

The Ohio State University

Interline plus residuals awareness in soybeans

Trial ID: 16 UPILL1
 Protocol ID: 16 UPILL1
 Project ID: K235-06/GLUF-06 2016

Location: Western Branch Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: Tony Estes, UPI

General Trial Information

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

Latitude of LL Corner °: 39.86014 N
Longitude of LL Corner °: 83.67117 W
Altitude of LL Corner, Unit: 1086.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max
Variety: SC3325LL
Description: Seed Consultants LL

BBCH Scale: BSOY

Planting Rate, Unit: 175000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Temperature, Unit: 67 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

Planting Date: 5-25-2016
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: 6-1-2016

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass

Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 4 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Pest 5 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 6 Type: W **Code:** HIBTR *Hibiscus trionum*
Common Name: Venice mallow

Pest 7 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: Prickly sida

Pest 8 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 8
Replications: 3

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: F-8 Middle
% OM: 2 **Texture:** CL clay loam
pH: 7 **Soil Name:** Celina
CEC: 11.5 **Fert. Level:** G good
Soil Drainage: G good

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Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	6' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	44 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	4
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 liters	1 liters
Propellant:	COMCO2	COMCO2

Date By Notes

6-20-2016 Reeb since there were only 2 pre treatments they were all rated the same for each one. treatment 1 and 2 got all the same ratings and then treatments 2-7 got the same, since they was no real difference from plot to plot or treatments.

	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Type	SETFA	ECHCG	AMBTR	CHEAL	AMARE	HIBTR
Pest Code	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Hibiscus trion>
Pest Scientific Name	Giant foxtail	Common barnyar>	Giant ragweed	Common lambsqu>	Redroot pigweed	Venice mallow
Pest Name	6-20-2016	6-20-2016	6-20-2016	6-20-2016	6-20-2016	6-20-2016
Rating Date	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Type	%	%	%	%	%	%
Rating Unit	1	1	1	1	1	1
Number of Subsamples	1	2	3	4	5	6
SE Group No.	26 26	26 26	26 26	26 26	26 26	26 26
Days After First/Last Applic.	26 DP-1	26 DP-1	26 DP-1	26 DP-1	26 DP-1	26 DP-1
Plant-Eval Interval	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1
Days After Emergence						

Trt	Treatment	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1	Tricor	0.68 pt/a		A	85.0 a	85.0 a	30.0 a	95.0 a	95.0 a	95.0 a
	Satellite Hydrocap	1.92 pt/a		A						
	Liberty	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
2	Tricor	0.68 pt/a		A	85.0 b	85.0 b	30.0 c	95.0 a	95.0 a	95.0 a
	Satellite Hydrocap	1.92 pt/a		A						
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
3	Satellite Hydrocap	16 oz/a		A	60.0 c	60.0 c	30.0 b	50.0 b	50.0 b	70.0 b
	KFD 235-01	54 oz/a		B						
	N-pak ams	1.5 qt/a		B						
4	Satellite Hydrocap	16 oz/a		A	60.0 d	60.0 d	30.0 d	50.0 b	50.0 b	70.0 b
	Interline	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						
5	Satellite Hydrocap	16 oz/a		A	60.0	60.0	30.0	50.0 b	50.0 b	70.0 b
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
6	Satellite Hydrocap	16 oz/a		A	60.0	60.0	30.0 e	50.0 b	50.0 b	70.0 b
	Prefix	37 oz/a		B						
	NIS	0.15 qt/a		B						
7	Satellite Hydrocap	16 oz/a		A	60.0	60.0	30.0	50.0 b	50.0 b	70.0 b
	Liberty	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SIDSP	SETFA	ECHCG	AMBTR	CHEAL	AMARE
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed	Common lambsqu>	Redroot pigweed
Rating Date	6-20-2016	7-7-2016	7-7-2016	7-7-2016	7-7-2016	7-7-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
SE Group No.	7	8	9	10	11	12
Days After First/Last Applic.	26 26	43 17	43 17	43 17	43 17	43 17
Plant-Eval Interval	26 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	19 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1	Tricor	0.68 pt/a		A	100.0 a	99.3 a	93.3 a	85.0 b	98.3 a	99.3 a
	Satellite Hydrocap	1.92 pt/a		A						
	Liberty	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
2	Tricor	0.68 pt/a		A	100.0 a	100.0 a	90.0 ab	95.0 a	90.0 ab	100.0 a
	Satellite Hydrocap	1.92 pt/a		A						
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
3	Satellite Hydrocap	16 oz/a		A	80.0 b	93.3 a	68.3 c	90.0 ab	86.7 b	78.3 b
	KFD 235-01	54 oz/a		B						
	N-pak ams	1.5 qt/a		B						
4	Satellite Hydrocap	16 oz/a		A	80.0 b	98.3 a	75.0 bc	91.7 ab	63.3 cd	75.0 b
	Interline	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						
5	Satellite Hydrocap	16 oz/a		A	80.0 b	100.0 a	70.0 c	95.0 a	70.0 c	71.7 bc
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
6	Satellite Hydrocap	16 oz/a		A	80.0 b	80.0 b	43.3 d	36.7 c	53.3 d	60.0 c
	Prefix	37 oz/a		B						
	NIS	0.15 qt/a		B						
7	Satellite Hydrocap	16 oz/a		A	80.0 b	98.3 a	81.7 abc	88.3 ab	86.7 b	76.7 b
	Liberty	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SIDSP	SETFA	ECHCG	AMBTR	CHEAL	AMARE			
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>			
Pest Name	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed	Common lambsqu>	Redroot pigweed			
Rating Date	6-20-2016	7-7-2016	7-7-2016	7-7-2016	7-7-2016	7-7-2016			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
SE Group No.	7	8	9	10	11	12			
Days After First/Last Applic.	26 26	43 17	43 17	43 17	43 17	43 17			
Plant-Eval Interval	26 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1	43 DP-1			
Days After Emergence	19 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1			
Trt Treatment	Other	Other	Appl						
No. Name	Rate	Rate	Unit Code	7*	8*	9*	10*	11*	12*
8 UTC				0.0 c	0.0 c	0.0 e	0.0 d	0.0 e	0.0 d
LSD P=.05				.	10.55	16.31	9.63	11.64	14.77
Standard Deviation				0.00	6.03	9.31	5.50	6.65	8.43
CV				0.0	7.2	14.28	7.56	9.7	12.03
Bartlett's X2				0.0	11.466	2.917	5.271	3.771	7.884
P(Bartlett's X2)				.	0.022*	0.819	0.384	0.583	0.163
Skewnness				-2.0115*	-2.161*	-1.197*	-1.4559*	-1.3834*	-1.3494*
Kurtosis				3.1536*	3.3159*	0.6605	0.5919	1.1143	1.2175
Replicate F				0.000	1.983	0.588	0.448	0.731	4.619
Replicate Prob(F)				1.0000	0.1745	0.5684	0.6476	0.4991	0.0288
Treatment F				0.000	98.110	32.286	122.478	67.525	41.592
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	HIBTR	SIDSP	SETFA	ECHCG	AMBTR	CHEAL				
Pest Scientific Name	Hibiscus trion>	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>				
Pest Name	Venice mallow	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed	Common lambsqu>				
Rating Date	7-7-2016	7-7-2016	7-11-2016	7-11-2016	7-11-2016	7-11-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
SE Group No.	13	14	15	16	17	18				
Days After First/Last Applic.	43 17	43 17	47 21	47 21	47 21	47 21				
Plant-Eval Interval	43 DP-1	43 DP-1	47 DP-1	47 DP-1	47 DP-1	47 DP-1				
Days After Emergence	36 DE-1	36 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*	18*
1	Tricor	0.68 pt/a		A	100.0 a	98.3 a	98.3 a	91.7 a	86.7 c	95.0 a
	Satellite Hydrocap	1.92 pt/a		A						
	Liberty	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
2	Tricor	0.68 pt/a		A	100.0 a	98.3 a	100.0 a	90.0 a	96.7 a	91.7 a
	Satellite Hydrocap	1.92 pt/a		A						
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
3	Satellite Hydrocap	16 oz/a		A	98.3 a	98.3 a	96.7 a	75.0 b	90.0 abc	88.3 ab
	KFD 235-01	54 oz/a		B						
	N-pak ams	1.5 qt/a		B						
4	Satellite Hydrocap	16 oz/a		A	100.0 a	96.7 a	98.3 a	80.0 ab	96.7 a	53.3 c
	Interline	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						
5	Satellite Hydrocap	16 oz/a		A	98.3 a	93.3 ab	97.7 a	75.0 b	95.0 ab	63.3 c
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
6	Satellite Hydrocap	16 oz/a		A	88.3 b	85.0 b	85.0 b	53.3 c	40.0 d	61.7 c
	Prefix	37 oz/a		B						
	NIS	0.15 qt/a		B						
7	Satellite Hydrocap	16 oz/a		A	96.7 a	96.7 a	98.3 a	80.0 ab	88.3 bc	78.3 b
	Liberty	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMARE	HIBTR	SIDSP	SETFA	ECHCG	AMBTR				
Pest Scientific Name	Amaranthus ret>	Hibiscus trion>	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>				
Pest Name	Redroot pigweed	Venice mallow	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed				
Rating Date	7-11-2016	7-11-2016	7-11-2016	7-19-2016	7-19-2016	7-19-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
SE Group No.	19	20	21	22	23	24				
Days After First/Last Applic.	47 21	47 21	47 21	55 29	55 29	55 29				
Plant-Eval Interval	47 DP-1	47 DP-1	47 DP-1	55 DP-1	55 DP-1	55 DP-1				
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	48 DE-1	48 DE-1	48 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	19*	20*	21*	22*	23*	24*
1	Tricor	0.68 pt/a		A	100.0 a	100.0 a	99.3 a	98.3 a	90.0 a	85.0 a
	Satellite Hydrocap	1.92 pt/a		A						
	Liberty	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
2	Tricor	0.68 pt/a		A	100.0 a	100.0 a	100.0 a	98.3 a	90.0 a	95.0 a
	Satellite Hydrocap	1.92 pt/a		A						
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
3	Satellite Hydrocap	16 oz/a		A	81.7 b	98.3 a	95.0 a	95.0 a	71.7 ab	86.7 a
	KFD 235-01	54 oz/a		B						
	N-pak ams	1.5 qt/a		B						
4	Satellite Hydrocap	16 oz/a		A	75.0 b	100.0 a	100.0 a	100.0 a	75.0 ab	90.0 a
	Interline	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						
5	Satellite Hydrocap	16 oz/a		A	76.7 b	96.7 a	96.7 a	95.0 a	63.3 b	93.3 a
	Interline	29 oz/a		B						
	N-pak ams	1.5 qt/a		B						
6	Satellite Hydrocap	16 oz/a		A	83.3 ab	88.3 b	86.7 b	86.7 b	43.3 c	36.7 b
	Prefix	37 oz/a		B						
	NIS	0.15 qt/a		B						
7	Satellite Hydrocap	16 oz/a		A	75.0 b	98.3 a	98.3 a	97.7 a	83.3 a	83.3 a
	Liberty	29 oz/a		B						
	Dual II Magnum	20.6 oz/a		B						
	N-pak ams	1.5 qt/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	AMARE	HIBTR	SIDSP				
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Hibiscus trion>	Sida spinosa				
Pest Name	Common lambsqu>	Redroot pigweed	Venice mallow	Prickly sida				
Rating Date	7-19-2016	7-19-2016	7-19-2016	7-19-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
SE Group No.	25	26	27	28				
Days After First/Last Applic.	55 29	55 29	55 29	55 29				
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1				
Days After Emergence	48 DE-1	48 DE-1	48 DE-1	48 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	25*	26*	27*	28*
1	Tricor	0.68 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a
	Satellite Hydrocap	1.92 pt/a		A				
	Liberty	29 oz/a		B				
	N-pak ams	1.5 qt/a		B				
2	Tricor	0.68 pt/a		A	100.0 a	96.7 a	100.0 a	100.0 a
	Satellite Hydrocap	1.92 pt/a		A				
	Interline	29 oz/a		B				
	N-pak ams	1.5 qt/a		B				
3	Satellite Hydrocap	16 oz/a		A	85.0 b	73.3 b	100.0 a	100.0 a
	KFD 235-01	54 oz/a		B				
	N-pak ams	1.5 qt/a		B				
4	Satellite Hydrocap	16 oz/a		A	63.3 c	75.0 b	100.0 a	100.0 a
	Interline	29 oz/a		B				
	Dual II Magnum	20.6 oz/a		B				
	N-pak ams	1.5 qt/a		B				
5	Satellite Hydrocap	16 oz/a		A	80.0 b	70.0 b	100.0 a	100.0 a
	Interline	29 oz/a		B				
	N-pak ams	1.5 qt/a		B				
6	Satellite Hydrocap	16 oz/a		A	78.3 b	83.3 ab	100.0 a	100.0 a
	Prefix	37 oz/a		B				
	NIS	0.15 qt/a		B				
7	Satellite Hydrocap	16 oz/a		A	85.0 b	71.7 b	96.7 a	96.7 a
	Liberty	29 oz/a		B				
	Dual II Magnum	20.6 oz/a		B				
	N-pak ams	1.5 qt/a		B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	HIBTR	SIDSP
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Hibiscus trion>	Sida spinosa
Pest Name	Common lambsqu>	Redroot pigweed	Venice mallow	Prickly sida
Rating Date	7-19-2016	7-19-2016	7-19-2016	7-19-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
SE Group No.	25	26	27	28
Days After First/Last Applic.	55 29	55 29	55 29	55 29
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	48 DE-1	48 DE-1	48 DE-1	48 DE-1
Trt Treatment	Other	Other	Appl	
No. Name	Rate	Rate	Unit Code	
8 UTC				
	25*	26*	27*	28*
	0.0 d	0.0 c	0.0 b	0.2 b
LSD P=.05	13.84	20.05	3.57	3.73
Standard Deviation	7.91	11.45	2.04	2.11
CV	10.69	16.07	2.34	2.43
Bartlett's X2	2.754	6.946	0.0	0.0
P(Bartlett's X2)	0.60	0.225	.	.
Skewness	-1.6377*	-1.2927*	-2.4053*	-3.1124*
Kurtosis	1.9285*	0.9316	4.1569*	8.4813*
Replicate F	1.667	7.175	1.000	0.967
Replicate Prob(F)	0.2242	0.0072	0.3927	0.4061
Treatment F	49.636	21.952	892.429	579.710
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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Interline plus residuals awareness in soybeans

Trial ID: 16 UPILL1 Location: Western Branch Trial Year: 2016
 Protocol ID: 16 UPILL1 Investigator: Dr. Mark M. Loux
 Project ID: K235-06/GLUF-06 2016 Study Director: Bryan Reeb
 Sponsor Contact: Tony Estes, UPI

Pest Type

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

Pest Code

SETFA, *Setaria faberi*, = US
 ECHCG, *Echinochloa crus-galli*, = US
 AMBTR, *Ambrosia trifida*, = US
 CHEAL, *Chenopodium album*, = US
 AMARE, *Amaranthus retroflexus*, = US
 HIBTR, *Hibiscus trionum*, = US
 SIDSP, *Sida spinosa*, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

26 DP-1 = 1 GLXMA 5-25-2016
 43 DP-1 = 1 GLXMA 5-25-2016
 47 DP-1 = 1 GLXMA 5-25-2016
 55 DP-1 = 1 GLXMA 5-25-2016