

## USB Systems Study

Trial ID: 15USBSS      Location: Western Branch E-2      Trial Year: 2015  
 Protocol ID: 15USBSS      Investigator: Dr. Mark M. Loux  
 Project ID:      Study Director:  
                                  Sponsor Contact:

**General Trial Information**

Investigator: Dr. Mark M. Loux

**Trial Location**

City: South Charleston      Country: USA United States  
 State/Prov.: Ohio  
 Postal Code: 45368      Climate Zone: USWARM US Warm Continental

Latitude of LL Corner °: 39.85901 N  
 Longitude of LL Corner °: 83.66975 W

Conducted Under GLP: No  
 Conducted Under GEP: No

Investigator: Dr. Mark M. Loux

**Crop Description**

Crop 1: GLXMA      Glycine max  
 Variety: P 34T35L  
 Description: Pioneer LL

Soybean

Planting Rate, Unit: 175000 S/A  
 Depth, Unit: 0.75 IN  
 Row Spacing, Unit: 15 IN  
 Soil Temperature, Unit: 63 F  
 Soil Moisture: NORMAL normal, adequate  
 Seed Bed: MEDTRA medium/trashy

Planting Date: 5-14-2015  
 Planting Method: PLANTD planted  
 Planting Equipment: FE Field Equipment  
 Emergence Date: 5-22-2015

**Site and Design**

Treated Plot Width: 10 FT  
 Treated Plot Length: 40 FT  
 Treated Plot Area: 400 FT<sup>2</sup>      Treatments: 8  
 Replications: 4

Site Type: FIELD field  
 Experimental Unit: 1 PLOT plot

Study Design: RACOBL Randomized Complete Block (RCB)

**Field Prep./Maintenance:**

Spring Tillage was performed on 5-14-15 prior to planting.

**Soil Description**

Description Name: E-2  
 % OM: 3.35      Texture: SICL silty clay loam  
 pH: 6.35      Soil Name: Kokomo  
 CEC: 22.45      Fert. Level: G good  
 Soil Drainage: G good

**Application Description**

	A	B	C
Application Date:	5-7-2015	5-15-2015	6-11-2015
Appl. Start Time:	9:00 AM	9:00 AM	9:30 AM
Appl. Stop Time:	9:30 AM	9:05 AM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	7 EPP	PRE	POST
Application Placement:	BROFOL	BROSOI	BROFOL
Applied By:	Dobbels	Ackley	Dobbels
Air Temperature, Unit:	82 F	63 F	80 F
% Relative Humidity:	42	75	53
Wind Velocity, Unit:	8 MPH	3 MPH	8 MPH
Wind Direction:	S	E	WSW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	70 F	59 F	68 F
Soil Moisture:	MOIST	NORMAL	DRY
% Cloud Cover:	30	80	5
Next Moisture Occurred On:	5-11-2015	5-17-2015	6-12-2015
Time to Next Moisture, Unit:	4 DAY	2 DAY	1 DAY

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA	BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>			BBCH
<b>Stage Majority, Percent:</b>			13 100
<b>Height, Unit:</b>			3 IN
<b>Height Minimum, Maximum:</b>			3 4

**Application Equipment**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Appl. Equipment:</b>	10' AI XR	10' AI XR	10' AI XR
<b>Equipment Type:</b>	SPRBAC	SPRBAC	SPRBAC
<b>Operation Pressure, Unit:</b>	46 PSI	46 PSI	46 PSI
<b>Nozzle Type:</b>	AI XR	AI XR	AI XR
<b>Nozzle Size:</b>	110015	110015	110015
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	18 IN
<b>Boom Length, Unit:</b>	10 FT	10 FT	10 FT
<b>Boom Height, Unit:</b>	20 IN	20 IN	20 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA	15 GPA
<b>Mix Size, Unit:</b>	2 Liters	2 Liters	2 Liters
<b>Propellant:</b>	CO2	CO2	CO2

## USB Systems Study

Trial ID: 15USBSS Location: Western Branch E-2 Trial Year: 2015  
 Protocol ID: 15USBSS Investigator: Dr. Mark M. Loux  
 Project ID: Study Director:  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed					
Pest Code	AMARE	CHEAL	IPOHE					
Pest Scientific Name	Amaranthus ret>	Chenopodium al>	Ipomoea heder>					
Pest Name	Redroot pigweed	Common lambsqu>	Ivyleaf mornin>					
Rating Date	6-3-2015	6-3-2015	6-3-2015					
Collection Basis, Unit								
Number of Subsamples	1	1	1					
Days After First/Last Applic.	27 19	27 19	27 19					
Trt-Eval Interval								
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1					
Days After Emergence	12 DE-1	12 DE-1	12 DE-1					
Number of Decimals	0							
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3
1 No-Till Low Input						89 b	101.0 a	65.0 cde
1 Roundup PowerMax	32 oz/a		A	7 EPP				
1 2,4-D Amine	1 pt/a		A	7 EPP				
1 N PAK AMS	2.5 % v/v		A	7 EPP				
1 Liberty	29 oz/a		C	POST				
1 N PAK AMS	48 oz/a		C	POST				
2 NoTill High Input						100 a	100.0 a	83.8 ab
2 Roundup PowerMax	32 oz/a		A	7 EPP				
2 2,4-D Amine	1 pt/a		A	7 EPP				
2 Valor XLT 3.5 oz								
2 Valor SX	2.05 oz/a		A	7 EPP				
2 Classic	1.45 oz/a		A	7 EPP				
2 N PAK AMS	2.5 % v/v		A	7 EPP				
2 Liberty	29 oz/a		C	POST				
2 Warrant	1.5 qt/a		C	POST				
2 N PAK AMS	48 oz/a		C	POST				
3 Minimum Till Low Input						50 d	57.0 c	51.3 e
3 Liberty	29 oz/a		C	POST				
3 N PAK AMS	48 oz/a		C	POST				
4 Fall Plow Low Input						79 c	73.8 b	57.5 de
4 Liberty	29 oz/a		C	POST				
4 N PAK AMS	48 oz/a		C	POST				
5 Fall Plow High Input						100 a	98.8 a	72.5 bcd
5 Valor XLT 3.5 oz								
5 Valor SX	2.05 oz/a		B	PRE				
5 Classic	1.45 oz/a		B	PRE				
5 Liberty	29 oz/a		C	POST				
5 Warrant	1.5 qt/a		C	POST				
5 N PAK AMS	48 oz/a		C	POST				
6 Cover Crop Low Input						100 a	100.0 a	75.0 abc
6 Roundup PowerMax	32 oz/a		A	7 EPP				
6 2,4-D Amine	1 pt/a		A	7 EPP				
6 N PAK AMS	2.5 % v/v		A	7 EPP				
6 Liberty	29 oz/a		C	POST				
6 N PAK AMS	48 oz/a		C	POST				

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

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

Missing data estimates are included in columns: Yates=2,4

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMARE	CHEAL	IPOHE
Pest Scientific Name	Amaranthus ret>	Chenopodium al>	Ipomoea heder>
Pest Name	Redroot pigweed	Common lambsqu>	Ivyleaf mornin>
Rating Date	6-3-2015	6-3-2015	6-3-2015
Collection Basis, Unit			
Number of Subsamples	1	1	1
Days After First/Last Applic.	27 19	27 19	27 19
Trt-Eval Interval			
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	12 DE-1	12 DE-1	12 DE-1
Number of Decimals	0		
Trt Treatment	Other Other	Appl Appl	
No. Name	Rate Rate	Unit Code Description	1 2 3
7 Cover Crop Med. Input			100 a
7 Roundup PowerMax	32 oz/a	A 7 EPP	100.0 a
7 2,4-D Amine	1 pt/a	A 7 EPP	88.8 ab
7 Valor XLT 3.5 oz			
7 Valor SX	2.05 oz/a	A 7 EPP	
7 Classic	1.45 oz/a	A 7 EPP	
7 N PAK AMS	2.5 % v/v	A 7 EPP	
7 Liberty	29 oz/a	C POST	
7 N PAK AMS	48 oz/a	C POST	
8 Cover Crop High Input			100 a
8 Roundup PowerMax	32 oz/a	A 7 EPP	100.0 a
8 2,4-D Amine	1 pt/a	A 7 EPP	91.3 a
8 Valor XLT 3.5 oz			
8 Valor SX	2.05 oz/a	A 7 EPP	
8 Classic	1.45 oz/a	A 7 EPP	
8 N PAK AMS	2.5 % v/v	A 7 EPP	
8 Liberty	29 oz/a	C POST	
8 Warrant	1.5 qt/a	C POST	
8 N PAK AMS	48 oz/a	C POST	
LSD P=.05			9.3 7.78 16.73
Standard Deviation			6.3 5.26 11.38
CV			7.03 5.76 15.56
Grand Mean			89.7 91.31 73.13
Bartlett's X2			6.194 5.284 4.898
P(Bartlett's X2)			0.045* 0.071 0.672
Skewness			-1.8964* -1.8498* -0.4036
Kurtosis			3.3049* 2.1741* -0.5666
Replicate F			0.865 1.709 7.354
Replicate Prob(F)			0.4746 0.1991 0.0015
Treatment F			32.034 40.069 6.524
Treatment Prob(F)			0.0001 0.0001 0.0004

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMARE	AMARE
Pest Scientific Name	Abutilon theop>	Setaria faberi	Amaranthus ret>	Amaranthus ret>
Pest Name	velvetleaf	Giant foxtail	Redroot pigweed	Redroot pigweed
Rating Date	6-3-2015	6-3-2015	6-3-2015	6-29-2015
Collection Basis, Unit			0.5 M2	
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	27 19	27 19	27 19	53 18
Trt-Eval Interval				18 DA-C
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	46 DP-1
Days After Emergence	12 DE-1	12 DE-1	12 DE-1	38 DE-1
Number of Decimals			0	0

Trt Treatment No. Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	4	5	6	7
1 No-Till Low Input					93.8 ab	77.5 cd	3 b	85 b
1 Roundup PowerMax	32 oz/a		A	7 EPP				
1 2,4-D Amine	1 pt/a		A	7 EPP				
1 N PAK AMS	2.5 % v/v		A	7 EPP				
1 Liberty	29 oz/a		C	POST				
1 N PAK AMS	48 oz/a		C	POST				
2 NoTill High Input					98.8 a	82.5 bc	0 c	100 a
2 Roundup PowerMax	32 oz/a		A	7 EPP				
2 2,4-D Amine	1 pt/a		A	7 EPP				
2 Valor XLT 3.5 oz								
2 Valor SX	2.05 oz/a		A	7 EPP				
2 Classic	1.45 oz/a		A	7 EPP				
2 N PAK AMS	2.5 % v/v		A	7 EPP				
2 Liberty	29 oz/a		C	POST				
2 Warrant	1.5 qt/a		C	POST				
2 N PAK AMS	48 oz/a		C	POST				
3 Minimum Till Low Input					73.1 c	67.5 d	8 a	65 c
3 Liberty	29 oz/a		C	POST				
3 N PAK AMS	48 oz/a		C	POST				
4 Fall Plow Low Input					82.5 bc	86.3 abc	2 b	80 b
4 Liberty	29 oz/a		C	POST				
4 N PAK AMS	48 oz/a		C	POST				
5 Fall Plow High Input					100.0 a	90.0 ab	0 c	100 a
5 Valor XLT 3.5 oz								
5 Valor SX	2.05 oz/a		B	PRE				
5 Classic	1.45 oz/a		B	PRE				
5 Liberty	29 oz/a		C	POST				
5 Warrant	1.5 qt/a		C	POST				
5 N PAK AMS	48 oz/a		C	POST				
6 Cover Crop Low Input					96.3 a	83.8 abc	1 bc	89 ab
6 Roundup PowerMax	32 oz/a		A	7 EPP				
6 2,4-D Amine	1 pt/a		A	7 EPP				
6 N PAK AMS	2.5 % v/v		A	7 EPP				
6 Liberty	29 oz/a		C	POST				
6 N PAK AMS	48 oz/a		C	POST				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMARE	AMARE
Pest Scientific Name	Abutilon theop>	Setaria faberi	Amaranthus ret>	Amaranthus ret>
Pest Name	velvetleaf	Giant foxtail	Redroot pigweed	Redroot pigweed
Rating Date	6-3-2015	6-3-2015	6-3-2015	6-29-2015
Collection Basis, Unit			0.5 M2	
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	27 19	27 19	27 19	53 18
Trt-Eval Interval				18 DA-C
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	46 DP-1
Days After Emergence	12 DE-1	12 DE-1	12 DE-1	38 DE-1
Number of Decimals			0	0

Trt Treatment No. Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	4	5	6	7
7 Cover Crop Med. Input						100.0 a	90.0 ab	0 c	100 a
7 Roundup PowerMax	32 oz/a			A	7 EPP				
7 2,4-D Amine	1 pt/a			A	7 EPP				
7 Valor XLT 3.5 oz									
7 Valor SX	2.05 oz/a			A	7 EPP				
7 Classic	1.45 oz/a			A	7 EPP				
7 N PAK AMS	2.5 % v/v			A	7 EPP				
7 Liberty	29 oz/a			C	POST				
7 N PAK AMS	48 oz/a			C	POST				
8 Cover Crop High Input						98.8 a	93.8 a	0 c	100 a
8 Roundup PowerMax	32 oz/a			A	7 EPP				
8 2,4-D Amine	1 pt/a			A	7 EPP				
8 Valor XLT 3.5 oz									
8 Valor SX	2.05 oz/a			A	7 EPP				
8 Classic	1.45 oz/a			A	7 EPP				
8 N PAK AMS	2.5 % v/v			A	7 EPP				
8 Liberty	29 oz/a			C	POST				
8 Warrant	1.5 qt/a			C	POST				
8 N PAK AMS	48 oz/a			C	POST				
LSD P=.05						11.33	10.78	1.8	14.1
Standard Deviation						7.68	7.33	1.2	9.6
CV						8.27	8.74	66.63	10.7
Grand Mean						92.89	83.91	1.8	89.8
Bartlett's X2						14.586	9.298	11.812	3.879
P(Bartlett's X2)						0.012*	0.232	0.019*	0.275
Skewness						-1.9663*	-1.2731*	1.721*	-1.3007*
Kurtosis						3.0713*	2.1238*	2.0721*	0.4
Replicate F						2.318	3.735	3.286	1.901
Replicate Prob(F)						0.1064	0.0270	0.0409	0.1603
Treatment F						6.598	5.197	19.384	7.117
Treatment Prob(F)						0.0004	0.0015	0.0001	0.0002

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	ABUTH	AMBTR
Pest Scientific Name	Chenopodium al-	Setaria faberi	Abutilon theop>	Ambrosia trifi>
Pest Name	Common lambsqu>	Giant foxtail	velvetleaf	Giant ragweed
Rating Date	6-29-2015	6-29-2015	6-29-2015	6-29-2015
Collection Basis, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	53 18	53 18	53 18	53 18
Trt-Eval Interval				
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1
Number of Decimals				
Trt Treatment	Other	Other	Appl	Appl
No. Name	Rate	Rate	Unit	Code
Description	8	9	10	11
1 No-Till Low Input				
1 Roundup PowerMax	32 oz/a		A	7 EPP
1 2,4-D Amine	1 pt/a		A	7 EPP
1 N PAK AMS	2.5 % v/v		A	7 EPP
1 Liberty	29 oz/a		C	POST
1 N PAK AMS	48 oz/a		C	POST
2 NoTill High Input				
2 Roundup PowerMax	32 oz/a		A	7 EPP
2 2,4-D Amine	1 pt/a		A	7 EPP
2 Valor XLT 3.5 oz				
2 Valor SX	2.05 oz/a		A	7 EPP
2 Classic	1.45 oz/a		A	7 EPP
2 N PAK AMS	2.5 % v/v		A	7 EPP
2 Liberty	29 oz/a		C	POST
2 Warrant	1.5 qt/a		C	POST
2 N PAK AMS	48 oz/a		C	POST
3 Minimum Till Low Input				
3 Liberty	29 oz/a		C	POST
3 N PAK AMS	48 oz/a		C	POST
4 Fall Plow Low Input				
4 Liberty	29 oz/a		C	POST
4 N PAK AMS	48 oz/a		C	POST
5 Fall Plow High Input				
5 Valor XLT 3.5 oz				
5 Valor SX	2.05 oz/a		B	PRE
5 Classic	1.45 oz/a		B	PRE
5 Liberty	29 oz/a		C	POST
5 Warrant	1.5 qt/a		C	POST
5 N PAK AMS	48 oz/a		C	POST
6 Cover Crop Low Input				
6 Roundup PowerMax	32 oz/a		A	7 EPP
6 2,4-D Amine	1 pt/a		A	7 EPP
6 N PAK AMS	2.5 % v/v		A	7 EPP
6 Liberty	29 oz/a		C	POST
6 N PAK AMS	48 oz/a		C	POST

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	SETFA	ABUTH	AMBTR
Pest Scientific Name	Chenopodium al-	Setaria faberi	Abutilon theop>	Ambrosia trifi>
Pest Name	Common lambsqu>	Giant foxtail	velvetleaf	Giant ragweed
Rating Date	6-29-2015	6-29-2015	6-29-2015	6-29-2015
Collection Basis, Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	53 18	53 18	53 18	53 18
Trt-Eval Interval				
Plant-Eval Interval	46 DP-1	46 DP-1	46 DP-1	46 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1
Number of Decimals				

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	8	9	10	11
7 Cover Crop Med. Input						100.0 a	82.5 a	100.0 a	88.8 a
7 Roundup PowerMax	32 oz/a		A		7 EPP				
7 2,4-D Amine	1 pt/a		A		7 EPP				
7 Valor XLT 3.5 oz									
7 Valor SX	2.05 oz/a		A		7 EPP				
7 Classic	1.45 oz/a		A		7 EPP				
7 N PAK AMS	2.5 % v/v		A		7 EPP				
7 Liberty	29 oz/a		C		POST				
7 N PAK AMS	48 oz/a		C		POST				
8 Cover Crop High Input						100.0 a	87.5 a	100.0 a	97.5 a
8 Roundup PowerMax	32 oz/a		A		7 EPP				
8 2,4-D Amine	1 pt/a		A		7 EPP				
8 Valor XLT 3.5 oz									
8 Valor SX	2.05 oz/a		A		7 EPP				
8 Classic	1.45 oz/a		A		7 EPP				
8 N PAK AMS	2.5 % v/v		A		7 EPP				
8 Liberty	29 oz/a		C		POST				
8 Warrant	1.5 qt/a		C		POST				
8 N PAK AMS	48 oz/a		C		POST				
LSD P=.05						13.96	12.72	4.88	14.56
Standard Deviation						9.49	8.65	3.32	9.90
CV						10.42	10.37	3.39	11.04
Grand Mean						91.09	83.44	97.91	89.69
Bartlett's X2						9.318	4.667	1.288	6.073
P(Bartlett's X2)						0.054	0.701	0.863	0.531
Skewness						-1.5888*	-0.8203	-1.5082*	-0.9056*
Kurtosis						1.6397*	0.2364	0.6338	0.0408
Replicate F						1.211	3.465	3.209	3.707
Replicate Prob(F)						0.3300	0.0346	0.0439	0.0277
Treatment F						6.056	2.237	1.325	1.088
Treatment Prob(F)						0.0006	0.0726	0.2875	0.4056



Pest Type W Weed  
 Pest Code IPOHE  
 Pest Scientific Name Ipomoea hederata>  
 Pest Name Ivyleaf mornin>  
 Rating Date 6-29-2015  
 Collection Basis, Unit  
 Number of Subsamples 1  
 Days After First/Last Applic. 53 18  
 Trt-Eval Interval  
 Plant-Eval Interval 46 DP-1  
 Days After Emergence 38 DE-1  
 Number of Decimals

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	
	1 No-Till Low Input					78.8 a
	1 Roundup PowerMax	32 oz/a		A	7 EPP	
	1 2,4-D Amine	1 pt/a		A	7 EPP	
	1 N PAK AMS	2.5 % v/v		A	7 EPP	
	1 Liberty	29 oz/a		C	POST	
	1 N PAK AMS	48 oz/a		C	POST	
	2 NoTill High Input					93.8 a
	2 Roundup PowerMax	32 oz/a		A	7 EPP	
	2 2,4-D Amine	1 pt/a		A	7 EPP	
	2 Valor XLT 3.5 oz					
	2 Valor SX	2.05 oz/a		A	7 EPP	
	2 Classic	1.45 oz/a		A	7 EPP	
	2 N PAK AMS	2.5 % v/v		A	7 EPP	
	2 Liberty	29 oz/a		C	POST	
	2 Warrant	1.5 qt/a		C	POST	
	2 N PAK AMS	48 oz/a		C	POST	
	3 Minimum Till Low Input					72.5 a
	3 Liberty	29 oz/a		C	POST	
	3 N PAK AMS	48 oz/a		C	POST	
	4 Fall Plow Low Input					76.3 a
	4 Liberty	29 oz/a		C	POST	
	4 N PAK AMS	48 oz/a		C	POST	
	5 Fall Plow High Input					78.8 a
	5 Valor XLT 3.5 oz					
	5 Valor SX	2.05 oz/a		B	PRE	
	5 Classic	1.45 oz/a		B	PRE	
	5 Liberty	29 oz/a		C	POST	
	5 Warrant	1.5 qt/a		C	POST	
	5 N PAK AMS	48 oz/a		C	POST	
	6 Cover Crop Low Input					78.8 a
	6 Roundup PowerMax	32 oz/a		A	7 EPP	
	6 2,4-D Amine	1 pt/a		A	7 EPP	
	6 N PAK AMS	2.5 % v/v		A	7 EPP	
	6 Liberty	29 oz/a		C	POST	
	6 N PAK AMS	48 oz/a		C	POST	

Pest Type	W Weed
Pest Code	IPOHE
Pest Scientific Name	Ipomoea hederata>
Pest Name	Ivyleaf mornin>
Rating Date	6-29-2015
Collection Basis, Unit	
Number of Subsamples	1
Days After First/Last Applic.	53 18
Trt-Eval Interval	
Plant-Eval Interval	46 DP-1
Days After Emergence	38 DE-1
Number of Decimals	

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	
	7 Cover Crop Med. Input						82.5 a
	7 Roundup PowerMax	32 oz/a			A	7 EPP	
	7 2,4-D Amine	1 pt/a			A	7 EPP	
	7 Valor XLT 3.5 oz						
	7 Valor SX	2.05 oz/a			A	7 EPP	
	7 Classic	1.45 oz/a			A	7 EPP	
	7 N PAK AMS	2.5 % v/v			A	7 EPP	
	7 Liberty	29 oz/a			C	POST	
	7 N PAK AMS	48 oz/a			C	POST	
	8 Cover Crop High Input						88.8 a
	8 Roundup PowerMax	32 oz/a			A	7 EPP	
	8 2,4-D Amine	1 pt/a			A	7 EPP	
	8 Valor XLT 3.5 oz						
	8 Valor SX	2.05 oz/a			A	7 EPP	
	8 Classic	1.45 oz/a			A	7 EPP	
	8 N PAK AMS	2.5 % v/v			A	7 EPP	
	8 Liberty	29 oz/a			C	POST	
	8 Warrant	1.5 qt/a			C	POST	
	8 N PAK AMS	48 oz/a			C	POST	
	LSD P=.05						14.88
	Standard Deviation						10.12
	CV						12.45
	Grand Mean						81.25
	Bartlett's X2						7.852
	P(Bartlett's X2)						0.346
	Skewness						-0.5132
	Kurtosis						-0.6475
	Replicate F						1.994
	Replicate Prob(F)						0.1457
	Treatment F						1.866
	Treatment Prob(F)						0.1269

USB Systems Study

Trial ID: 15USBSS      Location: Western Branch E-2      Trial Year: 2015  
Protocol ID: 15USBSS      Investigator: Dr. Mark M. Loux  
Project ID:      Study Director:  
Sponsor Contact:

Pest Type

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

Pest Code

AMARE, *Amaranthus retroflexus*, = US

CHEAL, *Chenopodium album*, = US

IPOHE, *Ipomoea hederacea*, = US

ABUTH, *Abutilon theophrasti*, = US

SETFA, *Setaria faberi*, = US

AMBTR, *Ambrosia trifida*, = US

M2 = square meter

Plant-Eval Interval

20 DP-1 = 1 GLXMA 5-14-2015

46 DP-1 = 1 GLXMA 5-14-2015