

**Comparison of PRE residual herbicides in RR2 Xtend soybean**

Trial ID: SOY06-17 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus C-14 Investigator: Christy Sprague

**Planting Date:** May-9-2017 **Row Spacing:** 30 IN  
**Variety:** AG25X6 **No. of Reps:** 4  
**Population:** 155000 seeds/A **% OM:** 2.7  
**Soil Type:** L loam **pH:** 6.6  
**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	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

**Application Description**

	A	B
<b>Application Timing:</b>	PRE	POST
<b>Date Treated:</b>	May-9-2017	Jun-14-2017
<b>Time Treated:</b>	3:00 PM	4:15 PM
<b>% Cloud Cover:</b>	30	30
<b>Air Temp., Unit:</b>	60 F	92 F
<b>% Relative Humidity:</b>	24	51
<b>Wind Speed/Unit/Dir:</b>	3 mph SSW	2.5 mph
<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>		7 "
<b>Stage:</b>		V3

**Weed Stage at Each Application**

	A	B
<b>Weed 1 Name:</b>	ANGR	ANGR
<b>Height:</b>		4-6 " (5)
<b>Stage:</b>		4-5L
<b>Weed 2 Name:</b>	CHEAL	CHEAL
<b>Height:</b>		3-5 " (4)
<b>Stage:</b>		8-10L
<b>Weed 3 Name:</b>	AMBEL	AMBEL
<b>Height:</b>		3-5 " (4)
<b>Stage:</b>		6-8L
<b>Weed 4 Name:</b>	ABUTH	ABUTH
<b>Height:</b>		2-3 " (2.5)
<b>Stage:</b>		4-6L

**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	ABUTH
<b>Density:</b>	39 FT2	4 FT2	13 FT2	1 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	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 PSI
B	Cub	3.8 MPH	TTI	11003	24 "	20 "	100 "	19 GPA	WATER	25 PSI

**Comments:** The common ragweed population at this location is resistant to the ALS-inhibiting (Group 2) herbicides.

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Study Director: Sprague, Powell, Stiles

Pest Code		ANGR	CHEAL	AMBEL	ABUTH
Crop Code	GLXMA				
Rating Date	May-30-2017	May-30-2017	May-30-2017	May-30-2017	May-30-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Prefix	5.29	L	2	pt/a	A	0	84	76	79	88
1	XtendiMax	2.9	SL	22	fl oz/a	B					
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
1	Class Act Ridion		L	1	% v/v	B					
2	Prefix	5.29	L	2	pt/a	A	0	91	88	80	96
2	Metribuzin	75	WG	6	oz/a	A					
2	XtendiMax	2.9	SL	22	fl oz/a	B					
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
2	Class Act Ridion		L	1	% v/v	B					
3	Prefix	5.29	L	2	pt/a	A	0	79	81	81	89
3	Canopy	75	WG	2.25	oz/a	A					
3	XtendiMax	2.9	SL	22	fl oz/a	B					
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
3	Class Act Ridion		L	1	% v/v	B					
4	Boundary	6.5	L	1.75	pt/a	A	0	80	73	50	83
4	XtendiMax	2.9	SL	22	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
4	Class Act Ridion		L	1	% v/v	B					
5	Boundary	6.5	L	1.75	pt/a	A	0	83	91	88	98
5	Canopy	75	WG	2.25	oz/a	A					
5	XtendiMax	2.9	SL	22	fl oz/a	B					
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
5	Class Act Ridion		L	1	% v/v	B					
6	Untreated						0	0	0	0	0
7	Boundary	6.5	L	1.75	pt/a	A	0	97	99	100	100
7	XtendiMax	2.9	SL	22	fl oz/a	A					
7	XtendiMax	2.9	SL	22	fl oz/a	B					
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
7	Class Act Ridion		L	1	% v/v	B					
8	BroadAxe XC	7	L	25	fl oz/a	A	0	85	89	79	96
8	Metribuzin	75	WG	6	oz/a	A					
8	XtendiMax	2.9	SL	22	fl oz/a	B					
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
8	Class Act Ridion		L	1	% v/v	B					
9	Sonic	70	WG	4.5	oz/a	A	0	83	89	73	98
9	XtendiMax	2.9	SL	22	fl oz/a	B					
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B					
9	Class Act Ridion		L	1	% v/v	B					

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.

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Pest Code		ANGR	CHEAL	AMBEL	ABUTH
Crop Code	GLXMA				
Rating Date	May-30-2017	May-30-2017	May-30-2017	May-30-2017	May-30-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A		0	90	84	78	93
10	XtendiMax	2.9	SL	22 fl oz/a	B						
10	Roundup PowerMax	4.5	SL	26 fl oz/a	B						
10	Class Act Ridion		L	1 % v/v	B						
LSD P=.05							.	15.1	16.7	17.0	10.5
Standard Deviation							0.0	10.4	11.5	11.7	7.3
CV							0.0	13.5	14.99	16.61	8.66

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Pest Code	ANGL	CHEAL	AMBEL	ABUTH	GLXMA
Crop Code	GLXMA				GLXMA
Rating Date	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-21-2017
Rating Type	injury	injury	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	36 DA-A	36 DA-A	36 DA-A	36 DA-A	7 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Prefix	5.29	L	2	pt/a	A	0	77	38	68	50	0
1	XtendiMax	2.9	SL	22	fl oz/a	B						
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
1	Class Act Ridion		L	1	% v/v	B						
2	Prefix	5.29	L	2	pt/a	A	0	78	85	80	94	0
2	Metribuzin	75	WG	6	oz/a	A						
2	XtendiMax	2.9	SL	22	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
2	Class Act Ridion		L	1	% v/v	B						
3	Prefix	5.29	L	2	pt/a	A	0	71	80	72	70	0
3	Canopy	75	WG	2.25	oz/a	A						
3	XtendiMax	2.9	SL	22	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
3	Class Act Ridion		L	1	% v/v	B						
4	Boundary	6.5	L	1.75	pt/a	A	0	73	65	54	78	0
4	XtendiMax	2.9	SL	22	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
4	Class Act Ridion		L	1	% v/v	B						
5	Boundary	6.5	L	1.75	pt/a	A	0	80	96	75	100	0
5	Canopy	75	WG	2.25	oz/a	A						
5	XtendiMax	2.9	SL	22	fl oz/a	B						
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
5	Class Act Ridion		L	1	% v/v	B						
6	Untreated						0	0	0	0	0	0
7	Boundary	6.5	L	1.75	pt/a	A	0	89	100	97	100	0
7	XtendiMax	2.9	SL	22	fl oz/a	A						
7	XtendiMax	2.9	SL	22	fl oz/a	B						
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
7	Class Act Ridion		L	1	% v/v	B						
8	BroadAxe XC	7	L	25	fl oz/a	A	0	80	95	68	85	0
8	Metribuzin	75	WG	6	oz/a	A						
8	XtendiMax	2.9	SL	22	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
8	Class Act Ridion		L	1	% v/v	B						
9	Sonic	70	WG	4.5	oz/a	A	0	70	99	59	100	0
9	XtendiMax	2.9	SL	22	fl oz/a	B						
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
9	Class Act Ridion		L	1	% v/v	B						

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Crop Code	GLXMA					GLXMA
Rating Date	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-21-2017
Rating Type	injury	injury	injury	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	36 DA-A	36 DA-A	36 DA-A	36 DA-A	36 DA-A	7 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6	fl oz/a	A	0	84	94	68	96	0
10	XtendiMax	2.9	SL	22	fl oz/a	B						
10	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
10	Class Act Ridion		L	1	% v/v	B						
	LSD P=.05						.	6.8	16.2	9.6	15.7	.
	Standard Deviation						0.0	4.7	11.2	6.6	10.8	0.0
	CV						0.0	6.65	14.88	10.35	13.98	0.0

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Pest Code					ANGR	CHEAL	AMBEL	ABUTH	GLXMA	ANGR		
Crop Code												
Rating Date					Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-28-2017	Jun-28-2017		
Rating Type					control	control	control	control	injury	control		
Rating Unit					percent	percent	percent	percent	percent	percent		
Trt-Eval Interval					7 DA-B	7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B		
Number of Decimals					0	0	0	0	0	0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Appl Code	*	*	*	*	*	
1	Prefix	5.29	L	2	pt/a	A	99	93	99	96	0	99
1	XtendiMax	2.9	SL	22	fl oz/a	B						
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
1	Class Act Ridion		L	1	% v/v	B						
2	Prefix	5.29	L	2	pt/a	A	100	100	99	100	0	99
2	Metribuzin	75	WG	6	oz/a	A						
2	XtendiMax	2.9	SL	22	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
2	Class Act Ridion		L	1	% v/v	B						
3	Prefix	5.29	L	2	pt/a	A	98	100	99	100	0	99
3	Canopy	75	WG	2.25	oz/a	A						
3	XtendiMax	2.9	SL	22	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
3	Class Act Ridion		L	1	% v/v	B						
4	Boundary	6.5	L	1.75	pt/a	A	99	98	98	100	0	99
4	XtendiMax	2.9	SL	22	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
4	Class Act Ridion		L	1	% v/v	B						
5	Boundary	6.5	L	1.75	pt/a	A	100	100	99	100	0	99
5	Canopy	75	WG	2.25	oz/a	A						
5	XtendiMax	2.9	SL	22	fl oz/a	B						
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
5	Class Act Ridion		L	1	% v/v	B						
6	Untreated						0	0	0	0	0	0
7	Boundary	6.5	L	1.75	pt/a	A	100	100	100	100	0	98
7	XtendiMax	2.9	SL	22	fl oz/a	A						
7	XtendiMax	2.9	SL	22	fl oz/a	B						
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
7	Class Act Ridion		L	1	% v/v	B						
8	BroadAxe XC	7	L	25	fl oz/a	A	99	100	98	100	0	100
8	Metribuzin	75	WG	6	oz/a	A						
8	XtendiMax	2.9	SL	22	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
8	Class Act Ridion		L	1	% v/v	B						
9	Sonic	70	WG	4.5	oz/a	A	94	100	97	100	0	92
9	XtendiMax	2.9	SL	22	fl oz/a	B						
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
9	Class Act Ridion		L	1	% v/v	B						

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Pest Code	ANGR	CHEAL	AMBEL	ABUTH		ANGR
Crop Code					GLXMA	
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-28-2017	Jun-28-2017
Rating Type	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A		98	100	98	100	0	98
10	XtendiMax	2.9	SL	22 fl oz/a	B							
10	Roundup PowerMax	4.5	SL	26 fl oz/a	B							
10	Class Act Ridion		L	1 % v/v	B							
	LSD P=.05						2.4	2.6	3.1	2.6	.	2.1
	Standard Deviation						1.6	1.8	2.1	1.8	0.0	1.5
	CV						1.84	1.99	2.38	2.0	0.0	1.65

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Pest Code	CHEAL	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017
Rating Type	control	control	control	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Prefix	5.29	L	2	pt/a	A	100	100	100	0	99	100
1	XtendiMax	2.9	SL	22	fl oz/a	B						
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
1	Class Act Ridion		L	1	% v/v	B						
2	Prefix	5.29	L	2	pt/a	A	100	100	100	0	98	100
2	Metribuzin	75	WG	6	oz/a	A						
2	XtendiMax	2.9	SL	22	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
2	Class Act Ridion		L	1	% v/v	B						
3	Prefix	5.29	L	2	pt/a	A	100	100	100	0	98	100
3	Canopy	75	WG	2.25	oz/a	A						
3	XtendiMax	2.9	SL	22	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
3	Class Act Ridion		L	1	% v/v	B						
4	Boundary	6.5	L	1.75	pt/a	A	100	100	100	0	96	100
4	XtendiMax	2.9	SL	22	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
4	Class Act Ridion		L	1	% v/v	B						
5	Boundary	6.5	L	1.75	pt/a	A	100	100	100	0	97	100
5	Canopy	75	WG	2.25	oz/a	A						
5	XtendiMax	2.9	SL	22	fl oz/a	B						
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
5	Class Act Ridion		L	1	% v/v	B						
6	Untreated						0	0	0	0	0	0
7	Boundary	6.5	L	1.75	pt/a	A	100	100	100	0	99	100
7	XtendiMax	2.9	SL	22	fl oz/a	A						
7	XtendiMax	2.9	SL	22	fl oz/a	B						
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
7	Class Act Ridion		L	1	% v/v	B						
8	BroadAxe XC	7	L	25	fl oz/a	A	100	100	100	0	98	100
8	Metribuzin	75	WG	6	oz/a	A						
8	XtendiMax	2.9	SL	22	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
8	Class Act Ridion		L	1	% v/v	B						
9	Sonic	70	WG	4.5	oz/a	A	100	100	100	0	88	100
9	XtendiMax	2.9	SL	22	fl oz/a	B						
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
9	Class Act Ridion		L	1	% v/v	B						

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Pest Code	CHEAL	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jun-28-2017	Jun-28-2017	Jun-28-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017
Rating Type	control	control	control	injury	injury	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A		100	100	100	0	100	100
10	XtendiMax	2.9	SL	22 fl oz/a	B							
10	Roundup PowerMax	4.5	SL	26 fl oz/a	B							
10	Class Act Ridion		L	1 % v/v	B							
LSD P=.05							.	0.3	0.3	.	2.8	.
Standard Deviation							0.0	0.2	0.2	0.0	1.9	0.0
CV							0.0	0.2	0.25	0.0	2.19	0.0

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Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMBEL
Crop Code						
Rating Date	Jul-12-2017	Jul-12-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017
Rating Type	injury	injury	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 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	*	*	*	*	*	*
1	Prefix	5.29	L	2	pt/a	A	100	100	0	100	100	100
1	XtendiMax	2.9	SL	22	fl oz/a	B						
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
1	Class Act Ridion		L	1	% v/v	B						
2	Prefix	5.29	L	2	pt/a	A	100	100	0	100	100	100
2	Metribuzin	75	WG	6	oz/a	A						
2	XtendiMax	2.9	SL	22	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
2	Class Act Ridion		L	1	% v/v	B						
3	Prefix	5.29	L	2	pt/a	A	100	100	0	99	100	100
3	Canopy	75	WG	2.25	oz/a	A						
3	XtendiMax	2.9	SL	22	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
3	Class Act Ridion		L	1	% v/v	B						
4	Boundary	6.5	L	1.75	pt/a	A	100	100	0	99	100	100
4	XtendiMax	2.9	SL	22	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
4	Class Act Ridion		L	1	% v/v	B						
5	Boundary	6.5	L	1.75	pt/a	A	100	100	0	98	100	100
5	Canopy	75	WG	2.25	oz/a	A						
5	XtendiMax	2.9	SL	22	fl oz/a	B						
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
5	Class Act Ridion		L	1	% v/v	B						
6	Untreated						0	0	0	0	0	0
7	Boundary	6.5	L	1.75	pt/a	A	100	100	0	100	100	100
7	XtendiMax	2.9	SL	22	fl oz/a	A						
7	XtendiMax	2.9	SL	22	fl oz/a	B						
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
7	Class Act Ridion		L	1	% v/v	B						
8	BroadAxe XC	7	L	25	fl oz/a	A	100	100	0	100	100	100
8	Metribuzin	75	WG	6	oz/a	A						
8	XtendiMax	2.9	SL	22	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
8	Class Act Ridion		L	1	% v/v	B						
9	Sonic	70	WG	4.5	oz/a	A	100	100	0	96	100	99
9	XtendiMax	2.9	SL	22	fl oz/a	B						
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
9	Class Act Ridion		L	1	% v/v	B						

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.

Comparison of PRE residual herbicides in RR2 Xtend soybean

Trial ID: SOY06-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	AMBEL
Crop Code						
Rating Date	Jul-12-2017	Jul-12-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017	Jul-26-2017
Rating Type	injury	injury	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 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	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A		100	100	0	100	100	100
10	XtendiMax	2.9	SL	22 fl oz/a	B							
10	Roundup PowerMax	4.5	SL	26 fl oz/a	B							
10	Class Act Ridion		L	1 % v/v	B							
	LSD P=.05						0.2	.	.	1.8	.	0.7
	Standard Deviation						0.2	0.0	0.0	1.2	0.0	0.5
	CV						0.18	0.0	0.0	1.39	0.0	0.53

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.

## Comparison of PRE residual herbicides in RR2 Xtend soybean

Trial ID: SOY06-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH	GLXMA	ANGR	CHEAL	AMBEL	ABUTH
Crop Code						
Rating Date	Jul-26-2017	Aug-9-2017	Aug-9-2017	Aug-9-2017	Aug-9-2017	Aug-9-2017
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	42 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Prefix	5.29	L	2	pt/a	A	99	0	98	100	100	100
1	XtendiMax	2.9	SL	22	fl oz/a	B						
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
1	Class Act Ridion		L	1	% v/v	B						
2	Prefix	5.29	L	2	pt/a	A	100	0	99	100	100	100
2	Metribuzin	75	WG	6	oz/a	A						
2	XtendiMax	2.9	SL	22	fl oz/a	B						
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
2	Class Act Ridion		L	1	% v/v	B						
3	Prefix	5.29	L	2	pt/a	A	100	0	100	100	100	100
3	Canopy	75	WG	2.25	oz/a	A						
3	XtendiMax	2.9	SL	22	fl oz/a	B						
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
3	Class Act Ridion		L	1	% v/v	B						
4	Boundary	6.5	L	1.75	pt/a	A	100	0	99	100	100	100
4	XtendiMax	2.9	SL	22	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
4	Class Act Ridion		L	1	% v/v	B						
5	Boundary	6.5	L	1.75	pt/a	A	100	0	97	100	100	100
5	Canopy	75	WG	2.25	oz/a	A						
5	XtendiMax	2.9	SL	22	fl oz/a	B						
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
5	Class Act Ridion		L	1	% v/v	B						
6	Untreated						0	0	0	0	0	0
7	Boundary	6.5	L	1.75	pt/a	A	100	0	98	100	100	100
7	XtendiMax	2.9	SL	22	fl oz/a	A						
7	XtendiMax	2.9	SL	22	fl oz/a	B						
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
7	Class Act Ridion		L	1	% v/v	B						
8	BroadAxe XC	7	L	25	fl oz/a	A	100	0	100	100	100	100
8	Metribuzin	75	WG	6	oz/a	A						
8	XtendiMax	2.9	SL	22	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
8	Class Act Ridion		L	1	% v/v	B						
9	Sonic	70	WG	4.5	oz/a	A	100	0	88	100	99	100
9	XtendiMax	2.9	SL	22	fl oz/a	B						
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B						
9	Class Act Ridion		L	1	% v/v	B						

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.

**Comparison of PRE residual herbicides in RR2 Xtend soybean**

Trial ID: SOY06-17

Location: Campus C-14

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ABUTH		ANGR	CHEAL	AMBEL	ABUTH
Crop Code		GLXMA				
Rating Date	Jul-26-2017	Aug-9-2017	Aug-9-2017	Aug-9-2017	Aug-9-2017	Aug-9-2017
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	42 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A		100	0	100	100	100	100
10	XtendiMax	2.9	SL	22 fl oz/a	B							
10	Roundup PowerMax	4.5	SL	26 fl oz/a	B							
10	Class Act Ridion		L	1 % v/v	B							
	LSD P=.05						0.7	.	2.0	.	1.1	.
	Standard Deviation						0.5	0.0	1.4	0.0	0.8	0.0
	CV						0.53	0.0	1.6	0.0	0.88	0.0

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.

## Comparison of PRE residual herbicides in RR2 Xtend soybean

Trial ID: SOY06-17

Location: Campus C-14

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	*	*
1	Prefix	5.29	L	2	pt/a	A	12.3	51.3
1	XtendiMax	2.9	SL	22	fl oz/a	B		
1	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
1	Class Act Ridion		L	1	% v/v	B		
2	Prefix	5.29	L	2	pt/a	A	12.2	51.9
2	Metribuzin	75	WG	6	oz/a	A		
2	XtendiMax	2.9	SL	22	fl oz/a	B		
2	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
2	Class Act Ridion		L	1	% v/v	B		
3	Prefix	5.29	L	2	pt/a	A	12.3	50.7
3	Canopy	75	WG	2.25	oz/a	A		
3	XtendiMax	2.9	SL	22	fl oz/a	B		
3	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
3	Class Act Ridion		L	1	% v/v	B		
4	Boundary	6.5	L	1.75	pt/a	A	12.3	49.2
4	XtendiMax	2.9	SL	22	fl oz/a	B		
4	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
4	Class Act Ridion		L	1	% v/v	B		
5	Boundary	6.5	L	1.75	pt/a	A	12.3	49.9
5	Canopy	75	WG	2.25	oz/a	A		
5	XtendiMax	2.9	SL	22	fl oz/a	B		
5	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
5	Class Act Ridion		L	1	% v/v	B		
6	Untreated						8.5	10.8
7	Boundary	6.5	L	1.75	pt/a	A	12.4	46.4
7	XtendiMax	2.9	SL	22	fl oz/a	A		
7	XtendiMax	2.9	SL	22	fl oz/a	B		
7	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
7	Class Act Ridion		L	1	% v/v	B		
8	BroadAxe XC	7	L	25	fl oz/a	A	12.2	53.7
8	Metribuzin	75	WG	6	oz/a	A		
8	XtendiMax	2.9	SL	22	fl oz/a	B		
8	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
8	Class Act Ridion		L	1	% v/v	B		
9	Sonic	70	WG	4.5	oz/a	A	12.3	47.0
9	XtendiMax	2.9	SL	22	fl oz/a	B		
9	Roundup PowerMax	4.5	SL	26	fl oz/a	B		
9	Class Act Ridion		L	1	% v/v	B		

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.

**Comparison of PRE residual herbicides in RR2 Xtend soybean**

Trial ID: SOY06-17

Location: Campus C-14

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	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A		12.4	48.7
10	XtendiMax	2.9	SL	22 fl oz/a	B			
10	Roundup PowerMax	4.5	SL	26 fl oz/a	B			
10	Class Act Ridion		L	1 % v/v	B			
	LSD P=.05						1.01	4.62
	Standard Deviation						0.70	3.19
	CV						5.84	6.94

\* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,6,11,16,18,21,23,25,26,28,31,33,35 because error mean square = 0.