

**Envive and Enlite weed control programs in RR2 Xtend soybean - "Stewarded"**

Trial ID: SOY05-16 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	lambquarters, common	Chenopodium album
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	SINAR	mustard, wild	Sinapis arvensis
5	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-19-2016	Jun-13-2016
<b>Time Treated:</b>	2:10 PM	12:15 PM
<b>% Cloud Cover:</b>	10	80
<b>Air Temp., Unit:</b>	70 F	73 F
<b>% Relative Humidity:</b>	29	41
<b>Wind Speed/Unit/Dir:</b>	2.5 mph S	3 mph SE
<b>Soil Temp, Unit:</b>	61 F	68 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>		6 "
<b>Stage:</b>		V1-V2

**Weed Stage at Each Application**

	A	B
<b>Weed 1 Name:</b>	ANGR	ANGR
<b>Height:</b>		1-7 " (4)
<b>Stage:</b>		2-6L
<b>Weed 2 Name:</b>	CHEAL	CHEAL
<b>Height:</b>		3-4 " (3)
<b>Stage:</b>		8L
<b>Weed 3 Name:</b>	AMBEL	AMBEL
<b>Height:</b>		1-3 " (2)
<b>Stage:</b>		4-6L
<b>Weed 4 Name:</b>	SINAR	SINAR
<b>Height:</b>		1-9 " (4)
<b>Stage:</b>		4L
<b>Weed 5 Name:</b>	ABUTH	ABUTH
<b>Height:</b>		
<b>Stage:</b>		

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016	Jun-13-2016
<b>Weed Name:</b>	ANGR	CHEAL	AMBEL	SINAR	ABUTH
<b>Density:</b>	33 FT2	2 FT2	3 FT2	1 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 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI

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**Comments:** The common ragweed population at this location is ALS-resistant.

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Location: Campus T-12

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code			ANGR	CHEAL	AMBEL	SINAR		
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-27-2016
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-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Envive	2.5 oz/a	A	5	0	60	100	59	98	0
1	Roundup PowerMax	22 fl oz/a	B							
1	D1691	1 pt/a	B							
2	Envive	2.5 oz/a	A	4	0	60	100	54	98	5
2	Roundup PowerMax	22 fl oz/a	B							
2	D1691	1 pt/a	B							
2	Cinch	1 pt/a	B							
3	Envive	2.5 oz/a	A	5	0	58	94	63	98	9
3	Roundup PowerMax	22 fl oz/a	B							
3	Cobra	10 fl oz/a	B							
3	Cinch	1 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Enlite	3.5 oz/a	A	6	0	58	100	63	85	1
5	Roundup PowerMax	22 fl oz/a	B							
5	D1691	1 pt/a	B							
6	Enlite	3.5 oz/a	A	5	0	60	96	63	90	4
6	Roundup PowerMax	22 fl oz/a	B							
6	D1691	1 pt/a	B							
6	Cinch	1 pt/a	B							
7	Enlite	3.5 oz/a	A	5	0	64	85	43	85	13
7	Roundup PowerMax	22 fl oz/a	B							
7	Cobra	10 fl oz/a	B							
7	Cinch	1 pt/a	B							
LSD P=.05		2.1	.	19.2	12.0	15.7	11.2	3.2		
Standard Deviation		1.4	0.0	12.9	8.1	10.6	7.6	2.2		
CV		34.06	0.0	25.18	9.83	21.65	9.58	49.11		

Could not calculate LSD (% mean diff) for columns 2,11,15,17 because error mean square = 0.

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Pest Code	ANGR	CHEAL	AMBEL	SINAR		ANGR	CHEAL
Crop Code					GLXMA		
Rating Date	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jun-27-2016	Jul-11-2016	Jul-11-2016	Jul-11-2016
Rating Type	control	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	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	0

Trt No.	Treatment Name	Rate	Appl Code	ANGR	CHEAL	AMBEL	SINAR	GLXMA	ANGR	CHEAL
		Rate Unit								
1	Envive	2.5 oz/a	A	93	98	95	100	1	78	100
1	Roundup PowerMax	22 fl oz/a	B							
1	D1691	1 pt/a	B							
2	Envive	2.5 oz/a	A	98	100	95	100	1	83	100
2	Roundup PowerMax	22 fl oz/a	B							
2	D1691	1 pt/a	B							
2	Cinch	1 pt/a	B							
3	Envive	2.5 oz/a	A	89	99	99	100	13	74	97
3	Roundup PowerMax	22 fl oz/a	B							
3	Cobra	10 fl oz/a	B							
3	Cinch	1 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Enlite	3.5 oz/a	A	95	100	96	100	1	79	100
5	Roundup PowerMax	22 fl oz/a	B							
5	D1691	1 pt/a	B							
6	Enlite	3.5 oz/a	A	98	100	96	100	0	82	100
6	Roundup PowerMax	22 fl oz/a	B							
6	D1691	1 pt/a	B							
6	Cinch	1 pt/a	B							
7	Enlite	3.5 oz/a	A	91	100	100	100	11	74	96
7	Roundup PowerMax	22 fl oz/a	B							
7	Cobra	10 fl oz/a	B							
7	Cinch	1 pt/a	B							
	LSD P=.05			4.3	3.2	6.1	.	3.2	2.5	5.6
	Standard Deviation			2.9	2.2	4.1	0.0	2.1	1.7	3.8
	CV			3.56	2.54	4.95	0.0	54.38	2.54	4.49

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Pest Code	AMBEL	ABUTH		ANGR	CHEAL	AMAPO	AMBEL
Crop Code			GLXMA				
Rating Date	Jul-11-2016	Jul-11-2016	Jul-25-2016	Jul-25-2016	Jul-25-2016	Jul-25-2016	Jul-25-2016
Rating Type	control	control	injury	control	control	control	control
Rating Unit	percent	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	42 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Envive	2.5 oz/a	A	100	100	0	73	99	95	100
1	Roundup PowerMax	22 fl oz/a	B							
1	D1691	1 pt/a	B							
2	Envive	2.5 oz/a	A	100	100	0	84	100	99	100
2	Roundup PowerMax	22 fl oz/a	B							
2	D1691	1 pt/a	B							
2	Cinch	1 pt/a	B							
3	Envive	2.5 oz/a	A	100	99	0	68	88	100	96
3	Roundup PowerMax	22 fl oz/a	B							
3	Cobra	10 fl oz/a	B							
3	Cinch	1 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Enlite	3.5 oz/a	A	100	99	0	77	100	99	100
5	Roundup PowerMax	22 fl oz/a	B							
5	D1691	1 pt/a	B							
6	Enlite	3.5 oz/a	A	100	100	0	82	100	100	100
6	Roundup PowerMax	22 fl oz/a	B							
6	D1691	1 pt/a	B							
6	Cinch	1 pt/a	B							
7	Enlite	3.5 oz/a	A	100	99	0	69	90	100	99
7	Roundup PowerMax	22 fl oz/a	B							
7	Cobra	10 fl oz/a	B							
7	Cinch	1 pt/a	B							
	LSD P=.05			.	2.4	.	5.0	7.4	5.8	4.5
	Standard Deviation			0.0	1.6	0.0	3.4	5.0	3.9	3.0
	CV			0.0	1.89	0.0	5.23	6.01	4.63	3.57

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Pest Code	ABUTH
Crop Code	
Rating Date	Jul-25-2016
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	42 DA-B
Number of Decimals	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
1	Envive	2.5 oz/a		A	100
1	Roundup PowerMax	22 fl oz/a		B	
1	D1691	1 pt/a		B	
2	Envive	2.5 oz/a		A	100
2	Roundup PowerMax	22 fl oz/a		B	
2	D1691	1 pt/a		B	
2	Cinch	1 pt/a		B	
3	Envive	2.5 oz/a		A	98
3	Roundup PowerMax	22 fl oz/a		B	
3	Cobra	10 fl oz/a		B	
3	Cinch	1 pt/a		B	
4	Untreated				0
5	Enlite	3.5 oz/a		A	99
5	Roundup PowerMax	22 fl oz/a		B	
5	D1691	1 pt/a		B	
6	Enlite	3.5 oz/a		A	100
6	Roundup PowerMax	22 fl oz/a		B	
6	D1691	1 pt/a		B	
6	Cinch	1 pt/a		B	
7	Enlite	3.5 oz/a		A	99
7	Roundup PowerMax	22 fl oz/a		B	
7	Cobra	10 fl oz/a		B	
7	Cinch	1 pt/a		B	
	LSD P=.05				3.3
	Standard Deviation				2.2
	CV				2.65