

Evaluation of residual herbicides in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS04-16 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-18 Investigator: Christy Sprague

Planting Date: Apr-27-2016 **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	Common chickweed	Stellaria media
2	LAMAM	henbit	Lamium amplexicaule
3	CHEAL	lambsquarters, common	Chenopodium album
4	ERICA	horseweed	Conyza canadensis
5	ANGR	mainly foxtail species	Annual grass
6	AMAPO	amaranth, Powell	Amaranthus powellii
7	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	EPP	POST
Date Treated:	Apr-27-2016	Jun-21-2016
Time Treated:	9:00 PM	8:20 AM
% Cloud Cover:	100	0
Air Temp., Unit:	54.2 F	69 F
% Relative Humidity:	48.7	69
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 "	
Stage:	many	flower
Weed 2 Name:	LAMAM	LAMAM
Height:	4 "	
Stage:	many	
Weed 3 Name:	CHEAL	CHEAL
Height:		2-8 " (4)
Stage:		12-18L
Weed 4 Name:	ERICA	ERICA
Height:		2-16 " (4)
Stage:		bolt
Weed 5 Name:	ANGR	ANGR
Height:		1-7 " (5)
Stage:		5-7L
Weed 6 Name:	AMAPO	AMAPO
Height:		4 "
Stage:		10-18L
Weed 7 Name:	ABUTH	ABUTH
Height:		1-4 " (2)
Stage:		5L

Application Equipment

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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	31 "	20 "	100 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 mph	TTI	11003	31 "	20 "	100 "	19 GAL/AC	WATER	25 PSI

Comments:

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Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

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

Trt No.	Treatment Name	Rate Unit	Appl Code	STEME	LAMAM	CAPBU	VERPG	GLXMA
1	NO PREPLANT HERBICIDE		A	0	0	0	0	0
1	POST - ONLY BACK 1/2 OF PLOT		B					
1	Engenia	12.8 fl oz/a	B					
1	Roundup PowerMax	32 fl oz/a	B					
2	Verdict	5 fl oz/a	A	83	63	100	76	0
2	Roundup PowerMax	32 fl oz/a	A					
2	MSO	1 % v/v	A					
2	AMS	8.5 lb/100 gal	A					
2	POST - ONLY BACK 1/2 OF PLOT		B					
2	Engenia	12.8 fl oz/a	B					
2	Roundup PowerMax	32 fl oz/a	B					
3	Optill	2 oz/a	A	64	56	100	65	0
3	Roundup PowerMax	32 fl oz/a	A					
3	MSO	1 % v/v	A					
3	AMS	8.5 lb/100 gal	A					
3	POST - ONLY BACK 1/2 OF PLOT		B					
3	Engenia	12.8 fl oz/a	B					
3	Roundup PowerMax	32 fl oz/a	B					
4	Verdict	5 fl oz/a	A	84	71	100	81	0
4	Outlook	5 fl oz/a	A					
4	Roundup PowerMax	32 fl oz/a	A					
4	MSO	1 % v/v	A					
4	AMS	8.5 lb/100 gal	A					
4	POST - ONLY BACK 1/2 OF PLOT		B					
4	Engenia	12.8 fl oz/a	B					
4	Roundup PowerMax	32 fl oz/a	B					
5	Zidua PRO	4.5 fl oz/a	A	59	50	100	59	0
5	Roundup PowerMax	32 fl oz/a	A					
5	MSO	1 % v/v	A					
5	AMS	8.5 lb/100 gal	A					
5	POST - ONLY BACK 1/2 OF PLOT		B					
5	Engenia	12.8 fl oz/a	B					
5	Roundup PowerMax	32 fl oz/a	B					

Missing data estimates are included in

columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33

Could not calculate LSD (% mean diff) for columns 5,10,17,19,20,22,28,29,30,31,32,34 because error mean square = 0.

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

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	STEME	LAMAM	CAPBU	VERPG	GLXMA
6	Zidua PRO	6 fl oz/a		A	60	65	100	65	0
6	Roundup PowerMax	32 fl oz/a		A					
6	MSO	1 % v/v		A					
6	AMS	8.5 lb/100 gal		A					
6	POST - ONLY BACK 1/2 OF PLOT			B					
6	Engenia	12.8 fl oz/a		B					
6	Roundup PowerMax	32 fl oz/a		B					
7	Zidua SC	3.25 fl oz/a		A	10	10	50	10	0
7	Roundup PowerMax	32 fl oz/a		A					
7	AMS	8.5 lb/100 gal		A					
7	POST - ONLY BACK 1/2 OF PLOT			B					
7	Engenia	12.8 fl oz/a		B					
7	Roundup PowerMax	32 fl oz/a		B					
8	Verdict	5 fl oz/a		A	81	69	100	79	0
8	Zidua SC	3.25 fl oz/a		A					
8	Roundup PowerMax	32 fl oz/a		A					
8	MSO	1 % v/v		A					
8	AMS	8.5 lb/100 gal		A					
8	POST - ONLY BACK 1/2 OF PLOT			B					
8	Engenia	12.8 fl oz/a		B					
8	Roundup PowerMax	32 fl oz/a		B					
9	Sonic	5 oz/a		A	45	75	59	50	0
9	Roundup PowerMax	32 fl oz/a		A					
9	MSO	1 % v/v		A					
9	AMS	8.5 lb/100 gal		A					
9	POST - ONLY BACK 1/2 OF PLOT			B					
9	Engenia	12.8 fl oz/a		B					
9	Roundup PowerMax	32 fl oz/a		B					
	LSD P=.05				9.2	17.7	22.4	8.2	.
	Standard Deviation				6.2	12.0	15.2	5.5	0.0
	CV				11.57	23.52	19.27	10.28	0.0

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Pest Code	ANGR	CHEAL	STEME	ERICA	A
Crop Code					GLXMA
Rating Date	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jul-5-2016
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	ANGR	CHEAL	STEME	ERICA	A
1	NO PREPLANT HERBICIDE			A	0	0	0	0	0
1	POST - ONLY BACK 1/2 OF PLOT			B					
1	Engenia	12.8 fl oz/a		B					
1	Roundup PowerMax	32 fl oz/a		B					
2	Verdict	5 fl oz/a		A	92	96	79	90	0
2	Roundup PowerMax	32 fl oz/a		A					
2	MSO	1 % v/v		A					
2	AMS	8.5 lb/100 gal		A					
2	POST - ONLY BACK 1/2 OF PLOT			B					
2	Engenia	12.8 fl oz/a		B					
2	Roundup PowerMax	32 fl oz/a		B					
3	Optill	2 oz/a		A	92	99	95	95	0
3	Roundup PowerMax	32 fl oz/a		A					
3	MSO	1 % v/v		A					
3	AMS	8.5 lb/100 gal		A					
3	POST - ONLY BACK 1/2 OF PLOT			B					
3	Engenia	12.8 fl oz/a		B					
3	Roundup PowerMax	32 fl oz/a		B					
4	Verdict	5 fl oz/a		A	97	96	85	100	0
4	Outlook	5 fl oz/a		A					
4	Roundup PowerMax	32 fl oz/a		A					
4	MSO	1 % v/v		A					
4	AMS	8.5 lb/100 gal		A					
4	POST - ONLY BACK 1/2 OF PLOT			B					
4	Engenia	12.8 fl oz/a		B					
4	Roundup PowerMax	32 fl oz/a		B					
5	Zidua PRO	4.5 fl oz/a		A	97	100	92	78	0
5	Roundup PowerMax	32 fl oz/a		A					
5	MSO	1 % v/v		A					
5	AMS	8.5 lb/100 gal		A					
5	POST - ONLY BACK 1/2 OF PLOT			B					
5	Engenia	12.8 fl oz/a		B					
5	Roundup PowerMax	32 fl oz/a		B					

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Crop Code					GLXMA
Rating Date	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jun-21-2016	Jul-5-2016
Rating Type	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	ANGR	CHEAL	STEME	ERICA	A
6	Zidua PRO	6 fl oz/a		A	98	100	82	100	0
6	Roundup PowerMax	32 fl oz/a		A					
6	MSO	1 % v/v		A					
6	AMS	8.5 lb/100 gal		A					
6	POST - ONLY BACK 1/2 OF PLOT			B					
6	Engenia	12.8 fl oz/a		B					
6	Roundup PowerMax	32 fl oz/a		B					
7	Zidua SC	3.25 fl oz/a		A	98	88	70	100	0
7	Roundup PowerMax	32 fl oz/a		A					
7	AMS	8.5 lb/100 gal		A					
7	POST - ONLY BACK 1/2 OF PLOT			B					
7	Engenia	12.8 fl oz/a		B					
7	Roundup PowerMax	32 fl oz/a		B					
8	Verdict	5 fl oz/a		A	99	95	76	86	0
8	Zidua SC	3.25 fl oz/a		A					
8	Roundup PowerMax	32 fl oz/a		A					
8	MSO	1 % v/v		A					
8	AMS	8.5 lb/100 gal		A					
8	POST - ONLY BACK 1/2 OF PLOT			B					
8	Engenia	12.8 fl oz/a		B					
8	Roundup PowerMax	32 fl oz/a		B					
9	Sonic	5 oz/a		A	96	100	93	93	0
9	Roundup PowerMax	32 fl oz/a		A					
9	MSO	1 % v/v		A					
9	AMS	8.5 lb/100 gal		A					
9	POST - ONLY BACK 1/2 OF PLOT			B					
9	Engenia	12.8 fl oz/a		B					
9	Roundup PowerMax	32 fl oz/a		B					
LSD P=.05					8.3	8.9	14.3	23.9	.
Standard Deviation					5.7	6.0	9.7	16.2	0.0
CV					6.64	6.98	13.04	19.67	0.0

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

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMAPO	ABUTH	ERICA	B
1	NO PREPLANT HERBICIDE		A	0	0	0	0	0	3
1	POST - ONLY BACK 1/2 OF PLOT		B						
1	Engenia	12.8 fl oz/a	B						
1	Roundup PowerMax	32 fl oz/a	B						
2	Verdict	5 fl oz/a	A	58	81	100	100	100	2
2	Roundup PowerMax	32 fl oz/a	A						
2	MSO	1 % v/v	A						
2	AMS	8.5 lb/100 gal	A						
2	POST - ONLY BACK 1/2 OF PLOT		B						
2	Engenia	12.8 fl oz/a	B						
2	Roundup PowerMax	32 fl oz/a	B						
3	Optill	2 oz/a	A	90	100	100	100	100	2
3	Roundup PowerMax	32 fl oz/a	A						
3	MSO	1 % v/v	A						
3	AMS	8.5 lb/100 gal	A						
3	POST - ONLY BACK 1/2 OF PLOT		B						
3	Engenia	12.8 fl oz/a	B						
3	Roundup PowerMax	32 fl oz/a	B						
4	Verdict	5 fl oz/a	A	71	93	100	95	100	1
4	Outlook	5 fl oz/a	A						
4	Roundup PowerMax	32 fl oz/a	A						
4	MSO	1 % v/v	A						
4	AMS	8.5 lb/100 gal	A						
4	POST - ONLY BACK 1/2 OF PLOT		B						
4	Engenia	12.8 fl oz/a	B						
4	Roundup PowerMax	32 fl oz/a	B						
5	Zidua PRO	4.5 fl oz/a	A	75	100	98	94	100	3
5	Roundup PowerMax	32 fl oz/a	A						
5	MSO	1 % v/v	A						
5	AMS	8.5 lb/100 gal	A						
5	POST - ONLY BACK 1/2 OF PLOT		B						
5	Engenia	12.8 fl oz/a	B						
5	Roundup PowerMax	32 fl oz/a	B						

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

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code						
6	Zidua PRO	6 fl oz/a		A	87	100	97	100	100	2
6	Roundup PowerMax	32 fl oz/a		A						
6	MSO	1 % v/v		A						
6	AMS	8.5 lb/100 gal		A						
6	POST - ONLY BACK 1/2 OF PLOT			B						
6	Engenia	12.8 fl oz/a		B						
6	Roundup PowerMax	32 fl oz/a		B						
7	Zidua SC	3.25 fl oz/a		A	85	93	100	100	100	2
7	Roundup PowerMax	32 fl oz/a		A						
7	AMS	8.5 lb/100 gal		A						
7	POST - ONLY BACK 1/2 OF PLOT			B						
7	Engenia	12.8 fl oz/a		B						
7	Roundup PowerMax	32 fl oz/a		B						
8	Verdict	5 fl oz/a		A	94	98	100	100	100	2
8	Zidua SC	3.25 fl oz/a		A						
8	Roundup PowerMax	32 fl oz/a		A						
8	MSO	1 % v/v		A						
8	AMS	8.5 lb/100 gal		A						
8	POST - ONLY BACK 1/2 OF PLOT			B						
8	Engenia	12.8 fl oz/a		B						
8	Roundup PowerMax	32 fl oz/a		B						
9	Sonic	5 oz/a		A	85	100	100	98	94	2
9	Roundup PowerMax	32 fl oz/a		A						
9	MSO	1 % v/v		A						
9	AMS	8.5 lb/100 gal		A						
9	POST - ONLY BACK 1/2 OF PLOT			B						
9	Engenia	12.8 fl oz/a		B						
9	Roundup PowerMax	32 fl oz/a		B						
	LSD P=.05				30.7	10.4	3.5	8.7	4.0	2.1
	Standard Deviation				20.8	7.0	2.4	5.9	2.7	1.4
	CV				29.11	8.29	2.67	6.73	3.11	68.05

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Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMBEL	ABUTH	ERICA	A
Crop Code	B	B	B	B	B	GLXMA
Rating Date	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-19-2016
Rating Type	control	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	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

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	ERICA	A
1	NO PREPLANT HERBICIDE		A	100	100	100	100	97	0
1	POST - ONLY BACK 1/2 OF PLOT		B						
1	Engenia	12.8 fl oz/a	B						
1	Roundup PowerMax	32 fl oz/a	B						
2	Verdict	5 fl oz/a	A	100	100	100	100	100	0
2	Roundup PowerMax	32 fl oz/a	A						
2	MSO	1 % v/v	A						
2	AMS	8.5 lb/100 gal	A						
2	POST - ONLY BACK 1/2 OF PLOT		B						
2	Engenia	12.8 fl oz/a	B						
2	Roundup PowerMax	32 fl oz/a	B						
3	Optill	2 oz/a	A	100	100	100	100	100	0
3	Roundup PowerMax	32 fl oz/a	A						
3	MSO	1 % v/v	A						
3	AMS	8.5 lb/100 gal	A						
3	POST - ONLY BACK 1/2 OF PLOT		B						
3	Engenia	12.8 fl oz/a	B						
3	Roundup PowerMax	32 fl oz/a	B						
4	Verdict	5 fl oz/a	A	100	100	100	100	100	0
4	Outlook	5 fl oz/a	A						
4	Roundup PowerMax	32 fl oz/a	A						
4	MSO	1 % v/v	A						
4	AMS	8.5 lb/100 gal	A						
4	POST - ONLY BACK 1/2 OF PLOT		B						
4	Engenia	12.8 fl oz/a	B						
4	Roundup PowerMax	32 fl oz/a	B						
5	Zidua PRO	4.5 fl oz/a	A	100	100	100	100	100	0
5	Roundup PowerMax	32 fl oz/a	A						
5	MSO	1 % v/v	A						
5	AMS	8.5 lb/100 gal	A						
5	POST - ONLY BACK 1/2 OF PLOT		B						
5	Engenia	12.8 fl oz/a	B						
5	Roundup PowerMax	32 fl oz/a	B						

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Pest Code	ANGR	CHEAL	AMBEL	ABUTH	ERICA	A
Crop Code	B	B	B	B	B	GLXMA
Rating Date	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-5-2016	Jul-19-2016
Rating Type	control	control	control	control	control	injury
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	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

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	ANGR	CHEAL	AMBEL	ABUTH	ERICA	A
6	Zidua PRO	6 fl oz/a		A	100	100	100	100	100	0
6	Roundup PowerMax	32 fl oz/a		A						
6	MSO	1 % v/v		A						
6	AMS	8.5 lb/100 gal		A						
6	POST - ONLY BACK 1/2 OF PLOT			B						
6	Engenia	12.8 fl oz/a		B						
6	Roundup PowerMax	32 fl oz/a		B						
7	Zidua SC	3.25 fl oz/a		A	100	100	100	100	100	0
7	Roundup PowerMax	32 fl oz/a		A						
7	AMS	8.5 lb/100 gal		A						
7	POST - ONLY BACK 1/2 OF PLOT			B						
7	Engenia	12.8 fl oz/a		B						
7	Roundup PowerMax	32 fl oz/a		B						
8	Verdict	5 fl oz/a		A	100	95	100	100	100	0
8	Zidua SC	3.25 fl oz/a		A						
8	Roundup PowerMax	32 fl oz/a		A						
8	MSO	1 % v/v		A						
8	AMS	8.5 lb/100 gal		A						
8	POST - ONLY BACK 1/2 OF PLOT			B						
8	Engenia	12.8 fl oz/a		B						
8	Roundup PowerMax	32 fl oz/a		B						
9	Sonic	5 oz/a		A	100	100	100	100	100	0
9	Roundup PowerMax	32 fl oz/a		A						
9	MSO	1 % v/v		A						
9	AMS	8.5 lb/100 gal		A						
9	POST - ONLY BACK 1/2 OF PLOT			B						
9	Engenia	12.8 fl oz/a		B						
9	Roundup PowerMax	32 fl oz/a		B						
LSD P=.05					.	5.4	.	.	2.5	.
Standard Deviation					0.0	3.7	0.0	0.0	1.7	0.0
CV					0.0	3.67	0.0	0.0	1.73	0.0

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Pest Code	ANGR	CHEAL	AMAPO	ABUTH	ERICA
Crop Code	A	A	A	A	A
Rating Date	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate Unit	Appl Code	ANGR	CHEAL	AMAPO	ABUTH	ERICA
1	NO PREPLANT HERBICIDE		A	0	0	0	0	0
1	POST - ONLY BACK 1/2 OF PLOT		B					
1	Engenia	12.8 fl oz/a	B					
1	Roundup PowerMax	32 fl oz/a	B					
2	Verdict	5 fl oz/a	A	38	78	93	93	100
2	Roundup PowerMax	32 fl oz/a	A					
2	MSO	1 % v/v	A					
2	AMS	8.5 lb/100 gal	A					
2	POST - ONLY BACK 1/2 OF PLOT		B					
2	Engenia	12.8 fl oz/a	B					
2	Roundup PowerMax	32 fl oz/a	B					
3	Optill	2 oz/a	A	84	98	100	100	89
3	Roundup PowerMax	32 fl oz/a	A					
3	MSO	1 % v/v	A					
3	AMS	8.5 lb/100 gal	A					
3	POST - ONLY BACK 1/2 OF PLOT		B					
3	Engenia	12.8 fl oz/a	B					
3	Roundup PowerMax	32 fl oz/a	B					
4	Verdict	5 fl oz/a	A	40	85	100	93	100
4	Outlook	5 fl oz/a	A					
4	Roundup PowerMax	32 fl oz/a	A					
4	MSO	1 % v/v	A					
4	AMS	8.5 lb/100 gal	A					
4	POST - ONLY BACK 1/2 OF PLOT		B					
4	Engenia	12.8 fl oz/a	B					
4	Roundup PowerMax	32 fl oz/a	B					
5	Zidua PRO	4.5 fl oz/a	A	65	100	100	93	100
5	Roundup PowerMax	32 fl oz/a	A					
5	MSO	1 % v/v	A					
5	AMS	8.5 lb/100 gal	A					
5	POST - ONLY BACK 1/2 OF PLOT		B					
5	Engenia	12.8 fl oz/a	B					
5	Roundup PowerMax	32 fl oz/a	B					

Evaluation of residual herbicides in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS04-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ANGR	CHEAL	AMAPO	ABUTH	ERICA
Crop Code	A	A	A	A	A
Rating Date	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016	Jul-19-2016
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code					
6	Zidua PRO	6 fl oz/a		A	83	95	100	100	100
6	Roundup PowerMax	32 fl oz/a		A					
6	MSO	1 % v/v		A					
6	AMS	8.5 lb/100 gal		A					
6	POST - ONLY BACK 1/2 OF PLOT			B					
6	Engenia	12.8 fl oz/a		B					
6	Roundup PowerMax	32 fl oz/a		B					
7	Zidua SC	3.25 fl oz/a		A	80	73	100	85	93
7	Roundup PowerMax	32 fl oz/a		A					
7	AMS	8.5 lb/100 gal		A					
7	POST - ONLY BACK 1/2 OF PLOT			B					
7	Engenia	12.8 fl oz/a		B					
7	Roundup PowerMax	32 fl oz/a		B					
8	Verdict	5 fl oz/a		A	90	90	100	100	98
8	Zidua SC	3.25 fl oz/a		A					
8	Roundup PowerMax	32 fl oz/a		A					
8	MSO	1 % v/v		A					
8	AMS	8.5 lb/100 gal		A					
8	POST - ONLY BACK 1/2 OF PLOT			B					
8	Engenia	12.8 fl oz/a		B					
8	Roundup PowerMax	32 fl oz/a		B					
9	Sonic	5 oz/a		A	73	100	100	93	91
9	Roundup PowerMax	32 fl oz/a		A					
9	MSO	1 % v/v		A					
9	AMS	8.5 lb/100 gal		A					
9	POST - ONLY BACK 1/2 OF PLOT			B					
9	Engenia	12.8 fl oz/a		B					
9	Roundup PowerMax	32 fl oz/a		B					
	LSD P=.05				27.7	13.9	8.1	16.2	9.8
	Standard Deviation				18.8	9.4	5.5	11.0	6.6
	CV				30.55	11.83	6.22	13.06	7.75

Evaluation of residual herbicides in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS04-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

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

Trt No.	Treatment Name	Rate	Unit	Appl Code					
1	NO PREPLANT HERBICIDE			A	0	100	100	100	100
1	POST - ONLY BACK 1/2 OF PLOT			B					
1	Engenia	12.8 fl oz/a		B					
1	Roundup PowerMax	32 fl oz/a		B					
2	Verdict	5 fl oz/a		A	0	100	100	100	100
2	Roundup PowerMax	32 fl oz/a		A					
2	MSO	1 % v/v		A					
2	AMS	8.5 lb/100 gal		A					
2	POST - ONLY BACK 1/2 OF PLOT			B					
2	Engenia	12.8 fl oz/a		B					
2	Roundup PowerMax	32 fl oz/a		B					
3	Optill	2 oz/a		A	0	100	100	100	100
3	Roundup PowerMax	32 fl oz/a		A					
3	MSO	1 % v/v		A					
3	AMS	8.5 lb/100 gal		A					
3	POST - ONLY BACK 1/2 OF PLOT			B					
3	Engenia	12.8 fl oz/a		B					
3	Roundup PowerMax	32 fl oz/a		B					
4	Verdict	5 fl oz/a		A	0	100	100	100	100
4	Outlook	5 fl oz/a		A					
4	Roundup PowerMax	32 fl oz/a		A					
4	MSO	1 % v/v		A					
4	AMS	8.5 lb/100 gal		A					
4	POST - ONLY BACK 1/2 OF PLOT			B					
4	Engenia	12.8 fl oz/a		B					
4	Roundup PowerMax	32 fl oz/a		B					
5	Zidua PRO	4.5 fl oz/a		A	0	100	100	100	100
5	Roundup PowerMax	32 fl oz/a		A					
5	MSO	1 % v/v		A					
5	AMS	8.5 lb/100 gal		A					
5	POST - ONLY BACK 1/2 OF PLOT			B					
5	Engenia	12.8 fl oz/a		B					
5	Roundup PowerMax	32 fl oz/a		B					

Evaluation of residual herbicides in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS04-16

Location: Campus T-18

Investigator: Christy Sprague
Study Director: Sprague, Powell, Stiles

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

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code					
6	Zidua PRO	6 fl oz/a		A	0	100	100	100	100
6	Roundup PowerMax	32 fl oz/a		A					
6	MSO	1 % v/v		A					
6	AMS	8.5 lb/100 gal		A					
6	POST - ONLY BACK 1/2 OF PLOT			B					
6	Engenia	12.8 fl oz/a		B					
6	Roundup PowerMax	32 fl oz/a		B					
7	Zidua SC	3.25 fl oz/a		A	0	100	100	100	100
7	Roundup PowerMax	32 fl oz/a		A					
7	AMS	8.5 lb/100 gal		A					
7	POST - ONLY BACK 1/2 OF PLOT			B					
7	Engenia	12.8 fl oz/a		B					
7	Roundup PowerMax	32 fl oz/a		B					
8	Verdict	5 fl oz/a		A	0	100	100	100	100
8	Zidua SC	3.25 fl oz/a		A					
8	Roundup PowerMax	32 fl oz/a		A					
8	MSO	1 % v/v		A					
8	AMS	8.5 lb/100 gal		A					
8	POST - ONLY BACK 1/2 OF PLOT			B					
8	Engenia	12.8 fl oz/a		B					
8	Roundup PowerMax	32 fl oz/a		B					
9	Sonic	5 oz/a		A	0	100	100	100	100
9	Roundup PowerMax	32 fl oz/a		A					
9	MSO	1 % v/v		A					
9	AMS	8.5 lb/100 gal		A					
9	POST - ONLY BACK 1/2 OF PLOT			B					
9	Engenia	12.8 fl oz/a		B					
9	Roundup PowerMax	32 fl oz/a		B					
LSD P=.05					0.0	0.0	0.0	0.0	0.0
Standard Deviation					0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0

Evaluation of residual herbicides in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS04-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ERICA
Crop Code	B
Rating Date	Jul-19-2016
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	28 DA-B
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	
1	NO PREPLANT HERBICIDE			A	98
1	POST - ONLY BACK 1/2 OF PLOT			B	
1	Engenia	12.8 fl oz/a		B	
1	Roundup PowerMax	32 fl oz/a		B	
2	Verdict	5 fl oz/a		A	100
2	Roundup PowerMax	32 fl oz/a		A	
2	MSO	1 % v/v		A	
2	AMS	8.5 lb/100 gal		A	
2	POST - ONLY BACK 1/2 OF PLOT			B	
2	Engenia	12.8 fl oz/a		B	
2	Roundup PowerMax	32 fl oz/a		B	
3	Optill	2 oz/a		A	100
3	Roundup PowerMax	32 fl oz/a		A	
3	MSO	1 % v/v		A	
3	AMS	8.5 lb/100 gal		A	
3	POST - ONLY BACK 1/2 OF PLOT			B	
3	Engenia	12.8 fl oz/a		B	
3	Roundup PowerMax	32 fl oz/a		B	
4	Verdict	5 fl oz/a		A	100
4	Outlook	5 fl oz/a		A	
4	Roundup PowerMax	32 fl oz/a		A	
4	MSO	1 % v/v		A	
4	AMS	8.5 lb/100 gal		A	
4	POST - ONLY BACK 1/2 OF PLOT			B	
4	Engenia	12.8 fl oz/a		B	
4	Roundup PowerMax	32 fl oz/a		B	
5	Zidua PRO	4.5 fl oz/a		A	100
5	Roundup PowerMax	32 fl oz/a		A	
5	MSO	1 % v/v		A	
5	AMS	8.5 lb/100 gal		A	
5	POST - ONLY BACK 1/2 OF PLOT			B	
5	Engenia	12.8 fl oz/a		B	
5	Roundup PowerMax	32 fl oz/a		B	

Evaluation of residual herbicides in no-till RR2 Xtend soybean - "Stewarded"

Trial ID: NTS04-16

Location: Campus T-18

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ERICA
Crop Code	B
Rating Date	Jul-19-2016
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	28 DA-B
Number of Decimals	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	
6	Zidua PRO	6 fl oz/a		A	100
6	Roundup PowerMax	32 fl oz/a		A	
6	MSO	1 % v/v		A	
6	AMS	8.5 lb/100 gal		A	
6	POST - ONLY BACK 1/2 OF PLOT			B	
6	Engenia	12.8 fl oz/a		B	
6	Roundup PowerMax	32 fl oz/a		B	
7	Zidua SC	3.25 fl oz/a		A	100
7	Roundup PowerMax	32 fl oz/a		A	
7	AMS	8.5 lb/100 gal		A	
7	POST - ONLY BACK 1/2 OF PLOT			B	
7	Engenia	12.8 fl oz/a		B	
7	Roundup PowerMax	32 fl oz/a		B	
8	Verdict	5 fl oz/a		A	100
8	Zidua SC	3.25 fl oz/a		A	
8	Roundup PowerMax	32 fl oz/a		A	
8	MSO	1 % v/v		A	
8	AMS	8.5 lb/100 gal		A	
8	POST - ONLY BACK 1/2 OF PLOT			B	
8	Engenia	12.8 fl oz/a		B	
8	Roundup PowerMax	32 fl oz/a		B	
9	Sonic	5 oz/a		A	100
9	Roundup PowerMax	32 fl oz/a		A	
9	MSO	1 % v/v		A	
9	AMS	8.5 lb/100 gal		A	
9	POST - ONLY BACK 1/2 OF PLOT			B	
9	Engenia	12.8 fl oz/a		B	
9	Roundup PowerMax	32 fl oz/a		B	

LSD P=.05	1.3 .
Standard Deviation	0.9 .
CV	0.86 .