

Afforia and Enlite weed control programs in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS05-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-18 Investigator: Christy Sprague

Planting Date: May-9-2016 **Row Spacing:** 30 IN
Variety: AG29X6 **No. of Reps:** 4
Population: 158000 seeds/A **% OM:** 3.1
Soil Type: L loam **pH:** 5.9
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-till into standing corn stubble

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	STEME	chickweed, common	Stellaria media
2	POAAN	bluegrass, annual	Poa annua
3	ERICA	horseweed	Conyza canadensis
4	ANGR	mainly foxtail species	Annual grass
5	CHEAL	lambsquarters, common	Chenopodium album
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	Apr-27-2016	Jun-21-2016
Time Treated:	8:45 PM	8:45 AM
% Cloud Cover:	100	100
Air Temp., Unit:	54 F	69 F
% Relative Humidity:	48	64
Wind Speed/Unit/Dir:	1.2 mph NE	0 mph
Soil Temp, Unit:	51 F	72 F
Leaf Moist/Dew Presence (Y/N):	3	5
Soil Moist:	2	3

Crop Stage at Each Application

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

Weed Stage at Each Application

	A	B
Weed 1 Name:	STEME	STEME
Height:	8 "	8 "
Stage:	many	flower
Weed 2 Name:	POAAN	POAAN
Height:		3 "
Stage:	many	flower
Weed 3 Name:	ERICA	ERICA
Height:	2-4 " (3)	2-16 " (4)
Stage:	rosett	bolt
Weed 4 Name:	ANGR	ANGR
Height:		1-7 " (5)
Stage:		5-7L
Weed 5 Name:	CHEAL	CHEAL
Height:		2-8 " (4)
Stage:		12-18L

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	TTI	11003	31 "	20 "	100 "	19 GAL/AC	WATER	25 PSI
B	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI

Comments:

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Pest Code	STEME	POANN	DRABA	VERPG	GLXMA	STEME	ANGR
Crop Code							
Rating Date	May-9-2016	May-9-2016	May-9-2016	May-9-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016
Rating Type	control	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	STEME	POANN	DRABA	VERPG	GLXMA	STEME	ANGR
1	Afforia	2.5 oz/a	A	48	0	53	50	0	93	80
1	Roundup PowerMax	22 fl oz/a	A							
1	D1691	1 pt/a	A							
1	Roundup PowerMax	22 fl oz/a	B							
1	D1691	1 pt/a	B							
2	Afforia	2.5 oz/a	A	49	3	50	50	0	78	87
2	Roundup PowerMax	22 fl oz/a	A							
2	D1691	1 pt/a	A							
2	Roundup PowerMax	22 fl oz/a	B							
2	D1691	1 pt/a	B							
2	Cinch	1 pt/a	B							
3	Afforia	2.5 oz/a	A	49	5	50	50	0	80	82
3	Roundup PowerMax	22 fl oz/a	A							
3	D1691	1 pt/a	A							
3	Roundup PowerMax	22 fl oz/a	B							
3	Prefix	2 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Enlite	2.8 oz/a	A	48	5	50	53	0	85	75
5	Roundup PowerMax	22 fl oz/a	A							
5	D1691	1 pt/a	A							
5	Roundup PowerMax	22 fl oz/a	B							
5	D1691	1 pt/a	B							
6	Enlite	2.8 oz/a	A	49	3	50	50	0	83	79
6	Roundup PowerMax	22 fl oz/a	A							
6	D1691	1 pt/a	A							
6	Roundup PowerMax	22 fl oz/a	B							
6	D1691	1 pt/a	B							
6	Cinch	1 pt/a	B							
7	Enlite	2.8 oz/a	A	45	3	50	50	0	71	84
7	Roundup PowerMax	22 fl oz/a	A							
7	D1691	1 pt/a	A							
7	Roundup PowerMax	22 fl oz/a	B							
7	Prefix	2 pt/a	B							

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Crop Code					GLXMA		
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Rating Type	control	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	12 DA-A	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
8	Enlite	2.8 oz/a	A	55	8	54	53	0	61	85
8	Roundup PowerMax	22 fl oz/a	A							
8	2,4-D ester	1 pt/a	A							
8	Roundup PowerMax	22 fl oz/a	B							
8	Prefix	2 pt/a	B							
LSD P=.05				4.9	7.1	5.0	3.4	.	18.8	12.0
Standard Deviation				3.3	4.8	3.4	2.3	0.0	12.8	8.2
CV				7.84	154.18	7.71	5.22	0.0	18.56	11.47

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Pest Code	CHEAL	ERICA	GLXMA	ANGR	CHEAL	ERICA	GLXMA
Crop Code							
Rating Date	Jun-21-2016	Jun-21-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Aug-2-2016
Rating Type	control	control	injury	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	42 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	CHEAL	ERICA	GLXMA	ANGR	CHEAL	ERICA	GLXMA
		Rate Unit								
1	Afforia	2.5 oz/a	A	98	93	0	100	100	100	0
1	Roundup PowerMax	22 fl oz/a	A							
1	D1691	1 pt/a	A							
1	Roundup PowerMax	22 fl oz/a	B							
1	D1691	1 pt/a	B							
2	Afforia	2.5 oz/a	A	100	96	0	100	100	100	0
2	Roundup PowerMax	22 fl oz/a	A							
2	D1691	1 pt/a	A							
2	Roundup PowerMax	22 fl oz/a	B							
2	D1691	1 pt/a	B							
2	Cinch	1 pt/a	B							
3	Afforia	2.5 oz/a	A	100	100	0	100	100	100	0
3	Roundup PowerMax	22 fl oz/a	A							
3	D1691	1 pt/a	A							
3	Roundup PowerMax	22 fl oz/a	B							
3	Prefix	2 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Enlite	2.8 oz/a	A	100	94	0	100	100	100	0
5	Roundup PowerMax	22 fl oz/a	A							
5	D1691	1 pt/a	A							
5	Roundup PowerMax	22 fl oz/a	B							
5	D1691	1 pt/a	B							
6	Enlite	2.8 oz/a	A	100	100	0	100	100	100	0
6	Roundup PowerMax	22 fl oz/a	A							
6	D1691	1 pt/a	A							
6	Roundup PowerMax	22 fl oz/a	B							
6	D1691	1 pt/a	B							
6	Cinch	1 pt/a	B							
7	Enlite	2.8 oz/a	A	95	91	14	100	100	97	0
7	Roundup PowerMax	22 fl oz/a	A							
7	D1691	1 pt/a	A							
7	Roundup PowerMax	22 fl oz/a	B							
7	Prefix	2 pt/a	B							

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Crop Code							
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Rating Type	control	control	injury	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	42 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
8	Enlite	2.8 oz/a	A	95	96	12	100	100	95	0
8	Roundup PowerMax	22 fl oz/a	A							
8	2,4-D ester	1 pt/a	A							
8	Roundup PowerMax	22 fl oz/a	B							
8	Prefix	2 pt/a	B							
LSD	P=.05			6.0	8.8	2.4	.	.	6.2	.
Standard Deviation				4.1	6.0	1.6	0.0	0.0	4.2	0.0
CV				4.73	7.11	50.83	0.0	0.0	4.87	0.0

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Pest Code	ANGR	CHEAL	ERICA
Crop Code			
Rating Date	Aug-2-2016	Aug-2-2016	Aug-2-2016
Rating Type	control	control	control
Rating Unit	percent	percent	percent
Trt-Eval Interval	42 DA-B	42 DA-B	42 DA-B
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Appl Code			
		Rate Unit				
1	Afforia	2.5 oz/a	A	100	100	100
1	Roundup PowerMax	22 fl oz/a	A			
1	D1691	1 pt/a	A			
1	Roundup PowerMax	22 fl oz/a	B			
1	D1691	1 pt/a	B			
2	Afforia	2.5 oz/a	A	100	100	100
2	Roundup PowerMax	22 fl oz/a	A			
2	D1691	1 pt/a	A			
2	Roundup PowerMax	22 fl oz/a	B			
2	D1691	1 pt/a	B			
2	Cinch	1 pt/a	B			
3	Afforia	2.5 oz/a	A	100	100	100
3	Roundup PowerMax	22 fl oz/a	A			
3	D1691	1 pt/a	A			
3	Roundup PowerMax	22 fl oz/a	B			
3	Prefix	2 pt/a	B			
4	Untreated			0	0	0
5	Enlite	2.8 oz/a	A	100	100	100
5	Roundup PowerMax	22 fl oz/a	A			
5	D1691	1 pt/a	A			
5	Roundup PowerMax	22 fl oz/a	B			
5	D1691	1 pt/a	B			
6	Enlite	2.8 oz/a	A	100	100	100
6	Roundup PowerMax	22 fl oz/a	A			
6	D1691	1 pt/a	A			
6	Roundup PowerMax	22 fl oz/a	B			
6	D1691	1 pt/a	B			
6	Cinch	1 pt/a	B			
7	Enlite	2.8 oz/a	A	100	100	98
7	Roundup PowerMax	22 fl oz/a	A			
7	D1691	1 pt/a	A			
7	Roundup PowerMax	22 fl oz/a	B			
7	Prefix	2 pt/a	B			

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Pest Code	ANGR	CHEAL	ERICA
Crop Code			
Rating Date	Aug-2-2016	Aug-2-2016	Aug-2-2016
Rating Type	control	control	control
Rating Unit	percent	percent	percent
Trt-Eval Interval	42 DA-B	42 DA-B	42 DA-B
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Appl Code			
		Rate Unit				
8	Enlite	2.8 oz/a	A	100	100	98
8	Roundup PowerMax	22 fl oz/a	A			
8	2,4-D ester	1 pt/a	A			
8	Roundup PowerMax	22 fl oz/a	B			
8	Prefix	2 pt/a	B			

LSD P=.05	.	.	3.8
Standard Deviation	0.0	0.0	2.6
CV	0.0	0.0	2.95