

**Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"**

Trial ID: NTS06-16 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	LAMAM	Henbit	Lamium amplexicaule
3	CAPBP	Shepherd's purse	Capsella bursa-pastoris
4	ERICA	horseweed	Conyza canadensis
5	POAAN	bluegrass, annual	Poa annua
6	VERPG	Purslane speedwell	Veronica peregrina
7	ANGR	mainly foxtail species	Annual grass
8	CHEAL	lambquarters, common	Chenopodium album
9	AMBEL	ragweed, common	Ambrosia artemisiifolia
10	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-9-2016	Jun-21-2016
<b>Time Treated:</b>	6:00 PM	9:00 AM
<b>% Cloud Cover:</b>	90	0
<b>Air Temp., Unit:</b>	63 F	70 F
<b>% Relative Humidity:</b>	40	63
<b>Wind Speed/Unit/Dir:</b>	7 mph SE	0 mph
<b>Soil Temp, Unit:</b>	60 F	72 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	4	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>		V3

**Weed Stage at Each Application**

**Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"**

Trial ID: NTS06-16 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus T-18 Investigator: Christy Sprague

	<b>A</b>	<b>B</b>
<b>Weed 1 Name:</b>	STEME	STEME
<b>Height:</b>	0.5 "	6 "
<b>Stage:</b>	flower	flower
<b>Weed 2 Name:</b>	LAMAM	LAMAM
<b>Height:</b>	6 "	
<b>Stage:</b>	flower	
<b>Weed 3 Name:</b>	CAPBP	CAPBP
<b>Height:</b>	4 "	
<b>Stage:</b>	flower	
<b>Weed 4 Name:</b>	ERICA	ERICA
<b>Height:</b>	3 "	2-16 " (4)
<b>Stage:</b>	rosett	bolt
<b>Weed 5 Name:</b>	POAAN	POAAN
<b>Height:</b>	2 "	2-3 " (2)
<b>Stage:</b>	many	flower
<b>Weed 6 Name:</b>	VERPG	VERPG
<b>Height:</b>	3 "	
<b>Stage:</b>	Flower	
<b>Weed 7 Name:</b>	ANGR	ANGR
<b>Height:</b>		1-7 " (5)
<b>Stage:</b>		5-7L
<b>Weed 8 Name:</b>	CHEAL	CHEAL
<b>Height:</b>		2-8 " (4)
<b>Stage:</b>		12-18L
<b>Weed 9 Name:</b>	AMBEL	AMBEL
<b>Height:</b>		4 "
<b>Stage:</b>		10-18L
<b>Weed 10 Name:</b>	ABUTH	ABUTH
<b>Height:</b>		1-4 " (2)
<b>Stage:</b>		5L

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Application Equipment			Spray Volume	Carrier	Operation Pressure
					Nozzle Height	Nozzle Spacing	Boom Width			
<b>A</b>	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI
<b>B</b>	CUB	3.8 mph	TTI	11003	24 "	20 "	100 "	19 GAL/AC	WATER	25 PSI

**Comments:**

## Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS06-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	POAAN	STEME	LAMAM	ERICA	CAPBP	GLXMA
Crop Code						
Rating Date	May-23-2016	May-23-2016	May-23-2016	May-23-2016	May-23-2016	Jun-8-2016
Rating Type	control	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	30 DA-A
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code						
		Rate Unit							
1	Roundup PowerMax	32 fl oz/a	A	73	84	72	95	100	0
1	Clarity	1 pt/a	A						
1	Roundup PowerMax	32 fl oz/a	B						
1	Clarity	1 pt/a	B						
2	Valor	2.5 oz/a	A	80	90	88	100	100	2
2	Roundup PowerMax	32 fl oz/a	A						
2	Clarity	1 pt/a	A						
2	Roundup PowerMax	32 fl oz/a	B						
2	Clarity	1 pt/a	B						
3	Fierce	3 oz/a	A	85	94	95	99	99	4
3	Roundup PowerMax	32 fl oz/a	A						
3	Clarity	1 pt/a	A						
3	Roundup PowerMax	32 fl oz/a	B						
3	Clarity	1 pt/a	B						
4	Untreated			0	0	0	0	0	0
5	Fierce	3 oz/a	A	85	93	94	98	100	4
5	Roundup PowerMax	32 fl oz/a	A						
5	Clarity	1 pt/a	A						
5	Warrant	3 pt/a	B						
5	Roundup PowerMax	32 fl oz/a	B						
5	Clarity	1 pt/a	B						
6	Zidua	2 oz/a	A	76	76	73	100	95	2
6	Roundup PowerMax	32 fl oz/a	A						
6	Clarity	1 pt/a	A						
6	Roundup PowerMax	32 fl oz/a	B						
6	Clarity	1 pt/a	B						
LSD P=.05				4.7	4.8	4.4	4.3	4.0	1.7
Standard Deviation				3.2	3.2	2.9	2.9	2.7	1.1
CV				4.74	4.41	4.17	3.51	3.25	61.0

## Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS06-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	POAAN	STEME	ERICA	GLXMA	ANGR	CHEAL	STEME
Crop Code							
Rating Date	Jun-8-2016	Jun-8-2016	Jun-8-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016	Jun-20-2016
Rating Type	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	30 DA-A	30 DA-A	30 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	POAAN	STEME	ERICA	GLXMA	ANGR	CHEAL	STEME
1	Roundup PowerMax	32 fl oz/a	A	63	99	100	0	68	98	100
1	Clarity	1 pt/a	A							
1	Roundup PowerMax	32 fl oz/a	B							
1	Clarity	1 pt/a	B							
2	Valor	2.5 oz/a	A	76	100	100	0	71	98	100
2	Roundup PowerMax	32 fl oz/a	A							
2	Clarity	1 pt/a	A							
2	Roundup PowerMax	32 fl oz/a	B							
2	Clarity	1 pt/a	B							
3	Fierce	3 oz/a	A	80	100	100	0	89	100	100
3	Roundup PowerMax	32 fl oz/a	A							
3	Clarity	1 pt/a	A							
3	Roundup PowerMax	32 fl oz/a	B							
3	Clarity	1 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Fierce	3 oz/a	A	83	100	97	0	98	100	100
5	Roundup PowerMax	32 fl oz/a	A							
5	Clarity	1 pt/a	A							
5	Warrant	3 pt/a	B							
5	Roundup PowerMax	32 fl oz/a	B							
5	Clarity	1 pt/a	B							
6	Zidua	2 oz/a	A	84	100	100	0	100	100	99
6	Roundup PowerMax	32 fl oz/a	A							
6	Clarity	1 pt/a	A							
6	Roundup PowerMax	32 fl oz/a	B							
6	Clarity	1 pt/a	B							
LSD	P=.05			8.7	1.5	1.5	.	17.3	3.5	1.1
Standard Deviation				5.7	1.0	1.0	0.0	11.5	2.3	0.7
CV				8.96	1.23	1.17	0.0	16.26	2.84	0.86

## Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS06-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ERICA	GLXMA	ANGR	CHEAL	AMBEL	ABUTH
Crop Code						
Rating Date	Jun-20-2016	Jun-28-2016	Jun-28-2016	Jun-28-2016	Jun-28-2016	Jun-28-2016
Rating Type	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	42 DA-A	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code	ERICA	GLXMA	ANGR	CHEAL	AMBEL	ABUTH
1	Roundup PowerMax	32 fl oz/a	A	100	5	96	100	100	100
1	Clarity	1 pt/a	A						
1	Roundup PowerMax	32 fl oz/a	B						
1	Clarity	1 pt/a	B						
2	Valor	2.5 oz/a	A	100	6	98	100	100	100
2	Roundup PowerMax	32 fl oz/a	A						
2	Clarity	1 pt/a	A						
2	Roundup PowerMax	32 fl oz/a	B						
2	Clarity	1 pt/a	B						
3	Fierce	3 oz/a	A	100	9	99	100	100	100
3	Roundup PowerMax	32 fl oz/a	A						
3	Clarity	1 pt/a	A						
3	Roundup PowerMax	32 fl oz/a	B						
3	Clarity	1 pt/a	B						
4	Untreated			0	0	0	0	0	0
5	Fierce	3 oz/a	A	100	9	100	100	100	100
5	Roundup PowerMax	32 fl oz/a	A						
5	Clarity	1 pt/a	A						
5	Warrant	3 pt/a	B						
5	Roundup PowerMax	32 fl oz/a	B						
5	Clarity	1 pt/a	B						
6	Zidua	2 oz/a	A	100	13	100	100	100	99
6	Roundup PowerMax	32 fl oz/a	A						
6	Clarity	1 pt/a	A						
6	Roundup PowerMax	32 fl oz/a	B						
6	Clarity	1 pt/a	B						
LSD P=.05				.	6.3	4.2	.	.	1.7
Standard Deviation				0.0	4.2	2.8	0.0	0.0	1.1
CV				0.0	60.73	3.4	0.0	0.0	1.37

## Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS06-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ERICA		ANGR	CHEAL	ABUTH	ERICA	
Crop Code		GLXMA					GLXMA
Rating Date	Jun-28-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-19-2016
Rating Type	control	injury	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Roundup PowerMax	32 fl oz/a	A	100	6	100	100	100	100	0
1	Clarity	1 pt/a	A							
1	Roundup PowerMax	32 fl oz/a	B							
1	Clarity	1 pt/a	B							
2	Valor	2.5 oz/a	A	100	5	100	100	100	98	0
2	Roundup PowerMax	32 fl oz/a	A							
2	Clarity	1 pt/a	A							
2	Roundup PowerMax	32 fl oz/a	B							
2	Clarity	1 pt/a	B							
3	Fierce	3 oz/a	A	100	7	99	100	100	100	0
3	Roundup PowerMax	32 fl oz/a	A							
3	Clarity	1 pt/a	A							
3	Roundup PowerMax	32 fl oz/a	B							
3	Clarity	1 pt/a	B							
4	Untreated			0	0	0	0	0	0	0
5	Fierce	3 oz/a	A	100	5	100	100	100	100	0
5	Roundup PowerMax	32 fl oz/a	A							
5	Clarity	1 pt/a	A							
5	Warrant	3 pt/a	B							
5	Roundup PowerMax	32 fl oz/a	B							
5	Clarity	1 pt/a	B							
6	Zidua	2 oz/a	A	100	9	100	100	100	100	0
6	Roundup PowerMax	32 fl oz/a	A							
6	Clarity	1 pt/a	A							
6	Roundup PowerMax	32 fl oz/a	B							
6	Clarity	1 pt/a	B							
LSD P=.05				.	2.0	1.5	0.6	.	1.6	.
Standard Deviation				0.0	1.4	1.0	0.4	0.0	1.1	0.0
CV				0.0	25.65	1.23	0.49	0.0	1.31	0.0

## Fierce weed control programs in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS06-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	ERICA	GLXMA	SOYBEAN
Crop Code							
Rating Date	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Oct-23-2016	Oct-23-2016
Rating Type	control	control	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	124 DA-B	at 13% M
Number of Decimals	0	0	0	0	0	0	1

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Roundup PowerMax	32 fl oz/a	A	100	100	100	100	100	14	71.8
1	Clarity	1 pt/a	A							
1	Roundup PowerMax	32 fl oz/a	B							
1	Clarity	1 pt/a	B							
2	Valor	2.5 oz/a	A	100	100	100	100	100	14	74.4
2	Roundup PowerMax	32 fl oz/a	A							
2	Clarity	1 pt/a	A							
2	Roundup PowerMax	32 fl oz/a	B							
2	Clarity	1 pt/a	B							
3	Fierce	3 oz/a	A	100	100	100	100	100	14	79.0
3	Roundup PowerMax	32 fl oz/a	A							
3	Clarity	1 pt/a	A							
3	Roundup PowerMax	32 fl oz/a	B							
3	Clarity	1 pt/a	B							
4	Untreated			0	0	0	0	0	15	44.2
5	Fierce	3 oz/a	A	100	100	100	100	100	14	69.7
5	Roundup PowerMax	32 fl oz/a	A							
5	Clarity	1 pt/a	A							
5	Warrant	3 pt/a	B							
5	Roundup PowerMax	32 fl oz/a	B							
5	Clarity	1 pt/a	B							
6	Zidua	2 oz/a	A	100	100	100	100	100	14	70.7
6	Roundup PowerMax	32 fl oz/a	A							
6	Clarity	1 pt/a	A							
6	Roundup PowerMax	32 fl oz/a	B							
6	Clarity	1 pt/a	B							
LSD P=.05				.	.	.	.	.	0.6	10.05
Standard Deviation				0.0	0.0	0.0	0.0	0.0	0.4	6.67
CV				0.0	0.0	0.0	0.0	0.0	2.93	9.77