

Engenia Herbicide: A Systems Approach to Weed Control in Soybean.

Trial ID: 14-26C-E170 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 7-11-14 Completion Date: 8-29-14	
Trial Location	
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA

Objectives: Evaluate efficacy of Engenia in sequential programs compared to early postemergence plus residual programs.

Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop Description	
Crop 1: GLXMA Glycine max Variety: Dicamba-Tolerant Description: DT	Soybean BBCH Scale: BSOY Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN
Planting Date: 7-11-14 Planting Method: SEEDED	

Pest Description	
Pest 1 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common	
Pest 2 Type: W Code: ABUTH <i>Abutilon theophrasti</i> Medik. Common Name: velvetleaf	
Pest 3 Type: W Code: IPOHE <i>Ipomoea hederacea</i> (L.) Jacq. Common Name: morningglory, ivyleaf	
Pest 4 Type: W Code: XANST <i>Xanthium strumarium</i> L. Common Name: cocklebur, common	
Pest 5 Type: W Code: PANDI <i>Panicum dichotomiflorum</i> Michx. Common Name: panicum, fall	
Pest 6 Type: W Code: CHEAL <i>Chenopodium album</i> L. Common Name: lambsquarters, common	
Pest 7 Type: W Code: CYPES <i>Cyperus esculentus</i> L. Common Name: nutsedge, yellow	

Site and Design							
Treated Plot Width: 10FT Treated Plot Length: 50FT	Total Plot Width: 20FT Total Plot Length: 50FT						
Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)							
Replications: 1 Untreated Arrangement: NONE control is other than an untreated							
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2013</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	GLXMA	2013
No.	Previous Crop	Year					
1.	GLXMA	2013					

Maintenance					
<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A</td> </tr> </tbody> </table>		No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A				

Soil Description										
% OM: 2.6 Texture: SIL silt loam pH: 6.4 Soil Name: Winfield CEC: 7										
Additional Measured Elements										
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>70</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>346</td> <td>lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	70	lb/A	K	346	lb/A
Element	Quantity	Unit								
P1	70	lb/A								
K	346	lb/A								

Moisture and Weather Conditions	
Overall Moisture Conditions: NORMAL Closest Weather Station: ICN - Belleville IL Distance, Unit: 0.5 MI	

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
2.	6-3-14					7	DAY	59	90	F
3.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
4.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
5.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
6.	6-10-14					7	DAY	51	90	F
7.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
8.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
9.	6-17-14					7	DAY	67	92	F
10.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
11.	6-24-14					7	DAY	65	91	F
12.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
13.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
14.	7-1-14					7	DAY	55	90	F
15.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
16.	7-8-14					7	DAY	59	89	F
17.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
18.	7-15-14					7	DAY	54	85	F
19.	7-22-14					7	DAY	57	98	F
20.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
21.	7-29-14					7	DAY	52	89	F
22.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
23.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
24.	8-5-14					7	DAY	66	88	F
25.	8-12-14					7	DAY	57	84	F
26.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
27.	8-19-14					7	DAY	67	95	F
28.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
29.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
30.	9-1-14	1.69	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C
Application Date:	7-11-14	7-31-14	8-6-14
Appl. Start Time:	10:00	9:30	16:30
Appl. Stop Time:	10:30	10:00	17:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	V2	V4
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	RJW	RFK	LXF
Air Temperature, Unit:	83 F	76 F	86 F
% Relative Humidity:	61	95	55
Wind Velocity, Unit:	3 MPH	2 MPH	1 MPH
Wind Direction:	S	SE	NE
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	75 F	74 F	76 F
Soil Moisture:	NORMAL	BELNOR	NORMAL
% Cloud Cover:	0	0	0
Next Moisture Occurred On:	7-13-14	8-1-14	8-7-14
Time to Next Moisture, Unit:	2 DAY	1 DAY	1 DAY

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V1	V3
Stage Minimum, Percent:		V1	V2
Stage Maximum, Percent:		V1	V3
Height, Unit:		4 IN	8 IN
Height Minimum, Maximum:		3 4	6 8

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	6	10
Stage Minimum, Percent:		6	6
Stage Maximum, Percent:		8	10
Height, Unit:		3 IN	6 IN
Height Minimum, Maximum:		2 4	6 8
Density, Unit:		3 FT2	0.0001 FT2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	8	5
Stage Minimum, Percent:		6	3
Stage Maximum, Percent:		8	7
Height, Unit:		5 IN	7 IN
Height Minimum, Maximum:		2 6	6 8
Density, Unit:		2 FT2	0.1 FT2
Pest 3 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	NA	24
Stage Minimum, Percent:			18
Stage Maximum, Percent:			30
Height, Unit:			6 IN
Height Minimum, Maximum:			4 6
Density, Unit:			0.001 FT2
Pest 4 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	NA	6	14
Stage Minimum, Percent:		6	8
Stage Maximum, Percent:		8	16
Height, Unit:		4 IN	10 IN
Height Minimum, Maximum:		3 5	6 14
Density, Unit:		2 FT2	1 FT2
Pest 5 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	NA	6	8
Stage Minimum, Percent:		5	6
Stage Maximum, Percent:		6	12
Height, Unit:		5 IN	6 IN
Height Minimum, Maximum:		2 5	4 10
Density, Unit:		2 FT2	2 FT2
Pest 6 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:	NA	8	8
Stage Minimum, Percent:		6	6
Stage Maximum, Percent:		8	12
Height, Unit:		2 IN	6 IN
Height Minimum, Maximum:		1 3	6 8
Density, Unit:		0.1 FT2	0.0001 FT2
Pest 7 Code, Type, Scale:	CYPES W	CYPES W	CYPES W
Stage Majority, Percent:	NA	5	6
Stage Minimum, Percent:		5	6
Stage Maximum, Percent:		6	7
Height, Unit:		6 IN	7 IN
Height Minimum, Maximum:		4 8	5 9
Density, Unit:		0.1 FT2	0.1 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	TTI	TTI	TTI
Nozzle Size:	11002	11002	11002
Boom Length, Unit:	10 FT	10 FT	10 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	GLXMA 8-6-14 Injury Percent 26 DA-A	GLXMA 8-14-14 Injury Percent 8 DA-C	GLXMA 8-27-14 Injury Percent 21 DA-C	AMATA 8-6-14 Control Percent 26 DA-A	AMATA 8-14-14 Control Percent 8 DA-C	AMATA 8-27-14 Control Percent 21 DA-C
Trt-Eval Interval						0 DA-C	14 DA-B	27 DA-B	0 DA-C	14 DA-B	27 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	ROUNDUP POWERMAX PREFERENCE	4.5 SL	100 EC	1.13 lb ae/a 0.25 % v/v	32 fl oz/a 0.25 % v/v		V2 V2	B B	.	0	0
2	WARRANT ROUNDUP POWERMAX ENGENIA PREFERENCE	3 CS 4.5 SL 5 SL 100 SL		1.13 lb ai/a 1.13 lb ae/a 0.5 lb ae/a 0.25 % v/v	48 fl oz/a 32 fl oz/a 12.8 fl oz/a 0.25 % v/v		V2 V2 V2 V2	B B B B	.	0	0
3	VALOR SX ROUNDUP POWERMAX PREFERENCE	51 WG 4.5 SL 100 SL		0.096 lb ai/a 1.13 lb ae/a 0.25 % v/v	3 oz/a 32 fl oz/a 0.25 % v/v		PRE V4 V4	A C C	0	0	0
4	OPTILL PRO (CO-PACK) OPTILL OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG 6 EC 5 SL 4.5 SL 100 SL		0.085 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2 oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE PRE V4 V4 V4	A A A C C C	0	0	0
5	OPTILL PRO (CO-PACK) OPTILL OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG 6 EC 6 EC 5 SL 4.5 SL 100 SL		0.085 lb ai/a 0.47 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2 oz/a 10 fl oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE PRE V4 V4 V4 V4	A A A C C C C	0	0	0
6	ZIDUA SHARPEN ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG 2.85 SC 5 SL 4.5 SL 100 SL		0.133 lb ai/a 0.0223 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2.5 oz/a 1 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE V4 V4 V4	A A C C C	0	0	0
7	ZIDUA SHARPEN OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG 2.85 SC 6 EC 5 SL 4.5 SL 100 SL		0.133 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2.5 oz/a 1 fl oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE V4 V4 V4 V4	A A C C C C	0	0	0
8	AUTHORITY FIRST DF ROUNDUP POWERMAX N-PAK AMS	70 WG 4.5 SL 100 SL		0.28 lb ai/a 1.13 lb ae/a 2.5 % v/v	6.4 oz/a 32 fl oz/a 2.5 % v/v		PRE V4 V4	A C C	0	0	0
LSD (P=.05)									.	.	.
Standard Deviation									.	.	.
CV									.	.	.

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing							ABUTH	ABUTH	ABUTH	IPOHE	IPOHE	IPOHE
							8-6-14 Control Percen 26 DA-A	8-14-14 Control Percent 8 DA-C	8-27-14 Control Percen 21 DA-C	8-6-14 Control Percent 26 DA-A	8-14-14 Control Percent 8 DA-C	8-27-14 Control Percen 21 DA-C
Trt-Eval Interval							0 DA-C	14 DA-B	27 DA-B	0 DA-C	14 DA-B	27 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code					
1	ROUNDUP POWERMAX PREFERENCE	4 5 SL	100 EC	1.13 lb ae/a 0.25 % v/v	32 fl oz/a 0.25 % v/v	V2 V2	B B	.	90	99	.	99
2	WARRANT ROUNDUP POWERMAX ENGENIA PREFERENCE	3 CS 4 5 SL 5 SL 100 SL		1.13 lb ai/a 1.13 lb ae/a 0.5 lb ae/a 0.25 % v/v	48 fl oz/a 32 fl oz/a 12.8 fl oz/a 0.25 % v/v	V2 V2 V2 V2	B B B B	.	90	99	.	99
3	VALOR SX ROUNDUP POWERMAX PREFERENCE	51 WG 4 5 SL 100 SL		0.096 lb ai/a 1.13 lb ae/a 0.25 % v/v	3 oz/a 32 fl oz/a 0.25 % v/v	PRE V4 V4	A C C	50	50	99	95	95
4	OPTILL PRO (CO-PACK) OPTILL OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG 6 EC 5 SL 4 5 SL 100 SL		0.085 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2 oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v	PRE PRE PRE V4 V4	A A A C C	60	60	90	99	99
5	OPTILL PRO (CO-PACK) OPTILL OUTLOOK OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG 6 EC 6 EC 5 SL 4 5 SL 100 SL		0.085 lb ai/a 0.47 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2 oz/a 10 fl oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v	PRE PRE PRE V4 V4 V4	A A A C C C	90	90	95	50	50
6	ZIDUA SHARPEN ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG 2 85 SC 5 SL 4 5 SL 100 SL		0.133 lb ai/a 0.0223 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2.5 oz/a 1 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v	PRE PRE V4 V4 V4	A A C C C	80	80	95	50	50
7	ZIDUA SHARPEN OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG 2 85 SC 6 EC 5 SL 4 5 SL 100 SL		0.133 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v	2.5 oz/a 1 fl oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v	PRE PRE V4 V4 V4 V4	A A C C C C	90	90	95	99	99
8	AUTHORITY FIRST DF ROUNDUP POWERMAX N-PAK AMS	70 WG 4 5 SL 100 SL		0.28 lb ai/a 1.13 lb ae/a 2.5 % v/v	6.4 oz/a 32 fl oz/a 2.5 % v/v	PRE V4 V4	A C C	85	85	99	97	97
LSD (P=.05)								.	.	.	.	.
Standard Deviation								.	.	.	.	.
CV								.	.	.	.	.

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing							XANST	XANST	XANST	PANDI	PANDI	PAND
Trt-Eval Interval							8-6-14 Control Percen 26 DA-A	8-14-14 Control Percen 8 DA-C	8-27-14 Control Percent 21 DA-C	8-6-14 Control Percent 26 DA-A	8-14-14 Control Percent 8 DA-C	8-27-14 Control Percen 21 DA-C
Trt Treatment No. Name							0 DA-C	14 DA-B	27 DA-B	0 DA-C	14 DA-B	27 DA-B
Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Stage	Appl Code					
1 ROUNDUP POWERMAX PREFERENCE	4 5 SL 100 EC	1.13 lb ae/a 0.25 % v/v		32 fl oz/a 0.25 % v/v		V2 V2	B B	.	99	99	.	85 85
2 WARRANT ROUNDUP POWERMAX ENGENIA PREFERENCE	3 CS 4 5 SL 5 SL 100 SL	1.13 lb ai/a 1.13 lb ae/a 0.5 lb ae/a 0.25 % v/v		48 fl oz/a 32 fl oz/a 12.8 fl oz/a 0.25 % v/v		V2 V2 V2 V2	B B B B	.	99	99	.	90 90
3 VALOR SX ROUNDUP POWERMAX PREFERENCE	51 WG 4 5 SL 100 SL	0.096 lb ai/a 1.13 lb ae/a 0.25 % v/v		3 oz/a 32 fl oz/a 0.25 % v/v		PRE V4 V4	A C C	25	25	99	20	20 90
4 OPTILL PRO (CO-PACK) OPTILL OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG 6 EC 5 SL 4 5 SL 100 SL	0.085 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v		2 oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE V4 V4 V4	A A C C C	65	65	99	95	95 95
5 OPTILL PRO (CO-PACK) OPTILL OUTLOOK OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG 6 EC 6 EC 5 SL 4 5 SL 100 SL	0.085 lb ai/a 0.47 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v		2 oz/a 10 fl oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE V4 V4 V4 V4	A A C C C C	75	75	99	80	80 99
6 ZIDUA SHARPEN ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG 2 85 SC 5 SL 4 5 SL 100 SL	0.133 lb ai/a 0.0223 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v		2.5 oz/a 1 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE V4 V4 V4	A A C C C	95	95	99	90	90 95
7 ZIDUA SHARPEN OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG 2 85 SC 6 EC 5 SL 4 5 SL 100 SL	0.133 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 0.5 lb ae/a 1.13 lb ae/a 0.25 % v/v		2.5 oz/a 1 fl oz/a 10 fl oz/a 12.8 fl oz/a 32 fl oz/a 0.25 % v/v		PRE PRE V4 V4 V4 V4	A A C C C C	95	95	85	80	80 99
8 AUTHORITY FIRST DF ROUNDUP POWERMAX N-PAK AMS	70 WG 4 5 SL 100 SL	0.28 lb ai/a 1.13 lb ae/a 2.5 % v/v		6.4 oz/a 32 fl oz/a 2.5 % v/v		PRE V4 V4	A C C	95	95	99	10	10 50
LSD (P=.05) Standard Deviation CV										.	.	.

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							CHEAL	CHEAL	CHEAL	AMBTR	AMBTR	AMBTR
							8-6-14 Control Percen 26 DA-A 0 DA-C	8-14-14 Control Percen 8 DA-C 14 DA-B	8-27-14 Control Percen 21 DA-C 27 DA-B	8-6-14 Control Percen 26 DA-A 0 DA-C	8-14-14 Control Percen 8 DA-C 14 DA-B	8-27-14 Control Percen 21 DA-C 27 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code	
1	ROUNDUP POWERMAX PREFERENCE	4 5 SL	100 EC	1.13 lb ae/a	32 fl oz/a	0.25 % v/v	0.25 % v/v		V2	B		99
2	WARRANT ROUNDUP POWERMAX ENGENIA PREFERENCE	3 CS	4 5 SL	1.13 lb ae/a	48 fl oz/a	0.25 % v/v	0.25 % v/v		V2	B		99
3	VALOR SX ROUNDUP POWERMAX PREFERENCE	51 WG	4 5 SL	0.096 lb ai/a	3 oz/a	0.25 % v/v	0.25 % v/v		PRE V4	A C		98
4	OPTILL PRO (CO-PACK) OPTILL OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG	6 EC	0.085 lb ai/a	2 oz/a	0.47 lb ai/a	0.5 lb ae/a	0.25 % v/v	PRE V4	A A C C		99
5	OPTILL PRO (CO-PACK) OPTILL OUTLOOK OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG	6 EC	0.085 lb ai/a	2 oz/a	0.47 lb ai/a	0.5 lb ae/a	0.25 % v/v	PRE V4	A A C C		99
6	ZIDUA SHARPEN ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG	2 85 SC	0.133 lb ai/a	2.5 oz/a	0.0223 lb ai/a	0.5 lb ae/a	0.25 % v/v	PRE V4	A A C C		95
7	ZIDUA SHARPEN OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG	2 85 SC	0.133 lb ai/a	2.5 oz/a	0.0223 lb ai/a	0.5 lb ae/a	0.25 % v/v	PRE V4	A A C C		99
8	AUTHORITY FIRST DF ROUNDUP POWERMAX N-PAK AMS	70 WG	4 5 SL	0.28 lb ai/a	6.4 oz/a	1.13 lb ae/a	2.5 % v/v		PRE V4	A C C		99
LSD (P=.05)												
Standard Deviation												
CV												

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								CYPES	CYPES	CYPES
								8-6-14 Control Percent 26 DA-A 0 DA-C	8-14-14 Control Percent 8 DA-C 14 DA-B	8-27-14 Control Percent 21 DA-C 27 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
1	ROUNDUP POWERMAX PREFERENCE	4.5 SL	100 EC	1.13 lb ae/a	32 fl oz/a	0.25 % v/v	0.25 % v/v	V2	B	90
2	WARRANT ROUNDUP POWERMAX ENGENIA PREFERENCE	3 CS	4.5 SL	1.13 lb ae/a	48 fl oz/a	0.25 % v/v	0.25 % v/v	V2	B	90
3	VALOR SX ROUNDUP POWERMAX PREFERENCE	51 WG	4.5 SL	0.096 lb ai/a	3 oz/a	0.25 % v/v	0.25 % v/v	PRE	A	99
4	OPTILL PRO (CO-PACK) OPTILL OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG	6 EC	0.085 lb ai/a	2 oz/a	0.25 % v/v	0.25 % v/v	PRE	A	99
5	OPTILL PRO (CO-PACK) OPTILL OUTLOOK OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	68 WG	6 EC	0.085 lb ai/a	2 oz/a	0.25 % v/v	0.25 % v/v	PRE	A	99
6	ZIDUA SHARPEN ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG	2.85 SC	0.133 lb ai/a	2.5 oz/a	0.25 % v/v	0.25 % v/v	PRE	A	99
7	ZIDUA SHARPEN OUTLOOK ENGENIA ROUNDUP POWERMAX PREFERENCE	85 WG	2.85 SC	0.133 lb ai/a	2.5 oz/a	0.25 % v/v	0.25 % v/v	PRE	A	99
8	AUTHORITY FIRST DF ROUNDUP POWERMAX N-PAK AMS	70 WG	4.5 SL	0.28 lb ai/a	6.4 oz/a	2.5 % v/v	2.5 % v/v	PRE	A	50
LSD (P=.05)								.	.	.
Standard Deviation								.	.	.
CV								.	.	.

Engenia Herbicide: A Systems Approach to Weed Control in Soybean.

Trial ID: 14-26C-E170 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: BASF (MKD-H-2014-US-D03-A-01).
2. Ratings: CI 0 DA-C and 14, 28, 42, and 56 DA-B. WC 0 DA-C and 14, 28, 42, and 56 DA-B.
3. Crop destruct (no pods).
4. Photos.
5. Trial was rated and crop was destroyed on 8-27-14 at 27 DA-B, no further ratings were possible.
6. Not harvested.