

The Ohio State University

Liberty / Increased Liberty rates/ LL Soy / Efficacy, Phyto

Trial ID: HP16USAWGKUDL1 TD Number: LOCALCREATED Protocol Edition No.: 2.01
 Project ID: LOCAL_PROJ
 Project Number(s): 100 % TSS % 100 % LFGLY001
 Protocol Developer: Cotie, Arlene
 License User: Dr. Mark M. Loux

General Trial Information

Trial Status: A
Last change done by: Dr. Mark M. Loux
Protocol Edition No.: 2.01
Trial Status Date: 7.4.16
Date of last export: 15.8.16 12:07

TD Number(s): 1
 LOCALCREATED

Guidelines

License User: Dr. Mark M. Loux
Protocol Developer: Cotie, Arlene
Field Technician: EXTERN
Cooperator (Outside service): -
Farmer Name: -

Site and Design

State/Province: OHIO
Country: USA
Altitude (m): 331

Latitude, Longitude of Trial Corners

Lower Left
Latitude: 39.86016
Longitude: -83.6715
No. of Replicates: 3 **No. of Treatments:** 10 **No. of Plots:** 30
Plot Width: 2.033 **Plot Length:** 9.14 **Length/Width Unit:** m
Plot Area: 18.59
Unit: m2
Plot Descript. Basis/Unit: 1 PLOT
Site Type: FIELD
Tillage Type: CONTIL **Trial Design:** RACOBL
Most relevant weather station: OARDC Western Agricultural Sta
Distance/Unit: 304.8 M

Previous Crops and Agricultural Chemicals

Previous Crops **Year**
 ZEAMD C BCOR 2015

Soil Description

Soil Name: Celina
Texture: CL
% Organic Matter: 2
pH: 7 **Cation Exchange Capacity:** 11.5
Fertility Level: G
Soil Drainage: G

Crop Description

Crop 1: GLXMA **Discipline:** C **Crop Scale:** BSOY **Use Group:** P
 Glycine max (L.) MERR.
 Soybean
Variety: SC3325LL
Variety Characteristic: Seed Consultants LL
Seed/Planting Date: 25.5.16 **Seed/Plant Rate/Unit:** 432400 OTHER
Emergence Crop Date: 1.6.16
Seed Bag No.: BSOY
Row Spacing/Unit: 38.1 CM **Depth/Unit:** 2.54 CM
Planting Method: PLANTD
Seed Bed: MEDIUM
Planting Implement: FE
Soil Temperature/Unit: 19.44 C
Soil Moisture (at Planting): DRY

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Target Description

Target 1: SETFA **Discipline:** W **Target Scale:** BGRM
 Setaria faberi HERRM.
 Foxtail, giant

Target 2: ECHCG **Discipline:** W **Target Scale:** BGRM
 Echinochloa crus-galli (L.) P.
 Barnyardgrass, common

Target 3: AMBTR **Discipline:** W **Target Scale:** BDIC
 Ambrosia trifida L.
 Ragweed, giant

Target 4: CHEAL **Discipline:** W **Target Scale:** BDIC
 Chenopodium album L.
 Lambsquarters, common

Target 5: AMARE **Discipline:** W **Target Scale:** BDIC
 Amaranthus retroflexus L.
 Redroot pigweed

Target 6: ABUTH **Discipline:** W **Target Scale:** BDIC
 Abutilon theophrasti MEDIK.
 Velvetleaf

Target 7: SIDSP **Discipline:** W **Target Scale:** BDIC
 Sida spinosa L.
 Prickly sida / Teaweed

Application Description

	A	B	C	D
Application Date	25.5.16	20.6.16	28.6.16	
Interval to prev. Appl./Unit		26 DAYS	8 DAYS	
Application Timing	PREMCR	EAPOWE	MIPOWE	
Appl.Start - Time of Day	10:30	10:00	8:30	
Appl. Stop	10:45	10:15	9:00	
Time b. Appl./first Rain/Unit	4 DAY	1 DAY		
% Relative Humidity	47	68	72	
Air Temperature/Unit	26.1 C	27.2 C	21.1 C	
% Cloud Cover	75	66	0	
Wind Velocity/Unit	14.5 KPH	9.65 KPH	8.05 KPH	
Wind Direction/Degrees	SSW	WSW	NW	
Plant Condition	NORMAL	NORMAL	NORMAL	
Soil Temperature/Unit	18.89 C	22.7 C	22.22 C	
Soil Moisture	DRY	DRY	DAMP	
Soil Condition (surface)	FINE	FINE	FINE	
Problems with Application?	No	No	No	

Crop Stage at Application

	A		B		C		D	
	GLXMA	C BSOY	GLXMA	C BSOY	GLXMA	C BSOY	GLXMA	C BSOY
Crop 1/Disc./Scale								
Days after Emergence	-7		19		27			
Stage Majority/Percent			13 50		15 50			
Stage Minimum/Percent			14 50		15 50			
Majority Height/Unit			15.24 CM		22.86 CM			

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Target Stage at Application

	A		B		C		D	
Target 1/Disc./Scale	SETFA	W BGRM	SETFA	W BGRM	SETFA	W BGRM	SETFA	W BGRM
Stage Majority/Percent			15	100	23	100		
Stage Minimum/Percent			15	100	23	100		
Stage Maximum/Percent			15	100	23	100		
Majority Height/Unit			22.86	CM	40.64	CM		
Min/Max (Unit=Height Unit)			12.7	22.86	30.48	45.7		
Density/Unit					40	M2		
Target 2/Disc./Scale	ECHCG	W BGRM	ECHCG	W BGRM	ECHCG	W BGRM	ECHCG	W BGRM
Stage Majority/Percent			14	100	27	100		
Stage Minimum/Percent			14	100	27	100		
Stage Maximum/Percent			14	100	27	100		
Majority Height/Unit			10.16	CM	22.86	CM		
Min/Max (Unit=Height Unit)			10.16	12.7	12.7	27.94		
Density/Unit					70	M2		
Target 3/Disc./Scale	AMBTR	W BDIC	AMBTR	W BDIC	AMBTR	W BDIC	AMBTR	W BDIC
Stage Majority/Percent			19	100	19	100		
Stage Minimum/Percent			19	100	19	100		
Stage Maximum/Percent			19	100	19	100		
Majority Height/Unit			25.4	CM	40.64	CM		
Min/Max (Unit=Height Unit)			20.32	25.4	25.4	40.64		
Density/Unit					4	M2		
Target 4/Disc./Scale	CHEAL	W BDIC	CHEAL	W BDIC	CHEAL	W BDIC	CHEAL	W BDIC
Stage Majority/Percent			18	100	19	100		
Stage Minimum/Percent			18	100	19	100		
Stage Maximum/Percent			18	100	19	100		
Majority Height/Unit			5.08	CM	15.24	CM		
Min/Max (Unit=Height Unit)			2.54	5.08	10.16	22.86		
Density/Unit					4	M2		
Target 5/Disc./Scale	AMARE	W BDIC	AMARE	W BDIC	AMARE	W BDIC	AMARE	W BDIC
Stage Majority/Percent			14	100	19	100		
Stage Minimum/Percent			14	100	19	100		
Stage Maximum/Percent			14	100	19	100		
Majority Height/Unit			5.08	CM	20.32	CM		
Min/Max (Unit=Height Unit)			2.54	5.08	20.32	22.86		
Density/Unit					19	M2		
Target 6/Disc./Scale	ABUTH	W BDIC	ABUTH	W BDIC	ABUTH	W BDIC	ABUTH	W BDIC
Stage Majority/Percent			14	100				
Stage Minimum/Percent			14	100				
Stage Maximum/Percent			14	100				
Majority Height/Unit			7.62	CM				
Min/Max (Unit=Height Unit)			5.08	7.62				
Target 7/Disc./Scale	SIDSP	W BDIC	SIDSP	W BDIC	SIDSP	W BDIC	SIDSP	W BDIC
Stage Majority/Percent			13	100	19	100		
Stage Minimum/Percent			13	100	19	100		
Stage Maximum/Percent			13	100	19	100		
Majority Height/Unit			5.08	CM	12.7	CM		
Min/Max (Unit=Height Unit)			2.54	5.08	10.16	15.34		
Density/Unit					5	M2		

Application Equipment

	A	B	C	D
Application Method	SPRAY	SPRAY	SPRAY	
Application Placement	BROSOI	BROFOL	BROFOL	
Application Equipment	BACCAI	BACCAI	BACCAI	
Equipment ID	6' BACKPACK	6' BACKPACK	6' BACKPACK	
Ground Speed/Unit	4.82999992 KPH	4.82999992 KPH	4.82999992 KPH	
Propellant Type	COMCO2	COMCO2	COMCO2	
Carrier	WATER	WATER	WATER	
Appl./Slurry Volume	140.3	140.3	140.3	
Appl./Slurry Volume Unit	L/HA	L/HA	L/HA	
Mix Size/Unit	1 L	1 L	1 L	
Operating Pressure/Unit	3.034 BAR	3.034 BAR	3.034 BAR	
Spray Swath Width/Unit	2.03299999 M	2.03299999 M	2.03299999 M	
Nozzle Type	FLAFAI	FLAFAI	FLAFAI	
Nozzle Size	11015	11015	11015	
Nozzle Spacing/Unit	45.7 CM	45.7 CM	45.7 CM	
Nozzles/Row	4	4	4	
Boom Height/Unit	50.7999992 CM	50.799 CM	50.799 CM	

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Unique Col. ID	5	6	7	8	9	10	11	12
Orig./Calc. Flag	O	O	O	O	O	O	O	O
SE Group	3	4	5	6	7	8	9	10
SE ID							SETFA	ECHCG
SE Label								
Target	1 SETFA 2 ECHCG		3 4 CHEAL 5 AMARE		1 SETFA 2 ECHCG			
-Disc./Scale	W BGRM		W BGRM		W BDIC		W BGRM	
Part Rated	W BGRM		W BDIC		W BDIC		W BGRM	
Assessment Type	PHYGE	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	N	%	%	%	%	%	%	%
Sample Size								
Sample Size Unit								
Sample Size (total)								
# Subsamples								
Assessment Date	17.6.16	17.6.16	17.6.16	17.6.16	17.6.16	17.6.16	6.7.16	6.7.16
Assessment Code	A1	A1	A1	A1	A1	A1	A2	A2
Days after first Appl.	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	42 DAA	42 DAA
Days after last Appl.	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	8 DAC	8 DAC
Plant.-Ass.Interval	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1	42 DP1	42 DP1
Days after Emergence	16 DE1	16 DE1	16 DE1	16 DE1	16 DE1	16 DE1	35 DE1	35 DE1
Decimals Printed							0	0
ARM Action Codes								
Untreated								

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	1*	2*	3*	4*	5*	6*	7*	8*
1	UNTREATED				0.0 -	0.0 c	0.0 c	0.0 d	0.0 b	0.0 b	0 d	0 d
2	AUTHORITY FIRST	6.5 oz/a		A	4.3 -	85.0 a	85.0 a	66.7 a	100.0 a	100.0 a	77 b	77 b
	LIBERTY 280	32 oz/a		C								
	N-PAK AMS LIQUID	1.5 qt/a		C								
	LIBERTY 280	29 oz/a		D								
	N-PAK AMS LIQUID	1.5 qt/a		D								
3	FIERCE HERBICIDE	3.5 oz/a		A	4.0 -	80.0 a	80.0 a	30.0 bc	100.0 a	100.0 a	75 bc	75 bc
	LIBERTY 280	32 oz/a		C								
	N-PAK AMS LIQUID	1.5 qt/a		C								
	LIBERTY 280	29 oz/a		D								
	N-PAK AMS LIQUID	1.5 qt/a		D								
4	VALOR XLT	3.5 oz/a		A	6.7 -	85.0 a	85.0 a	50.0 ab	100.0 a	100.0 a	79 b	78 b
	VALOR	2.05 oz/a		A								
	CLASSIC	1.45 oz/a		A								
	LIBERTY 280	32 oz/a		C								
	N-PAK AMS LIQUID	1.5 qt/a		C								
	ZIDUA HERBICIDE	2 oz/a		C								
5	LIBERTY 280	29 oz/a		B	0.0 -	0.0 c	0.0 c	0.0 d	0.0 b	0.0 b	90 ab	88 ab
	PREFIX HERBICIDE	2 pt/a		B								
	AMMONIUM SULFATE	8.5 lb/100 gal		B								
	LIBERTY 280	29 oz/a		D								
	AMMONIUM SULFATE	8.5 lb/100 gal		D								
6	OPTILL 68 WG	2 oz/a		A	4.0 -	96.7 a	96.7 a	60.0 a	100.0 a	100.0 a	89 ab	89 ab
	OUTLOOK	10 oz/a		A								
	LIBERTY 280	32 oz/a		C								
	AMMONIUM SULFATE	8.5 lb/100 gal		C								
7	AUTHORITY XL	5 oz/a		A	7.7 -	81.7 a	81.7 a	26.7 bcd	100.0 a	100.0 a	79 b	78 b
	LIBERTY 280	32 oz/a		C								
	AMMONIUM SULFATE	8.5 lb/100 gal		C								
8	AUTHORITY FIRST	6.5 oz/a		A	5.7 -	90.0 a	90.0 a	63.3 a	100.0 a	100.0 a	100 a	100 a
	LIBERTY 280	29 oz/a		B								
	AMMONIUM SULFATE	8.5 lb/100 gal		B								
	CADET	0.5 oz/a		B								
9	AUTHORITY FIRST	6.5 oz/a		A	6.7 -	86.7 a	86.7 a	76.7 a	100.0 a	100.0 a	99 a	99 a
	LIBERTY 280	29 oz/a		B								
	AMMONIUM SULFATE	8.5 lb/100 gal		B								
	ANTHEM	7 oz/a		B								

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 5,6,19,20,21,22 because error mean square = 0.

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Unique Col. ID	5	6	7	8	9	10	11	12
Orig./Calc. Flag	O	O	O	O	O	O	O	O
SE Group	3	4	5	6	7	8	9	10
SE ID							SETFA	ECHCG
SE Label								
Target	1 SETFA 2 ECHCG		3 4 CHEAL 5 AMARE		1 SETFA 2 ECHCG			
-Disc./Scale	W BGRM		W BGRM		W BDIC		W BGRM	
Part Rated								
Assessment Type	PHYGE	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	N	%	%	%	%	%	%	%
Sample Size								
Sample Size Unit								
Sample Size (total)								
# Subsamples								
Assessment Date	17.6.16	17.6.16	17.6.16	17.6.16	17.6.16	17.6.16	6.7.16	6.7.16
Assessment Code	A1	A1	A1	A1	A1	A1	A2	A2
Days after first Appl.	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	42 DAA	42 DAA
Days after last Appl.	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	23 DAA	8 DAC	8 DAC
Plant.-Ass.Interval	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1	23 DP1	42 DP1	42 DP1
Days after Emergence	16 DE1	16 DE1	16 DE1	16 DE1	16 DE1	16 DE1	35 DE1	35 DE1
Decimals Printed							0	0
ARM Action Codes								
Untreated								

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	1*	2*	3*	4*	5*	6*	7*	8*
10	AUTHORITY MTZ	12 oz/a		A	0.7 -	60.0 b	56.7 b	10.0 cd	100.0 a	100.0 a	57 c	57 c
	LIBERTY 280	32 oz/a		C								
	AMMONIUM SULFATE	8.5 lb/100 gal		C								
	LSD P=.05				5.50	18.46	18.46	29.04	.	.	20.0	18.8
	Standard Deviation				3.20	10.76	10.76	16.93	0.00	0.00	11.6	11.0
	CV				80.76	16.18	16.27	44.17	0.0	0.0	15.62	14.82
	Bartlett's X2				11.397	10.175	10.071	9.461	0.0	0.0	12.232	11.295
	P(Bartlett's X2)				0.122	0.179	0.185	0.221	.	.	0.093	0.126
	Skewness				1.0075*	-1.166*	-1.1293*	-0.0437	-1.5801*	-1.5801*	-1.5959*	-1.6107*
	Kurtosis				1.0457	-0.214	-0.2976	-1.5899	0.5274	0.5274	2.0567*	2.1276*
	Replicate F				0.549	0.928	1.216	0.186	0.000	0.000	0.005	0.014
	Replicate Prob(F)				0.5870	0.4134	0.3197	0.8318	1.0000	1.0000	0.9953	0.9865
	Treatment F				2.392	34.108	34.261	8.663	0.000	0.000	18.783	20.955
	Treatment Prob(F)				0.0551	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001	0.0001

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Unique Col. ID	13	14	15	16	17	18	19	20
Orig./Calc. Flag	O	O	O	O	O	O	O	O
SE Group	11	12	13	14	15	16	17	18
SE ID	AMBTR	CHEAL	AMARE					
SE Label								
Target	3 AMBTR	4 CHEAL	5 AMARE			1 SETFA	2 ECHCG	3 AMBTR
-Disc./Scale	W BDIC	W BDIC	W BDIC			W BGRM	W BGRM	W BDIC
Part Rated								
Assessment Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTR	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%	%	%
Sample Size								
Sample Size Unit								
Sample Size (total)								
# Subsamples								
Assessment Date	6.7.16	6.7.16	6.7.16	6.7.16	20.7.16	20.7.16	20.7.16	20.7.16
Assessment Code	A2	A2	A2	A2	A3	A3	A3	A3
Days after first Appl.	42 DAA	42 DAA	42 DAA	42 DAA	56 DAA	56 DAA	56 DAA	56 DAA
Days after last Appl.	8 DAC	8 DAC	8 DAC	8 DAC	22 DAC	22 DAC	22 DAC	22 DAC
Plant.-Ass.Interval	42 DP1	42 DP1	42 DP1	42 DP1	56 DP1	56 DP1	56 DP1	56 DP1
Days after Emergence	35 DE1	35 DE1	35 DE1	35 DE-1	49 DE1	49 DE1	49 DE1	49 DE1
Decimals Printed	0	0	0	0				
ARM Action Codes								
Untreated								

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	9*	10*	11*	12*	13*	14*	15*	16*
10	AUTHORITY MTZ	12 oz/a		A	100 a	100 a	100 a	0-	6.7 a	63.3 c	46.7 c	96.7 a
	LIBERTY 280	32 oz/a		C								
	AMMONIUM SULFATE	8.5 lb/100 gal		C								
	LSD P=.05				19.3	0.6	0.3	2.3	2.32	16.01	23.75	12.80
	Standard Deviation				11.3	0.4	0.2	1.3	1.35	9.33	13.84	7.46
	CV				18.01	0.41	0.2	115.35	68.78	11.58	18.32	9.13
	Bartlett's X2				28.322	0.0	0.0	2.735	4.212	23.298	22.293	10.507
	P(Bartlett's X2)				0.001*	.	.	0.741	0.519	0.003*	0.004*	0.162
	Skewness				-0.378	-2.8084*	-2.8089*	1.0657*	1.5929*	-1.8983*	-1.4069*	-2.242*
	Kurtosis				-1.3274	6.3054*	6.3074*	-0.0509	3.8979*	2.7553*	0.8728	4.2238*
	Replicate F				0.742	1.000	1.000	1.123	1.385	1.415	0.301	6.467
	Replicate Prob(F)				0.4904	0.3874	0.3874	0.3471	0.2758	0.2687	0.7440	0.0076
	Treatment F				31.957	22467.669	89934.342	2.423	6.860	32.851	15.528	46.990
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0525	0.0003	0.0001	0.0001	0.0001

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Unique Col. ID	21	22	1	2	3	4
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	19	20	1	2	1	1
SE ID			EE22XXX	EE22XXX	EE22XXX	EE22XXX
SE Label			estimat	estimat	estimat	estimat
Target	4 CHEAL	5 AMARE				
-Disc./Scale	W BDIC	W BDIC				
Part Rated			PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size			1	1	1	1
Sample Size Unit			PLOT	PLOT	PLOT	PLOT
Sample Size (total)			1	1	1	1
# Subsamples			1	1	1	1
Assessment Date	20.7.16	20.7.16				
Assessment Code	A3	A3		A5	B3	B5
Days after first Appl.	56 DAA	56 DAA				
Days after last Appl.	22 DAC	22 DAC				
Plant.-Ass.Interval	56 DP1	56 DP1				
Days after Emergence	49 DE1	49 DE1				
Decimals Printed				0	0	0
ARM Action Codes			P	P	P	P
Untreated			CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	17*	18*	19	20	21	22
1	UNTREATED				0.0 c	0.0 c				
2	AUTHORITY FIRST	6.5 oz/a		A	100.0 a	100.0 a				
	LIBERTY 280	32 oz/a		C						
	N-PAK AMS LIQUID	1.5 qt/a		C						
	LIBERTY 280	29 oz/a		D						
	N-PAK AMS LIQUID	1.5 qt/a		D						
3	FIERCE HERBICIDE	3.5 oz/a		A	100.0 a	100.0 a				
	LIBERTY 280	32 oz/a		C						
	N-PAK AMS LIQUID	1.5 qt/a		C						
	LIBERTY 280	29 oz/a		D						
	N-PAK AMS LIQUID	1.5 qt/a		D						
4	VALOR XLT	3.5 oz/a		A	100.0 a	100.0 a				
	VALOR	2.05 oz/a		A						
	CLASSIC	1.45 oz/a		A						
	LIBERTY 280	32 oz/a		C						
	N-PAK AMS LIQUID	1.5 qt/a		C						
	ZIDUA HERBICIDE	2 oz/a		C						
5	LIBERTY 280	29 oz/a		B	63.3 b	60.0 b				
	PREFIX HERBICIDE	2 pt/a		B						
	AMMONIUM SULFATE	8.5 lb/100 gal		B						
	LIBERTY 280	29 oz/a		D						
	AMMONIUM SULFATE	8.5 lb/100 gal		D						
6	OPTILL 68 WG	2 oz/a		A	100.0 a	100.0 a				
	OUTLOOK	10 oz/a		A						
	LIBERTY 280	32 oz/a		C						
	AMMONIUM SULFATE	8.5 lb/100 gal		C						
7	AUTHORITY XL	5 oz/a		A	100.0 a	100.0 a				
	LIBERTY 280	32 oz/a		C						
	AMMONIUM SULFATE	8.5 lb/100 gal		C						
8	AUTHORITY FIRST	6.5 oz/a		A	100.0 a	100.0 a				
	LIBERTY 280	29 oz/a		B						
	AMMONIUM SULFATE	8.5 lb/100 gal		B						
	CADET	0.5 oz/a		B						
9	AUTHORITY FIRST	6.5 oz/a		A	100.0 a	100.0 a				
	LIBERTY 280	29 oz/a		B						
	AMMONIUM SULFATE	8.5 lb/100 gal		B						
	ANTHEM	7 oz/a		B						

The Ohio State University

Liberty / Increased Liberty rates/ LL Soy / Efficacy, Phyto

Trial ID: HP16USAWGKUDL1 TD Number: LOCALCREATED Protocol Edition No.: 2.01
 Project ID: LOCAL_PROJ
 Project Number(s): 100 % TSS % 100 % LFGLY001
 Protocol Developer: Cotie, Arlene
 License User: Dr. Mark M. Loux

Unique Col. ID	21	22	1	2	3	4
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	19	20	1	2	1	1
SE ID			EE22XXX	EE22XXX	EE22XXX	EE22XXX
SE Label			estimat	estimat	estimat	estimat
Target	4 CHEAL	5 AMARE				
-Disc./Scale	W BDIC	W BDIC				
Part Rated			PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size			1	1	1	1
Sample Size Unit			PLOT	PLOT	PLOT	PLOT
Sample Size (total)			1	1	1	1
# Subsamples			1	1	1	1
Assessment Date	20.7.16	20.7.16				
Assessment Code	A3	A3		A5	B3	B5
Days after first Appl.	56 DAA	56 DAA				
Days after last Appl.	22 DAC	22 DAC				
Plant.-Ass.Interval	56 DP1	56 DP1				
Days after Emergence	49 DE1	49 DE1				
Decimals Printed				0	0	0
ARM Action Codes			P	P	P	P
Untreated			CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose Unit	Appl. Code	17*	18*	19	20	21	22
10	AUTHORITY MTZ	12 oz/a	A		100.0 a	100.0 a				
	LIBERTY 280	32 oz/a	C							
	AMMONIUM SULFATE	8.5 lb/100 gal	C							
	LSD P=.05				8.29	5.42	.	.	.	.
	Standard Deviation				4.83	3.16	.	.	.	.
	CV				5.6	3.68	.	.	.	.
	Bartlett's X2				0.0	0.0	.	.	.	.
	P(Bartlett's X2)				.	.	.	.	.	.
	Skewness				-2.2736*	-2.2185*	.	.	.	.
	Kurtosis				3.9138*	3.698*	.	.	.	.
	Replicate F				1.000	1.000				
	Replicate Prob(F)				0.3874	0.3874				
	Treatment F				135.381	321.333				
	Treatment Prob(F)				0.0001	0.0001				

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Liberty / Increased Liberty rates/ LL Soy / Efficacy, Phyto

Trial ID: HP16USAWGKUDL1 TD Number: LOCALCREATED Protocol Edition No.: 2.01
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SE ID

EE22XXX = estimation, % control, in untreated % coverage estimated

Target

- 1, SETFA, W, BGRM, , , = Setaria faberi HERRM.
- 2, ECHCG, W, BGRM, , , = Echinochloa crus-galli (L.) P.
- 3, AMBTR, W, BDIC, , , = Ambrosia trifida L.
- 4, CHEAL, W, BDIC, , , = Chenopodium album L.
- 5, AMARE, W, BDIC, , , = Amaranthus retroflexus L.

Part Rated

PLANT = Plant

Assessment Type

PHYGEN = Phytotoxicity - General, Injury

CONTRO = Control

Assessment Unit

% = Percent

Sample Size Unit

PLOT = Plot

Assessment Code

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A5 = 5th Assessment According to Trial Schedule

Plant.-Ass.Interval

23 DP1 = 1 GLXMA 25.5.16

42 DP1 = 1 GLXMA 25.5.16

56 DP1 = 1 GLXMA 25.5.16

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. control or injury)

Untreated

CANOPY = Canopy