

**Weed control systems in RR2 Xtend and LibertyLink soybean**

Trial ID: SOY12-17 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus C-18 Investigator: Christy Sprague

**Planting Date:** May-10-2017 **Row Spacing:** 30 IN  
**Variety:** See comments **No. of Reps:** 4  
**Population:** 155000 seeds/A **% OM:** 2.4  
**Soil Type:** L loam **pH:** 7.2  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow; spring soil finish twice  
**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambquarters, common	Chenopodium album
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	SINAR	mustard, wild	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

**Application Description**

	A	B
<b>Application Timing:</b>	PRE	POST
<b>Date Treated:</b>	May-10-2017	Jun-14-2017
<b>Time Treated:</b>	11:30 AM	4:30 PM
<b>% Cloud Cover:</b>	20	30
<b>Air Temp., Unit:</b>	62 F	92 F
<b>% Relative Humidity:</b>	37	51
<b>Wind Speed/Unit/Dir:</b>	5 mph S	2 mph S
<b>Soil Temp, Unit:</b>	55 F	84 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5
<b>Soil Moist:</b>	3	5

**Crop Stage at Each Application**

	A	B
<b>Crop 1 Name:</b>	GLXMA	GLXMA
<b>Height:</b>		8 "
<b>Stage:</b>		V3

**Weed Stage at Each Application**

	A	B
<b>Weed 1 Name:</b>	ANGR	ANGR
<b>Height:</b>		3-5 " (4)
<b>Stage:</b>		
<b>Weed 2 Name:</b>	CHEAL	CHEAL
<b>Height:</b>		3 "
<b>Stage:</b>		2-4L
<b>Weed 3 Name:</b>	AMBEL	AMBEL
<b>Height:</b>		5-6 " (5.5)
<b>Stage:</b>		6-8L
<b>Weed 4 Name:</b>	SINAR	SINAR
<b>Height:</b>		4-8 " (6)
<b>Stage:</b>		6-8L

**Weed Density**

	1	2	3	4
<b>Date:</b>	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017
<b>Weed Name:</b>	ANGR	CHEAL	AMBEL	SINAR
<b>Density:</b>	17 FT2	7 FT2	7 FT2	2 FT2

**Application Equipment**

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	Cub	3.8 MPH	See notes	11003	22 "	20 "	100 "	19 GPA	WATER	
B	Cub	3.8 MPH	See notes	11003	22 "	20 "	100 "	19 GPA	WATER	

**Comments:**

Varieties: Asgrow 25X6 (Roundup Ready 2 Xtend) and Credenz 2312LL (LibertyLink) Nozzles: AIXR at 30 PSI and TTI at 25 PSI There was some minor leaf cupping on the LibertyLink soybean after the POST applications were made from the XtendiMax applications to the

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Roundup Ready 2 Xtend soybean.

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Location: Campus C-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	GLXMA	GLXMA	ANGR	CHEAL	AMBEL
Crop Code	May-31-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017
Rating Date	injury	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	21 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR2 Xtend soybean						13	0	82	75	61
2	*TTI - nozzles					A					
2	Rowel	51	WG	2	oz/a	A					
2	*TTI - nozzles					B					
2	XtendiMax	2.9	SL	22	fl oz/a	B					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
2	Intact		L	0.5	% v/v	B					
3	RR2 Xtend soybean						15	0	91	90	80
3	*TTI - nozzles					A					
3	Rowel	51	WG	2	oz/a	A					
3	XtendiMax	2.9	SL	22	fl oz/a	A					
3	*TTI - nozzles					B					
3	XtendiMax	2.9	SL	22	fl oz/a	B					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
3	Intact		L	0.5	% v/v	B					
4	RR2 Xtend soybean						12	0	88	85	79
4	*TTI - nozzles					A					
4	Rowel	51	WG	2	oz/a	A					
4	XtendiMax	2.9	SL	22	fl oz/a	A					
4	*TTI - nozzles					B					
4	Warrant	3	L	3	pt/a	B					
4	XtendiMax	2.9	SL	22	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
4	Intact		L	0.5	% v/v	B					
5	LibertyLink soybean						0	0	0	0	0
5	Untreated										
6	LibertyLink soybean						13	0	81	67	57
6	*AIXR - nozzles					A					
6	Valor	51	WG	2	oz/a	A					
6	*AIXR - nozzles					B					
6	Liberty	2.34	L	29	fl oz/a	B					
6	AMS		WG	8.5	lb/100 gal	B					
7	LibertyLink soybean						0	0	88	90	58
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	*AIXR - nozzles					B					
7	Liberty	2.34	L	29	fl oz/a	B					
7	AMS		WG	8.5	lb/100 gal	B					

\* Adjusted means

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Pest Code				ANGR	CHEAL	AMBEL
Crop Code	GLXMA	GLXMA				
Rating Date	May-31-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017
Rating Type	injury	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
8	LibertyLink soybean						0	0	78	86	62
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	*AIXR - nozzles					B					
8	Zidua	85	WG	2	oz/a	B					
8	Liberty	2.34	L	29	fl oz/a	B					
8	AMS		WG	8.5	lb/100 gal	B					
LSD	P=.05						3.9	.	9.8	7.6	9.1
	Standard Deviation						2.7	0.0	6.7	5.2	6.2
	CV						40.67	0.0	10.49	8.37	12.51

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Pest Code	SINAR	GLXMA	ANGR	CHEAL	AMBEL
Crop Code	Jun-14-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017
Rating Date	control	injury	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	35 DA-A	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR2 Xtend soybean						95	4	99	100	100
2	*TTI - nozzles					A					
2	Rowel	51	WG	2	oz/a	A					
2	*TTI - nozzles					B					
2	XtendiMax	2.9	SL	22	fl oz/a	B					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
2	Intact		L	0.5	% v/v	B					
3	RR2 Xtend soybean						100	3	100	100	100
3	*TTI - nozzles					A					
3	Rowel	51	WG	2	oz/a	A					
3	XtendiMax	2.9	SL	22	fl oz/a	A					
3	*TTI - nozzles					B					
3	XtendiMax	2.9	SL	22	fl oz/a	B					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
3	Intact		L	0.5	% v/v	B					
4	RR2 Xtend soybean						100	6	100	100	100
4	*TTI - nozzles					A					
4	Rowel	51	WG	2	oz/a	A					
4	XtendiMax	2.9	SL	22	fl oz/a	A					
4	*TTI - nozzles					B					
4	Warrant	3	L	3	pt/a	B					
4	XtendiMax	2.9	SL	22	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
4	Intact		L	0.5	% v/v	B					
5	LibertyLink soybean						0	15	0	0	0
5	Untreated										
6	LibertyLink soybean						93	15	94	99	100
6	*AIXR - nozzles					A					
6	Valor	51	WG	2	oz/a	A					
6	*AIXR - nozzles					B					
6	Liberty	2.34	L	29	fl oz/a	B					
6	AMS		WG	8.5	lb/100 gal	B					
7	LibertyLink soybean						100	15	96	100	99
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	*AIXR - nozzles					B					
7	Liberty	2.34	L	29	fl oz/a	B					
7	AMS		WG	8.5	lb/100 gal	B					

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	SINAR	GLXMA	ANGR	CHEAL	AMBEL
Pest Code					
Crop Code					
Rating Date	Jun-14-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jun-28-2017
Rating Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	35 DA-A	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
8	LibertyLink soybean						100	15	100	100	100
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	*AIXR - nozzles					B					
8	Zidua	85	WG	2	oz/a	B					
8	Liberty	2.34	L	29	fl oz/a	B					
8	AMS		WG	8.5	lb/100 gal	B					
LSD	P=.05						5.5	2.0	3.1	0.8	0.8
	Standard Deviation						3.7	1.4	2.1	0.5	0.5
	CV						5.07	15.09	2.87	0.71	0.71

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Pest Code	SINAR	GLXMA	ANGR	CHEAL	AMBEL	SINAR
Crop Code	Jun-28-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017
Rating Date	control	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent	percent
Rating Unit	14 DA-B	42 DA-B	42 DA-B	42 DA-B	42 DA-B	42 DA-B
Trt-Eval Interval	0	0	0	0	0	0
Number of Decimals						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	RR2 Xtend soybean						0	0	0	0	0	0
1	Untreated											
2	RR2 Xtend soybean						100	0	96	100	100	100
2	*TTI - nozzles					A						
2	Rowel	51	WG	2	oz/a	A						
2	*TTI - nozzles					B						
2	XtendiMax	2.9	SL	22	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
2	Intact		L	0.5	% v/v	B						
3	RR2 Xtend soybean						100	0	99	100	100	100
3	*TTI - nozzles					A						
3	Rowel	51	WG	2	oz/a	A						
3	XtendiMax	2.9	SL	22	fl oz/a	A						
3	*TTI - nozzles					B						
3	XtendiMax	2.9	SL	22	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
3	Intact		L	0.5	% v/v	B						
4	RR2 Xtend soybean						100	0	100	100	100	100
4	*TTI - nozzles					A						
4	Rowel	51	WG	2	oz/a	A						
4	XtendiMax	2.9	SL	22	fl oz/a	A						
4	*TTI - nozzles					B						
4	Warrant	3	L	3	pt/a	B						
4	XtendiMax	2.9	SL	22	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
4	Intact		L	0.5	% v/v	B						
5	LibertyLink soybean						0	0	0	0	0	0
5	Untreated											
6	LibertyLink soybean						100	0	90	100	96	100
6	*AIXR - nozzles					A						
6	Valor	51	WG	2	oz/a	A						
6	*AIXR - nozzles					B						
6	Liberty	2.34	L	29	fl oz/a	B						
6	AMS		WG	8.5	lb/100 gal	B						
7	LibertyLink soybean						100	0	97	100	94	100
7	*AIXR - nozzles					A						
7	Authority MAXX	66	WG	6.4	oz/a	A						
7	*AIXR - nozzles					B						
7	Liberty	2.34	L	29	fl oz/a	B						
7	AMS		WG	8.5	lb/100 gal	B						

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	SINAR	GLXMA	ANGR	CHEAL	AMBEL	SINAR
Pest Code						
Crop Code						
Rating Date	Jun-28-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	42 DA-B	42 DA-B	42 DA-B	42 DA-B	42 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
8	LibertyLink soybean						100	0	100	100	100	100
8	*AIXR - nozzles					A						
8	Authority MAXX	66	WG	6.4	oz/a	A						
8	*AIXR - nozzles					B						
8	Zidua	85	WG	2	oz/a	B						
8	Liberty	2.34	L	29	fl oz/a	B						
8	AMS		WG	8.5	lb/100 gal	B						
LSD	P=.05						.	.	3.4	.	3.5	.
Standard Deviation							0.0	0.0	2.3	0.0	2.4	0.0
CV							0.0	0.0	3.14	0.0	3.22	0.0

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Pest Code	GLXMA	ANGR	CHEAL	AMBEL	SINAR
Crop Code	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017
Rating Date	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	99 DA-B	99 DA-B	99 DA-B	99 DA-B	99 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR2 Xtend soybean						0	93	100	100	100
2	*TTI - nozzles					A					
2	Rowel	51	WG	2	oz/a	A					
2	*TTI - nozzles					B					
2	XtendiMax	2.9	SL	22	fl oz/a	B					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
2	Intact		L	0.5	% v/v	B					
3	RR2 Xtend soybean						0	97	100	100	100
3	*TTI - nozzles					A					
3	Rowel	51	WG	2	oz/a	A					
3	XtendiMax	2.9	SL	22	fl oz/a	A					
3	*TTI - nozzles					B					
3	XtendiMax	2.9	SL	22	fl oz/a	B					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
3	Intact		L	0.5	% v/v	B					
4	RR2 Xtend soybean						0	100	100	100	100
4	*TTI - nozzles					A					
4	Rowel	51	WG	2	oz/a	A					
4	XtendiMax	2.9	SL	22	fl oz/a	A					
4	*TTI - nozzles					B					
4	Warrant	3	L	3	pt/a	B					
4	XtendiMax	2.9	SL	22	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
4	Intact		L	0.5	% v/v	B					
5	LibertyLink soybean						0	0	0	0	0
5	Untreated										
6	LibertyLink soybean						0	80	98	95	100
6	*AIXR - nozzles					A					
6	Valor	51	WG	2	oz/a	A					
6	*AIXR - nozzles					B					
6	Liberty	2.34	L	29	fl oz/a	B					
6	AMS		WG	8.5	lb/100 gal	B					
7	LibertyLink soybean						0	88	100	93	100
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	*AIXR - nozzles					B					
7	Liberty	2.34	L	29	fl oz/a	B					
7	AMS		WG	8.5	lb/100 gal	B					

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Pest Code		ANGR	CHEAL	AMBEL	SINAR
Crop Code	GLXMA				
Rating Date	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	99 DA-B	99 DA-B	99 DA-B	99 DA-B	99 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
8	LibertyLink soybean						0	100	100	100	100
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	*AIXR - nozzles					B					
8	Zidua	85	WG	2	oz/a	B					
8	Liberty	2.34	L	29	fl oz/a	B					
8	AMS		WG	8.5	lb/100 gal	B					
LSD P=.05							.	6.4	2.6	5.0	.
Standard Deviation							0.0	4.3	1.8	3.4	0.0
CV							0.0	6.24	2.37	4.61	0.0

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Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	Oct-18-2017	Oct-18-2017
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	126 DA-B	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
1	RR2 Xtend soybean						13.7	17.9
1	Untreated							
2	RR2 Xtend soybean						14.4	49.3
2	*TTI - nozzles					A		
2	Rowel	51	WG	2 oz/a		A		
2	*TTI - nozzles					B		
2	XtendiMax	2.9	SL	22 fl oz/a		B		
2	Roundup PowerMax	4.5	SL	32 fl oz/a		B		
2	Intact		L	0.5 % v/v		B		
3	RR2 Xtend soybean						14.6	49.8
3	*TTI - nozzles					A		
3	Rowel	51	WG	2 oz/a		A		
3	XtendiMax	2.9	SL	22 fl oz/a		A		
3	*TTI - nozzles					B		
3	XtendiMax	2.9	SL	22 fl oz/a		B		
3	Roundup PowerMax	4.5	SL	32 fl oz/a		B		
3	Intact		L	0.5 % v/v		B		
4	RR2 Xtend soybean						14.5	49.7
4	*TTI - nozzles					A		
4	Rowel	51	WG	2 oz/a		A		
4	XtendiMax	2.9	SL	22 fl oz/a		A		
4	*TTI - nozzles					B		
4	Warrant	3	L	3 pt/a		B		
4	XtendiMax	2.9	SL	22 fl oz/a		B		
4	Roundup PowerMax	4.5	SL	32 fl oz/a		B		
4	Intact		L	0.5 % v/v		B		
5	LibertyLink soybean						14.9	21.1
5	Untreated							
6	LibertyLink soybean						14.2	46.1
6	*AIXR - nozzles					A		
6	Valor	51	WG	2 oz/a		A		
6	*AIXR - nozzles					B		
6	Liberty	2.34	L	29 fl oz/a		B		
6	AMS		WG	8.5 lb/100 gal		B		
7	LibertyLink soybean						14.0	48.8
7	*AIXR - nozzles					A		
7	Authority MAXX	66	WG	6.4 oz/a		A		
7	*AIXR - nozzles					B		
7	Liberty	2.34	L	29 fl oz/a		B		
7	AMS		WG	8.5 lb/100 gal		B		

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,11,12,14,16,17,21 because error mean square = 0.

**Weed control systems in RR2 Xtend and LibertyLink soybean**

Trial ID: SOY12-17

Location: Campus C-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code			
Crop Code		GLXMA	GLXMA
Rating Date		Oct-18-2017	Oct-18-2017
Rating Type		moisture	yield
Rating Unit		percent	bu/acre
Trt-Eval Interval		126 DA-B	at 13% M
Number of Decimals		1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
8	LibertyLink soybean						14.5	49.8
8	*AIXR - nozzles					A		
8	Authority MAXX	66	WG	6.4	oz/a	A		
8	*AIXR - nozzles					B		
8	Zidua	85	WG	2	oz/a	B		
8	Liberty	2.34	L	29	fl oz/a	B		
8	AMS		WG	8.5	lb/100 gal	B		
	LSD P=.05						1.41	6.29
	Standard Deviation						0.95	4.27
	CV						6.65	10.11

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,11,12,14,16,17,21 because error mean square = 0.