sencor 75DF	75 %AW/W	8 oz/a	B					
18 N-pak ams	100 %	2 qt/a	B					
18 Ignite	2.34 LBA/GAL	22 oz/a	C					
18 N-pak ams	100 %	2 qt/a	C					
LSD (P=.05)				0.0	36.9	20.2	33.1	3.4
Standard Deviation				0.0	21.7	12.1	19.9	2.1
CV				0.0	26.38	16.73	43.55	116.72

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	SENGL	TAROF	AMBTR	SETFA	
Pest Scientific Name	Senecio glabel>	Taraxacum offi>	Ambrosia trifi>	Setaria faberi	
Pest Name	Cressleaf grou>	Common dandeli>	Giant ragweed	Giant foxtail	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-25-2010	May-25-2010	May-25-2010	May-25-2010	Jun-8-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	182 34	182 34	182 34	182 34	196 48
Trt-Eval Interval	34 DA-B	34 DA-B	34 DA-B	34 DA-B	0 DA-C
Plant-Eval Interval	26 DP-1	26 DP-1	26 DP-1	26 DP-1	40 DP-1
Days After Emergence	18 DE-	18 DE-	18 DE-	18 DE-	32 DE-
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt No.					
Treatment Name	Form Conc	Form Conc	Other Rate	Other Rate	Appl Unit Code
Bartlett's X2					
P(Bartlett's X2)					
Replicate F					
Replicate Prob(F)					
Treatment F					
Treatment Prob(F)					

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SENGL	TAROF	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canad>	Senecio glabel>	Taraxacum offi>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Common dandel>	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jul-4-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 48	196 48	196 48	196 48	222 26
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	26 DA-C
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	66 DP-1
Days After Emergence	32 DE-	32 DE-	32 DE-	32 DE-	58 DE-
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	18	19	20	21	22
1	Ignite	2.34	LBA/GAL	32	oz/a	B	47	20	90	65	99
1	N-pak ams	100	%	2	qt/a	B					
1	Ignite	2.34	LBA/GAL	22	oz/a	C					
1	N-pak ams	100	%	2	qt/a	C					
2	Ignite	2.34	LBA/GAL	32	oz/a	B	50	60	100	55	98
2	Sencor 75DF	75	%AW/W	8	oz/a	B					
2	N-pak ams	100	%	2	qt/a	B					
2	Ignite	2.34	LBA/GAL	22	oz/a	C					
2	N-pak ams	100	%	2	qt/a	C					
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	67	43	97	75	93
3	2,4-D Ester	4	LBA/GAL	1	pt/a	B					
3	N-pak ams	100	%	2	qt/a	B					
3	Ignite	2.34	LBA/GAL	22	oz/a	C					
3	N-pak ams	100	%	2	qt/a	C					
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	51	40	99	40	99
4	Sharpen	2.85	LBA/GAL	1	oz/a	B					
4	N-pak ams	100	%	2	qt/a	B					
4	Ignite	2.34	LBA/GAL	22	oz/a	C					
4	N-pak ams	100	%	2	qt/a	C					
5	Valor XLT @4oz					B	80	73	100	100	96
5	Valor SX	51	%AW/W	2.35	oz/a	B					
5	Classic	25	%AW/W	1.65	oz/a	B					
5	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B					
5	2,4-D Ester	4	LBA/GAL	1	pt/a	B					
5	N-pak ams	100	%	2	qt/a	B					
5	Ignite	2.34	LBA/GAL	22	oz/a	C					
5	N-pak ams	100	%	2	qt/a	C					
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	30	30	100	100	95
6	2,4-D Ester	4	LBA/GAL	1	pt/a	A					
6	N-pak ams	100	%	2	qt/a	A					
6	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B					
6	2,4-D Ester	4	LBA/GAL	1	pt/a	B					
6	N-pak ams	100	%	2	qt/a	B					
6	Ignite	2.34	LBA/GAL	22	oz/a	C					
6	N-pak ams	100	%	2	qt/a	C					
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	76	75	100	50	97
7	2,4-D Ester	4	LBA/GAL	1	pt/a	A					
7	N-pak ams	100	%	2	qt/a	A					
7	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B					
7	Sharpen	2.85	LBA/GAL	1	oz/a	B					

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SENGL	TAROF	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Senecio glabel>	Taraxacum offi>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Common dandel>	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jul-4-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 48	196 48	196 48	196 48	222 26
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	26 DA-C
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	66 DP-1
Days After Emergence	32 DE-	32 DE-	32 DE-	32 DE-	58 DE-
ARM Action Codes					
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate Unit	Appl Code	18	19	20	21	22
7	N-pak ams	100 %		2 qt/a		B					
7	Ignite	2.34 LBA/GAL		22 oz/a		C					
7	N-pak ams	100 %		2 qt/a		C					
8	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	72	92	100	100	100
8	2,4-D Ester	4 LBA/GAL		1 pt/a		A					
8	N-pak ams	100 %		2 qt/a		A					
8	VALOR XLT @4oz					B					
8	Valor SX	51 %AW/W		2.35 oz/a		B					
8	Classic	25 %AW/W		1.65 oz/a		B					
8	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B					
8	2,4-D Ester	4 LBA/GAL		1 pt/a		B					
8	N-pak ams	100 %		2 qt/a		B					
8	Ignite	2.34 LBA/GAL		22 oz/a		C					
8	N-pak ams	100 %		2 qt/a		C					
9	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	47	20	100	75	99
9	2,4-D Ester	4 LBA/GAL		1 pt/a		A					
9	N-pak ams	100 %		2 qt/a		A					
9	Ignite	2.34 LBA/GAL		32 oz/a		B					
9	N-pak ams	100 %		2 qt/a		B					
9	Ignite	2.34 LBA/GAL		22 oz/a		C					
9	N-pak ams	100 %		2 qt/a		C					
10	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	40	70	100	50	97
10	2,4-D Ester	4 LBA/GAL		1 pt/a		A					
10	N-pak ams	100 %		2 qt/a		A					
10	Ignite	2.34 LBA/GAL		32 oz/a		B					
10	Sencor 75DF	75 %AW/W		8 oz/a		B					
10	N-pak ams	100 %		2 qt/a		B					
10	Ignite	2.34 LBA/GAL		22 oz/a		C					
10	N-pak ams	100 %		2 qt/a		C					
11	Canopy	75 %AW/W		4.5 oz/a		A	7	50	100	100	96
11	2,4-D Ester	4 LBA/GAL		1 pt/a		A					
11	N-pak ams	100 %		2 qt/a		A					
11	Coc	100 %		0.8 qt/a		A					
11	Ignite	2.34 LBA/GAL		22 oz/a		C					
11	N-pak ams	100 %		2 qt/a		C					
12	Canopy	75 %AW/W		2.25 oz/a		A	67	77	100	80	100
12	2,4-D Ester	4 LBA/GAL		1 pt/a		A					
12	N-pak ams	100 %		2 qt/a		A					
12	Coc	100 %		0.8 qt/a		A					
12	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B					
12	2,4-D Ester	4 LBA/GAL		1 pt/a		B					
12	N-pak ams	100 %		2 qt/a		B					
12	Ignite	2.34 LBA/GAL		22 oz/a		C					
12	N-pak ams	100 %		2 qt/a		C					
13	Canopy	75 %AW/W		2.25 oz/a		A	70	97	100	47	100
13	2,4-D Ester	4 LBA/GAL		1 pt/a		A					
13	N-pak ams	100 %		2 qt/a		A					
13	Coc	100 %		0.8 qt/a		A					
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B					
13	Sharpen	2.85 LBA/GAL		1 oz/a		B					
13	N-pak ams	100 %		2 qt/a		B					
13	Ignite	2.34 LBA/GAL		22 oz/a		C					
13	N-pak ams	100 %		2 qt/a		C					

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	ERICA	SENGL	TAROF	SETFA			
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Senecio glabel>	Taraxacum offi>	Setaria faberi			
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Common dandel>	Giant foxtail			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jul-4-2010			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	196 48	196 48	196 48	196 48	222 26			
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	26 DA-C			
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	66 DP-1			
Days After Emergence	32 DE-	32 DE-	32 DE-	32 DE-	58 DE-			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment	Form Form	Other Other	Appl					
No. Name	Conc Unit	Rate Rate	Unit Code	18	19			
				20	21			
				22				
14 Canopy	75 %AW/W	2.25 oz/a	A	58	100	100	25	100
14 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
14 N-pak ams	100 %	2 qt/a	A					
14 Coc	100 %	0.8 qt/a	A					
14 Gramoxone Inteon	2 LBA/GAL	40 oz/a	B					
14 Sencor 75DF	75 %AW/W	8 oz/a	B					
14 N-pak ams	100 %	2 qt/a	B					
14 Ignite	2.34 LBA/GAL	22 oz/a	C					
14 N-pak ams	100 %	2 qt/a	C					
15 Canopy	75 %AW/W	2.25 oz/a	A	83	97	100	100	99
15 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
15 N-pak ams	100 %	2 qt/a	A					
15 Coc	100 %	0.8 qt/a	A					
15 Valor XLT @4oz			B					
15 Valor SX	51 %AW/W	2.35 oz/a	B					
15 Classic	25 %AW/W	1.65 oz/a	B					
15 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B					
15 2,4-D Ester	4 LBA/GAL	1 pt/a	B					
15 N-pak ams	100 %	2 qt/a	B					
15 Ignite	2.34 LBA/GAL	22 oz/a	C					
15 N-pak ams	100 %	2 qt/a	C					
16 Canopy	75 %AW/W	2.25 oz/a	A	82	92	100	100	100
16 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
16 N-pak ams	100 %	2 qt/a	A					
16 Coc	100 %	0.8 qt/a	A					
16 Valor XLT @2oz			B					
16 Valor SX	51 %AW/W	1.17 oz/a	B					
16 Classic	25 %AW/W	0.83 oz/a	B					
16 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B					
16 2,4-D Ester	4 LBA/GAL	1 pt/a	B					
16 N-pak ams	100 %	2 qt/a	B					
16 Ignite	2.34 LBA/GAL	22 oz/a	C					
16 N-pak ams	100 %	2 qt/a	C					
17 Canopy	75 %AW/W	2.25 oz/a	A	33	67	100	85	93
17 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
17 N-pak ams	100 %	2 qt/a	A					
17 Coc	100 %	0.8 qt/a	A					
17 Ignite	2.34 LBA/GAL	32 oz/a	B					
17 N-pak ams	100 %	2 qt/a	B					
17 Ignite	2.34 LBA/GAL	22 oz/a	C					
17 N-pak ams	100 %	2 qt/a	C					
18 Canopy	75 %AW/W	2.25 oz/a	A	0	20	0	0	97
18 2,4-D Ester	4 LBA/GAL	1 pt/a	A					
18 N-pak ams	100 %	2 qt/a	A					
18 Coc	100 %	0.8 qt/a	A					
18 Ignite	2.34 LBA/GAL	32 oz/a	B					
18 Sencor 75DF	75 %AW/W	8 oz/a	B					
18 N-pak ams	100 %	2 qt/a	B					
18 Ignite	2.34 LBA/GAL	22 oz/a	C					
18 N-pak ams	100 %	2 qt/a	C					
LSD (P=.05)				26.0	18.4	7.2	40.1	8.8
Standard Deviation				15.6	11.0	4.3	23.3	5.3
CV				29.23	17.72	4.64	33.6	5.43

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SENGL	TAROF	SETFA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Senecio glabel>	Taraxacum offi>	Setaria faberi
Pest Name	Giant ragweed	Canada horsewe>	Cressleaf grou>	Common dandel>	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jun-8-2010	Jul-4-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	196 48	196 48	196 48	196 48	222 26
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	26 DA-C
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1	66 DP-1
Days After Emergence	32 DE-	32 DE-	32 DE-	32 DE-	58 DE-
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt No.					
Treatment Name	Form Conc	Form Conc	Other Rate	Other Rate	Appl Unit Code
			18	19	20
			21	22	
Bartlett's X2	8.06	13.063	2.015	5.951	19.623
P(Bartlett's X2)	0.886	0.364	0.156	0.653	0.051
Replicate F	1.075	0.114	1.763	2.178	0.697
Replicate Prob(F)	0.3532	0.8928	0.1877	0.1438	0.5055
Treatment F	7.411	19.494	87.786	4.948	0.610
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0010	0.8587

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	ERICA	ERICA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Conyza canaden>	Conyza canaden>
Pest Name	Giant ragweed	Canada horsewe>	Canada horsewe>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-4-2010	Jul-4-2010	Sep-17-2010	Sep-17-2010
Rating Type	CONTROL	CONTROL	CONTROL	COUPLA
Rating Unit	%	%	%	NUMBER
Sample Size, Unit				1 PLOT
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	222 26	222 26	297 101	297 101
Trt-Eval Interval	26 DA-C	26 DA-C		
Plant-Eval Interval	66 DP-1	66 DP-1	141 DP-1	141 DP-1
Days After Emergence	58 DE-	58 DE-	133 DE	133 DE
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	23	24	25	26
1	Ignite	2.34	LBA/GAL	32	oz/a	B	97	82	100	0
1	N-pak ams	100	%	2	qt/a	B				
1	Ignite	2.34	LBA/GAL	22	oz/a	C				
1	N-pak ams	100	%	2	qt/a	C				
2	Ignite	2.34	LBA/GAL	32	oz/a	B	97	95	99	1
2	Sencor 75DF	75	%AW/W	8	oz/a	B				
2	N-pak ams	100	%	2	qt/a	B				
2	Ignite	2.34	LBA/GAL	22	oz/a	C				
2	N-pak ams	100	%	2	qt/a	C				
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	100	94	100	0
3	2,4-D Ester	4	LBA/GAL	1	pt/a	B				
3	N-pak ams	100	%	2	qt/a	B				
3	Ignite	2.34	LBA/GAL	22	oz/a	C				
3	N-pak ams	100	%	2	qt/a	C				
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	99	79	100	0
4	Sharpen	2.85	LBA/GAL	1	oz/a	B				
4	N-pak ams	100	%	2	qt/a	B				
4	Ignite	2.34	LBA/GAL	22	oz/a	C				
4	N-pak ams	100	%	2	qt/a	C				
5	Valor XLT @4oz					B	97	100	100	0
5	Valor SX	51	%AW/W	2.35	oz/a	B				
5	Classic	25	%AW/W	1.65	oz/a	B				
5	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
5	2,4-D Ester	4	LBA/GAL	1	pt/a	B				
5	N-pak ams	100	%	2	qt/a	B				
5	Ignite	2.34	LBA/GAL	22	oz/a	C				
5	N-pak ams	100	%	2	qt/a	C				
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	97	90	97	0
6	2,4-D Ester	4	LBA/GAL	1	pt/a	A				
6	N-pak ams	100	%	2	qt/a	A				
6	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
6	2,4-D Ester	4	LBA/GAL	1	pt/a	B				
6	N-pak ams	100	%	2	qt/a	B				
6	Ignite	2.34	LBA/GAL	22	oz/a	C				
6	N-pak ams	100	%	2	qt/a	C				
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	100	100	100	0
7	2,4-D Ester	4	LBA/GAL	1	pt/a	A				
7	N-pak ams	100	%	2	qt/a	A				
7	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B				
7	Sharpen	2.85	LBA/GAL	1	oz/a	B				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	ERICA	ERICA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Conyza canaden>	Conyza canaden>
Pest Name	Giant ragweed	Canada horsewe>	Canada horsewe>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-4-2010	Jul-4-2010	Sep-17-2010	Sep-17-2010
Rating Type	CONTROL	CONTROL	CONTROL	COUPLA
Rating Unit	%	%	%	NUMBER
Sample Size, Unit				1 PLOT
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	222 26	222 26	297 101	297 101
Trt-Eval Interval	26 DA-C	26 DA-C		
Plant-Eval Interval	66 DP-1	66 DP-1	141 DP-1	141 DP-1
Days After Emergence	58 DE-	58 DE-	133 DE	133 DE
ARM Action Codes				
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate Unit	Appl Code	23	24	25	26
7	N-pak ams	100 %		2 qt/a		B				
7	Ignite	2.34 LBA/GAL		22 oz/a		C				
7	N-pak ams	100 %		2 qt/a		C				
8	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	100	100	100	0
8	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
8	N-pak ams	100 %		2 qt/a		A				
8	VALOR XLT @4oz					B				
8	Valor SX	51 %AW/W		2.35 oz/a		B				
8	Classic	25 %AW/W		1.65 oz/a		B				
8	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
8	2,4-D Ester	4 LBA/GAL		1 pt/a		B				
8	N-pak ams	100 %		2 qt/a		B				
8	Ignite	2.34 LBA/GAL		22 oz/a		C				
8	N-pak ams	100 %		2 qt/a		C				
9	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	93	73	97	1
9	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
9	N-pak ams	100 %		2 qt/a		A				
9	Ignite	2.34 LBA/GAL		32 oz/a		B				
9	N-pak ams	100 %		2 qt/a		B				
9	Ignite	2.34 LBA/GAL		22 oz/a		C				
9	N-pak ams	100 %		2 qt/a		C				
10	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	87	100	100	0
10	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
10	N-pak ams	100 %		2 qt/a		A				
10	Ignite	2.34 LBA/GAL		32 oz/a		B				
10	Sencor 75DF	75 %AW/W		8 oz/a		B				
10	N-pak ams	100 %		2 qt/a		B				
10	Ignite	2.34 LBA/GAL		22 oz/a		C				
10	N-pak ams	100 %		2 qt/a		C				
11	Canopy	75 %AW/W		4.5 oz/a		A	60	83	92	1
11	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
11	N-pak ams	100 %		2 qt/a		A				
11	Coc	100 %		0.8 qt/a		A				
11	Ignite	2.34 LBA/GAL		22 oz/a		C				
11	N-pak ams	100 %		2 qt/a		C				
12	Canopy	75 %AW/W		2.25 oz/a		A	100	100	100	0
12	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
12	N-pak ams	100 %		2 qt/a		A				
12	Coc	100 %		0.8 qt/a		A				
12	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
12	2,4-D Ester	4 LBA/GAL		1 pt/a		B				
12	N-pak ams	100 %		2 qt/a		B				
12	Ignite	2.34 LBA/GAL		22 oz/a		C				
12	N-pak ams	100 %		2 qt/a		C				
13	Canopy	75 %AW/W		2.25 oz/a		A	97	100	100	0
13	2,4-D Ester	4 LBA/GAL		1 pt/a		A				
13	N-pak ams	100 %		2 qt/a		A				
13	Coc	100 %		0.8 qt/a		A				
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
13	Sharpen	2.85 LBA/GAL		1 oz/a		B				
13	N-pak ams	100 %		2 qt/a		B				
13	Ignite	2.34 LBA/GAL		22 oz/a		C				
13	N-pak ams	100 %		2 qt/a		C				

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	ERICA	ERICA	ERICA			
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Conyza canaden>	Conyza canaden>			
Pest Name	Giant ragweed	Canada horsewe>	Canada horsewe>	Canada horsewe>			
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jul-4-2010	Jul-4-2010	Sep-17-2010	Sep-17-2010			
Rating Type	CONTROL	CONTROL	CONTROL	COUPLA			
Rating Unit	%	%	%	NUMBER			
Sample Size, Unit				1 PLOT			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	222 26	222 26	297 101	297 101			
Trt-Eval Interval	26 DA-C	26 DA-C					
Plant-Eval Interval	66 DP-1	66 DP-1	141 DP-1	141 DP-1			
Days After Emergence	58 DE-	58 DE-	133 DE	133 DE			
ARM Action Codes							
Number of Decimals	0	0	0	0			
Trt Treatment	Form Form	Other Other	Appl				
No. Name	Conc Unit	Rate Rate	Unit Code	23			
				24			
				25			
				26			
14 Canopy	75 %AW/W	2.25 oz/a	A	90	100	100	0
14 2,4-D Ester	4 LBA/GAL	1 pt/a	A				
14 N-pak ams	100 %	2 qt/a	A				
14 Coc	100 %	0.8 qt/a	A				
14 Gramoxone Inteon	2 LBA/GAL	40 oz/a	B				
14 Sencor 75DF	75 %AW/W	8 oz/a	B				
14 N-pak ams	100 %	2 qt/a	B				
14 Ignite	2.34 LBA/GAL	22 oz/a	C				
14 N-pak ams	100 %	2 qt/a	C				
15 Canopy	75 %AW/W	2.25 oz/a	A	97	100	100	0
15 2,4-D Ester	4 LBA/GAL	1 pt/a	A				
15 N-pak ams	100 %	2 qt/a	A				
15 Coc	100 %	0.8 qt/a	A				
15 Valor XLT @4oz			B				
15 Valor SX	51 %AW/W	2.35 oz/a	B				
15 Classic	25 %AW/W	1.65 oz/a	B				
15 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B				
15 2,4-D Ester	4 LBA/GAL	1 pt/a	B				
15 N-pak ams	100 %	2 qt/a	B				
15 Ignite	2.34 LBA/GAL	22 oz/a	C				
15 N-pak ams	100 %	2 qt/a	C				
16 Canopy	75 %AW/W	2.25 oz/a	A	100	100	100	0
16 2,4-D Ester	4 LBA/GAL	1 pt/a	A				
16 N-pak ams	100 %	2 qt/a	A				
16 Coc	100 %	0.8 qt/a	A				
16 Valor XLT @2oz			B				
16 Valor SX	51 %AW/W	1.17 oz/a	B				
16 Classic	25 %AW/W	0.83 oz/a	B				
16 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	B				
16 2,4-D Ester	4 LBA/GAL	1 pt/a	B				
16 N-pak ams	100 %	2 qt/a	B				
16 Ignite	2.34 LBA/GAL	22 oz/a	C				
16 N-pak ams	100 %	2 qt/a	C				
17 Canopy	75 %AW/W	2.25 oz/a	A	95	95	100	0
17 2,4-D Ester	4 LBA/GAL	1 pt/a	A				
17 N-pak ams	100 %	2 qt/a	A				
17 Coc	100 %	0.8 qt/a	A				
17 Ignite	2.34 LBA/GAL	32 oz/a	B				
17 N-pak ams	100 %	2 qt/a	B				
17 Ignite	2.34 LBA/GAL	22 oz/a	C				
17 N-pak ams	100 %	2 qt/a	C				
18 Canopy	75 %AW/W	2.25 oz/a	A	43	70	90	1
18 2,4-D Ester	4 LBA/GAL	1 pt/a	A				
18 N-pak ams	100 %	2 qt/a	A				
18 Coc	100 %	0.8 qt/a	A				
18 Ignite	2.34 LBA/GAL	32 oz/a	B				
18 Sencor 75DF	75 %AW/W	8 oz/a	B				
18 N-pak ams	100 %	2 qt/a	B				
18 Ignite	2.34 LBA/GAL	22 oz/a	C				
18 N-pak ams	100 %	2 qt/a	C				
LSD (P=.05)				14.6	21.2	8.7	1.3
Standard Deviation				8.7	12.7	5.2	0.8
CV				9.55	13.76	5.29	320.91

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	ERICA	ERICA
Pest Scientific Name	Ambrosia trifi>	Conyza canaden>	Conyza canaden>	Conyza canaden>
Pest Name	Giant ragweed	Canada horsewe>	Canada horsewe>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-4-2010	Jul-4-2010	Sep-17-2010	Sep-17-2010
Rating Type	CONTROL	CONTROL	CONTROL	COUPLA
Rating Unit	%	%	%	NUMBER
Sample Size, Unit				1 PLOT
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	222 26	222 26	297 101	297 101
Trt-Eval Interval	26 DA-C	26 DA-C		
Plant-Eval Interval	66 DP-1	66 DP-1	141 DP-1	141 DP-1
Days After Emergence	58 DE-	58 DE-	133 DE	133 DE
ARM Action Codes				
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Form Form Conc Unit	Other Other Rate Rate Unit Code	Appl Unit Code	
Bartlett's X2				
P(Bartlett's X2)				
Replicate F				
Replicate Prob(F)				
Treatment F				
Treatment Prob(F)				

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadens
 Pest Name Canada horsewee
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Sep-17-2010
 Rating Type MATURI
 Rating Unit %
 Sample Size, Unit 1 PLOT
 Number of Subsamples 1
 Days After First/Last Applic. 297 101
 Trt-Eval Interval
 Plant-Eval Interval 141 DP-1
 Days After Emergence 133 DE
 ARM Action Codes
 Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit Code	27
1	Ignite	2.34	LBA/GAL	32	oz/a	B	0
1	N-pak ams	100	%	2	qt/a	B	
1	Ignite	2.34	LBA/GAL	22	oz/a	C	
1	N-pak ams	100	%	2	qt/a	C	
2	Ignite	2.34	LBA/GAL	32	oz/a	B	1
2	Sencor 75DF	75	%AW/W	8	oz/a	B	
2	N-pak ams	100	%	2	qt/a	B	
2	Ignite	2.34	LBA/GAL	22	oz/a	C	
2	N-pak ams	100	%	2	qt/a	C	
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	0
3	2,4-D Ester	4	LBA/GAL	1	pt/a	B	
3	N-pak ams	100	%	2	qt/a	B	
3	Ignite	2.34	LBA/GAL	22	oz/a	C	
3	N-pak ams	100	%	2	qt/a	C	
4	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	0
4	Sharpen	2.85	LBA/GAL	1	oz/a	B	
4	N-pak ams	100	%	2	qt/a	B	
4	Ignite	2.34	LBA/GAL	22	oz/a	C	
4	N-pak ams	100	%	2	qt/a	C	
5	Valor XLT @4oz					B	0
5	Valor SX	51	%AW/W	2.35	oz/a	B	
5	Classic	25	%AW/W	1.65	oz/a	B	
5	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	
5	2,4-D Ester	4	LBA/GAL	1	pt/a	B	
5	N-pak ams	100	%	2	qt/a	B	
5	Ignite	2.34	LBA/GAL	22	oz/a	C	
5	N-pak ams	100	%	2	qt/a	C	
6	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	0
6	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
6	N-pak ams	100	%	2	qt/a	A	
6	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	
6	2,4-D Ester	4	LBA/GAL	1	pt/a	B	
6	N-pak ams	100	%	2	qt/a	B	
6	Ignite	2.34	LBA/GAL	22	oz/a	C	
6	N-pak ams	100	%	2	qt/a	C	
7	Roundup Power Max	4.5	LBAE/GAL	11	oz/a	A	0
7	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
7	N-pak ams	100	%	2	qt/a	A	
7	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	
7	Sharpen	2.85	LBA/GAL	1	oz/a	B	

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadens
 Pest Name Canada horsewee
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Sep-17-2010
 Rating Type MATURI
 Rating Unit %
 Sample Size, Unit 1 PLOT
 Number of Subsamples 1
 Days After First/Last Applic. 297 101
 Trt-Eval Interval
 Plant-Eval Interval 141 DP-1
 Days After Emergence 133 DE
 ARM Action Codes
 Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	
							27
7	N-pak ams	100 %		2 qt/a		B	
7	Ignite	2.34 LBA/GAL		22 oz/a		C	
7	N-pak ams	100 %		2 qt/a		C	
8	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	0
8	2,4-D Ester	4 LBA/GAL		1 pt/a		A	
8	N-pak ams	100 %		2 qt/a		A	
8	VALOR XLT @4oz					B	
8	Valor SX	51 %AW/W		2.35 oz/a		B	
8	Classic	25 %AW/W		1.65 oz/a		B	
8	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B	
8	2,4-D Ester	4 LBA/GAL		1 pt/a		B	
8	N-pak ams	100 %		2 qt/a		B	
8	Ignite	2.34 LBA/GAL		22 oz/a		C	
8	N-pak ams	100 %		2 qt/a		C	
9	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	1
9	2,4-D Ester	4 LBA/GAL		1 pt/a		A	
9	N-pak ams	100 %		2 qt/a		A	
9	Ignite	2.34 LBA/GAL		32 oz/a		B	
9	N-pak ams	100 %		2 qt/a		B	
9	Ignite	2.34 LBA/GAL		22 oz/a		C	
9	N-pak ams	100 %		2 qt/a		C	
10	Roundup Power Max	4.5 LBAE/GAL		11 oz/a		A	0
10	2,4-D Ester	4 LBA/GAL		1 pt/a		A	
10	N-pak ams	100 %		2 qt/a		A	
10	Ignite	2.34 LBA/GAL		32 oz/a		B	
10	Sencor 75DF	75 %AW/W		8 oz/a		B	
10	N-pak ams	100 %		2 qt/a		B	
10	Ignite	2.34 LBA/GAL		22 oz/a		C	
10	N-pak ams	100 %		2 qt/a		C	
11	Canopy	75 %AW/W		4.5 oz/a		A	1
11	2,4-D Ester	4 LBA/GAL		1 pt/a		A	
11	N-pak ams	100 %		2 qt/a		A	
11	Coc	100 %		0.8 qt/a		A	
11	Ignite	2.34 LBA/GAL		22 oz/a		C	
11	N-pak ams	100 %		2 qt/a		C	
12	Canopy	75 %AW/W		2.25 oz/a		A	0
12	2,4-D Ester	4 LBA/GAL		1 pt/a		A	
12	N-pak ams	100 %		2 qt/a		A	
12	Coc	100 %		0.8 qt/a		A	
12	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B	
12	2,4-D Ester	4 LBA/GAL		1 pt/a		B	
12	N-pak ams	100 %		2 qt/a		B	
12	Ignite	2.34 LBA/GAL		22 oz/a		C	
12	N-pak ams	100 %		2 qt/a		C	
13	Canopy	75 %AW/W		2.25 oz/a		A	0
13	2,4-D Ester	4 LBA/GAL		1 pt/a		A	
13	N-pak ams	100 %		2 qt/a		A	
13	Coc	100 %		0.8 qt/a		A	
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B	
13	Sharpen	2.85 LBA/GAL		1 oz/a		B	
13	N-pak ams	100 %		2 qt/a		B	
13	Ignite	2.34 LBA/GAL		22 oz/a		C	
13	N-pak ams	100 %		2 qt/a		C	

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadensis
 Pest Name Canada horseweed
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Sep-17-2010
 Rating Type MATURI
 Rating Unit %
 Sample Size, Unit 1 PLOT
 Number of Subsamples 1
 Days After First/Last Applic. 297 101
 Trt-Eval Interval
 Plant-Eval Interval 141 DP-1
 Days After Emergence 133 DE
 ARM Action Codes
 Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	
							27
14	Canopy	75 %	AW/W	2.25	oz/a	A	0
14	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
14	N-pak ams	100 %		2	qt/a	A	
14	Coc	100 %		0.8	qt/a	A	
14	Gramoxone Inteon	2	LBA/GAL	40	oz/a	B	
14	Sencor 75DF	75 %	AW/W	8	oz/a	B	
14	N-pak ams	100 %		2	qt/a	B	
14	Ignite	2.34	LBA/GAL	22	oz/a	C	
14	N-pak ams	100 %		2	qt/a	C	
15	Canopy	75 %	AW/W	2.25	oz/a	A	0
15	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
15	N-pak ams	100 %		2	qt/a	A	
15	Coc	100 %		0.8	qt/a	A	
15	Valor XLT @4oz					B	
15	Valor SX	51 %	AW/W	2.35	oz/a	B	
15	Classic	25 %	AW/W	1.65	oz/a	B	
15	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	
15	2,4-D Ester	4	LBA/GAL	1	pt/a	B	
15	N-pak ams	100 %		2	qt/a	B	
15	Ignite	2.34	LBA/GAL	22	oz/a	C	
15	N-pak ams	100 %		2	qt/a	C	
16	Canopy	75 %	AW/W	2.25	oz/a	A	0
16	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
16	N-pak ams	100 %		2	qt/a	A	
16	Coc	100 %		0.8	qt/a	A	
16	Valor XLT @2oz					B	
16	Valor SX	51 %	AW/W	1.17	oz/a	B	
16	Classic	25 %	AW/W	0.83	oz/a	B	
16	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	B	
16	2,4-D Ester	4	LBA/GAL	1	pt/a	B	
16	N-pak ams	100 %		2	qt/a	B	
16	Ignite	2.34	LBA/GAL	22	oz/a	C	
16	N-pak ams	100 %		2	qt/a	C	
17	Canopy	75 %	AW/W	2.25	oz/a	A	0
17	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
17	N-pak ams	100 %		2	qt/a	A	
17	Coc	100 %		0.8	qt/a	A	
17	Ignite	2.34	LBA/GAL	32	oz/a	B	
17	N-pak ams	100 %		2	qt/a	B	
17	Ignite	2.34	LBA/GAL	22	oz/a	C	
17	N-pak ams	100 %		2	qt/a	C	
18	Canopy	75 %	AW/W	2.25	oz/a	A	1
18	2,4-D Ester	4	LBA/GAL	1	pt/a	A	
18	N-pak ams	100 %		2	qt/a	A	
18	Coc	100 %		0.8	qt/a	A	
18	Ignite	2.34	LBA/GAL	32	oz/a	B	
18	Sencor 75DF	75 %	AW/W	8	oz/a	B	
18	N-pak ams	100 %		2	qt/a	B	
18	Ignite	2.34	LBA/GAL	22	oz/a	C	
18	N-pak ams	100 %		2	qt/a	C	

LSD (P=.05) 1.3
 Standard Deviation 0.8
 CV 320.91

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadens
Pest Name	Canada horsewe
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	Sep-17-2010
Rating Type	MATURI
Rating Unit	%
Sample Size, Unit	1 PLOT
Number of Subsamples	1
Days After First/Last Applic.	297 101
Trt-Eval Interval	
Plant-Eval Interval	141 DP-1
Days After Emergence	133 DE
ARM Action Codes	
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	
							27
	Bartlett's X2						1.35
	P(Bartlett's X2)						0.717
	Replicate F						1.350
	Replicate Prob(F)						0.2741
	Treatment F						1.042
	Treatment Prob(F)						0.4457

Ohio State University Horticulture and Crop Science

LL SOY MARESTAIL RESEARCH/DEMO STUDY

Title No. 2:

Trial ID: 10LLHOWE(WARS) Protocol ID: 10LLHOWE
Location: Western Branch G-7 Study Director: Bryan Reeb
Project ID: 10LLHOWE Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Type

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

Pest Code

LAMPU, Lamium purpureum, = US
STEME, Stellaria media, = US
ERICA, Conyza canadensis, = US
SENGL, Senecio glabellus, = US
TAROF, Taraxacum officinale, = US
AMBTR, Ambrosia trifida, = US
SETFA, Setaria faberi, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYGEN = phytotoxicity - general / injury
COUPLA = count - plant / emergence - objective
MATURI = maturity

Rating Unit

% = percent
NUMBER = number

PLOT = total plot

Plant-Eval Interval

0 DP-1 = 1 Apr-29-2010
13 DP-1 = 1 Apr-29-2010
26 DP-1 = 1 Apr-29-2010
40 DP-1 = 1 Apr-29-2010
66 DP-1 = 1 Apr-29-2010
141 DP-1 = 1 Apr-29-2010

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Project ID: 10LLHOWE Investigator: Dr. Mark M. Loux
Sponsor Contact:

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.8582 N
State/Prov.: Ohio **Longitude of LL Corner °:** 83.67693 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1094.00 FT
Country: USA

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: S.C. 3330 LL **Description:** LIBERTY LINK
BBCH Scale: BSOY **Planting Date:** Apr-29-2010
Planting Method: SEEDED seeded **Rate, Unit:** 196000 S/A
Depth, Unit: 0.75 IN
Row Spacing, Unit: 15 IN
Seed Bed: NO-TIL
Soil Moisture: GOOD good **Emergence Date:** May-7-2010
Harvested Width, Unit: 6.25 FT **Harvested Length, Unit:** 30 FT

Pest Description

- Pest 1 Type:** W **Code:** SENGL *Senecio glabellus*
Common Name: Cressleaf groundsel
- Pest 2 Type:** W **Code:** ERPSS *Erophila sp.*
Common Name: Whitlowgrass
- Pest 3 Type:** W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed
- Pest 4 Type:** W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettel
- Pest 5 Type:** W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse
- Pest 6 Type:** W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion
- Pest 7 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 8 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 9 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common 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: G-7
% OM: 2 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Crosby Silt Loam
CEC: 14 **Fert. Level:** G good
Soil Drainage: G good

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