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## Liberty Link Soy efficacy and residual study in no-till soybeans

Trial ID: 14 NTLIBERTY      Location: Western Branch      Trial Year: 2014  
 Protocol ID: 14 NTLIBERTY      Investigator: Dr. Mark M. Loux  
 Project ID: HP14USAWGB      Study Director: Bryan Reeb  
 Sponsor Contact: Dave Lamore, Bayer

Crop 1: GLXMA Glycine max Soybean      Crop Description  
 Variety: Pioneer 34T35L  
 Description: Liberty Link  
 Planting Date: 5/5/2014  
 Planting Rate, Unit: 160000 S/A      Planting Method: PLANTD planted  
 Depth, Unit: 1 IN      Planting Equipment: FE      Field Equipment  
 Row Spacing, Unit: 15 IN      Emergence Date: 5/15/2014  
 Soil Moisture: GOOD good  
 Seed Bed: NOTILL

Pest Description  
 Pest 1 Type: W      Code: LAMPU Lamium purpureum  
 Common Name: Purple deadnettel  
 Pest 2 Type: W      Code: STEME Stellaria media  
 Common Name: Common chickweed  
 Pest 3 Type: W      Code: CAPBP Capsella bursa-pastoris  
 Common Name: Shepherd's purse  
 Pest 4 Type: W      Code: RANAB Ranunculus abortivus  
 Common Name: Smallflower buttercup  
 Pest 5 Type: W      Code: ERPSS Erophila sp.  
 Common Name: Whitlowgrass  
 Pest 6 Type: W      Code: AMBTR Ambrosia trifida  
 Common Name: Giant ragweed  
 Pest 7 Type: W      Code: ERICA Conyza canadensis  
 Common Name: Canada horseweed  
 Pest 8 Type: W      Code: AMBEL Ambrosia artemisiifolia  
 Common Name: Common ragweed  
 Pest 9 Type: W      Code: VERAG Veronica agrestis  
 Common Name: Field speedwell  
 Pest10 Type: W      Code: POLPY Persicaria pensylvanica  
 Common Name: Pennsylvania smartweed

Site and Design  
 Treated Plot Width: 10 FT      Site Type: FIELD field  
 Treated Plot Length: 30 FT      Experimental Unit: 1 PLOT plot  
 Treated Plot Area: 300 FT2      Tillage Type: NOTILL no-till  
 Replications: 3      Study Design: RACOBL Randomized Complete Block (RCB)

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

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	Application Description			
	A	B	C	D
Application Date:	4/17/2014	5/27/2014	6/4/2014	6/27/2014
Appl. Start Time:	10:00 AM	9:00 AM	7:00 AM	9:00 AM
Appl. Stop Time:	10:30 AM	9:30 AM	7:30 AM	9:15 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	14 EPP	1-2" WDS	2-4" WDS	LPO
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL
Applied By:			Dobbels	DOBBELS
Air Temperature, Unit:	48.7 F	76 F	68.6 F	76 F
% Relative Humidity:	54	72	65	72
Wind Velocity, Unit:	8 MPH	6 MPH	1 MPH	5 MPH
Wind Direction:	S	W	E	NNE
Dew Presence (Y/N):	N no	N no	N no	N no
Soil Temperature, Unit:	40 F	68 F	66 F	69 F
Soil Moisture:	WET	SLIDRY	SLIDRY	MOIST
% Cloud Cover:	15	25		5
Next Moisture Occurred On:	4/25/2014	6/3/2014	6/4/2014	6/29/2014
Time to Next Moisture, Unit:	8 DAY	7 DAY	4 HR	2 DAY

	Crop Stage At Each Application							
	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:			BBCH		BBCH		BBCH	
Stage Majority, Percent:			12	100	13	100	16	100
Height, Unit:			3.5	IN	4.5	IN	12	IN
Height Minimum, Maximum:			3	4	4	6	10	15

	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:	19	100	65	100				
Diameter, Unit:	3.5	IN	4	IN				
Height, Unit:	1.5	IN	2	IN				
Height Minimum, Maximum:	1	2	1	2				
Density, Unit:	2.33	M2						
Pest 2 Code, Type, Scale:	STEME	W	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	19	100						
Diameter, Unit:	3.5	IN						
Height, Unit:	1	IN						
Height Minimum, Maximum:	0.5	1						
Density, Unit:	0.33	M2						
Pest 3 Code, Type, Scale:	CAPBP	W	CAPBP	W	CAPBP	W	CAPBP	W
Stage Majority, Percent:	19	100						
Diameter, Unit:	4	IN						
Height, Unit:	1.5	IN						
Height Minimum, Maximum:	1	2						
Density, Unit:	1	M2						
Pest 4 Code, Type, Scale:	RANAB	W	RANAB	W	RANAB	W	RANAB	W
Stage Majority, Percent:	15	100						
Diameter, Unit:	3.5	IN						
Height, Unit:	1	IN						
Height Minimum, Maximum:	0.5	1						
Density, Unit:	0.66	M2						
Pest 5 Code, Type, Scale:	ERPSS	W	ERPSS	W	ERPSS	W	ERPSS	W
Stage Majority, Percent:	65	100						
Diameter, Unit:	2	IN						
Height, Unit:	3	IN						
Height Minimum, Maximum:	2	3						
Pest 6 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	10	100	14	100				
Height, Unit:	1	IN	3	IN				
Height Minimum, Maximum:	0.5	1	1	5				
Density, Unit:	2	M2						
Pest 7 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W	ERICA	W
Density, Unit:	1.66	M2						
Pest 8 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL	W	AMBEL	W
Stage Majority, Percent:			14	100				
Height, Unit:			1.5	IN				
Height Minimum, Maximum:			1	2				
Pest 9 Code, Type, Scale:	VERAG	W	VERAG	W	VERAG	W	VERAG	W
Stage Majority, Percent:			19	100				
Height, Unit:			1.5	IN				
Height Minimum, Maximum:			1	2				
Pest10 Code, Type, Scale:	POLPY	W	POLPY	W	POLPY	W	POLPY	W
Stage Majority, Percent:			19	100				
Height, Unit:			3.5	IN				
Height Minimum, Maximum:			3	4				

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	Application Equipment			
	A	B	C	D
Appl. Equipment:	10' BACKPACK	10' BACKPACK	TRACTOR SPRA	TRACTOR SPRA
Equipment Type:	BACCAI	BACCAI	TRMOSP	TRMOSP
Operation Pressure, Unit:	50 PSI	50 PSI	28 PSI	28 PSI
Nozzle Type:	AIXR	AIXR	AI	AI 11002
Nozzle Size:	11015	11015	11002	20 GPA
Nozzle Spacing, Unit:	18 IN	18 IN	20 IN	20 IN
Nozzles/Row:	6	6		
Boom Length, Unit:	10 FT	10 FT	20 FT	20 FT
Boom Height, Unit:	20 IN	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	2 liters	2 liters	15 Gallons	20 Gallons
Propellant:	COMCO2	COMCO2	PUMROL	PUMROL

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	CAPBP
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Capsella bursa>
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Shepherd's pur>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/1/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	-4 DP-1	-4 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	-14 DE-1	-14 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4
1 UTC							0	0	0	0
2 Authority First	0.284 lb ai/a		6.5 oz/a		21 EPP A		87	77	100	100
2 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
2 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
2 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
2 Liberty	0.53 lb ai/a		29 oz/a		C					
2 N-pak ams	2.5 % v/v		1.5 qt/a		C					
2 Liberty	0.53 lb ai/a		29 oz/a		D					
2 N-pak ams	2.5 % v/v		1.5 qt/a		D					
3 Fierce	0.166 lb ai/a		3.5 oz/a		21 EPP A		77	83	100	100
3 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
3 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
3 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
3 Liberty	0.53 lb ai/a		29 oz/a		C					
3 N-pak ams	2.5 % v/v		1.5 qt/a		C					
3 Liberty	0.53 lb ai/a		29 oz/a		D					
3 N-pak ams	2.5 % v/v		1.5 qt/a		D					
4 Valor XLT @ 3.5 oz							79	88	100	100
4 Valor SX	0.0653 lb ai/a		2.05 oz/a		21 EPP A					
4 Classic	0.0227 lb ai/a		1.45 oz/a		21 EPP A					
4 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
4 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
4 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
4 Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
4 Zidua	0.106 lb ai/a		2 oz/a		V-2 B					
4 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
4 Liberty	0.53 lb ai/a		29 oz/a		D					
4 N-pak ams	2.5 % v/v		1.5 qt/a		D					
5 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		50	57	100	100
5 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
5 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
5 Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
5 Prefix	1.32 lb ai/a		2 pt/a		V-2 B					
5 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
5 Liberty	0.53 lb ai/a		29 oz/a		C					
5 Warrant	1.13 lb ai/a		3 pt/a		C					
5 N-pak ams	2.5 % v/v		1.5 qt/a		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	CAPBP
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Capsella bursa>
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Shepherd's pur>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/1/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	-4 DP-1	-4 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	-14 DE-1	-14 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	1	2	3	4	
6 OpTill	0.085 lb ai/a		2 oz/a	21 EPP A		67		77	100	100
6 Outlook	0.47 lb ai/a		10 oz/a	21 EPP A						
6 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A						
6 2,4-D	1 lb ai/a	32 oz/a		21 EPP A						
6 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A						
6 Liberty	0.53 lb ai/a	29 oz/a			C					
6 N-pak ams	2.5 % v/v	1.5 qt/a			C					
6 Liberty	0.53 lb ai/a	29 oz/a			D					
6 N-pak ams	2.5 % v/v	1.5 qt/a			D					
7 Envive @ 4 oz						92		97	100	100
7 Valor SX	0.0714 lb ai/a	2.24 oz/a		21 EPP A						
7 Classic	0.0228 lb ai/a	1.46 oz/a		21 EPP A						
7 Thifensulfuron	0.00716 lb ai/a	0.229 oz/a		21 EPP A						
7 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A						
7 2,4-D	1 lb ai/a	32 oz/a		21 EPP A						
7 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A						
7 Liberty	0.53 lb ai/a	29 oz/a		V-2	B					
7 Outlook	0.656 lb ai/a	14 oz/a		V-2	B					
7 N-pak ams	2.5 % v/v	1.5 qt/a		V-2	B					
7 Liberty	0.53 lb ai/a	29 oz/a			D					
7 N-pak ams	2.5 % v/v	1.5 qt/a			D					
8 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A		53		67	100	100
8 2,4-D	1 lb ai/a	32 oz/a		21 EPP A						
8 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A						
8 Liberty	0.53 lb ai/a	29 oz/a		V-2	B					
8 Outlook	0.656 lb ai/a	14 oz/a		V-2	B					
8 N-pak ams	2.5 % v/v	1.5 qt/a		V-2	B					
8 Liberty	0.53 lb ai/a	29 oz/a			C					
8 N-pak ams	2.5 % v/v	1.5 qt/a			C					
9 SP 1171	224 g ai/ha	12.8 oz/a		21 EPP A		77		87	100	100
9 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A						
9 2,4-D	1 lb ai/a	32 oz/a		21 EPP A						
9 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A						
9 Liberty	0.53 lb ai/a	29 oz/a			C					
9 N-pak ams	2.5 % v/v	1.5 qt/a			C					
9 Liberty	0.53 lb ai/a	29 oz/a			D					
9 N-pak ams	2.5 % v/v	1.5 qt/a			D					
10 SP 1171	448 g ai/ha	25.6 oz/a		21 EPP A		68		77	100	100
10 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A						
10 2,4-D	1 lb ai/a	32 oz/a		21 EPP A						
10 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A						
10 Liberty	0.53 lb ai/a	29 oz/a			C					
10 N-pak ams	2.5 % v/v	1.5 qt/a			C					
10 Liberty	0.53 lb ai/a	29 oz/a			D					
10 N-pak ams	2.5 % v/v	1.5 qt/a			D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	CAPBP
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Capsella bursa>
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Shepherd's pur>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/1/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	-4 DP-1	-4 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	-14 DE-1	-14 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	1	2	3	4
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		100	80	100	100
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A					
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
11	Liberty	0.53 lb ai/a		29 oz/a		C					
11	N-pak ams	2.5 % v/v		1.5 qt/a		C					
11	Liberty	0.53 lb ai/a		29 oz/a		D					
11	N-pak ams	2.5 % v/v		1.5 qt/a		D					
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		98	87	100	100
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
12	Liberty	0.53 lb ai/a		29 oz/a		C					
12	N-pak ams	2.5 % v/v		1.5 qt/a		C					
12	Liberty	0.53 lb ai/a		29 oz/a		D					
12	N-pak ams	2.5 % v/v		1.5 qt/a		D					
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100	98	100	100
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
13	Liberty	0.53 lb ai/a		29 oz/a		C					
13	N-pak ams	2.5 % v/v		1.5 qt/a		C					
13	Liberty	0.53 lb ai/a		29 oz/a		D					
13	N-pak ams	2.5 % v/v		1.5 qt/a		D					
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		99	93	100	100
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
14	MSO	1 % v/v		1.2 pt/a		21 EPP A					
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
14	Liberty	0.53 lb ai/a		29 oz/a		C					
14	N-pak ams	2.5 % v/v		1.5 qt/a		C					
14	Liberty	0.53 lb ai/a		29 oz/a		D					
14	N-pak ams	2.5 % v/v		1.5 qt/a		D					
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		76	87	100	100
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
15	MSO	1 % v/v		1.2 pt/a		21 EPP A					
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
15	Liberty	0.53 lb ai/a		29 oz/a		C					
15	N-pak ams	2.5 % v/v		1.5 qt/a		C					
15	Liberty	0.53 lb ai/a		29 oz/a		D					
15	N-pak ams	2.5 % v/v		1.5 qt/a		D					

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Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Capsella bursa>
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Shepherd's pur>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/1/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	-4 DP-1	-4 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	-14 DE-1	-14 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	1	2	3	4	
16	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A		99		98	100	100
16	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
16	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
16	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
16	Liberty	0.53 lb ai/a		29 oz/a		C						
16	N-pak ams	2.5 % v/v		1.5 qt/a		C						
16	Liberty	0.53 lb ai/a		29 oz/a		D						
16	N-pak ams	2.5 % v/v		1.5 qt/a		D						
17	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		93		90	100	100
17	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A						
17	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
17	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
17	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
17	Liberty	0.53 lb ai/a		29 oz/a		C						
17	N-pak ams	2.5 % v/v		1.5 qt/a		C						
17	Liberty	0.53 lb ai/a		29 oz/a		D						
17	N-pak ams	2.5 % v/v		1.5 qt/a		D						
18	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		92		87	100	100
18	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A						
18	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
18	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
18	MSO	1 % v/v		1.2 pt/a		21 EPP A						
18	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
18	Liberty	0.53 lb ai/a		29 oz/a		C						
18	N-pak ams	2.5 % v/v		1.5 qt/a		C						
18	Liberty	0.53 lb ai/a		29 oz/a		D						
18	N-pak ams	2.5 % v/v		1.5 qt/a		D						
19	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		92		88	100	100
19	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A						
19	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
19	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
19	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
19	Liberty	0.53 lb ai/a		29 oz/a		C						
19	N-pak ams	2.5 % v/v		1.5 qt/a		C						
19	Liberty	0.53 lb ai/a		29 oz/a		D						
19	N-pak ams	2.5 % v/v		1.5 qt/a		D						
20	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		92		93	100	100
20	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A						
20	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
20	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
20	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
20	Liberty	0.53 lb ai/a		29 oz/a		C						
20	N-pak ams	2.5 % v/v		1.5 qt/a		C						
20	Liberty	0.53 lb ai/a		29 oz/a		D						
20	N-pak ams	2.5 % v/v		1.5 qt/a		D						

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	CAPBP
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Capsella bursa>
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Shepherd's pur>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/1/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	-4 DP-1	-4 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	-14 DE-1	-14 DE-1
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Growth	Appl	1	2	3	4		
No.	Name	Rate	Unit	Rate	Rate	Unit	Stage	Code				
21	Spartan	0.156 lb ai/a		5 oz/a			21	EPP A	99	100	100	100
21	Balance Pro	0.094 lb ai/a		3 oz/a			21	EPP A				
21	Sencor 75DF	0.375 lb ai/a		8 oz/a			21	EPP A				
21	Roundup Power Max	1.1 lb ae/a		31.3 oz/a			21	EPP A				
21	2,4-D	1 lb ai/a		32 oz/a			21	EPP A				
21	N-pak ams	2.5 % v/v		1.5 qt/a			21	EPP A				
21	Liberty	0.53 lb ai/a		29 oz/a				C				
21	N-pak ams	2.5 % v/v		1.5 qt/a				C				
21	Liberty	0.53 lb ai/a		29 oz/a				D				
21	N-pak ams	2.5 % v/v		1.5 qt/a				D				
22	Sencor DF	0.56 lb ai/a		12 oz/a					100	90	100	100
22	Dual II Magnum	1.24 lb ai/a		1.3 pt/a								
22	Roundup Power Max	1.1 lb ae/a		31.3 oz/a			21	EPP A				
22	2,4-D	1 lb ai/a		32 oz/a			21	EPP A				
22	N-pak ams	2.5 % v/v		1.5 qt/a			21	EPP A				
22	Liberty	0.53 lb ai/a		29 oz/a				C				
22	N-pak ams	2.5 % v/v		1.5 qt/a				C				
22	Liberty	0.53 lb ai/a		29 oz/a				D				
22	N-pak ams	2.5 % v/v		1.5 qt/a				D				
LSD (P=.05)								18.4	24.3	0.0	0.0	
Standard Deviation								11.1	14.7	0.0	0.0	
CV								13.7	17.99	0.0	0.0	
Bartlett's X2								32.67	17.674	0.0	0.0	
P(Bartlett's X2)								0.008*	0.544	.	.	
Replicate F								1.749	1.272	0.000	0.000	
Replicate Prob(F)								0.1864	0.2912	1.0000	1.0000	
Treatment F								13.516	6.140	0.000	0.000	
Treatment Prob(F)								0.0001	0.0001	1.0000	1.0000	



# The Ohio State University

Trt	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	5	6	7	8
	1 UTC							0	0	0	0
	2 Authority First	0.284 lb ai/a		6.5 oz/a		21 EPP A		90	100	100	100
	2 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
	2 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
	2 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
	2 Liberty	0.53 lb ai/a		29 oz/a		C					
	2 N-pak ams	2.5 % v/v		1.5 qt/a		C					
	2 Liberty	0.53 lb ai/a		29 oz/a		D					
	2 N-pak ams	2.5 % v/v		1.5 qt/a		D					
	3 Fierce	0.166 lb ai/a		3.5 oz/a		21 EPP A		97	100	100	100
	3 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
	3 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
	3 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
	3 Liberty	0.53 lb ai/a		29 oz/a		C					
	3 N-pak ams	2.5 % v/v		1.5 qt/a		C					
	3 Liberty	0.53 lb ai/a		29 oz/a		D					
	3 N-pak ams	2.5 % v/v		1.5 qt/a		D					
	4 Valor XLT @ 3.5 oz							97	100	100	100
	4 Valor SX	0.0653 lb ai/a		2.05 oz/a		21 EPP A					
	4 Classic	0.0227 lb ai/a		1.45 oz/a		21 EPP A					
	4 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
	4 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
	4 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
	4 Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
	4 Zidua	0.106 lb ai/a		2 oz/a		V-2 B					
	4 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
	4 Liberty	0.53 lb ai/a		29 oz/a		D					
	4 N-pak ams	2.5 % v/v		1.5 qt/a		D					
	5 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		95	100	73	100
	5 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
	5 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
	5 Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
	5 Prefix	1.32 lb ai/a		2 pt/a		V-2 B					
	5 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
	5 Liberty	0.53 lb ai/a		29 oz/a		C					
	5 Warrant	1.13 lb ai/a		3 pt/a		C					
	5 N-pak ams	2.5 % v/v		1.5 qt/a		C					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	ERYRE	LAMPU	STEME
Pest Scientific Name	Conyza canadensis	Erysimum repandum	Lamium purpureum	Stellaria media
Pest Name	Canada horseweed	Bushy wallflower	Purple deadnettle	Common chickweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	15 DP-1	15 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	5	6	7	8
6 OpTill	0.085 lb ai/a	2 oz/a			21 EPP A		100	100	100	100
6 Outlook	0.47 lb ai/a	10 oz/a			21 EPP A					
6 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
6 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
6 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
6 Liberty	0.53 lb ai/a	29 oz/a				C				
6 N-pak ams	2.5 % v/v	1.5 qt/a				C				
6 Liberty	0.53 lb ai/a	29 oz/a				D				
6 N-pak ams	2.5 % v/v	1.5 qt/a				D				
7 Envive @ 4 oz							100	100	100	100
7 Valor SX	0.0714 lb ai/a	2.24 oz/a			21 EPP A					
7 Classic	0.0228 lb ai/a	1.46 oz/a			21 EPP A					
7 Thifensulfuron	0.00716 lb ai/a	0.229 oz/a			21 EPP A					
7 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
7 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
7 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
7 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
7 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
7 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
7 Liberty	0.53 lb ai/a	29 oz/a				D				
7 N-pak ams	2.5 % v/v	1.5 qt/a				D				
8 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A		97	100	90	90
8 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
8 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
8 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
8 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
8 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
8 Liberty	0.53 lb ai/a	29 oz/a				C				
8 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 SP 1171	224 g ai/ha	12.8 oz/a			21 EPP A		100	100	100	100
9 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
9 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
9 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
9 Liberty	0.53 lb ai/a	29 oz/a				C				
9 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 Liberty	0.53 lb ai/a	29 oz/a				D				
9 N-pak ams	2.5 % v/v	1.5 qt/a				D				
10 SP 1171	448 g ai/ha	25.6 oz/a			21 EPP A		100	100	100	93
10 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
10 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
10 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
10 Liberty	0.53 lb ai/a	29 oz/a				C				
10 N-pak ams	2.5 % v/v	1.5 qt/a				C				
10 Liberty	0.53 lb ai/a	29 oz/a				D				
10 N-pak ams	2.5 % v/v	1.5 qt/a				D				

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	ERYRE	LAMPU	STEME
Pest Scientific Name	Conyza canadensis	Erysimum repans	Lamium purpureum	Stellaria media
Pest Name	Canada horseweed	Bushy wallflower	Purple deadnettle	Common chickweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	15 DP-1	15 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	5	6	7	8
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		100	100	100	100
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A					
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
11	Liberty	0.53 lb ai/a		29 oz/a		C					
11	N-pak ams	2.5 % v/v		1.5 qt/a		C					
11	Liberty	0.53 lb ai/a		29 oz/a		D					
11	N-pak ams	2.5 % v/v		1.5 qt/a		D					
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100	100	100	100
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
12	Liberty	0.53 lb ai/a		29 oz/a		C					
12	N-pak ams	2.5 % v/v		1.5 qt/a		C					
12	Liberty	0.53 lb ai/a		29 oz/a		D					
12	N-pak ams	2.5 % v/v		1.5 qt/a		D					
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100	100	100	100
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
13	Liberty	0.53 lb ai/a		29 oz/a		C					
13	N-pak ams	2.5 % v/v		1.5 qt/a		C					
13	Liberty	0.53 lb ai/a		29 oz/a		D					
13	N-pak ams	2.5 % v/v		1.5 qt/a		D					
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		100	100	100	100
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
14	MSO	1 % v/v		1.2 pt/a		21 EPP A					
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
14	Liberty	0.53 lb ai/a		29 oz/a		C					
14	N-pak ams	2.5 % v/v		1.5 qt/a		C					
14	Liberty	0.53 lb ai/a		29 oz/a		D					
14	N-pak ams	2.5 % v/v		1.5 qt/a		D					
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		100	100	100	100
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
15	MSO	1 % v/v		1.2 pt/a		21 EPP A					
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
15	Liberty	0.53 lb ai/a		29 oz/a		C					
15	N-pak ams	2.5 % v/v		1.5 qt/a		C					
15	Liberty	0.53 lb ai/a		29 oz/a		D					
15	N-pak ams	2.5 % v/v		1.5 qt/a		D					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	ERYRE	LAMPU	STEME
Pest Scientific Name	Conyza canadensis	Erysimum repens	Lamium purpureum	Stellaria media
Pest Name	Canada horseweed	Bushy wallflower	Purple deadnettle	Common chickweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	15 DP-1	15 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	5	6	7	8
16	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A		97	100	100	100
16	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
16	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
16	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
16	Liberty	0.53 lb ai/a		29 oz/a		C					
16	N-pak ams	2.5 % v/v		1.5 qt/a		C					
16	Liberty	0.53 lb ai/a		29 oz/a		D					
16	N-pak ams	2.5 % v/v		1.5 qt/a		D					
17	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
17	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
17	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
17	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
17	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
17	Liberty	0.53 lb ai/a		29 oz/a		C					
17	N-pak ams	2.5 % v/v		1.5 qt/a		C					
17	Liberty	0.53 lb ai/a		29 oz/a		D					
17	N-pak ams	2.5 % v/v		1.5 qt/a		D					
18	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	90
18	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A					
18	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
18	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
18	MSO	1 % v/v		1.2 pt/a		21 EPP A					
18	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
18	Liberty	0.53 lb ai/a		29 oz/a		C					
18	N-pak ams	2.5 % v/v		1.5 qt/a		C					
18	Liberty	0.53 lb ai/a		29 oz/a		D					
18	N-pak ams	2.5 % v/v		1.5 qt/a		D					
19	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
19	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A					
19	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
19	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
19	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
19	Liberty	0.53 lb ai/a		29 oz/a		C					
19	N-pak ams	2.5 % v/v		1.5 qt/a		C					
19	Liberty	0.53 lb ai/a		29 oz/a		D					
19	N-pak ams	2.5 % v/v		1.5 qt/a		D					
20	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
20	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A					
20	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
20	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
20	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
20	Liberty	0.53 lb ai/a		29 oz/a		C					
20	N-pak ams	2.5 % v/v		1.5 qt/a		C					
20	Liberty	0.53 lb ai/a		29 oz/a		D					
20	N-pak ams	2.5 % v/v		1.5 qt/a		D					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	ERYRE	LAMPU	STEME
Pest Scientific Name	Conyza canadensis	Erysimum repans	Lamium purpureum	Stellaria media
Pest Name	Canada horseweed	Bushy wallflower	Purple deadnettle	Common chickweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/1/2014	5/1/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-4 DP-1	-4 DP-1	15 DP-1	15 DP-1
Days After Emergence	-14 DE-1	-14 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

  

Trt Treatment	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	5	6	7	8
21 Spartan	0.156 lb ai/a	5 oz/a		21 EPP A		100	100	100	100
21 Balance Pro	0.094 lb ai/a	3 oz/a		21 EPP A					
21 Sencor 75DF	0.375 lb ai/a	8 oz/a		21 EPP A					
21 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
21 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
21 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
21 Liberty	0.53 lb ai/a	29 oz/a			C				
21 N-pak ams	2.5 % v/v	1.5 qt/a			C				
21 Liberty	0.53 lb ai/a	29 oz/a			D				
21 N-pak ams	2.5 % v/v	1.5 qt/a			D				
22 Sencor DF	0.56 lb ai/a	12 oz/a				100	100	100	100
22 Dual II Magnum	1.24 lb ai/a	1.3 pt/a							
22 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
22 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
22 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
22 Liberty	0.53 lb ai/a	29 oz/a			C				
22 N-pak ams	2.5 % v/v	1.5 qt/a			C				
22 Liberty	0.53 lb ai/a	29 oz/a			D				
22 N-pak ams	2.5 % v/v	1.5 qt/a			D				
LSD (P=.05)						5.5	0.0	6.4	9.5
Standard Deviation						3.3	0.0	3.9	5.7
CV						3.54	0.0	4.12	6.09
Bartlett's X2						1.317	0.0	2.02	0.385
P(Bartlett's X2)						0.933	.	0.155	0.825
Replicate F						6.795	0.000	1.319	1.289
Replicate Prob(F)						0.0028	1.0000	0.2783	0.2861
Treatment F						121.322	0.000	95.290	41.316
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	CAPBP	ERICA	ERYRE
Pest Scientific Name	Ranunculus abo>	Capsella bursa>	Conyza canadens>	Erysimum repans>
Pest Name	Smallflower bu>	Shepherd's pur>	Canada horsewe>	Bushy wallflow>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	9	10	11	12
6 OpTill	0.085 lb ai/a	2 oz/a			21 EPP A		100	100	100	100
6 Outlook	0.47 lb ai/a	10 oz/a			21 EPP A					
6 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
6 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
6 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
6 Liberty	0.53 lb ai/a	29 oz/a				C				
6 N-pak ams	2.5 % v/v	1.5 qt/a				C				
6 Liberty	0.53 lb ai/a	29 oz/a				D				
6 N-pak ams	2.5 % v/v	1.5 qt/a				D				
7 Envive @ 4 oz							100	100	100	100
7 Valor SX	0.0714 lb ai/a	2.24 oz/a			21 EPP A					
7 Classic	0.0228 lb ai/a	1.46 oz/a			21 EPP A					
7 Thifensulfuron	0.00716 lb ai/a	0.229 oz/a			21 EPP A					
7 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
7 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
7 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
7 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
7 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
7 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
7 Liberty	0.53 lb ai/a	29 oz/a				D				
7 N-pak ams	2.5 % v/v	1.5 qt/a				D				
8 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A		100	100	100	100
8 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
8 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
8 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
8 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
8 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
8 Liberty	0.53 lb ai/a	29 oz/a				C				
8 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 SP 1171	224 g ai/ha	12.8 oz/a			21 EPP A		100	100	100	100
9 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
9 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
9 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
9 Liberty	0.53 lb ai/a	29 oz/a				C				
9 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 Liberty	0.53 lb ai/a	29 oz/a				D				
9 N-pak ams	2.5 % v/v	1.5 qt/a				D				
10 SP 1171	448 g ai/ha	25.6 oz/a			21 EPP A		100	100	100	100
10 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
10 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
10 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
10 Liberty	0.53 lb ai/a	29 oz/a				C				
10 N-pak ams	2.5 % v/v	1.5 qt/a				C				
10 Liberty	0.53 lb ai/a	29 oz/a				D				
10 N-pak ams	2.5 % v/v	1.5 qt/a				D				

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	CAPBP	ERICA	ERYRE
Pest Scientific Name	Ranunculus abo>	Capsella bursa>	Conyza canadens>	Erysimum repans>
Pest Name	Smallflower bu>	Shepherd's pur>	Canada horsewe>	Bushy wallflow>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	9	10	11	12
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		100	100	100	100
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A					
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
11	Liberty	0.53 lb ai/a		29 oz/a		C					
11	N-pak ams	2.5 % v/v		1.5 qt/a		C					
11	Liberty	0.53 lb ai/a		29 oz/a		D					
11	N-pak ams	2.5 % v/v		1.5 qt/a		D					
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100	100	100	100
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
12	Liberty	0.53 lb ai/a		29 oz/a		C					
12	N-pak ams	2.5 % v/v		1.5 qt/a		C					
12	Liberty	0.53 lb ai/a		29 oz/a		D					
12	N-pak ams	2.5 % v/v		1.5 qt/a		D					
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100	100	100	100
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
13	Liberty	0.53 lb ai/a		29 oz/a		C					
13	N-pak ams	2.5 % v/v		1.5 qt/a		C					
13	Liberty	0.53 lb ai/a		29 oz/a		D					
13	N-pak ams	2.5 % v/v		1.5 qt/a		D					
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		100	100	100	100
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
14	MSO	1 % v/v		1.2 pt/a		21 EPP A					
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
14	Liberty	0.53 lb ai/a		29 oz/a		C					
14	N-pak ams	2.5 % v/v		1.5 qt/a		C					
14	Liberty	0.53 lb ai/a		29 oz/a		D					
14	N-pak ams	2.5 % v/v		1.5 qt/a		D					
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		100	100	100	100
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
15	MSO	1 % v/v		1.2 pt/a		21 EPP A					
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
15	Liberty	0.53 lb ai/a		29 oz/a		C					
15	N-pak ams	2.5 % v/v		1.5 qt/a		C					
15	Liberty	0.53 lb ai/a		29 oz/a		D					
15	N-pak ams	2.5 % v/v		1.5 qt/a		D					



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	CAPBP	ERICA	ERYRE
Pest Scientific Name	Ranunculus abo>	Capsella bursa>	Conyza canad>	Erysimum repa>
Pest Name	Smallflower bu>	Shepherd's pur>	Canada horsewe>	Bushy wallflow>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	9	10	11	12
16	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A		100	100	100	100
16	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
16	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
16	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
16	Liberty	0.53 lb ai/a		29 oz/a		C					
16	N-pak ams	2.5 % v/v		1.5 qt/a		C					
16	Liberty	0.53 lb ai/a		29 oz/a		D					
16	N-pak ams	2.5 % v/v		1.5 qt/a		D					
17	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
17	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
17	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
17	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
17	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
17	Liberty	0.53 lb ai/a		29 oz/a		C					
17	N-pak ams	2.5 % v/v		1.5 qt/a		C					
17	Liberty	0.53 lb ai/a		29 oz/a		D					
17	N-pak ams	2.5 % v/v		1.5 qt/a		D					
18	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
18	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A					
18	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
18	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
18	MSO	1 % v/v		1.2 pt/a		21 EPP A					
18	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
18	Liberty	0.53 lb ai/a		29 oz/a		C					
18	N-pak ams	2.5 % v/v		1.5 qt/a		C					
18	Liberty	0.53 lb ai/a		29 oz/a		D					
18	N-pak ams	2.5 % v/v		1.5 qt/a		D					
19	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
19	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A					
19	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
19	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
19	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
19	Liberty	0.53 lb ai/a		29 oz/a		C					
19	N-pak ams	2.5 % v/v		1.5 qt/a		C					
19	Liberty	0.53 lb ai/a		29 oz/a		D					
19	N-pak ams	2.5 % v/v		1.5 qt/a		D					
20	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100	100	100	100
20	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A					
20	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
20	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
20	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
20	Liberty	0.53 lb ai/a		29 oz/a		C					
20	N-pak ams	2.5 % v/v		1.5 qt/a		C					
20	Liberty	0.53 lb ai/a		29 oz/a		D					
20	N-pak ams	2.5 % v/v		1.5 qt/a		D					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	RANAB	CAPBP	ERICA	ERYRE
Pest Scientific Name	Ranunculus abo>	Capsella bursa>	Conyza canadens>	Erysimum repans>
Pest Name	Smallflower bu>	Shepherd's pur>	Canada horsewe>	Bushy wallflow>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Growth	Appl	9	10	11	12		
No.	Name	Rate	Unit	Rate	Rate	Unit	Stage	Code				
21	Spartan	0.156 lb ai/a		5 oz/a			21 EPP A		100	100	100	100
21	Balance Pro	0.094 lb ai/a		3 oz/a			21 EPP A					
21	Sencor 75DF	0.375 lb ai/a		8 oz/a			21 EPP A					
21	Roundup Power Max	1.1 lb ae/a		31.3 oz/a			21 EPP A					
21	2,4-D	1 lb ai/a		32 oz/a			21 EPP A					
21	N-pak ams	2.5 % v/v		1.5 qt/a			21 EPP A					
21	Liberty	0.53 lb ai/a		29 oz/a				C				
21	N-pak ams	2.5 % v/v		1.5 qt/a				C				
21	Liberty	0.53 lb ai/a		29 oz/a				D				
21	N-pak ams	2.5 % v/v		1.5 qt/a				D				
22	Sencor DF	0.56 lb ai/a		12 oz/a					100	100	100	100
22	Dual II Magnum	1.24 lb ai/a		1.3 pt/a								
22	Roundup Power Max	1.1 lb ae/a		31.3 oz/a			21 EPP A					
22	2,4-D	1 lb ai/a		32 oz/a			21 EPP A					
22	N-pak ams	2.5 % v/v		1.5 qt/a			21 EPP A					
22	Liberty	0.53 lb ai/a		29 oz/a				C				
22	N-pak ams	2.5 % v/v		1.5 qt/a				C				
22	Liberty	0.53 lb ai/a		29 oz/a				D				
22	N-pak ams	2.5 % v/v		1.5 qt/a				D				
LSD (P=.05)								0.0	0.0	0.0	0.0	
Standard Deviation								0.0	0.0	0.0	0.0	
CV								0.0	0.0	0.0	0.0	
Bartlett's X2								0.0	0.0	0.0	0.0	
P(Bartlett's X2)								.	.	.	.	
Replicate F								0.000	0.000	0.000	0.000	
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000	
Treatment F								0.000	0.000	0.000	0.000	
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000	

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Ambrosia artemisiifolia	Persicaria pensylvanica
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Pennsylvania smartweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16
1	UTC							0	0	0	0
2	Authority First	0.284 lb ai/a		6.5 oz/a		21 EPP A		70	100	100	90
2	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
2	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
2	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
2	Liberty	0.53 lb ai/a		29 oz/a		C					
2	N-pak ams	2.5 % v/v		1.5 qt/a		C					
2	Liberty	0.53 lb ai/a		29 oz/a		D					
2	N-pak ams	2.5 % v/v		1.5 qt/a		D					
3	Fierce	0.166 lb ai/a		3.5 oz/a		21 EPP A		88	80	100	100
3	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
3	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
3	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
3	Liberty	0.53 lb ai/a		29 oz/a		C					
3	N-pak ams	2.5 % v/v		1.5 qt/a		C					
3	Liberty	0.53 lb ai/a		29 oz/a		D					
3	N-pak ams	2.5 % v/v		1.5 qt/a		D					
4	Valor XLT @ 3.5 oz							85	96	100	93
4	Valor SX	0.0653 lb ai/a		2.05 oz/a		21 EPP A					
4	Classic	0.0227 lb ai/a		1.45 oz/a		21 EPP A					
4	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
4	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
4	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
4	Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
4	Zidua	0.106 lb ai/a		2 oz/a		V-2 B					
4	N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
4	Liberty	0.53 lb ai/a		29 oz/a		D					
4	N-pak ams	2.5 % v/v		1.5 qt/a		D					
5	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		50	76	99	25
5	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
5	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
5	Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
5	Prefix	1.32 lb ai/a		2 pt/a		V-2 B					
5	N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
5	Liberty	0.53 lb ai/a		29 oz/a		C					
5	Warrant	1.13 lb ai/a		3 pt/a		C					
5	N-pak ams	2.5 % v/v		1.5 qt/a		C					

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Pest Code	SETFA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16
6 OpTill	0.085 lb ai/a	2 oz/a			21 EPP A		95	90	100	100
6 Outlook	0.47 lb ai/a	10 oz/a			21 EPP A					
6 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
6 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
6 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
6 Liberty	0.53 lb ai/a	29 oz/a				C				
6 N-pak ams	2.5 % v/v	1.5 qt/a				C				
6 Liberty	0.53 lb ai/a	29 oz/a				D				
6 N-pak ams	2.5 % v/v	1.5 qt/a				D				
7 Envive @ 4 oz							90	97	100	100
7 Valor SX	0.0714 lb ai/a	2.24 oz/a			21 EPP A					
7 Classic	0.0228 lb ai/a	1.46 oz/a			21 EPP A					
7 Thifensulfuron	0.00716 lb ai/a	0.229 oz/a			21 EPP A					
7 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
7 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
7 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
7 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
7 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
7 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
7 Liberty	0.53 lb ai/a	29 oz/a				D				
7 N-pak ams	2.5 % v/v	1.5 qt/a				D				
8 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A		75	87	100	100
8 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
8 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
8 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
8 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
8 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
8 Liberty	0.53 lb ai/a	29 oz/a				C				
8 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 SP 1171	224 g ai/ha	12.8 oz/a			21 EPP A		84	80	100	100
9 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
9 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
9 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
9 Liberty	0.53 lb ai/a	29 oz/a				C				
9 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 Liberty	0.53 lb ai/a	29 oz/a				D				
9 N-pak ams	2.5 % v/v	1.5 qt/a				D				
10 SP 1171	448 g ai/ha	25.6 oz/a			21 EPP A		77	73	83	100
10 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
10 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
10 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
10 Liberty	0.53 lb ai/a	29 oz/a				C				
10 N-pak ams	2.5 % v/v	1.5 qt/a				C				
10 Liberty	0.53 lb ai/a	29 oz/a				D				
10 N-pak ams	2.5 % v/v	1.5 qt/a				D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		85	87	100	100
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A					
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
11	Liberty	0.53 lb ai/a		29 oz/a			C				
11	N-pak ams	2.5 % v/v		1.5 qt/a			C				
11	Liberty	0.53 lb ai/a		29 oz/a			D				
11	N-pak ams	2.5 % v/v		1.5 qt/a			D				
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		82	92	97	100
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
12	Liberty	0.53 lb ai/a		29 oz/a			C				
12	N-pak ams	2.5 % v/v		1.5 qt/a			C				
12	Liberty	0.53 lb ai/a		29 oz/a			D				
12	N-pak ams	2.5 % v/v		1.5 qt/a			D				
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		87	82	100	100
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
13	Liberty	0.53 lb ai/a		29 oz/a			C				
13	N-pak ams	2.5 % v/v		1.5 qt/a			C				
13	Liberty	0.53 lb ai/a		29 oz/a			D				
13	N-pak ams	2.5 % v/v		1.5 qt/a			D				
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		85	70	100	100
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
14	MSO	1 % v/v		1.2 pt/a		21 EPP A					
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
14	Liberty	0.53 lb ai/a		29 oz/a			C				
14	N-pak ams	2.5 % v/v		1.5 qt/a			C				
14	Liberty	0.53 lb ai/a		29 oz/a			D				
14	N-pak ams	2.5 % v/v		1.5 qt/a			D				
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		70	88	100	100
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
15	MSO	1 % v/v		1.2 pt/a		21 EPP A					
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
15	Liberty	0.53 lb ai/a		29 oz/a			C				
15	N-pak ams	2.5 % v/v		1.5 qt/a			C				
15	Liberty	0.53 lb ai/a		29 oz/a			D				
15	N-pak ams	2.5 % v/v		1.5 qt/a			D				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16
16 Sencor DF	0.375 lb ai/a	8 oz/a			21 EPP A		78		100	93
16 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A			80		
16 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
16 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
16 Liberty	0.53 lb ai/a	29 oz/a			C					
16 N-pak ams	2.5 % v/v	1.5 qt/a			C					
16 Liberty	0.53 lb ai/a	29 oz/a			D					
16 N-pak ams	2.5 % v/v	1.5 qt/a			D					
17 Spartan	0.156 lb ai/a	5 oz/a			21 EPP A		85	83	100	100
17 Sencor DF	0.375 lb ai/a	8 oz/a			21 EPP A					
17 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
17 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
17 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
17 Liberty	0.53 lb ai/a	29 oz/a			C					
17 N-pak ams	2.5 % v/v	1.5 qt/a			C					
17 Liberty	0.53 lb ai/a	29 oz/a			D					
17 N-pak ams	2.5 % v/v	1.5 qt/a			D					
18 Spartan	0.156 lb ai/a	5 oz/a			21 EPP A		72	67	100	95
18 Sharpen	0.0334 lb ai/a	1.5 oz/a			21 EPP A					
18 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
18 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
18 MSO	1 % v/v	1.2 pt/a			21 EPP A					
18 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
18 Liberty	0.53 lb ai/a	29 oz/a			C					
18 N-pak ams	2.5 % v/v	1.5 qt/a			C					
18 Liberty	0.53 lb ai/a	29 oz/a			D					
18 N-pak ams	2.5 % v/v	1.5 qt/a			D					
19 Spartan	0.156 lb ai/a	5 oz/a			21 EPP A		85	83	100	83
19 Callisto	0.094 lb ai/a	3 oz/a			21 EPP A					
19 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
19 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
19 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
19 Liberty	0.53 lb ai/a	29 oz/a			C					
19 N-pak ams	2.5 % v/v	1.5 qt/a			C					
19 Liberty	0.53 lb ai/a	29 oz/a			D					
19 N-pak ams	2.5 % v/v	1.5 qt/a			D					
20 Spartan	0.156 lb ai/a	5 oz/a			21 EPP A		88	70	100	100
20 Balance Pro	0.094 lb ai/a	3 oz/a			21 EPP A					
20 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
20 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
20 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
20 Liberty	0.53 lb ai/a	29 oz/a			C					
20 N-pak ams	2.5 % v/v	1.5 qt/a			C					
20 Liberty	0.53 lb ai/a	29 oz/a			D					
20 N-pak ams	2.5 % v/v	1.5 qt/a			D					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	5/20/2014	5/20/2014	5/20/2014	5/20/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	33 33	33 33	33 33
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Days After Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Number of Decimals	0	0	0	0

  

Trt Treatment	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	13	14	15	16
21 Spartan	0.156 lb ai/a	5 oz/a		21 EPP A		97	77	100	100
21 Balance Pro	0.094 lb ai/a	3 oz/a		21 EPP A					
21 Sencor 75DF	0.375 lb ai/a	8 oz/a		21 EPP A					
21 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
21 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
21 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
21 Liberty	0.53 lb ai/a	29 oz/a			C				
21 N-pak ams	2.5 % v/v	1.5 qt/a			C				
21 Liberty	0.53 lb ai/a	29 oz/a			D				
21 N-pak ams	2.5 % v/v	1.5 qt/a			D				
22 Sencor DF	0.56 lb ai/a	12 oz/a				92	87	100	100
22 Dual II Magnum	1.24 lb ai/a	1.3 pt/a							
22 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
22 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
22 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
22 Liberty	0.53 lb ai/a	29 oz/a			C				
22 N-pak ams	2.5 % v/v	1.5 qt/a			C				
22 Liberty	0.53 lb ai/a	29 oz/a			D				
22 N-pak ams	2.5 % v/v	1.5 qt/a			D				
LSD (P=.05)						22.7	20.4	10.5	17.1
Standard Deviation						13.8	12.4	6.4	10.4
CV						17.61	15.6	6.75	11.53
Bartlett's X2						35.23	17.771	3.779	4.427
P(Bartlett's X2)						0.019*	0.538	0.052	0.49
Replicate F						0.584	12.420	0.856	0.053
Replicate Prob(F)						0.5619	0.0001	0.4322	0.9481
Treatment F						6.494	7.694	33.830	18.508
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

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Pest Type					W Weed	W Weed	W Weed
Pest Code					SETFA	AMBTR	CHEAL
Pest Scientific Name					Setaria faberi	Ambrosia trifi->	Chenopodium al->
Pest Name					Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale		BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name		Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Rating Date		6/17/2014	6/17/2014	6/17/2014	6/17/2014	6/17/2014	6/17/2014
Rating Type		PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%	%	%
Number of Subsamples		1	1	1	1	1	1
Days After First/Last Applic.		61 13	61 13	61 13	61 13	61 13	61 13
Trt-Eval Interval							
Plant-Eval Interval		43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence		33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1
Number of Decimals		0	0	0	0	0	0
Trt Treatment	Rate	Rate	Other	Other	Growth	Appl	
No. Name	Rate	Unit	Rate	Rate	Stage	Code	
							17 18 19 20
1 UTC							0 78 97 67
2 Authority First	0.284 lb ai/a		6.5 oz/a		21 EPP A		0 87 97 100
2 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		
2 2,4-D	1 lb ai/a		32 oz/a		21 EPP A		
2 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A		
2 Liberty	0.53 lb ai/a		29 oz/a		C		
2 N-pak ams	2.5 % v/v		1.5 qt/a		C		
2 Liberty	0.53 lb ai/a		29 oz/a		D		
2 N-pak ams	2.5 % v/v		1.5 qt/a		D		
3 Fierce	0.166 lb ai/a		3.5 oz/a		21 EPP A		0 87 87 100
3 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		
3 2,4-D	1 lb ai/a		32 oz/a		21 EPP A		
3 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A		
3 Liberty	0.53 lb ai/a		29 oz/a		C		
3 N-pak ams	2.5 % v/v		1.5 qt/a		C		
3 Liberty	0.53 lb ai/a		29 oz/a		D		
3 N-pak ams	2.5 % v/v		1.5 qt/a		D		
4 Valor XLT @ 3.5 oz							7 97 85 100
4 Valor SX	0.0653 lb ai/a		2.05 oz/a		21 EPP A		
4 Classic	0.0227 lb ai/a		1.45 oz/a		21 EPP A		
4 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		
4 2,4-D	1 lb ai/a		32 oz/a		21 EPP A		
4 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A		
4 Liberty	0.53 lb ai/a		29 oz/a		V-2 B		
4 Zidua	0.106 lb ai/a		2 oz/a		V-2 B		
4 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B		
4 Liberty	0.53 lb ai/a		29 oz/a		D		
4 N-pak ams	2.5 % v/v		1.5 qt/a		D		
5 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		4 100 75 100
5 2,4-D	1 lb ai/a		32 oz/a		21 EPP A		
5 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A		
5 Liberty	0.53 lb ai/a		29 oz/a		V-2 B		
5 Prefix	1.32 lb ai/a		2 pt/a		V-2 B		
5 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B		
5 Liberty	0.53 lb ai/a		29 oz/a		C		
5 Warrant	1.13 lb ai/a		3 pt/a		C		
5 N-pak ams	2.5 % v/v		1.5 qt/a		C		



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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code		GLXMA	GLXMA	GLXMA
BBCH Scale		BSOY	BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max	Glycine max
Crop Name		Soybean	Soybean	Soybean
Rating Date		6/17/2014	6/17/2014	6/17/2014
Rating Type		PHYGEN	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		61 13	61 13	61 13
Trt-Eval Interval				
Plant-Eval Interval		43 DP-1	43 DP-1	43 DP-1
Days After Emergence		33 DE-1	33 DE-1	33 DE-1
Number of Decimals		0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	19	20
6 OpTill	0.085 lb ai/a	2 oz/a			21 EPP A		0	95	77	100
6 Outlook	0.47 lb ai/a	10 oz/a			21 EPP A					
6 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
6 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
6 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
6 Liberty	0.53 lb ai/a	29 oz/a				C				
6 N-pak ams	2.5 % v/v	1.5 qt/a				C				
6 Liberty	0.53 lb ai/a	29 oz/a				D				
6 N-pak ams	2.5 % v/v	1.5 qt/a				D				
7 Envive @ 4 oz							0	100	87	100
7 Valor SX	0.0714 lb ai/a	2.24 oz/a			21 EPP A					
7 Classic	0.0228 lb ai/a	1.46 oz/a			21 EPP A					
7 Thifensulfuron	0.00716 lb ai/a	0.229 oz/a			21 EPP A					
7 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
7 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
7 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
7 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
7 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
7 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
7 Liberty	0.53 lb ai/a	29 oz/a				D				
7 N-pak ams	2.5 % v/v	1.5 qt/a				D				
8 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A		0	100	78	100
8 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
8 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
8 Liberty	0.53 lb ai/a	29 oz/a			V-2	B				
8 Outlook	0.656 lb ai/a	14 oz/a			V-2	B				
8 N-pak ams	2.5 % v/v	1.5 qt/a			V-2	B				
8 Liberty	0.53 lb ai/a	29 oz/a				C				
8 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 SP 1171	224 g ai/ha	12.8 oz/a			21 EPP A		1	87	90	83
9 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
9 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
9 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
9 Liberty	0.53 lb ai/a	29 oz/a				C				
9 N-pak ams	2.5 % v/v	1.5 qt/a				C				
9 Liberty	0.53 lb ai/a	29 oz/a				D				
9 N-pak ams	2.5 % v/v	1.5 qt/a				D				
10 SP 1171	448 g ai/ha	25.6 oz/a			21 EPP A		1	85	73	83
10 Roundup Power Max	1.1 lb ae/a	31.3 oz/a			21 EPP A					
10 2,4-D	1 lb ai/a	32 oz/a			21 EPP A					
10 N-pak ams	2.5 % v/v	1.5 qt/a			21 EPP A					
10 Liberty	0.53 lb ai/a	29 oz/a				C				
10 N-pak ams	2.5 % v/v	1.5 qt/a				C				
10 Liberty	0.53 lb ai/a	29 oz/a				D				
10 N-pak ams	2.5 % v/v	1.5 qt/a				D				

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code		GLXMA	GLXMA	GLXMA
BBCH Scale		BSOY	BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max	Glycine max
Crop Name		Soybean	Soybean	Soybean
Rating Date		6/17/2014	6/17/2014	6/17/2014
Rating Type		PHYGEN	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		61 13	61 13	61 13
Trt-Eval Interval				
Plant-Eval Interval		43 DP-1	43 DP-1	43 DP-1
Days After Emergence		33 DE-1	33 DE-1	33 DE-1
Number of Decimals		0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	19	20
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		15	82	82	97
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A					
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
11	Liberty	0.53 lb ai/a		29 oz/a			C				
11	N-pak ams	2.5 % v/v		1.5 qt/a			C				
11	Liberty	0.53 lb ai/a		29 oz/a			D				
11	N-pak ams	2.5 % v/v		1.5 qt/a			D				
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		7	83	80	93
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
12	Liberty	0.53 lb ai/a		29 oz/a			C				
12	N-pak ams	2.5 % v/v		1.5 qt/a			C				
12	Liberty	0.53 lb ai/a		29 oz/a			D				
12	N-pak ams	2.5 % v/v		1.5 qt/a			D				
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		5	80	80	98
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
13	Liberty	0.53 lb ai/a		29 oz/a			C				
13	N-pak ams	2.5 % v/v		1.5 qt/a			C				
13	Liberty	0.53 lb ai/a		29 oz/a			D				
13	N-pak ams	2.5 % v/v		1.5 qt/a			D				
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		3	80	77	83
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
14	MSO	1 % v/v		1.2 pt/a		21 EPP A					
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
14	Liberty	0.53 lb ai/a		29 oz/a			C				
14	N-pak ams	2.5 % v/v		1.5 qt/a			C				
14	Liberty	0.53 lb ai/a		29 oz/a			D				
14	N-pak ams	2.5 % v/v		1.5 qt/a			D				
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		0	80	80	93
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
15	MSO	1 % v/v		1.2 pt/a		21 EPP A					
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
15	Liberty	0.53 lb ai/a		29 oz/a			C				
15	N-pak ams	2.5 % v/v		1.5 qt/a			C				
15	Liberty	0.53 lb ai/a		29 oz/a			D				
15	N-pak ams	2.5 % v/v		1.5 qt/a			D				

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code		GLXMA	GLXMA	GLXMA
BBCH Scale		BSOY	BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max	Glycine max
Crop Name		Soybean	Soybean	Soybean
Rating Date		6/17/2014	6/17/2014	6/17/2014
Rating Type		PHYGEN	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		61 13	61 13	61 13
Trt-Eval Interval				
Plant-Eval Interval		43 DP-1	43 DP-1	43 DP-1
Days After Emergence		33 DE-1	33 DE-1	33 DE-1
Number of Decimals		0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	17	18	19	20
16 Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A		0	82	75	82
16 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
16 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
16 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
16 Liberty	0.53 lb ai/a		29 oz/a		C					
16 N-pak ams	2.5 % v/v		1.5 qt/a		C					
16 Liberty	0.53 lb ai/a		29 oz/a		D					
16 N-pak ams	2.5 % v/v		1.5 qt/a		D					
17 Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		0	80	77	100
17 Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
17 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
17 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
17 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
17 Liberty	0.53 lb ai/a		29 oz/a		C					
17 N-pak ams	2.5 % v/v		1.5 qt/a		C					
17 Liberty	0.53 lb ai/a		29 oz/a		D					
17 N-pak ams	2.5 % v/v		1.5 qt/a		D					
18 Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		1	77	77	100
18 Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A					
18 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
18 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
18 MSO	1 % v/v		1.2 pt/a		21 EPP A					
18 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
18 Liberty	0.53 lb ai/a		29 oz/a		C					
18 N-pak ams	2.5 % v/v		1.5 qt/a		C					
18 Liberty	0.53 lb ai/a		29 oz/a		D					
18 N-pak ams	2.5 % v/v		1.5 qt/a		D					
19 Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		8	85	73	100
19 Callisto	0.094 lb ai/a		3 oz/a		21 EPP A					
19 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
19 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
19 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
19 Liberty	0.53 lb ai/a		29 oz/a		C					
19 N-pak ams	2.5 % v/v		1.5 qt/a		C					
19 Liberty	0.53 lb ai/a		29 oz/a		D					
19 N-pak ams	2.5 % v/v		1.5 qt/a		D					
20 Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		15	88	72	97
20 Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A					
20 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
20 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
20 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
20 Liberty	0.53 lb ai/a		29 oz/a		C					
20 N-pak ams	2.5 % v/v		1.5 qt/a		C					
20 Liberty	0.53 lb ai/a		29 oz/a		D					
20 N-pak ams	2.5 % v/v		1.5 qt/a		D					

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code		GLXMA	GLXMA	GLXMA
BBCH Scale		BSOY	BSOY	BSOY
Crop Scientific Name		Glycine max	Glycine max	Glycine max
Crop Name		Soybean	Soybean	Soybean
Rating Date		6/17/2014	6/17/2014	6/17/2014
Rating Type		PHYGEN	CONTRO	CONTRO
Rating Unit		%	%	%
Number of Subsamples		1	1	1
Days After First/Last Applic.		61 13	61 13	61 13
Trt-Eval Interval				
Plant-Eval Interval		43 DP-1	43 DP-1	43 DP-1
Days After Emergence		33 DE-1	33 DE-1	33 DE-1
Number of Decimals		0	0	0

Trt Treatment	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	17	18	19	20
21 Spartan	0.156 lb ai/a		5 oz/a	21 EPP A		20	88	73	100
21 Balance Pro	0.094 lb ai/a		3 oz/a	21 EPP A					
21 Sencor 75DF	0.375 lb ai/a		8 oz/a	21 EPP A					
21 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
21 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
21 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
21 Liberty	0.53 lb ai/a	29 oz/a			C				
21 N-pak ams	2.5 % v/v	1.5 qt/a			C				
21 Liberty	0.53 lb ai/a	29 oz/a			D				
21 N-pak ams	2.5 % v/v	1.5 qt/a			D				
22 Sencor DF	0.56 lb ai/a	12 oz/a				7	90	77	92
22 Dual II Magnum	1.24 lb ai/a	1.3 pt/a							
22 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
22 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
22 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
22 Liberty	0.53 lb ai/a	29 oz/a			C				
22 N-pak ams	2.5 % v/v	1.5 qt/a			C				
22 Liberty	0.53 lb ai/a	29 oz/a			D				
22 N-pak ams	2.5 % v/v	1.5 qt/a			D				
LSD (P=.05)						8.1	9.7	14.9	12.6
Standard Deviation						4.9	5.9	9.0	7.7
CV						115.46	6.79	11.24	8.15
Bartlett's X2						15.265	15.041	18.929	11.173
P(Bartlett's X2)						0.227	0.448	0.526	0.344
Replicate F						0.254	4.071	2.918	4.848
Replicate Prob(F)						0.7765	0.0242	0.0651	0.0128
Treatment F						4.192	4.621	1.895	4.080
Treatment Prob(F)						0.0001	0.0001	0.0387	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	POLPY	ERICA	SETFA	AMBTR						
Pest Scientific Name	Persicaria pen>	Conyza canad>	Setaria faberi	Ambrosia trifi>						
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Giant ragweed						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA						
BBCH Scale	BSOY	BSOY	BSOY	BSOY						
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max						
Crop Name	Soybean	Soybean	Soybean	Soybean						
Rating Date	6/17/2014	6/17/2014	7/7/2014	7/7/2014						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	61 13	61 13	81 10	81 10						
Trt-Eval Interval										
Plant-Eval Interval	43 DP-1	43 DP-1	63 DP-1	63 DP-1						
Days After Emergence	33 DE-1	33 DE-1	53 DE-1	53 DE-1						
Number of Decimals	0	0								
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21	22	23	24
1 UTC							67	83	95.0	100.0
2 Authority First	0.284 lb ai/a		6.5 oz/a		21 EPP A		93	100	95.0	100.0
2 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
2 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
2 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
2 Liberty	0.53 lb ai/a		29 oz/a		C					
2 N-pak ams	2.5 % v/v		1.5 qt/a		C					
2 Liberty	0.53 lb ai/a		29 oz/a		D					
2 N-pak ams	2.5 % v/v		1.5 qt/a		D					
3 Fierce	0.166 lb ai/a		3.5 oz/a		21 EPP A		93	100	93.3	100.0
3 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
3 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
3 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
3 Liberty	0.53 lb ai/a		29 oz/a		C					
3 N-pak ams	2.5 % v/v		1.5 qt/a		C					
3 Liberty	0.53 lb ai/a		29 oz/a		D					
3 N-pak ams	2.5 % v/v		1.5 qt/a		D					
4 Valor XLT @ 3.5 oz							100	100	100.0	100.0
4 Valor SX	0.0653 lb ai/a		2.05 oz/a		21 EPP A					
4 Classic	0.0227 lb ai/a		1.45 oz/a		21 EPP A					
4 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
4 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
4 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
4 Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
4 Zidua	0.106 lb ai/a		2 oz/a		V-2 B					
4 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
4 Liberty	0.53 lb ai/a		29 oz/a		D					
4 N-pak ams	2.5 % v/v		1.5 qt/a		D					
5 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		98	100	89.0	40.0
5 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
5 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
5 Liberty	0.53 lb ai/a		29 oz/a		V-2 B					
5 Prefix	1.32 lb ai/a		2 pt/a		V-2 B					
5 N-pak ams	2.5 % v/v		1.5 qt/a		V-2 B					
5 Liberty	0.53 lb ai/a		29 oz/a		C					
5 Warrant	1.13 lb ai/a		3 pt/a		C					
5 N-pak ams	2.5 % v/v		1.5 qt/a		C					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canad>	Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	6/17/2014	6/17/2014	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	61 13	61 13	81 10	81 10
Trt-Eval Interval				
Plant-Eval Interval	43 DP-1	43 DP-1	63 DP-1	63 DP-1
Days After Emergence	33 DE-1	33 DE-1	53 DE-1	53 DE-1
Number of Decimals	0	0		

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21	22	23	24
6 OpTill	0.085 lb ai/a		2 oz/a		21 EPP A		100	100	100.0	100.0
6 Outlook	0.47 lb ai/a		10 oz/a		21 EPP A					
6 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
6 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
6 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
6 Liberty	0.53 lb ai/a		29 oz/a			C				
6 N-pak ams	2.5 % v/v		1.5 qt/a			C				
6 Liberty	0.53 lb ai/a		29 oz/a			D				
6 N-pak ams	2.5 % v/v		1.5 qt/a			D				
7 Envive @ 4 oz							100	100	99.7	100.0
7 Valor SX	0.0714 lb ai/a		2.24 oz/a		21 EPP A					
7 Classic	0.0228 lb ai/a		1.46 oz/a		21 EPP A					
7 Thifensulfuron	0.00716 lb ai/a		0.229 oz/a		21 EPP A					
7 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
7 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
7 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
7 Liberty	0.53 lb ai/a		29 oz/a		V-2	B				
7 Outlook	0.656 lb ai/a		14 oz/a		V-2	B				
7 N-pak ams	2.5 % v/v		1.5 qt/a		V-2	B				
7 Liberty	0.53 lb ai/a		29 oz/a			D				
7 N-pak ams	2.5 % v/v		1.5 qt/a			D				
8 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		100	100	91.7	40.0
8 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
8 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
8 Liberty	0.53 lb ai/a		29 oz/a		V-2	B				
8 Outlook	0.656 lb ai/a		14 oz/a		V-2	B				
8 N-pak ams	2.5 % v/v		1.5 qt/a		V-2	B				
8 Liberty	0.53 lb ai/a		29 oz/a			C				
8 N-pak ams	2.5 % v/v		1.5 qt/a			C				
9 SP 1171	224 g ai/ha		12.8 oz/a		21 EPP A		60	97	98.7	100.0
9 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
9 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
9 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
9 Liberty	0.53 lb ai/a		29 oz/a			C				
9 N-pak ams	2.5 % v/v		1.5 qt/a			C				
9 Liberty	0.53 lb ai/a		29 oz/a			D				
9 N-pak ams	2.5 % v/v		1.5 qt/a			D				
10 SP 1171	448 g ai/ha		25.6 oz/a		21 EPP A		80	100	100.0	100.0
10 Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
10 2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
10 N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
10 Liberty	0.53 lb ai/a		29 oz/a			C				
10 N-pak ams	2.5 % v/v		1.5 qt/a			C				
10 Liberty	0.53 lb ai/a		29 oz/a			D				
10 N-pak ams	2.5 % v/v		1.5 qt/a			D				

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canad>	Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	6/17/2014	6/17/2014	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	61 13	61 13	81 10	81 10
Trt-Eval Interval				
Plant-Eval Interval	43 DP-1	43 DP-1	63 DP-1	63 DP-1
Days After Emergence	33 DE-1	33 DE-1	53 DE-1	53 DE-1
Number of Decimals	0	0		

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	21	22	23	24	
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		97		100	95.0	100.0
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A						
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
11	Liberty	0.53 lb ai/a		29 oz/a			C					
11	N-pak ams	2.5 % v/v		1.5 qt/a			C					
11	Liberty	0.53 lb ai/a		29 oz/a			D					
11	N-pak ams	2.5 % v/v		1.5 qt/a			D					
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		87		100	91.7	100.0
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
12	Liberty	0.53 lb ai/a		29 oz/a			C					
12	N-pak ams	2.5 % v/v		1.5 qt/a			C					
12	Liberty	0.53 lb ai/a		29 oz/a			D					
12	N-pak ams	2.5 % v/v		1.5 qt/a			D					
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		98		100	100.0	100.0
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A						
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
13	Liberty	0.53 lb ai/a		29 oz/a			C					
13	N-pak ams	2.5 % v/v		1.5 qt/a			C					
13	Liberty	0.53 lb ai/a		29 oz/a			D					
13	N-pak ams	2.5 % v/v		1.5 qt/a			D					
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		88		100	96.7	100.0
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A						
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
14	MSO	1 % v/v		1.2 pt/a		21 EPP A						
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
14	Liberty	0.53 lb ai/a		29 oz/a			C					
14	N-pak ams	2.5 % v/v		1.5 qt/a			C					
14	Liberty	0.53 lb ai/a		29 oz/a			D					
14	N-pak ams	2.5 % v/v		1.5 qt/a			D					
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		93		100	96.7	100.0
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A						
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A						
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A						
15	MSO	1 % v/v		1.2 pt/a		21 EPP A						
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A						
15	Liberty	0.53 lb ai/a		29 oz/a			C					
15	N-pak ams	2.5 % v/v		1.5 qt/a			C					
15	Liberty	0.53 lb ai/a		29 oz/a			D					
15	N-pak ams	2.5 % v/v		1.5 qt/a			D					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canaden>	Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	6/17/2014	6/17/2014	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	61 13	61 13	81 10	81 10
Trt-Eval Interval				
Plant-Eval Interval	43 DP-1	43 DP-1	63 DP-1	63 DP-1
Days After Emergence	33 DE-1	33 DE-1	53 DE-1	53 DE-1
Number of Decimals	0	0		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	21	22	23	24
16	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A		73	100	96.7	96.7
16	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
16	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
16	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
16	Liberty	0.53 lb ai/a		29 oz/a		C					
16	N-pak ams	2.5 % v/v		1.5 qt/a		C					
16	Liberty	0.53 lb ai/a		29 oz/a		D					
16	N-pak ams	2.5 % v/v		1.5 qt/a		D					
17	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		90	100	98.3	100.0
17	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A					
17	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
17	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
17	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
17	Liberty	0.53 lb ai/a		29 oz/a		C					
17	N-pak ams	2.5 % v/v		1.5 qt/a		C					
17	Liberty	0.53 lb ai/a		29 oz/a		D					
17	N-pak ams	2.5 % v/v		1.5 qt/a		D					
18	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		77	100	95.0	100.0
18	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A					
18	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
18	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
18	MSO	1 % v/v		1.2 pt/a		21 EPP A					
18	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
18	Liberty	0.53 lb ai/a		29 oz/a		C					
18	N-pak ams	2.5 % v/v		1.5 qt/a		C					
18	Liberty	0.53 lb ai/a		29 oz/a		D					
18	N-pak ams	2.5 % v/v		1.5 qt/a		D					
19	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		93	100	99.3	100.0
19	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A					
19	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
19	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
19	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
19	Liberty	0.53 lb ai/a		29 oz/a		C					
19	N-pak ams	2.5 % v/v		1.5 qt/a		C					
19	Liberty	0.53 lb ai/a		29 oz/a		D					
19	N-pak ams	2.5 % v/v		1.5 qt/a		D					
20	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		93	100	96.0	100.0
20	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A					
20	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A					
20	2,4-D	1 lb ai/a		32 oz/a		21 EPP A					
20	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A					
20	Liberty	0.53 lb ai/a		29 oz/a		C					
20	N-pak ams	2.5 % v/v		1.5 qt/a		C					
20	Liberty	0.53 lb ai/a		29 oz/a		D					
20	N-pak ams	2.5 % v/v		1.5 qt/a		D					



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canaden>	Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Giant ragweed
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Rating Date	6/17/2014	6/17/2014	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	61 13	61 13	81 10	81 10
Trt-Eval Interval				
Plant-Eval Interval	43 DP-1	43 DP-1	63 DP-1	63 DP-1
Days After Emergence	33 DE-1	33 DE-1	53 DE-1	53 DE-1
Number of Decimals	0	0		

Trt Treatment	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	21	22	23	24
21 Spartan	0.156 lb ai/a	5 oz/a		21 EPP A		93	100	93.3	100.0
21 Balance Pro	0.094 lb ai/a	3 oz/a		21 EPP A					
21 Sencor 75DF	0.375 lb ai/a	8 oz/a		21 EPP A					
21 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
21 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
21 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
21 Liberty	0.53 lb ai/a	29 oz/a			C				
21 N-pak ams	2.5 % v/v	1.5 qt/a			C				
21 Liberty	0.53 lb ai/a	29 oz/a			D				
21 N-pak ams	2.5 % v/v	1.5 qt/a			D				
22 Sencor DF	0.56 lb ai/a	12 oz/a				100	100	100.0	100.0
22 Dual II Magnum	1.24 lb ai/a	1.3 pt/a							
22 Roundup Power Max	1.1 lb ae/a	31.3 oz/a		21 EPP A					
22 2,4-D	1 lb ai/a	32 oz/a		21 EPP A					
22 N-pak ams	2.5 % v/v	1.5 qt/a		21 EPP A					
22 Liberty	0.53 lb ai/a	29 oz/a			C				
22 N-pak ams	2.5 % v/v	1.5 qt/a			C				
22 Liberty	0.53 lb ai/a	29 oz/a			D				
22 N-pak ams	2.5 % v/v	1.5 qt/a			D				
LSD (P=.05)						18.5	10.4	8.30	5.48
Standard Deviation						11.2	6.3	5.03	3.32
CV						12.51	6.36	5.22	3.52
Bartlett's X2						17.201	3.779	28.404	0.676
P(Bartlett's X2)						0.373	0.052	0.028*	0.713
Replicate F						3.900	0.800	1.294	0.137
Replicate Prob(F)						0.0280	0.4559	0.2849	0.8721
Treatment F						3.128	0.973	1.238	84.373
Treatment Prob(F)						0.0008	0.5120	0.2712	0.0001

# The Ohio State University

Pest Type	W Weed	W Weed
Pest Code	POLPY	ERICA
Pest Scientific Name	Persicaria pen>	Conyza canad>
Pest Name	Pennsylvania s>	Canada horsewe>
Crop Code	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	81 10	81 10
Trt-Eval Interval		
Plant-Eval Interval	63 DP-1	63 DP-1
Days After Emergence	53 DE-1	53 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	25	26	27
1	UTC							100.0	100.0	
2	Authority First	0.284 lb ai/a		6.5 oz/a		21 EPP A		100.0	100.0	
2	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
2	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
2	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
2	Liberty	0.53 lb ai/a		29 oz/a			C			
2	N-pak ams	2.5 % v/v		1.5 qt/a			C			
2	Liberty	0.53 lb ai/a		29 oz/a			D			
2	N-pak ams	2.5 % v/v		1.5 qt/a			D			
3	Fierce	0.166 lb ai/a		3.5 oz/a		21 EPP A		96.7	98.3	
3	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
3	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
3	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
3	Liberty	0.53 lb ai/a		29 oz/a			C			
3	N-pak ams	2.5 % v/v		1.5 qt/a			C			
3	Liberty	0.53 lb ai/a		29 oz/a			D			
3	N-pak ams	2.5 % v/v		1.5 qt/a			D			
4	Valor XLT @ 3.5 oz							100.0	100.0	
4	Valor SX	0.0653 lb ai/a		2.05 oz/a		21 EPP A				
4	Classic	0.0227 lb ai/a		1.45 oz/a		21 EPP A				
4	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
4	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
4	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
4	Liberty	0.53 lb ai/a		29 oz/a		V-2	B			
4	Zidua	0.106 lb ai/a		2 oz/a		V-2	B			
4	N-pak ams	2.5 % v/v		1.5 qt/a		V-2	B			
4	Liberty	0.53 lb ai/a		29 oz/a			D			
4	N-pak ams	2.5 % v/v		1.5 qt/a			D			
5	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		100.0	100.0	
5	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
5	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
5	Liberty	0.53 lb ai/a		29 oz/a		V-2	B			
5	Prefix	1.32 lb ai/a		2 pt/a		V-2	B			
5	N-pak ams	2.5 % v/v		1.5 qt/a		V-2	B			
5	Liberty	0.53 lb ai/a		29 oz/a			C			
5	Warrant	1.13 lb ai/a		3 pt/a			C			
5	N-pak ams	2.5 % v/v		1.5 qt/a			C			

# The Ohio State University

Pest Type	W Weed	W Weed
Pest Code	POLPY	ERICA
Pest Scientific Name	Persicaria pen>	Conyza canad>
Pest Name	Pennsylvania s>	Canada horsewe>
Crop Code	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	81 10	81 10
Trt-Eval Interval		
Plant-Eval Interval	63 DP-1	63 DP-1
Days After Emergence	53 DE-1	53 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	25	26	27
6	OpTill	0.085 lb ai/a		2 oz/a		21 EPP A		100.0		100.0
6	Outlook	0.47 lb ai/a		10 oz/a		21 EPP A				
6	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
6	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
6	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
6	Liberty	0.53 lb ai/a		29 oz/a			C			
6	N-pak ams	2.5 % v/v		1.5 qt/a			C			
6	Liberty	0.53 lb ai/a		29 oz/a			D			
6	N-pak ams	2.5 % v/v		1.5 qt/a			D			
7	Envive @ 4 oz							100.0		100.0
7	Valor SX	0.0714 lb ai/a		2.24 oz/a		21 EPP A				
7	Classic	0.0228 lb ai/a		1.46 oz/a		21 EPP A				
7	Thifensulfuron	0.00716 lb ai/a		0.229 oz/a		21 EPP A				
7	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
7	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
7	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
7	Liberty	0.53 lb ai/a		29 oz/a		V-2	B			
7	Outlook	0.656 lb ai/a		14 oz/a		V-2	B			
7	N-pak ams	2.5 % v/v		1.5 qt/a		V-2	B			
7	Liberty	0.53 lb ai/a		29 oz/a			D			
7	N-pak ams	2.5 % v/v		1.5 qt/a			D			
8	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A		93.3		100.0
8	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
8	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
8	Liberty	0.53 lb ai/a		29 oz/a		V-2	B			
8	Outlook	0.656 lb ai/a		14 oz/a		V-2	B			
8	N-pak ams	2.5 % v/v		1.5 qt/a		V-2	B			
8	Liberty	0.53 lb ai/a		29 oz/a			C			
8	N-pak ams	2.5 % v/v		1.5 qt/a			C			
9	SP 1171	224 g ai/ha		12.8 oz/a		21 EPP A		90.0		100.0
9	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
9	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
9	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
9	Liberty	0.53 lb ai/a		29 oz/a			C			
9	N-pak ams	2.5 % v/v		1.5 qt/a			C			
9	Liberty	0.53 lb ai/a		29 oz/a			D			
9	N-pak ams	2.5 % v/v		1.5 qt/a			D			
10	SP 1171	448 g ai/ha		25.6 oz/a		21 EPP A		96.7		100.0
10	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
10	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
10	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
10	Liberty	0.53 lb ai/a		29 oz/a			C			
10	N-pak ams	2.5 % v/v		1.5 qt/a			C			
10	Liberty	0.53 lb ai/a		29 oz/a			D			
10	N-pak ams	2.5 % v/v		1.5 qt/a			D			

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Pest Type	W Weed	W Weed
Pest Code	POLPY	ERICA
Pest Scientific Name	Persicaria pen>	Conyza canaden>
Pest Name	Pennsylvania s>	Canada horsewe>
Crop Code	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	81 10	81 10
Trt-Eval Interval		
Plant-Eval Interval	63 DP-1	63 DP-1
Days After Emergence	53 DE-1	53 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	25	26	27
11	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A		90.0		100.0
11	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A				
11	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
11	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
11	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
11	Liberty	0.53 lb ai/a		29 oz/a			C			
11	N-pak ams	2.5 % v/v		1.5 qt/a			C			
11	Liberty	0.53 lb ai/a		29 oz/a			D			
11	N-pak ams	2.5 % v/v		1.5 qt/a			D			
12	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100.0		100.0
12	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
12	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
12	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
12	Liberty	0.53 lb ai/a		29 oz/a			C			
12	N-pak ams	2.5 % v/v		1.5 qt/a			C			
12	Liberty	0.53 lb ai/a		29 oz/a			D			
12	N-pak ams	2.5 % v/v		1.5 qt/a			D			
13	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A		100.0		100.0
13	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A				
13	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
13	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
13	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
13	Liberty	0.53 lb ai/a		29 oz/a			C			
13	N-pak ams	2.5 % v/v		1.5 qt/a			C			
13	Liberty	0.53 lb ai/a		29 oz/a			D			
13	N-pak ams	2.5 % v/v		1.5 qt/a			D			
14	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A		100.0		100.0
14	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A				
14	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
14	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
14	MSO	1 % v/v		1.2 pt/a		21 EPP A				
14	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
14	Liberty	0.53 lb ai/a		29 oz/a			C			
14	N-pak ams	2.5 % v/v		1.5 qt/a			C			
14	Liberty	0.53 lb ai/a		29 oz/a			D			
14	N-pak ams	2.5 % v/v		1.5 qt/a			D			
15	Sharpen	0.0445 lb ai/a		2 oz/a		21 EPP A		100.0		100.0
15	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A				
15	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
15	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
15	MSO	1 % v/v		1.2 pt/a		21 EPP A				
15	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
15	Liberty	0.53 lb ai/a		29 oz/a			C			
15	N-pak ams	2.5 % v/v		1.5 qt/a			C			
15	Liberty	0.53 lb ai/a		29 oz/a			D			
15	N-pak ams	2.5 % v/v		1.5 qt/a			D			

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Pest Type	W Weed	W Weed
Pest Code	POLPY	ERICA
Pest Scientific Name	Persicaria pen>	Conyza canadens>
Pest Name	Pennsylvania s>	Canada horsewe>
Crop Code	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	81 10	81 10
Trt-Eval Interval		
Plant-Eval Interval	63 DP-1	63 DP-1
Days After Emergence	53 DE-1	53 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	25	26	27
16	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A		96.7		100.0
16	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
16	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
16	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
16	Liberty	0.53 lb ai/a		29 oz/a			C			
16	N-pak ams	2.5 % v/v		1.5 qt/a			C			
16	Liberty	0.53 lb ai/a		29 oz/a			D			
16	N-pak ams	2.5 % v/v		1.5 qt/a			D			
17	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		100.0		100.0
17	Sencor DF	0.375 lb ai/a		8 oz/a		21 EPP A				
17	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
17	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
17	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
17	Liberty	0.53 lb ai/a		29 oz/a			C			
17	N-pak ams	2.5 % v/v		1.5 qt/a			C			
17	Liberty	0.53 lb ai/a		29 oz/a			D			
17	N-pak ams	2.5 % v/v		1.5 qt/a			D			
18	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		90.0		100.0
18	Sharpen	0.0334 lb ai/a		1.5 oz/a		21 EPP A				
18	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
18	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
18	MSO	1 % v/v		1.2 pt/a		21 EPP A				
18	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
18	Liberty	0.53 lb ai/a		29 oz/a			C			
18	N-pak ams	2.5 % v/v		1.5 qt/a			C			
18	Liberty	0.53 lb ai/a		29 oz/a			D			
18	N-pak ams	2.5 % v/v		1.5 qt/a			D			
19	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		83.3		100.0
19	Callisto	0.094 lb ai/a		3 oz/a		21 EPP A				
19	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
19	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
19	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
19	Liberty	0.53 lb ai/a		29 oz/a			C			
19	N-pak ams	2.5 % v/v		1.5 qt/a			C			
19	Liberty	0.53 lb ai/a		29 oz/a			D			
19	N-pak ams	2.5 % v/v		1.5 qt/a			D			
20	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		86.7		100.0
20	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A				
20	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
20	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
20	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
20	Liberty	0.53 lb ai/a		29 oz/a			C			
20	N-pak ams	2.5 % v/v		1.5 qt/a			C			
20	Liberty	0.53 lb ai/a		29 oz/a			D			
20	N-pak ams	2.5 % v/v		1.5 qt/a			D			

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Pest Type	W Weed	W Weed
Pest Code	POLPY	ERICA
Pest Scientific Name	Persicaria pen>	Conyza canaden>
Pest Name	Pennsylvania s>	Canada horsewe>
Crop Code	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Rating Date	7/7/2014	7/7/2014
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	81 10	81 10
Trt-Eval Interval		
Plant-Eval Interval	63 DP-1	63 DP-1
Days After Emergence	53 DE-1	53 DE-1
Number of Decimals		

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	25	26	27
21	Spartan	0.156 lb ai/a		5 oz/a		21 EPP A		93.3		100.0
21	Balance Pro	0.094 lb ai/a		3 oz/a		21 EPP A				
21	Sencor 75DF	0.375 lb ai/a		8 oz/a		21 EPP A				
21	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
21	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
21	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
21	Liberty	0.53 lb ai/a		29 oz/a			C			
21	N-pak ams	2.5 % v/v		1.5 qt/a			C			
21	Liberty	0.53 lb ai/a		29 oz/a			D			
21	N-pak ams	2.5 % v/v		1.5 qt/a			D			
22	Sencor DF	0.56 lb ai/a		12 oz/a				100.0		100.0
22	Dual II Magnum	1.24 lb ai/a		1.3 pt/a						
22	Roundup Power Max	1.1 lb ae/a		31.3 oz/a		21 EPP A				
22	2,4-D	1 lb ai/a		32 oz/a		21 EPP A				
22	N-pak ams	2.5 % v/v		1.5 qt/a		21 EPP A				
22	Liberty	0.53 lb ai/a		29 oz/a			C			
22	N-pak ams	2.5 % v/v		1.5 qt/a			C			
22	Liberty	0.53 lb ai/a		29 oz/a			D			
22	N-pak ams	2.5 % v/v		1.5 qt/a			D			
LSD (P=.05)								17.99	1.02	.
Standard Deviation								10.90	0.62	.
CV								11.33	0.62	.
Bartlett's X2								9.884	0.0	.
P(Bartlett's X2)								0.36	.	.
Replicate F								1.160	1.000	
Replicate Prob(F)								0.3232	0.3765	
Treatment F								0.676	1.000	
Treatment Prob(F)								0.8319	0.4832	

# The Ohio State University

## Liberty Link Soy efficacy and residual study in no-till soybeans

Trial ID: 14 NTLIBERTY      Location: Western Branch      Trial Year: 2014  
Protocol ID: 14 NTLIBERTY      Investigator: Dr. Mark M. Loux  
Project ID: HP14USAWGB      Study Director: Bryan Reeb  
Sponsor Contact: Dave Lamore, Bayer

### Pest Type

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

### Pest Code

LAMPU, Lamium purpureum, = US  
STEME, Stellaria media, = US  
RANAB, Ranunculus abortivus, = US  
CAPBP, Capsella bursa-pastoris, = US  
ERICA, Conyza canadensis, = US  
ERYRE, Erysimum repandum, = US  
SETFA, Setaria faberi, = US  
AMBTR, Ambrosia trifida, = US  
AMBEL, Ambrosia artemisiifolia, = US  
POLPY, Persicaria pensylvanica, = US  
CHEAL, Chenopodium album, = US

### Crop Code

GLXMA, BSOY, Glycine max, = US

### Rating Type

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

### Rating Unit

% = percent

### Plant-Eval Interval

-4 DP-1 = 1 GLXMA 5/5/2014  
15 DP-1 = 1 GLXMA 5/5/2014  
43 DP-1 = 1 GLXMA 5/5/2014  
63 DP-1 = 1 GLXMA 5/5/2014