

No-till weed control systems in RR2 Xtend and LibertyLink soybean

Trial ID: NTS08-17 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus K123 Investigator: Christy Sprague

Planting Date: May-15-2017 **Row Spacing:** 30 IN
Variety: See comments **No. of Reps:** 4
Population: 155000 S/A **% OM:** 1.6
Soil Type: SL sandy loam **pH:** 5.5
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-tilled into chopped corn stalks

Fertilizer:

Crop and Weed Description			
Weed	Code	Common Name	Scientific Name
1	STEME	chickweed, common	Stellaria media
2	BARVU	rocket, yellow	Barbarea vulgaris
3	TAROF	dandelion	Taraxacum officinale
4	ERICA	horseweed	Conyza canadensis
5	PTLSI	Oldfield cinquefoil	Potentilla simplex
6	ANGR	mainly foxtail species	Annual grass
7	CHEAL	lambsquarters, common	Chenopodium album
8	AMBEL	ragweed, common	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description		
	A	B
Application Timing:	7 EPP	POST
Date Treated:	May-8-2017	Jun-27-2017
Time Treated:	4:15 PM	8:10 AM
% Cloud Cover:	0	0
Air Temp., Unit:	62 F	58.8 F
% Relative Humidity:	27	79
Wind Speed/Unit/Dir:	3.2 mph NW	4.8 mph NW
Soil Temp, Unit:	60 F	60 F
Leaf Moist/Dew Presence (Y/N):	5	3
Soil Moist:	4	4

Crop Stage at Each Application		
	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		6 "
Stage:		V3

Weed Stage at Each Application

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	A	B
Weed 1 Name:	STEME	STEME
Height:	6 "	
Stage:	flower	
Weed 2 Name:	BARVU	BARVU
Height:	12 "	
Stage:	flower	
Weed 3 Name:	TAROF	TAROF
Height:	8 "	
Stage:	flower	
Weed 4 Name:	ERICA	ERICA
Height:	6-8 " (6)	4 "
Stage:	many	many
Weed 5 Name:	PTLSI	PTLSI
Height:	2 "	4 "
Stage:	6L	10L
Weed 6 Name:	ANGR	ANGR
Height:	3 "	4 "
Stage:	3L	
Weed 7 Name:	CHEAL	CHEAL
Height:		3 "
Stage:		6L
Weed 8 Name:	AMBEL	AMBEL
Height:		3 "
Stage:		8L

	Weed Density							
	1	2	3	4	5	6	7	8
Date:	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017
Weed Name:	STEME	BARVU	TAROF	ERICA	PTLSI	ANGR	CHEAL	AMBEL
Density:	2 FT2	1 FT2	2 FT2	1 FT2	1 FT2	5 FT2	2 FT2	1 FT2

Application Equipment										
Appl	Sprayer	Ground	Nozzle	Nozzle	Nozzle	Nozzle	Boom	Spray	Carrier	Operation
	Type	Speed	Type	Size	Height	Spacing	Width	Volume		Pressure
A	Cub	3.8 MPH	See Notes	11003	23 "	20 "	100 "	19 GPA	WATER	30 PSI
B	Cub	3.8 MPH	See Notes	11003	26 "	20 "	100 "	19 GPA	water	30 PSI

Comments: Varieties:Asgrow 25X6 and Credenz CZ2312LL Nozzles: TTI and AIXR

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Crop Code					
Rating Date	May-15-2017	May-15-2017	May-15-2017	May-15-2017	May-15-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR 2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR 2 Xtend soybean						52	100	87	100	88
2	*TTI - nozzles					A					
2	XtendiMax	2.9	SL	22	fl oz/a	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
2	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						69	100	100	100	95
3	*TTI - nozzles					A					
3	Rowel	51	WG	2	oz/a	A					
3	XtendiMax	2.9	SL	22	fl oz/a	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
3	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						84	100	85	100	90
4	*TTI - nozzles					A					
4	Rowel	51	WG	2	oz/a	A					
4	XtendiMax	2.9	SL	22	fl oz/a	A					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
4	Intact		L	0.5	% v/v	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						86	100	100	100	102
6	*AIXR - nozzles					A					
6	2,4-D ester	4	L	1	pt/a	A					
6	Roundup PowerMax	4.5	SL	32	fl 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					

* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,4,7,16,20,25 because error mean square = 0.

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	STEME	BARVU	TAROF	ERICA	PTLSI
Pest Code					
Crop Code					
Rating Date	May-15-2017	May-15-2017	May-15-2017	May-15-2017	May-15-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
7	LibertyLink soybean						85	100	100	100	100
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	2,4-D ester	4	L	1	pt/a	A					
7	Roundup PowerMax	4.5	SL	32	fl 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					
8	LibertyLink soybean						89	100	98	100	95
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	2,4-D ester	4	L	1	pt/a	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	*AIXR - nozzles					B					
8	Anthem MAXX	4.3	L	3	fl 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						7.7	.	16.7	.	16.5
Standard Deviation							5.2	0.0	11.3	0.0	11.2
CV							9.1	0.0	16.21	0.0	16.09

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Pest Code	ANGR	GLXMA	ANGR	CHEAL	AMBEL
Crop Code					
Rating Date	May-15-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017
Rating Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR 2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR 2 Xtend soybean						82	0	63	74	96
2	*TTI - nozzles					A					
2	XtendiMax	2.9	SL		22 fl oz/a	A					
2	Roundup PowerMax	4.5	SL		32 fl oz/a	A					
2	Intact		L		0.5 % v/v	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	RR 2 Xtend soybean						79	0	73	98	100
3	*TTI - nozzles					A					
3	Rowel	51	WG		2 oz/a	A					
3	XtendiMax	2.9	SL		22 fl oz/a	A					
3	Roundup PowerMax	4.5	SL		32 fl oz/a	A					
3	Intact		L		0.5 % v/v	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	RR 2 Xtend soybean						68	0	81	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	Roundup PowerMax	4.5	SL		32 fl oz/a	A					
4	Intact		L		0.5 % v/v	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						64	0	73	69	90
6	*AIXR - nozzles					A					
6	2,4-D ester	4	L		1 pt/a	A					
6	Roundup PowerMax	4.5	SL		32 fl 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					

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Pest Code	ANGR		ANGR	CHEAL	AMBEL
Crop Code		GLXMA			
Rating Date	May-15-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017	Jun-27-2017
Rating Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
7	LibertyLink soybean						61	0	86	100	99
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	2,4-D ester	4	L	1	pt/a	A					
7	Roundup PowerMax	4.5	SL	32	fl 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					
8	LibertyLink soybean						58	0	91	100	100
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	2,4-D ester	4	L	1	pt/a	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	*AIXR - nozzles					B					
8	Anthem MAXX	4.3	L	3	fl 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						18.8	.	13.4	9.9	5.9
Standard Deviation							12.7	0.0	9.1	6.7	4.0
CV							25.49	0.0	15.77	9.97	5.51

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Pest Code	ERICA	PTLSI	GLXMA	ANGR	CHEAL
Crop Code					
Rating Date	Jun-27-2017	Jun-27-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 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	*	*	*	*	*
1	RR 2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR 2 Xtend soybean						100	90	0	100	95
2	*TTI - nozzles					A					
2	XtendiMax	2.9	SL		22 fl oz/a	A					
2	Roundup PowerMax	4.5	SL		32 fl oz/a	A					
2	Intact		L		0.5 % v/v	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	RR 2 Xtend soybean						100	90	1	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	Roundup PowerMax	4.5	SL		32 fl oz/a	A					
3	Intact		L		0.5 % v/v	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	RR 2 Xtend soybean						100	91	1	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	Roundup PowerMax	4.5	SL		32 fl oz/a	A					
4	Intact		L		0.5 % v/v	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						96	98	2	86	92
6	*AIXR - nozzles					A					
6	2,4-D ester	4	L		1 pt/a	A					
6	Roundup PowerMax	4.5	SL		32 fl 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					

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Pest Code	ERICA	PTLSI	GLXMA	ANGR	CHEAL
Crop Code					
Rating Date	Jun-27-2017	Jun-27-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 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	*	*	*	*	*
7	LibertyLink soybean						100	100	14	100	100
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	2,4-D ester	4	L	1	pt/a	A					
7	Roundup PowerMax	4.5	SL	32	fl 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					
8	LibertyLink soybean						100	99	23	100	100
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	2,4-D ester	4	L	1	pt/a	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	*AIXR - nozzles					B					
8	Anthem MAXX	4.3	L	3	fl 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						3.1	11.3	5.6	6.4	5.0
Standard Deviation							2.1	7.6	3.8	4.3	3.4
CV							2.88	11.0	73.99	5.98	4.69

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Pest Code	AMBEL	TAROF	ERICA	PTLSI	GLXMA
Crop Code					
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Sep-21-2017
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	86 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR 2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR 2 Xtend soybean						100	98	100	92	0
2	*TTI - nozzles					A					
2	XtendiMax	2.9	SL	22	fl oz/a	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
2	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						100	100	100	94	0
3	*TTI - nozzles					A					
3	Rowel	51	WG	2	oz/a	A					
3	XtendiMax	2.9	SL	22	fl oz/a	A					
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
3	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						100	100	99	98	0
4	*TTI - nozzles					A					
4	Rowel	51	WG	2	oz/a	A					
4	XtendiMax	2.9	SL	22	fl oz/a	A					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
4	Intact		L	0.5	% v/v	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						100	100	100	93	0
6	*AIXR - nozzles					A					
6	2,4-D ester	4	L	1	pt/a	A					
6	Roundup PowerMax	4.5	SL	32	fl 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					

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Pest Code	AMBEL	TAROF	ERICA	PTLSI	GLXMA
Crop Code					
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Sep-21-2017
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	86 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
7	LibertyLink soybean						100	100	100	95	0
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	2,4-D ester	4	L	1	pt/a	A					
7	Roundup PowerMax	4.5	SL	32	fl 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					
8	LibertyLink soybean						100	100	100	100	0
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	2,4-D ester	4	L	1	pt/a	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	*AIXR - nozzles					B					
8	Anthem MAXX	4.3	L	3	fl 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						.	1.4	1.4	6.9	.
Standard Deviation							0.0	1.0	0.9	4.6	0.0
CV							0.0	1.33	1.27	6.62	0.0

* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,4,7,16,20,25 because error mean square = 0.

No-till weed control systems in RR2 Xtend and LibertyLink soybean

Trial ID: NTS08-17

Location: Campus K123

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	TAROF	ERICA
Crop Code					
Rating Date	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	86 DA-B	86 DA-B	86 DA-B	86 DA-B	86 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	RR 2 Xtend soybean						0	0	0	0	0
1	Untreated										
2	RR 2 Xtend soybean						76	94	100	99	100
2	*TTI - nozzles					A					
2	XtendiMax	2.9	SL	22	fl oz/a	A					
2	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
2	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						89	100	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	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
3	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						94	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	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
4	Intact		L	0.5	% v/v	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						73	86	98	100	100
6	*AIXR - nozzles					A					
6	2,4-D ester	4	L	1	pt/a	A					
6	Roundup PowerMax	4.5	SL	32	fl 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					

* Adjusted means

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No-till weed control systems in RR2 Xtend and LibertyLink soybean

Trial ID: NTS08-17

Location: Campus K123

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	TAROF	ERICA
Crop Code					
Rating Date	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017	Sep-21-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	86 DA-B	86 DA-B	86 DA-B	86 DA-B	86 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
7	LibertyLink soybean						88	100	99	100	100
7	*AIXR - nozzles					A					
7	Authority MAXX	66	WG	6.4	oz/a	A					
7	2,4-D ester	4	L	1	pt/a	A					
7	Roundup PowerMax	4.5	SL	32	fl 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					
8	LibertyLink soybean						94	100	99	100	100
8	*AIXR - nozzles					A					
8	Authority MAXX	66	WG	6.4	oz/a	A					
8	2,4-D ester	4	L	1	pt/a	A					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	*AIXR - nozzles					B					
8	Anthem MAXX	4.3	L	3	fl 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						10.6	7.4	1.7	0.5	.
Standard Deviation							7.2	5.0	1.1	0.3	0.0
CV							11.28	6.98	1.57	0.47	0.0

* Adjusted means

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No-till weed control systems in RR2 Xtend and LibertyLink soybean

Trial ID: NTS08-17

Location: Campus K123

Investigator: Christy Sprague
Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	Oct-19-2017	Oct-19-2017
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	114 DA-B	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
1	RR 2 Xtend soybean						9.3	10.7
1	Untreated							
2	RR 2 Xtend soybean						12.5	33.1
2	*TTI - nozzles					A		
2	XtendiMax	2.9	SL	22	fl oz/a	A		
2	Roundup PowerMax	4.5	SL	32	fl oz/a	A		
2	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						12.1	34.0
3	*TTI - nozzles					A		
3	Rowel	51	WG	2	oz/a	A		
3	XtendiMax	2.9	SL	22	fl oz/a	A		
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A		
3	Intact		L	0.5	% v/v	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	RR 2 Xtend soybean						12.3	32.8
4	*TTI - nozzles					A		
4	Rowel	51	WG	2	oz/a	A		
4	XtendiMax	2.9	SL	22	fl oz/a	A		
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A		
4	Intact		L	0.5	% v/v	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						10.7	14.9
5	Untreated							
6	LibertyLink soybean						12.9	27.0
6	*AIXR - nozzles					A		
6	2,4-D ester	4	L	1	pt/a	A		
6	Roundup PowerMax	4.5	SL	32	fl 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		

* Adjusted means

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No-till weed control systems in RR2 Xtend and LibertyLink soybean

Trial ID: NTS08-17

Location: Campus K123

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code		
Crop Code	GLXMA	GLXMA
Rating Date	Oct-19-2017	Oct-19-2017
Rating Type	moisture	yield
Rating Unit	percent	bu/acre
Trt-Eval Interval	114 DA-B	at 13% M
Number of Decimals	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
7	LibertyLink soybean						12.2	35.3
7	*AIXR - nozzles					A		
7	Authority MAXX	66	WG	6.4	oz/a	A		
7	2,4-D ester	4	L	1	pt/a	A		
7	Roundup PowerMax	4.5	SL	32	fl 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		
8	LibertyLink soybean						12.0	31.1
8	*AIXR - nozzles					A		
8	Authority MAXX	66	WG	6.4	oz/a	A		
8	2,4-D ester	4	L	1	pt/a	A		
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A		
8	*AIXR - nozzles					B		
8	Anthem MAXX	4.3	L	3	fl 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						1.72	8.43
	Standard Deviation						1.16	5.69
	CV						9.95	20.88

* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,4,7,16,20,25 because error mean square = 0.