

No-till weed control programs with Zidua in RR2 Xtend soybean

Trial ID: NTS02-17 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-17 Investigator: Christy Sprague

Planting Date: May-15-2017 **Row Spacing:** 30 IN
Variety: Pioneer P24T84X **No. of Reps:** 4
Population: 155000 S/A **% OM:** 3.7
Soil Type: L loam **pH:** 6.6
Plot Size: 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-tilled into standing corn stalks
Fertilizer: There is some variability in summer annual weed populations, due to no-till conditions.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	STEME	Common chickweed	Stellaria media
2	VERPG	Purslane speedwell	Veronica peregrina
3	TAROF	dandelion	Taraxacum officinale
4	ERICA	horseweed	Conyza canadensis
5	ANGR	mainly foxtail species	Annual grass
6	CHEAL	lambsquarters, common	Chenopodium album
7	AMBEL	ragweed, common	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	May-8-2017	Jun-21-2017
Time Treated:	10:40 AM	12:00 PM
% Cloud Cover:	0	5
Air Temp., Unit:	50 F	70 F
% Relative Humidity:	49	38
Wind Speed/Unit/Dir:	2.5 mph NW	3 mph N
Soil Temp, Unit:	40 F	70 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	4	3

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		8 "
Stage:		V3

Weed Stage at Each Application

	A	B
Weed 1 Name:	STEME	STEME
Height:	4 "	10-12 " (10)
Stage:	flower	flower
Weed 2 Name:	VERPG	VERPG
Height:	10 "	
Stage:	flower	
Weed 3 Name:	TAROF	TAROF
Height:	4 "	6 "
Stage:	rosett	flower
Weed 4 Name:	ERICA	ERICA
Height:		2-6 " (4)
Stage:		rosett
Weed 5 Name:	ANGR	ANGR
Height:		4 "
Stage:		4L
Weed 6 Name:	CHEAL	CHEAL
Height:		4-6 " (4)
Stage:		10L
Weed 7 Name:	AMBEL	AMBEL
Height:		3- " (4)
Stage:		6L

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	Weed Density						
	1	2	3	4	5	6	7
Date:	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017	May-8-2017
Weed Name:	STEME	VERPG	TAROF	ERICA	ANGR	CHEAL	AMBEL
Density:	2 FT2	1 FT2	1 FT2				
Date:	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Weed Name:	STEME	VERPG	TAROF	ERICA	ANGR	CHEAL	AMBEL
Density:				1 FT2	1 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	TTI	11003	26 "	20 "	100 "	19 GPA	WATER	25 PSI
B	CUB	3.8 MPH	TTI	11003	28 "	20 "	100 "	19 GPA	WATER	25 PSI

Comments:

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Pest Code	STEME	VERPG	TAROF	ERICA	STEME
Crop Code					
Rating Date	May-15-2017	May-15-2017	May-15-2017	May-15-2017	May-29-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Zidua PRO	4.09	L	6 fl oz/a		A	40	55	89	100	100
1	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
1	MSO		L	1 % v/v		A					
2	Zidua PRO	4.09	L	4.5 fl oz/a		A	68	60	100	100	100
2	Engenia	5.5	SL	12.8 fl oz/a		A					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
2	MSO		L	1 % v/v		A					
3	Zidua PRO	4.09	L	4.5 fl oz/a		A	40	70	98	100	100
3	Metribuzin	75	WG	4 oz/a		A					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
3	MSO		L	1 % v/v		A					
4	Zidua SC	4.16	L	2.13 fl oz/a		A	35	73	95	100	100
4	Engenia	5.5	SL	12.8 fl oz/a		A					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
4	MSO		L	1 % v/v		A					
5	Untreated						0	0	0	0	0
6	Zidua SC	4.16	L	2.13 fl oz/a		A	33	68	95	100	100
6	Engenia	5.5	SL	12.8 fl oz/a		A					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
6	MSO		L	1 % v/v		A					
6	Zidua SC	4.16	L	2.13 fl oz/a		B					
6	Engenia	5.5	SL	12.8 fl oz/a		B					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
6	Preference		L	0.25 % v/v		B					
7	Zidua SC	4.16	L	2.74 fl oz/a		A	43	68	93	100	100
7	Engenia	5.5	SL	12.8 fl oz/a		A					
7	Pursuit	2	L	3 fl oz/a		A					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
7	MSO		L	1 % v/v		A					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		A	23	73	90	90	100
8	2,4-D ester	4	L	8 fl oz/a		A					
8	AMS		WG	17 lb/100 gal		A					
8	Zidua SC	4.16	L	2.74 fl oz/a		B					
8	Engenia	5.5	SL	12.8 fl oz/a		B					
8	Pursuit	2	L	3 fl oz/a		B					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
8	Preference		L	0.25 % v/v		B					

* Adjusted means

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	STEME	VERPG	TAROF	ERICA	STEME
Pest Code					
Crop Code					
Rating Date	May-15-2017	May-15-2017	May-15-2017	May-15-2017	May-29-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	*	*	*	*	*
9	Zidua SC	4.16	L	3.3 fl oz/a	A	43	68	98	100	100
9	Engenia	5.5	SL	12.8 fl oz/a	A					
9	Pursuit	2	L	4 fl oz/a	A					
9	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
9	MSO		L	1 % v/v	A					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	A	31	68	80	100	100
10	2,4-D ester	4	L	8 fl oz/a	A					
10	AMS		WG	17 lb/100 gal	A					
10	Zidua SC	4.16	L	3.3 fl oz/a	B					
10	Engenia	5.5	SL	12.8 fl oz/a	B					
10	Pursuit	2	L	4 fl oz/a	B					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	B					
10	Preference		L	0.25 % v/v	B					
11	Zidua SC	4.16	L	2.74 fl oz/a	A	35	68	95	100	100
11	Engenia	5.5	SL	12.8 fl oz/a	A					
11	Pursuit	2	L	3 fl oz/a	A					
11	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
11	MSO		L	1 % v/v	A					
11	Zidua SC	4.16	L	2.13 fl oz/a	B					
11	Engenia	5.5	SL	12.8 fl oz/a	B					
11	Roundup PowerMax	4.5	SL	32 fl oz/a	B					
11	Preference		L	0.25 % v/v	B					
12	Engenia	5.5	SL	12.8 fl oz/a	A	50	55	73	88	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
12	Engenia	5.5	SL	12.8 fl oz/a	B					
12	Roundup PowerMax	4.5	SL	32 fl oz/a	B					
LSD P=.05						28.8	21.2	12.8	10.6	.
Standard Deviation						20.0	14.7	8.9	7.4	0.0
CV						54.79	24.48	10.66	8.23	0.0

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Pest Code	VERPG	TAROF	ERICA	CHEAL	AMBEL
Crop Code					
Rating Date	May-29-2017	May-29-2017	May-29-2017	May-29-2017	May-29-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Zidua PRO	4.09	L	6 fl oz/a		A	100	89	100	100	100
1	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
1	MSO		L	1 % v/v		A					
2	Zidua PRO	4.09	L	4.5 fl oz/a		A	100	86	100	100	100
2	Engenia	5.5	SL	12.8 fl oz/a		A					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
2	MSO		L	1 % v/v		A					
3	Zidua PRO	4.09	L	4.5 fl oz/a		A	100	85	99	100	100
3	Metribuzin	75	WG	4 oz/a		A					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
3	MSO		L	1 % v/v		A					
4	Zidua SC	4.16	L	2.13 fl oz/a		A	100	91	100	100	100
4	Engenia	5.5	SL	12.8 fl oz/a		A					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
4	MSO		L	1 % v/v		A					
5	Untreated						0	0	0	0	0
6	Zidua SC	4.16	L	2.13 fl oz/a		A	100	86	100	100	100
6	Engenia	5.5	SL	12.8 fl oz/a		A					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
6	MSO		L	1 % v/v		A					
6	Zidua SC	4.16	L	2.13 fl oz/a		B					
6	Engenia	5.5	SL	12.8 fl oz/a		B					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
6	Preference		L	0.25 % v/v		B					
7	Zidua SC	4.16	L	2.74 fl oz/a		A	100	82	100	100	100
7	Engenia	5.5	SL	12.8 fl oz/a		A					
7	Pursuit	2	L	3 fl oz/a		A					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
7	MSO		L	1 % v/v		A					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		A	100	74	90	100	100
8	2,4-D ester	4	L	8 fl oz/a		A					
8	AMS		WG	17 lb/100 gal		A					
8	Zidua SC	4.16	L	2.74 fl oz/a		B					
8	Engenia	5.5	SL	12.8 fl oz/a		B					
8	Pursuit	2	L	3 fl oz/a		B					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
8	Preference		L	0.25 % v/v		B					

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Crop Code					
Rating Date	May-29-2017	May-29-2017	May-29-2017	May-29-2017	May-29-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
9	Zidua SC	4.16	L	3.3	fl oz/a	A	100	82	100	100	100
9	Engenia	5.5	SL	12.8	fl oz/a	A					
9	Pursuit	2	L	4	fl oz/a	A					
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
9	MSO		L	1	% v/v	A					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	A	100	70	100	100	100
10	2,4-D ester	4	L	8	fl oz/a	A					
10	AMS		WG	17	lb/100 gal	A					
10	Zidua SC	4.16	L	3.3	fl oz/a	B					
10	Engenia	5.5	SL	12.8	fl oz/a	B					
10	Pursuit	2	L	4	fl oz/a	B					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
10	Preference		L	0.25	% v/v	B					
11	Zidua SC	4.16	L	2.74	fl oz/a	A	100	86	100	100	100
11	Engenia	5.5	SL	12.8	fl oz/a	A					
11	Pursuit	2	L	3	fl oz/a	A					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
11	MSO		L	1	% v/v	A					
11	Zidua SC	4.16	L	2.13	fl oz/a	B					
11	Engenia	5.5	SL	12.8	fl oz/a	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
11	Preference		L	0.25	% v/v	B					
12	Engenia	5.5	SL	12.8	fl oz/a	A	100	71	100	100	100
12	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
12	Engenia	5.5	SL	12.8	fl oz/a	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
LSD P=.05							.	7.4	5.2	.	.
Standard Deviation							0.0	5.1	3.6	0.0	0.0
CV							0.0	6.83	3.96	0.0	0.0

* Adjusted means

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Pest Code		ANGR	CHEAL	AMBEL	TAROF
Crop Code	GLXMA				
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Zidua PRO	4.09	L	6 fl oz/a		A	0	94	95	95	38
1	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
1	MSO		L	1 % v/v		A					
2	Zidua PRO	4.09	L	4.5 fl oz/a		A	0	100	100	100	50
2	Engenia	5.5	SL	12.8 fl oz/a		A					
2	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
2	MSO		L	1 % v/v		A					
3	Zidua PRO	4.09	L	4.5 fl oz/a		A	0	98	100	100	60
3	Metribuzin	75	WG	4 oz/a		A					
3	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
3	MSO		L	1 % v/v		A					
4	Zidua SC	4.16	L	2.13 fl oz/a		A	0	100	100	100	66
4	Engenia	5.5	SL	12.8 fl oz/a		A					
4	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
4	MSO		L	1 % v/v		A					
5	Untreated						0	0	0	0	0
6	Zidua SC	4.16	L	2.13 fl oz/a		A	0	98	100	100	79
6	Engenia	5.5	SL	12.8 fl oz/a		A					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
6	MSO		L	1 % v/v		A					
6	Zidua SC	4.16	L	2.13 fl oz/a		B					
6	Engenia	5.5	SL	12.8 fl oz/a		B					
6	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
6	Preference		L	0.25 % v/v		B					
7	Zidua SC	4.16	L	2.74 fl oz/a		A	0	100	100	100	49
7	Engenia	5.5	SL	12.8 fl oz/a		A					
7	Pursuit	2	L	3 fl oz/a		A					
7	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
7	MSO		L	1 % v/v		A					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		A	0	91	68	91	79
8	2,4-D ester	4	L	8 fl oz/a		A					
8	AMS		WG	17 lb/100 gal		A					
8	Zidua SC	4.16	L	2.74 fl oz/a		B					
8	Engenia	5.5	SL	12.8 fl oz/a		B					
8	Pursuit	2	L	3 fl oz/a		B					
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
8	Preference		L	0.25 % v/v		B					

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Pest Code		ANGR	CHEAL	AMBEL	TAROF
Crop Code	GLXMA				
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
9	Zidua SC	4.16	L	3.3	fl oz/a	A	0	75	75	75	64
9	Engenia	5.5	SL	12.8	fl oz/a	A					
9	Pursuit	2	L	4	fl oz/a	A					
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
9	MSO		L	1	% v/v	A					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	A	0	84	83	100	84
10	2,4-D ester	4	L	8	fl oz/a	A					
10	AMS		WG	17	lb/100 gal	A					
10	Zidua SC	4.16	L	3.3	fl oz/a	B					
10	Engenia	5.5	SL	12.8	fl oz/a	B					
10	Pursuit	2	L	4	fl oz/a	B					
10	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
10	Preference		L	0.25	% v/v	B					
11	Zidua SC	4.16	L	2.74	fl oz/a	A	0	100	100	100	72
11	Engenia	5.5	SL	12.8	fl oz/a	A					
11	Pursuit	2	L	3	fl oz/a	A					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
11	MSO		L	1	% v/v	A					
11	Zidua SC	4.16	L	2.13	fl oz/a	B					
11	Engenia	5.5	SL	12.8	fl oz/a	B					
11	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
11	Preference		L	0.25	% v/v	B					
12	Engenia	5.5	SL	12.8	fl oz/a	A	0	96	100	100	87
12	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
12	Engenia	5.5	SL	12.8	fl oz/a	B					
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
LSD P=.05							.	24.1	22.4	21.5	18.9
Standard Deviation							0.0	16.8	15.6	14.9	13.2
CV							0.0	19.43	18.33	16.9	21.75

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Pest Code	ERICA	GLXMA	GLXMA	ANGR	CHEAL	AMBEL
Crop Code						
Rating Date	Jun-21-2017	Jun-28-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017
Rating Type	control	injury	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	7 DA-B	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Zidua PRO	4.09	L	6 fl oz/a		A	98	1	0	98	91	98
1	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
1	MSO		L	1 % v/v		A						
2	Zidua PRO	4.09	L	4.5 fl oz/a		A	100	1	0	100	100	99
2	Engenia	5.5	SL	12.8 fl oz/a		A						
2	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
2	MSO		L	1 % v/v		A						
3	Zidua PRO	4.09	L	4.5 fl oz/a		A	95	2	0	93	100	100
3	Metribuzin	75	WG	4 oz/a		A						
3	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
3	MSO		L	1 % v/v		A						
4	Zidua SC	4.16	L	2.13 fl oz/a		A	100	1	0	98	100	100
4	Engenia	5.5	SL	12.8 fl oz/a		A						
4	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
4	MSO		L	1 % v/v		A						
5	Untreated						0	0	0	0	0	0
6	Zidua SC	4.16	L	2.13 fl oz/a		A	100	4	4	100	100	100
6	Engenia	5.5	SL	12.8 fl oz/a		A						
6	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
6	MSO		L	1 % v/v		A						
6	Zidua SC	4.16	L	2.13 fl oz/a		B						
6	Engenia	5.5	SL	12.8 fl oz/a		B						
6	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
6	Preference		L	0.25 % v/v		B						
7	Zidua SC	4.16	L	2.74 fl oz/a		A	100	1	0	100	100	100
7	Engenia	5.5	SL	12.8 fl oz/a		A						
7	Pursuit	2	L	3 fl oz/a		A						
7	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
7	MSO		L	1 % v/v		A						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		A	93	6	4	100	100	100
8	2,4-D ester	4	L	8 fl oz/a		A						
8	AMS		WG	17 lb/100 gal		A						
8	Zidua SC	4.16	L	2.74 fl oz/a		B						
8	Engenia	5.5	SL	12.8 fl oz/a		B						
8	Pursuit	2	L	3 fl oz/a		B						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
8	Preference		L	0.25 % v/v		B						

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,6,9,10,11,24 because error mean square = 0.

No-till weed control programs with Zidua in RR2 Xtend soybean

Trial ID: NTS02-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	ERICA	GLXMA	GLXMA	ANGR	CHEAL	AMBEL
Crop Code						
Rating Date	Jun-21-2017	Jun-28-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017	Jul-12-2017
Rating Type	control	injury	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	7 DA-B	21 DA-B	21 DA-B	21 DA-B	21 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
9	Zidua SC	4.16	L	3.3	fl oz/a	A	100	1	0	100	100	100
9	Engenia	5.5	SL	12.8	fl oz/a	A						
9	Pursuit	2	L	4	fl oz/a	A						
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
9	MSO		L	1	% v/v	A						
10	Roundup PowerMax	4.5	SL	32	fl oz/a	A	100	6	5	100	100	100
10	2,4-D ester	4	L	8	fl oz/a	A						
10	AMS		WG	17	lb/100 gal	A						
10	Zidua SC	4.16	L	3.3	fl oz/a	B						
10	Engenia	5.5	SL	12.8	fl oz/a	B						
10	Pursuit	2	L	4	fl oz/a	B						
10	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
10	Preference		L	0.25	% v/v	B						
11	Zidua SC	4.16	L	2.74	fl oz/a	A	100	5	6	100	100	100
11	Engenia	5.5	SL	12.8	fl oz/a	A						
11	Pursuit	2	L	3	fl oz/a	A						
11	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
11	MSO		L	1	% v/v	A						
11	Zidua SC	4.16	L	2.13	fl oz/a	B						
11	Engenia	5.5	SL	12.8	fl oz/a	B						
11	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
11	Preference		L	0.25	% v/v	B						
12	Engenia	5.5	SL	12.8	fl oz/a	A	100	2	0	100	100	100
12	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
12	Engenia	5.5	SL	12.8	fl oz/a	B						
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
LSD P=.05							7.8	1.4	2.3	5.0	4.9	2.2
Standard Deviation							5.4	1.0	1.6	3.5	3.4	1.6
CV							5.96	43.07	108.45	3.85	3.75	1.7

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,6,9,10,11,24 because error mean square = 0.

No-till weed control programs with Zidua in RR2 Xtend soybean

Trial ID: NTS02-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	TAROF	ERICA	GLXMA	ANGR	CHEAL	AMBEL
Crop Code						
Rating Date	Jul-12-2017	Jul-12-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017
Rating Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-B	21 DA-B	48 DA-B	48 DA-B	48 DA-B	48 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Zidua PRO	4.09	L	6 fl oz/a		A	69	100	0	82	88	91
1	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
1	MSO		L	1 % v/v		A						
2	Zidua PRO	4.09	L	4.5 fl oz/a		A	81	100	0	99	97	96
2	Engenia	5.5	SL	12.8 fl oz/a		A						
2	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
2	MSO		L	1 % v/v		A						
3	Zidua PRO	4.09	L	4.5 fl oz/a		A	74	98	0	91	93	100
3	Metribuzin	75	WG	4 oz/a		A						
3	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
3	MSO		L	1 % v/v		A						
4	Zidua SC	4.16	L	2.13 fl oz/a		A	76	100	0	90	99	100
4	Engenia	5.5	SL	12.8 fl oz/a		A						
4	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
4	MSO		L	1 % v/v		A						
5	Untreated						0	0	0	0	0	0
6	Zidua SC	4.16	L	2.13 fl oz/a		A	95	100	0	100	100	100
6	Engenia	5.5	SL	12.8 fl oz/a		A						
6	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
6	MSO		L	1 % v/v		A						
6	Zidua SC	4.16	L	2.13 fl oz/a		B						
6	Engenia	5.5	SL	12.8 fl oz/a		B						
6	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
6	Preference		L	0.25 % v/v		B						
7	Zidua SC	4.16	L	2.74 fl oz/a		A	70	100	0	99	100	100
7	Engenia	5.5	SL	12.8 fl oz/a		A						
7	Pursuit	2	L	3 fl oz/a		A						
7	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
7	MSO		L	1 % v/v		A						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		A	100	100	0	100	100	100
8	2,4-D ester	4	L	8 fl oz/a		A						
8	AMS		WG	17 lb/100 gal		A						
8	Zidua SC	4.16	L	2.74 fl oz/a		B						
8	Engenia	5.5	SL	12.8 fl oz/a		B						
8	Pursuit	2	L	3 fl oz/a		B						
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
8	Preference		L	0.25 % v/v		B						

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,6,9,10,11,24 because error mean square = 0.

No-till weed control programs with Zidua in RR2 Xtend soybean

Trial ID: NTS02-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	TAROF	ERICA	GLXMA	ANGR	CHEAL	AMBEL
Crop Code						
Rating Date	Jul-12-2017	Jul-12-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017	Aug-8-2017
Rating Type	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	21 DA-B	21 DA-B	48 DA-B	48 DA-B	48 DA-B	48 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
9	Zidua SC	4.16	L	3.3	fl oz/a	A	74	100	0	99	100	78
9	Engenia	5.5	SL	12.8	fl oz/a	A						
9	Pursuit	2	L	4	fl oz/a	A						
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
9	MSO		L	1	% v/v	A						
10	Roundup PowerMax	4.5	SL	32	fl oz/a	A	99	100	0	100	100	100
10	2,4-D ester	4	L	8	fl oz/a	A						
10	AMS		WG	17	lb/100 gal	A						
10	Zidua SC	4.16	L	3.3	fl oz/a	B						
10	Engenia	5.5	SL	12.8	fl oz/a	B						
10	Pursuit	2	L	4	fl oz/a	B						
10	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
10	Preference		L	0.25	% v/v	B						
11	Zidua SC	4.16	L	2.74	fl oz/a	A	95	100	0	100	100	100
11	Engenia	5.5	SL	12.8	fl oz/a	A						
11	Pursuit	2	L	3	fl oz/a	A						
11	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
11	MSO		L	1	% v/v	A						
11	Zidua SC	4.16	L	2.13	fl oz/a	B						
11	Engenia	5.5	SL	12.8	fl oz/a	B						
11	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
11	Preference		L	0.25	% v/v	B						
12	Engenia	5.5	SL	12.8	fl oz/a	A	95	100	0	97	100	100
12	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
12	Engenia	5.5	SL	12.8	fl oz/a	B						
12	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
LSD P=.05							11.8	2.1	.	8.3	7.7	19.7
Standard Deviation							8.2	1.4	0.0	5.8	5.4	13.7
CV							10.64	1.58	0.0	6.58	6.01	15.43

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,6,9,10,11,24 because error mean square = 0.

No-till weed control programs with Zidua in RR2 Xtend soybean

Trial ID: NTS02-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	TAROF	ERICA
Crop Code		
Rating Date	Aug-8-2017	Aug-8-2017
Rating Type	control	control
Rating Unit	percent	percent
Trt-Eval Interval	48 DA-B	48 DA-B
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*
1	Zidua PRO	4.09	L	6 fl oz/a		A	63	100
1	Roundup PowerMax	4.5	SL	32 fl oz/a		A		
1	MSO		L	1 % v/v		A		
2	Zidua PRO	4.09	L	4.5 fl oz/a		A	78	100
2	Engenia	5.5	SL	12.8 fl oz/a		A		
2	Roundup PowerMax	4.5	SL	32 fl oz/a		A		
2	MSO		L	1 % v/v		A		
3	Zidua PRO	4.09	L	4.5 fl oz/a		A	68	95
3	Metribuzin	75	WG	4 oz/a		A		
3	Roundup PowerMax	4.5	SL	32 fl oz/a		A		
3	MSO		L	1 % v/v		A		
4	Zidua SC	4.16	L	2.13 fl oz/a		A	70	100
4	Engenia	5.5	SL	12.8 fl oz/a		A		
4	Roundup PowerMax	4.5	SL	32 fl oz/a		A		
4	MSO		L	1 % v/v		A		
5	Untreated						0	0
6	Zidua SC	4.16	L	2.13 fl oz/a		A	100	100
6	Engenia	5.5	SL	12.8 fl oz/a		A		
6	Roundup PowerMax	4.5	SL	32 fl oz/a		A		
6	MSO		L	1 % v/v		A		
6	Zidua SC	4.16	L	2.13 fl oz/a		B		
6	Engenia	5.5	SL	12.8 fl oz/a		B		
6	Roundup PowerMax	4.5	SL	32 fl oz/a		B		
6	Preference		L	0.25 % v/v		B		
7	Zidua SC	4.16	L	2.74 fl oz/a		A	64	100
7	Engenia	5.5	SL	12.8 fl oz/a		A		
7	Pursuit	2	L	3 fl oz/a		A		
7	Roundup PowerMax	4.5	SL	32 fl oz/a		A		
7	MSO		L	1 % v/v		A		
8	Roundup PowerMax	4.5	SL	32 fl oz/a		A	99	100
8	2,4-D ester	4	L	8 fl oz/a		A		
8	AMS		WG	17 lb/100 gal		A		
8	Zidua SC	4.16	L	2.74 fl oz/a		B		
8	Engenia	5.5	SL	12.8 fl oz/a		B		
8	Pursuit	2	L	3 fl oz/a		B		
8	Roundup PowerMax	4.5	SL	32 fl oz/a		B		
8	Preference		L	0.25 % v/v		B		

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,6,9,10,11,24 because error mean square = 0.

No-till weed control programs with Zidua in RR2 Xtend soybean

Trial ID: NTS02-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	TAROF	ERICA
Crop Code		
Rating Date	Aug-8-2017	Aug-8-2017
Rating Type	control	control
Rating Unit	percent	percent
Trt-Eval Interval	48 DA-B	48 DA-B
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	*	*
9	Zidua SC	4.16	L	3.3 fl oz/a	A	70	100
9	Engenia	5.5	SL	12.8 fl oz/a	A		
9	Pursuit	2	L	4 fl oz/a	A		
9	Roundup PowerMax	4.5	SL	32 fl oz/a	A		
9	MSO		L	1 % v/v	A		
10	Roundup PowerMax	4.5	SL	32 fl oz/a	A	99	100
10	2,4-D ester	4	L	8 fl oz/a	A		
10	AMS		WG	17 lb/100 gal	A		
10	Zidua SC	4.16	L	3.3 fl oz/a	B		
10	Engenia	5.5	SL	12.8 fl oz/a	B		
10	Pursuit	2	L	4 fl oz/a	B		
10	Roundup PowerMax	4.5	SL	32 fl oz/a	B		
10	Preference		L	0.25 % v/v	B		
11	Zidua SC	4.16	L	2.74 fl oz/a	A	99	100
11	Engenia	5.5	SL	12.8 fl oz/a	A		
11	Pursuit	2	L	3 fl oz/a	A		
11	Roundup PowerMax	4.5	SL	32 fl oz/a	A		
11	MSO		L	1 % v/v	A		
11	Zidua SC	4.16	L	2.13 fl oz/a	B		
11	Engenia	5.5	SL	12.8 fl oz/a	B		
11	Roundup PowerMax	4.5	SL	32 fl oz/a	B		
11	Preference		L	0.25 % v/v	B		
12	Engenia	5.5	SL	12.8 fl oz/a	A	98	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a	A		
12	Engenia	5.5	SL	12.8 fl oz/a	B		
12	Roundup PowerMax	4.5	SL	32 fl oz/a	B		
LSD P=.05						14.2	4.2
Standard Deviation						9.9	2.9
CV						13.09	3.16

* Adjusted means

Could not calculate LSD (% mean diff) for columns 5,6,9,10,11,24 because error mean square = 0.