

Weed control with current regulations for RR2 Xtend soybean

Trial ID: SOY21-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus B-8 (Adams) Investigator: Christy Sprague

Planting Date: May-25-2016 **Row Spacing:** 30 IN
Variety: AG 25X6 RR EXTEND **No. of Reps:** 4
Population: 150000 seeds/A **% OM:** 2.8
Soil Type: SCL sandy clay loam **pH:** 6.9
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed spring soil finished
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	AMAPO	amaranth, Powell	Amaranthus powellii
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B	C
Application Timing:	PRE	POST	LPOS
Date Treated:	May-25-2016	Jun-21-2016	Jul-5-2016
Time Treated:	5:15 PM	10:45 AM	8:15 AM
% Cloud Cover:	60	0	10
Air Temp., Unit:	83 F	70 F	72 F
% Relative Humidity:	44	53	74
Wind Speed/Unit/Dir:	5 mph SW	4 mph SW	2 mph W
Soil Temp, Unit:	70 F	72 F	70 F
Leaf Moist/Dew Presence (Y/N):	5	5	5
Soil Moist:	4	5	5

Crop Stage at Each Application

	A	B	C
Crop 1 Name:	GLXMA	GLXMA	GLXMA
Height:		8-10 " (10)	12 "
Stage:		V3	V4

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height:		6-10 " (8)	8-12 " (10)
Stage:		4L	10L
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height:		4 "	6 "
Stage:		10L	many
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height:		4-12 " (8)	8-12 " (10)
Stage:		many	many

Application Equipment

Appl	Sprayer	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 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
C	CUB	3.8 MPH	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments:

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Pest Code		ANGR	CHEAL	AMAPO		ANGR	CHEAL
Crop Code	GLXMA				GLXMA		
Rating Date	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016
Rating Type	injury	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-B	6 DA-B	6 DA-B	6 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Untreated				0	0	0	0	0	0
2	NON-BUFFER				0	81	85	85	0	74
	2 Rowel FX	3.5 oz/a		A						
	2 Clarity	1 pt/a		B						
	2 Roundup PowerMax	32 fl oz/a		C						
	2 Warrant	3 pt/a		C						
	2 AMS	17 lb/100 gal		C						
3	NON-BUFFER				0	100	100	100	0	100
	3 Rowel FX	3.5 oz/a		A						
	3 Roundup PowerMax	32 fl oz/a		B						
	3 Warrant	3 pt/a		B						
	3 AMS	17 lb/100 gal		B						
	3 Clarity	1 pt/a		C						
4	NON-BUFFER				0	98	100	100	0	95
	4 Fierce XLT	4 oz/a		A						
	4 Clarity	1 pt/a		B						
	4 Roundup PowerMax	32 fl oz/a		C						
	4 Warrant	3 pt/a		C						
	4 AMS	17 lb/100 gal		C						
5	NON-BUFFER				0	99	100	100	0	100
	5 Fierce XLT	4 oz/a		A						
	5 Roundup PowerMax	32 fl oz/a		B						
	5 Warrant	3 pt/a		B						
	5 AMS	17 lb/100 gal		B						
	5 Clarity	1 pt/a		C						
6	BUFFER				21	100	100	100	18	100
	6 Rowel FX	3.5 oz/a		A						
	6 Roundup PowerMax	32 fl oz/a		B						
	6 Warrant Ultra	3 pt/a		B						
	6 AMS	17 lb/100 gal		B						
7	BUFFER				20	100	100	100	9	100
	7 Fierce XLT	4 oz/a		A						
	7 Roundup PowerMax	32 fl oz/a		B						
	7 Warrant Ultra	3 pt/a		B						
	7 AMS	17 lb/100 gal		B						

Missing data estimates are included in columns: Average=17,18,19,20

Could not calculate LSD (% mean diff) for columns 11,12,15,16,17,18,19,20 because error mean square = 0.

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Crop Code	GLXMA				GLXMA		
Rating Date	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016
Rating Type	injury	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	6 DA-B	6 DA-B	6 DA-B	6 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code							
8	BUFFER				19	100	100	100	18	100	100
8	Rowel FX	3.5 oz/a		A							
8	Metribuzin	8 oz/a		A							
8	Roundup PowerMax	32 fl oz/a		B							
8	Warrant Ultra	3 pt/a		B							
8	AMS	17 lb/100 gal		B							
9	BUFFER				14	100	100	100	6	100	100
9	Fierce XLT	4 oz/a		A							
9	Metribuzin	8 oz/a		A							
9	Roundup PowerMax	32 fl oz/a		B							
9	Warrant Ultra	3 pt/a		B							
9	AMS	17 lb/100 gal		B							
	LSD P=.05				4.7	6.4	14.4	14.4	5.0	18.1	5.9
	Standard Deviation				3.2	4.4	9.9	9.9	3.4	12.4	4.1
	CV				39.28	5.1	11.35	11.35	61.07	14.52	4.62

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Pest Code	AMAPO		ANGR	CHEAL	AMAPO		ANGR
Crop Code		GLXMA				GLYMX	
Rating Date	Jul-5-2016	Jul-11-2016	Jul-11-2016	Jul-11-2016	Jul-11-2016	Jul-18-2016	Jul-18-2016
Rating Type	control	injury	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	6 DA-C	6 DA-C	6 DA-C	6 DA-C	13 DA-C	13 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
1	Untreated				0	0	0	0	0	0
2	NON-BUFFER				89	0	98	100	100	0
	2 Rowel FX	3.5 oz/a		A						
	2 Clarity	1 pt/a		B						
	2 Roundup PowerMax	32 fl oz/a		C						
	2 Warrant	3 pt/a		C						
	2 AMS	17 lb/100 gal		C						
3	NON-BUFFER				100	0	100	100	100	0
	3 Rowel FX	3.5 oz/a		A						
	3 Roundup PowerMax	32 fl oz/a		B						
	3 Warrant	3 pt/a		B						
	3 AMS	17 lb/100 gal		B						
	3 Clarity	1 pt/a		C						
4	NON-BUFFER				100	0	100	100	100	0
	4 Fierce XLT	4 oz/a		A						
	4 Clarity	1 pt/a		B						
	4 Roundup PowerMax	32 fl oz/a		C						
	4 Warrant	3 pt/a		C						
	4 AMS	17 lb/100 gal		C						
5	NON-BUFFER				100	0	100	100	100	0
	5 Fierce XLT	4 oz/a		A						
	5 Roundup PowerMax	32 fl oz/a		B						
	5 Warrant	3 pt/a		B						
	5 AMS	17 lb/100 gal		B						
	5 Clarity	1 pt/a		C						
6	BUFFER				100	7	100	100	100	6
	6 Rowel FX	3.5 oz/a		A						
	6 Roundup PowerMax	32 fl oz/a		B						
	6 Warrant Ultra	3 pt/a		B						
	6 AMS	17 lb/100 gal		B						
7	BUFFER				100	5	100	100	100	1
	7 Fierce XLT	4 oz/a		A						
	7 Roundup PowerMax	32 fl oz/a		B						
	7 Warrant Ultra	3 pt/a		B						
	7 AMS	17 lb/100 gal		B						

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Crop Code		GLXMA				GLYMX	
Rating Date	Jul-5-2016	Jul-11-2016	Jul-11-2016	Jul-11-2016	Jul-11-2016	Jul-18-2016	Jul-18-2016
Rating Type	control	injury	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	6 DA-C	6 DA-C	6 DA-C	6 DA-C	13 DA-C	13 DA-C
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code							
8	BUFFER				100	11	100	100	100	8	100
8	Rowel FX	3.5 oz/a		A							
8	Metribuzin	8 oz/a		A							
8	Roundup PowerMax	32 fl oz/a		B							
8	Warrant Ultra	3 pt/a		B							
8	AMS	17 lb/100 gal		B							
9	BUFFER				100	0	100	100	100	0	99
9	Fierce XLT	4 oz/a		A							
9	Metribuzin	8 oz/a		A							
9	Roundup PowerMax	32 fl oz/a		B							
9	Warrant Ultra	3 pt/a		B							
9	AMS	17 lb/100 gal		B							
LSD	P=.05				10.9	4.6	2.4	.	.	2.7	1.5
	Standard Deviation				7.5	3.2	1.7	0.0	0.0	1.9	1.1
	CV				8.56	127.12	1.88	0.0	0.0	119.19	1.2

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Crop Code			GLXMA			
Rating Date	Jul-18-2016	Jul-18-2016	Aug-8-2016	Aug-8-2016	Aug-8-2016	Aug-8-2016
Rating Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-C	13 DA-C	34 DA-C	34 DA-C	34 DA-C	34 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
1	Untreated				0	0	0	0	0
2	NON-BUFFER				100	100	0	100	100
	2 Rowel FX	3.5 oz/a		A					
	2 Clarity	1 pt/a		B					
	2 Roundup PowerMax	32 fl oz/a		C					
	2 Warrant	3 pt/a		C					
	2 AMS	17 lb/100 gal		C					
3	NON-BUFFER				100	100	0	100	100
	3 Rowel FX	3.5 oz/a		A					
	3 Roundup PowerMax	32 fl oz/a		B					
	3 Warrant	3 pt/a		B					
	3 AMS	17 lb/100 gal		B					
	3 Clarity	1 pt/a		C					
4	NON-BUFFER				100	100	0	100	100
	4 Fierce XLT	4 oz/a		A					
	4 Clarity	1 pt/a		B					
	4 Roundup PowerMax	32 fl oz/a		C					
	4 Warrant	3 pt/a		C					
	4 AMS	17 lb/100 gal		C					
5	NON-BUFFER				100	100	0	100	100
	5 Fierce XLT	4 oz/a		A					
	5 Roundup PowerMax	32 fl oz/a		B					
	5 Warrant	3 pt/a		B					
	5 AMS	17 lb/100 gal		B					
	5 Clarity	1 pt/a		C					
6	BUFFER				100	100	0	100	100
	6 Rowel FX	3.5 oz/a		A					
	6 Roundup PowerMax	32 fl oz/a		B					
	6 Warrant Ultra	3 pt/a		B					
	6 AMS	17 lb/100 gal		B					
7	BUFFER				100	100	0	100	100
	7 Fierce XLT	4 oz/a		A					
	7 Roundup PowerMax	32 fl oz/a		B					
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Rating Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	13 DA-C	13 DA-C	34 DA-C	34 DA-C	34 DA-C	34 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
8	BUFFER				100	100	0	100	100	100
8	Rowel FX	3.5 oz/a	A							
8	Metribuzin	8 oz/a	A							
8	Roundup PowerMax	32 fl oz/a	B							
8	Warrant Ultra	3 pt/a	B							
8	AMS	17 lb/100 gal	B							
9	BUFFER				100	100	0	100	100	100
9	Fierce XLT	4 oz/a	A							
9	Metribuzin	8 oz/a	A							
9	Roundup PowerMax	32 fl oz/a	B							
9	Warrant Ultra	3 pt/a	B							
9	AMS	17 lb/100 gal	B							
LSD P=.05					0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0