

**Weed control programs in RR2 Xtend soybean - "Stewarded"**

Trial ID: SOY06-16 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus T-12 Investigator: Christy Sprague

**Planting Date:** May-19-2016 **Row Spacing:** 30 IN  
**Variety:** AG25X6 **No. of Reps:** 4  
**Population:** 152000 seeds/A **% OM:** 3.6  
**Soil Type:** CL clay loam **pH:** 6.7  
**Plot Size:** 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plowed; spring soil finished twice  
**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambsquarters, common	Chenopodium album
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	GLXMA	Soybean	

**Application Description**

	A	B	C
<b>Application Timing:</b>	PRE	EPOS	POST
<b>Date Treated:</b>	May-19-2016	Jun-9-2016	Jun-13-2016
<b>Time Treated:</b>	1:45 PM	11:40 AM	1:00 PM
<b>% Cloud Cover:</b>	5	90	90
<b>Air Temp., Unit:</b>	70 F	66 F	72 F
<b>% Relative Humidity:</b>	32	45	40
<b>Wind Speed/Unit/Dir:</b>	5 mph W	3 mph S	4 mph S
<b>Soil Temp, Unit:</b>	61 F	64 F	68 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	5	5	5
<b>Soil Moist:</b>	3	3	5

**Crop Stage at Each Application**

	A	B	C
<b>Crop 1 Name:</b>	GLXMA	GLXMA	GLXMA
<b>Height:</b>	4 "	6 "	
<b>Stage:</b>	V1	V2	

**Weed Stage at Each Application**

	A	B	C
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR
<b>Height:</b>		3-5 " (4)	1-6 " (3)
<b>Stage:</b>		2-4L	2-6L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height:</b>		2 "	1-2 " (1)
<b>Stage:</b>		6L	8L
<b>Weed 3 Name:</b>	AMBEL	AMBEL	AMBEL
<b>Height:</b>		1-2 " (1.5)	1-2.5 " (2)
<b>Stage:</b>		6L	2-8L

**Weed Density**

	1	2	3
<b>Date:</b>	Jun-13-2016	Jun-13-2016	Jun-13-2016
<b>Weed Name:</b>	ANGR	CHEAL	AMBEL
<b>Density:</b>	44 FT2	1 FT2	3 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 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI
C	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI

**Comments:**

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Location: Campus T-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code				ANGR	CHEAL	AMAPO	AMBEL	
Crop Code	GLXMA	GLXMA						GLXMA
Rating Date	Jun-2-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-20-2016
Rating Type	injury	injury	control	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	7 DA-C
Number of Decimals	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Valor	2.5 oz/a	A	7	0	13	95	95	53	0
1	Roundup PowerMax	32 fl oz/a	C							
1	Clarity	1 pt/a	C							
2	Authority MTZ	10 oz/a	A	0	0	25	95	95	43	0
2	Roundup PowerMax	32 fl oz/a	C							
2	Clarity	1 pt/a	C							
3	Authority MTZ	14 oz/a	A	0	0	13	96	95	48	0
3	Roundup PowerMax	32 fl oz/a	C							
3	Clarity	1 pt/a	C							
4	Fierce	3 oz/a	A	5	0	28	93	100	54	0
4	Roundup PowerMax	32 fl oz/a	C							
4	Clarity	1 pt/a	C							
5	Authority Elite	26 fl oz/a	A	2	0	30	96	94	35	0
5	Roundup PowerMax	32 fl oz/a	C							
5	Clarity	1 pt/a	C							
6	Boundary	1.6 pt/a	A	0	0	28	93	94	56	0
6	Roundup PowerMax	32 fl oz/a	C							
6	Clarity	1 pt/a	C							
7	Valor	2 oz/a	A	7	0	25	90	98	75	0
7	Warrant	3 pt/a	A							
7	Roundup PowerMax	32 fl oz/a	C							
7	Clarity	1 pt/a	C							
8	Fierce XLT	4 oz/a	A	6	0	28	96	100	83	0
8	Roundup PowerMax	32 fl oz/a	C							
8	Clarity	1 pt/a	C							
9	Untreated			0	0	0	0	0	0	0
10	Roundup PowerMax	32 fl oz/a	C	0	0	0	0	0	0	0
10	Clarity	1 pt/a	C							
11	Anthem Maxx	4 fl oz/a	B	0	24	88	100	100	93	11
11	Roundup PowerMax	32 fl oz/a	B							
11	Clarity	1 pt/a	B							
12	Warrant	3 pt/a	B	0	11	89	98	100	89	0
12	Roundup PowerMax	32 fl oz/a	B							
12	Clarity	1 pt/a	B							

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL		
Crop Code	GLXMA	GLXMA						GLXMA
Rating Date	Jun-2-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-20-2016	
Rating Type	injury	injury	control	control	control	control	injury	
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	7 DA-C
Number of Decimals	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
13	Authority First	5 oz/a	A	0	0	13	95	100	69	16
13	Anthem Maxx	3 fl oz/a	C							
13	Roundup PowerMax	32 fl oz/a	C							
13	Clarity	1 pt/a	C							
14	Valor	2 oz/a	A	4	0	13	87	93	66	0
14	Warrant	3 pt/a	C							
14	Roundup PowerMax	32 fl oz/a	C							
14	Clarity	1 pt/a	C							
LSD P=.05				2.3	2.1	9.1	11.2	8.7	7.6	1.4
Standard Deviation				1.6	1.5	6.3	7.8	6.1	5.3	1.0
CV				76.16	58.68	22.82	9.66	7.33	9.78	48.72

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Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL		ANGR	CHEAL
Crop Code				GLXMA		
Rating Date	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code						
		Rate Unit							
1	Valor	2.5 oz/a	A	95	100	96	0	97	100
1	Roundup PowerMax	32 fl oz/a	C						
1	Clarity	1 pt/a	C						
2	Authority MTZ	10 oz/a	A	97	100	93	0	98	99
2	Roundup PowerMax	32 fl oz/a	C						
2	Clarity	1 pt/a	C						
3	Authority MTZ	14 oz/a	A	96	100	90	0	99	99
3	Roundup PowerMax	32 fl oz/a	C						
3	Clarity	1 pt/a	C						
4	Fierce	3 oz/a	A	97	100	95	0	98	100
4	Roundup PowerMax	32 fl oz/a	C						
4	Clarity	1 pt/a	C						
5	Authority Elite	26 fl oz/a	A	96	100	86	0	99	99
5	Roundup PowerMax	32 fl oz/a	C						
5	Clarity	1 pt/a	C						
6	Boundary	1.6 pt/a	A	94	100	95	0	98	99
6	Roundup PowerMax	32 fl oz/a	C						
6	Clarity	1 pt/a	C						
7	Valor	2 oz/a	A	96	99	95	0	100	99
7	Warrant	3 pt/a	A						
7	Roundup PowerMax	32 fl oz/a	C						
7	Clarity	1 pt/a	C						
8	Fierce XLT	4 oz/a	A	97	100	98	0	98	100
8	Roundup PowerMax	32 fl oz/a	C						
8	Clarity	1 pt/a	C						
9	Untreated			0	0	0	0	0	0
10	Roundup PowerMax	32 fl oz/a	C	96	100	96	0	100	98
10	Clarity	1 pt/a	C						
11	Anthem Maxx	4 fl oz/a	B	79	100	99	6	91	100
11	Roundup PowerMax	32 fl oz/a	B						
11	Clarity	1 pt/a	B						
12	Warrant	3 pt/a	B	79	100	97	0	90	99
12	Roundup PowerMax	32 fl oz/a	B						
12	Clarity	1 pt/a	B						

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Crop Code				GLXMA		
Rating Date	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code					
		Rate Unit						
13	Authority First	5 oz/a	A	97	100	95	11	99
13	Anthem Maxx	3 fl oz/a	C					
13	Roundup PowerMax	32 fl oz/a	C					
13	Clarity	1 pt/a	C					
14	Valor	2 oz/a	A	94	100	96	0	98
14	Warrant	3 pt/a	C					
14	Roundup PowerMax	32 fl oz/a	C					
14	Clarity	1 pt/a	C					
	LSD P=.05			3.0	0.4	5.5	1.2	2.4
	Standard Deviation			2.1	0.3	3.9	0.8	1.7
	CV			2.45	0.33	4.38	72.79	1.87

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Pest Code	AMBEL		ANGR	CHEAL	AMAPO	AMBEL		
Crop Code		GLXMA					GLXMA	
Rating Date	Jun-27-2016	Jul-13-2016	Jul-13-2016	Jul-13-2016	Jul-13-2016	Jul-13-2016	Nov-1-2016	
Rating Type	control	injury	control	control	control	control	moisture	
Rating Unit	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval	14 DA-C	30 DA-C	30 DA-C	30 DA-C	30 DA-C	30 DA-C	141 DA-C	
Number of Decimals	0	0	0	0	0	0	1	

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Valor	2.5 oz/a	A	99	0	79	100	98	99	15.8
1	Roundup PowerMax	32 fl oz/a	C							
1	Clarity	1 pt/a	C							
2	Authority MTZ	10 oz/a	A	96	0	80	100	100	100	15.8
2	Roundup PowerMax	32 fl oz/a	C							
2	Clarity	1 pt/a	C							
3	Authority MTZ	14 oz/a	A	93	0	83	100	99	100	15.7
3	Roundup PowerMax	32 fl oz/a	C							
3	Clarity	1 pt/a	C							
4	Fierce	3 oz/a	A	96	0	80	100	100	100	15.8
4	Roundup PowerMax	32 fl oz/a	C							
4	Clarity	1 pt/a	C							
5	Authority Elite	26 fl oz/a	A	95	0	84	100	100	100	15.9
5	Roundup PowerMax	32 fl oz/a	C							
5	Clarity	1 pt/a	C							
6	Boundary	1.6 pt/a	A	98	0	81	100	99	100	15.7
6	Roundup PowerMax	32 fl oz/a	C							
6	Clarity	1 pt/a	C							
7	Valor	2 oz/a	A	98	0	83	100	100	100	15.8
7	Warrant	3 pt/a	A							
7	Roundup PowerMax	32 fl oz/a	C							
7	Clarity	1 pt/a	C							
8	Fierce XLT	4 oz/a	A	96	0	80	100	100	100	15.8
8	Roundup PowerMax	32 fl oz/a	C							
8	Clarity	1 pt/a	C							
9	Untreated			0	0	0	0	0	0	16.8
10	Roundup PowerMax	32 fl oz/a	C	96	0	80	98	100	100	15.7
10	Clarity	1 pt/a	C							
11	Anthem Maxx	4 fl oz/a	B	100	0	64	100	100	98	15.7
11	Roundup PowerMax	32 fl oz/a	B							
11	Clarity	1 pt/a	B							
12	Warrant	3 pt/a	B	94	0	64	100	100	96	15.9
12	Roundup PowerMax	32 fl oz/a	B							
12	Clarity	1 pt/a	B							

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Pest Code	AMBEL		ANGR	CHEAL	AMAPO	AMBEL		
Crop Code		GLXMA					GLXMA	
Rating Date	Jun-27-2016	Jul-13-2016	Jul-13-2016	Jul-13-2016	Jul-13-2016	Jul-13-2016	Nov-1-2016	
Rating Type	control	injury	control	control	control	control	moisture	
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	30 DA-C	30 DA-C	30 DA-C	30 DA-C	30 DA-C	141 DA-C	
Number of Decimals	0	0	0	0	0	0	1	

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
13	Authority First	5 oz/a	A	95	0	85	100	100	99	15.6
13	Anthem Maxx	3 fl oz/a	C							
13	Roundup PowerMax	32 fl oz/a	C							
13	Clarity	1 pt/a	C							
14	Valor	2 oz/a	A	95	0	83	100	100	100	15.6
14	Warrant	3 pt/a	C							
14	Roundup PowerMax	32 fl oz/a	C							
14	Clarity	1 pt/a	C							
	LSD P=.05			5.7	.	4.4	1.9	1.6	1.9	0.50
	Standard Deviation			4.0	0.0	3.1	1.3	1.1	1.3	0.35
	CV			4.46	0.0	4.18	1.44	1.2	1.41	2.19

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Pest Code	
Crop Code	GLXMA
Rating Date	Nov-1-2016
Rating Type	yield
Rating Unit	bu/acre
Trt-Eval Interval	at 13% M
Number of Decimals	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
1	Valor	2.5 oz/a		A	68.2
1	Roundup PowerMax	32 fl oz/a		C	
1	Clarity	1 pt/a		C	
2	Authority MTZ	10 oz/a		A	65.6
2	Roundup PowerMax	32 fl oz/a		C	
2	Clarity	1 pt/a		C	
3	Authority MTZ	14 oz/a		A	65.6
3	Roundup PowerMax	32 fl oz/a		C	
3	Clarity	1 pt/a		C	
4	Fierce	3 oz/a		A	70.8
4	Roundup PowerMax	32 fl oz/a		C	
4	Clarity	1 pt/a		C	
5	Authority Elite	26 fl oz/a		A	68.6
5	Roundup PowerMax	32 fl oz/a		C	
5	Clarity	1 pt/a		C	
6	Boundary	1.6 pt/a		A	70.1
6	Roundup PowerMax	32 fl oz/a		C	
6	Clarity	1 pt/a		C	
7	Valor	2 oz/a		A	70.2
7	Warrant	3 pt/a		A	
7	Roundup PowerMax	32 fl oz/a		C	
7	Clarity	1 pt/a		C	
8	Fierce XLT	4 oz/a		A	70.2
8	Roundup PowerMax	32 fl oz/a		C	
8	Clarity	1 pt/a		C	
9	Untreated				23.0
10	Roundup PowerMax	32 fl oz/a		C	68.0
10	Clarity	1 pt/a		C	
11	Anthem Maxx	4 fl oz/a		B	65.7
11	Roundup PowerMax	32 fl oz/a		B	
11	Clarity	1 pt/a		B	
12	Warrant	3 pt/a		B	62.0
12	Roundup PowerMax	32 fl oz/a		B	
12	Clarity	1 pt/a		B	



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Pest Code	
Crop Code	GLXMA
Rating Date	Nov-1-2016
Rating Type	yield
Rating Unit	bu/acre
Trt-Eval Interval	at 13% M
Number of Decimals	1

Trt No.	Treatment Name	Rate	Unit	Appl Code	
13	Authority First	5 oz/a		A	67.5
13	Anthem Maxx	3 fl oz/a		C	
13	Roundup PowerMax	32 fl oz/a		C	
13	Clarity	1 pt/a		C	
14	Valor	2 oz/a		A	71.1
14	Warrant	3 pt/a		C	
14	Roundup PowerMax	32 fl oz/a		C	
14	Clarity	1 pt/a		C	
	LSD P=.05				6.26
	Standard Deviation				4.38
	CV				6.76