

Residual weed control programs with Engenia POST in RR2 Xtend soybean

Trial ID: NTS03-17 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus T-17 Investigator: Christy Sprague

Planting Date: May-15-2017 **Row Spacing:** 30 IN
Variety: Pioneer 24T84X **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:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	STEME	chickweed, common	Stellaria media
2	CAPBP	Shepherd's purse	Capsella bursa-pastoris
3	VERPG	Purslane speedwell	Veronica peregrina
4	TAROF	dandelion	Taraxacum officinale
5	ERICA	horseweed	Conyza canadensis
6	ANGR	mainly foxtail species	Annual grass
7	CHEAL	lambquarters, common	Chenopodium album
8	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:	10:15 AM	12:30 PM
% Cloud Cover:	0	10
Air Temp., Unit:	50 F	77 F
% Relative Humidity:	48	38
Wind Speed/Unit/Dir:	2 mph NW	2 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

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	A	B
Weed 1 Name:	STEME	STEME
Height:	4 "	10-12 " (10)
Stage:	flower	flower
Weed 2 Name:	CAPBP	CAPBP
Height:	12-18 " (16)	
Stage:	flower	
Weed 3 Name:	VERPG	VERPG
Height:	6 "	
Stage:	flower	
Weed 4 Name:	TAROF	TAROF
Height:	4 "	6 "
Stage:	rosett	flower
Weed 5 Name:	ERICA	ERICA
Height:	4 "	2-6 " (4)
Stage:	rosett	rosett
Weed 6 Name:	ANGR	ANGR
Height:		4 "
Stage:		4L
Weed 7 Name:	CHEAL	CHEAL
Height:		4-6 " (4)
Stage:		10L
Weed 8 Name:	AMBEL	AMBEL
Height:		4 "
Stage:		6L

	Weed Density							
	1	2	3	4	5	6	7	8
Date:	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Weed Name:	STEME	CAPBP	VERPG	TAROF	ERICA	ANGR	CHEAL	AMBEL
Density:	3 FT2	1 FT2	1 FT2	2 FT2	1 FT2	1 FT2	1 FT2	1 FT2

Application Equipment										
Appl	Sprayer	Ground	Nozzle	Nozzle	Nozzle	Nozzle	Boom	Spray	Carrier	Operation
	Type	Speed	Type	Size	Height	Spacing	Width	Volume		Pressure
A	Cub	3.8 MPH	TTI	11003	26 "	20 "	100 "	19 GPA	WATER	25 PSI
B	Cub	3.8 MPH	TTI	11003	26 "	20 "	100 "	19 GPA	WATER	25 PSI

Comments:

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Pest Code	STEME	CAPBP	VERPG	TAROF	ERICA
Crop Code					
Rating Date	May-22-2017	May-22-2017	May-22-2017	May-22-2017	May-22-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Untreated						0	0	0	0	0
2	Engenia	5.5	SL	12.8	fl oz/a	B	0	0	0	0	0
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
3	Verdict	5.57	L	5	fl oz/a	A	100	100	100	99	100
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
3	MSO		L	1	% v/v	A					
3	AMS		WG	17	lb/100 gal	A					
4	Verdict	5.57	L	5	fl oz/a	A	100	100	100	93	100
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
4	MSO		L	1	% v/v	A					
4	AMS		WG	17	lb/100 gal	A					
4	Engenia	5.5	SL	12.8	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
5	Verdict	5.57	L	5	fl oz/a	A	100	100	100	98	100
5	Outlook	6	L	5	fl oz/a	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
5	MSO		L	1	% v/v	A					
5	AMS		WG	17	lb/100 gal	A					
6	Verdict	5.57	L	5	fl oz/a	A	100	100	100	99	100
6	Outlook	6	L	5	fl oz/a	A					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
6	MSO		L	1	% v/v	A					
6	AMS		WG	17	lb/100 gal	A					
6	Engenia	5.5	SL	12.8	fl oz/a	B					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
7	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	100	100	100	100
7	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
7	MSO		L	1	% v/v	A					
7	AMS		WG	17	lb/100 gal	A					
8	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	100	100	99	100
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	MSO		L	1	% v/v	A					
8	AMS		WG	17	lb/100 gal	A					
8	Engenia	5.5	SL	12.8	fl oz/a	B					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
9	Zidua PRO	4.09	L	6	fl oz/a	A	100	100	100	100	100
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
9	MSO		L	1	% v/v	A					
9	AMS		WG	17	lb/100 gal	A					

* Adjusted means

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Pest Code	STEME	CAPBP	VERPG	TAROF	ERICA
Crop Code					
Rating Date	May-22-2017	May-22-2017	May-22-2017	May-22-2017	May-22-2017
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a		A	100	100	100	92	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
10	MSO		L	1 % v/v		A					
10	AMS		WG	17 lb/100 gal		A					
10	Engenia	5.5	SL	12.8 fl oz/a		B					
10	Roundup PowerMax	4.5	SL	32 fl oz/a		B					
11	Fierce	76	WG	3 oz/a		A	100	100	100	89	93
11	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
11	AMS		WG	17 lb/100 gal		A					
12	Fierce	76	WG	3 oz/a		A	99	100	100	91	96
12	Roundup PowerMax	4.5	SL	32 fl oz/a		A					
12	AMS		WG	17 lb/100 gal		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						0.6	.	.	4.0	5.0
	Standard Deviation						0.4	0.0	0.0	2.8	3.5
	CV						0.52	0.0	0.0	3.48	4.23

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Pest Code	CHEAL	AMBEL	GLXMA	ANGR	CHEAL
Crop Code					
Rating Date	May-22-2017	May-22-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	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	Untreated						0	0	0	0	0
2	Engenia	5.5	SL	12.8	fl oz/a	B	0	0	0	0	0
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
3	Verdict	5.57	L	5	fl oz/a	A	100	100	0	86	90
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
3	MSO		L	1	% v/v	A					
3	AMS		WG	17	lb/100 gal	A					
4	Verdict	5.57	L	5	fl oz/a	A	100	99	0	95	93
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
4	MSO		L	1	% v/v	A					
4	AMS		WG	17	lb/100 gal	A					
4	Engenia	5.5	SL	12.8	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
5	Verdict	5.57	L	5	fl oz/a	A	100	100	0	100	83
5	Outlook	6	L	5	fl oz/a	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
5	MSO		L	1	% v/v	A					
5	AMS		WG	17	lb/100 gal	A					
6	Verdict	5.57	L	5	fl oz/a	A	100	100	0	89	88
6	Outlook	6	L	5	fl oz/a	A					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
6	MSO		L	1	% v/v	A					
6	AMS		WG	17	lb/100 gal	A					
6	Engenia	5.5	SL	12.8	fl oz/a	B					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
7	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	100	0	96	91
7	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
7	MSO		L	1	% v/v	A					
7	AMS		WG	17	lb/100 gal	A					
8	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	100	0	100	93
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	MSO		L	1	% v/v	A					
8	AMS		WG	17	lb/100 gal	A					
8	Engenia	5.5	SL	12.8	fl oz/a	B					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
9	Zidua PRO	4.09	L	6	fl oz/a	A	100	100	0	98	95
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
9	MSO		L	1	% v/v	A					
9	AMS		WG	17	lb/100 gal	A					

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Crop Code					
Rating Date	May-22-2017	May-22-2017	Jun-21-2017	Jun-21-2017	Jun-21-2017
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-A	14 DA-A	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 Unit	Appl Code	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A	100	100	0	98	95
10	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
10	MSO		L	1 % v/v	A					
10	AMS		WG	17 lb/100 gal	A					
10	Engenia	5.5	SL	12.8 fl oz/a	B					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	B					
11	Fierce	76	WG	3 oz/a	A	100	97	0	98	85
11	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
11	AMS		WG	17 lb/100 gal	A					
12	Fierce	76	WG	3 oz/a	A	100	100	0	100	97
12	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
12	AMS		WG	17 lb/100 gal	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						.	2.1	.	9.5	13.2
Standard Deviation						0.0	1.4	0.0	6.6	9.1
CV						0.0	1.74	0.0	8.26	12.1

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Pest Code	AMBEL	TAROF	ERICA	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jul-5-2017	Jul-5-2017	Jul-5-2017
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	14 DA-B	14 DA-B	14 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	Untreated						0	0	0	0	0	0
2	Engenia	5.5	SL	12.8	fl oz/a	B	0	0	0	8	100	98
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
3	Verdict	5.57	L	5	fl oz/a	A	98	63	100	0	95	79
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
3	MSO		L	1	% v/v	A						
3	AMS		WG	17	lb/100 gal	A						
4	Verdict	5.57	L	5	fl oz/a	A	100	71	100	1	100	100
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
4	MSO		L	1	% v/v	A						
4	AMS		WG	17	lb/100 gal	A						
4	Engenia	5.5	SL	12.8	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
5	Verdict	5.57	L	5	fl oz/a	A	100	58	100	0	95	91
5	Outlook	6	L	5	fl oz/a	A						
5	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
5	MSO		L	1	% v/v	A						
5	AMS		WG	17	lb/100 gal	A						
6	Verdict	5.57	L	5	fl oz/a	A	100	68	100	0	100	100
6	Outlook	6	L	5	fl oz/a	A						
6	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
6	MSO		L	1	% v/v	A						
6	AMS		WG	17	lb/100 gal	A						
6	Engenia	5.5	SL	12.8	fl oz/a	B						
6	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
7	Zidua PRO	4.09	L	4.5	fl oz/a	A	93	68	100	0	93	88
7	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
7	MSO		L	1	% v/v	A						
7	AMS		WG	17	lb/100 gal	A						
8	Zidua PRO	4.09	L	4.5	fl oz/a	A	95	69	100	0	100	100
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
8	MSO		L	1	% v/v	A						
8	AMS		WG	17	lb/100 gal	A						
8	Engenia	5.5	SL	12.8	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
9	Zidua PRO	4.09	L	6	fl oz/a	A	100	84	100	0	100	90
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
9	MSO		L	1	% v/v	A						
9	AMS		WG	17	lb/100 gal	A						

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Pest Code	AMBEL	TAROF	ERICA	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jun-21-2017	Jun-21-2017	Jun-21-2017	Jul-5-2017	Jul-5-2017	Jul-5-2017
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	14 DA-B	14 DA-B	14 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a		A	99	81	98	1	100	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
10	MSO		L	1 % v/v		A						
10	AMS		WG	17 lb/100 gal		A						
10	Engenia	5.5	SL	12.8 fl oz/a		B						
10	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
11	Fierce	76	WG	3 oz/a		A	98	78	88	1	100	75
11	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
11	AMS		WG	17 lb/100 gal		A						
12	Fierce	76	WG	3 oz/a		A	100	87	88	1	100	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
12	AMS		WG	17 lb/100 gal		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							5.7	15.7	10.0	2.2	6.4	12.5
Standard Deviation							4.0	10.9	7.0	1.5	4.4	8.7
CV							4.88	18.1	8.6	147.37	4.93	10.25

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Pest Code	AMBEL	TAROF	ERICA	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jul-5-2017	Jul-5-2017	Jul-5-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
1	Untreated						0	0	0	0	0	0
2	Engenia	5.5	SL	12.8	fl oz/a	B	100	68	91	4	100	100
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
3	Verdict	5.57	L	5	fl oz/a	A	94	58	95	0	92	74
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
3	MSO		L	1	% v/v	A						
3	AMS		WG	17	lb/100 gal	A						
4	Verdict	5.57	L	5	fl oz/a	A	100	87	100	0	94	100
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
4	MSO		L	1	% v/v	A						
4	AMS		WG	17	lb/100 gal	A						
4	Engenia	5.5	SL	12.8	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
5	Verdict	5.57	L	5	fl oz/a	A	94	46	100	0	95	82
5	Outlook	6	L	5	fl oz/a	A						
5	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
5	MSO		L	1	% v/v	A						
5	AMS		WG	17	lb/100 gal	A						
6	Verdict	5.57	L	5	fl oz/a	A	100	98	100	0	98	100
6	Outlook	6	L	5	fl oz/a	A						
6	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
6	MSO		L	1	% v/v	A						
6	AMS		WG	17	lb/100 gal	A						
6	Engenia	5.5	SL	12.8	fl oz/a	B						
6	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
7	Zidua PRO	4.09	L	4.5	fl oz/a	A	90	79	100	0	92	85
7	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
7	MSO		L	1	% v/v	A						
7	AMS		WG	17	lb/100 gal	A						
8	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	90	100	0	100	100
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
8	MSO		L	1	% v/v	A						
8	AMS		WG	17	lb/100 gal	A						
8	Engenia	5.5	SL	12.8	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
9	Zidua PRO	4.09	L	6	fl oz/a	A	100	78	100	0	94	90
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
9	MSO		L	1	% v/v	A						
9	AMS		WG	17	lb/100 gal	A						

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Pest Code	AMBEL	TAROF	ERICA	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jul-5-2017	Jul-5-2017	Jul-5-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a		A	100	95	100	0	100	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
10	MSO		L	1 % v/v		A						
10	AMS		WG	17 lb/100 gal		A						
10	Engenia	5.5	SL	12.8 fl oz/a		B						
10	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
11	Fierce	76	WG	3 oz/a		A	85	84	84	0	100	71
11	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
11	AMS		WG	17 lb/100 gal		A						
12	Fierce	76	WG	3 oz/a		A	100	95	93	0	100	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
12	AMS		WG	17 lb/100 gal		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							11.1	10.3	10.9	1.0	9.3	12.1
Standard Deviation							7.7	7.1	7.6	0.7	6.5	8.4
CV							8.74	9.79	8.54	230.94	7.33	10.08

* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,3,6,8,26 because error mean square = 0.

Residual weed control programs with Engenia POST in RR2 Xtend soybean

Trial ID: NTS03-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	TAROF	ERICA	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jul-19-2017	Jul-19-2017	Jul-19-2017	Sep-1-2017	Sep-1-2017	Sep-1-2017
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	72 DA-B	72 DA-B	72 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	Untreated						0	0	0	0	0	0
2	Engenia	5.5	SL	12.8	fl oz/a	B	100	92	100	0	99	100
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
3	Verdict	5.57	L	5	fl oz/a	A	93	68	94	0	89	68
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
3	MSO		L	1	% v/v	A						
3	AMS		WG	17	lb/100 gal	A						
4	Verdict	5.57	L	5	fl oz/a	A	100	95	100	0	94	98
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
4	MSO		L	1	% v/v	A						
4	AMS		WG	17	lb/100 gal	A						
4	Engenia	5.5	SL	12.8	fl oz/a	B						
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
5	Verdict	5.57	L	5	fl oz/a	A	94	58	100	0	94	75
5	Outlook	6	L	5	fl oz/a	A						
5	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
5	MSO		L	1	% v/v	A						
5	AMS		WG	17	lb/100 gal	A						
6	Verdict	5.57	L	5	fl oz/a	A	100	99	100	0	96	94
6	Outlook	6	L	5	fl oz/a	A						
6	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
6	MSO		L	1	% v/v	A						
6	AMS		WG	17	lb/100 gal	A						
6	Engenia	5.5	SL	12.8	fl oz/a	B						
6	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
7	Zidua PRO	4.09	L	4.5	fl oz/a	A	89	80	100	0	88	74
7	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
7	MSO		L	1	% v/v	A						
7	AMS		WG	17	lb/100 gal	A						
8	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	99	100	0	100	100
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
8	MSO		L	1	% v/v	A						
8	AMS		WG	17	lb/100 gal	A						
8	Engenia	5.5	SL	12.8	fl oz/a	B						
8	Roundup PowerMax	4.5	SL	32	fl oz/a	B						
9	Zidua PRO	4.09	L	6	fl oz/a	A	100	80	100	0	91	85
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A						
9	MSO		L	1	% v/v	A						
9	AMS		WG	17	lb/100 gal	A						

* Adjusted means

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Residual weed control programs with Engenia POST in RR2 Xtend soybean

Trial ID: NTS03-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	TAROF	ERICA	GLXMA	ANGR	CHEAL
Crop Code						
Rating Date	Jul-19-2017	Jul-19-2017	Jul-19-2017	Sep-1-2017	Sep-1-2017	Sep-1-2017
Rating Type	control	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	72 DA-B	72 DA-B	72 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a		A	100	98	100	0	100	100
10	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
10	MSO		L	1 % v/v		A						
10	AMS		WG	17 lb/100 gal		A						
10	Engenia	5.5	SL	12.8 fl oz/a		B						
10	Roundup PowerMax	4.5	SL	32 fl oz/a		B						
11	Fierce	76	WG	3 oz/a		A	90	84	80	0	98	65
11	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
11	AMS		WG	17 lb/100 gal		A						
12	Fierce	76	WG	3 oz/a		A	100	100	100	0	99	100
12	Roundup PowerMax	4.5	SL	32 fl oz/a		A						
12	AMS		WG	17 lb/100 gal		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							12.6	13.2	13.0	.	11.6	10.6
Standard Deviation							8.8	9.2	9.1	0.0	8.0	7.3
CV							9.89	11.6	10.13	0.0	9.23	9.19

* Adjusted means

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Residual weed control programs with Engenia POST in RR2 Xtend soybean

Trial ID: NTS03-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	TAROF	ERICA	GLXMA	GLXMA
Crop Code					
Rating Date	Sep-1-2017	Sep-1-2017	Sep-1-2017	Oct-17-2017	Oct-17-2017
Rating Type	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	72 DA-B	72 DA-B	72 DA-B	118 DA-B	at 13% M
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	*	*	*	*	*
1	Untreated						0	0	0	21.5	20.5
2	Engenia	5.5	SL	12.8	fl oz/a	B	100	90	100	21.9	55.5
2	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
3	Verdict	5.57	L	5	fl oz/a	A	91	68	94	22.3	52.5
3	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
3	MSO		L	1	% v/v	A					
3	AMS		WG	17	lb/100 gal	A					
4	Verdict	5.57	L	5	fl oz/a	A	100	93	100	22.2	59.8
4	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
4	MSO		L	1	% v/v	A					
4	AMS		WG	17	lb/100 gal	A					
4	Engenia	5.5	SL	12.8	fl oz/a	B					
4	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
5	Verdict	5.57	L	5	fl oz/a	A	94	71	100	22.4	62.5
5	Outlook	6	L	5	fl oz/a	A					
5	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
5	MSO		L	1	% v/v	A					
5	AMS		WG	17	lb/100 gal	A					
6	Verdict	5.57	L	5	fl oz/a	A	100	99	100	22.1	55.7
6	Outlook	6	L	5	fl oz/a	A					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
6	MSO		L	1	% v/v	A					
6	AMS		WG	17	lb/100 gal	A					
6	Engenia	5.5	SL	12.8	fl oz/a	B					
6	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
7	Zidua PRO	4.09	L	4.5	fl oz/a	A	79	73	100	22.5	56.2
7	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
7	MSO		L	1	% v/v	A					
7	AMS		WG	17	lb/100 gal	A					
8	Zidua PRO	4.09	L	4.5	fl oz/a	A	100	99	100	23.2	69.0
8	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
8	MSO		L	1	% v/v	A					
8	AMS		WG	17	lb/100 gal	A					
8	Engenia	5.5	SL	12.8	fl oz/a	B					
8	Roundup PowerMax	4.5	SL	32	fl oz/a	B					
9	Zidua PRO	4.09	L	6	fl oz/a	A	100	74	100	22.6	56.8
9	Roundup PowerMax	4.5	SL	32	fl oz/a	A					
9	MSO		L	1	% v/v	A					
9	AMS		WG	17	lb/100 gal	A					

* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,3,6,8,26 because error mean square = 0.

Residual weed control programs with Engenia POST in RR2 Xtend soybean

Trial ID: NTS03-17

Location: Campus T-17

Investigator: Christy Sprague

Study Director: Sprague, Powell, Stiles

Pest Code	AMBEL	TAROF	ERICA	GLXMA	GLXMA
Crop Code					
Rating Date	Sep-1-2017	Sep-1-2017	Sep-1-2017	Oct-17-2017	Oct-17-2017
Rating Type	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/acre
Trt-Eval Interval	72 DA-B	72 DA-B	72 DA-B	118 DA-B	at 13% M
Number of Decimals	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Appl Code	*	*	*	*	*
10	Zidua PRO	4.09	L	6 fl oz/a	A	100	100	100	22.3	59.7
10	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
10	MSO		L	1 % v/v	A					
10	AMS		WG	17 lb/100 gal	A					
10	Engenia	5.5	SL	12.8 fl oz/a	B					
10	Roundup PowerMax	4.5	SL	32 fl oz/a	B					
11	Fierce	76	WG	3 oz/a	A	84	85	71	22.5	63.1
11	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
11	AMS		WG	17 lb/100 gal	A					
12	Fierce	76	WG	3 oz/a	A	100	99	100	21.8	58.5
12	Roundup PowerMax	4.5	SL	32 fl oz/a	A					
12	AMS		WG	17 lb/100 gal	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					13.9	13.4	12.0	0.93	11.72
	Standard Deviation					9.7	9.3	8.4	0.64	8.14
	CV					11.06	11.78	9.42	2.89	14.59

* Adjusted means

Could not calculate LSD (% mean diff) for columns 2,3,6,8,26 because error mean square = 0.