

Residual Tank-Mix Partners in Soybean.

Trial ID: 14-DSO-ISA-ResTM Location: De Soto, IL Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 5-23-14 Completion Date: 7-25-14	Trial Location City: De Soto Country: USA State/Prov.: Illinois IL Postal Code: 62924
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Objectives: Evaluate glyphosate-resistant waterhemp control with residual herbicide tank-mixtures.
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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 1: GLXMA Glycine max Soybean Variety: AG 4433 BBCH Scale: BSOY Description: RR2Y Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Crop Description Planting Date: 5-23-14 Planting Method: SEEDED
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Pest 1 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common Description: glyphosate-resistant waterhemp	Pest Description
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Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ZEAMX</td> <td>2013</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	ZEAMX	2013
No.	Previous Crop	Year					
1.	ZEAMX	2013					

<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 0 LB/A, K2O 0 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A				

% Sand: 14 % OM: 2.12 Texture: SIL silt loam % Silt: 67 pH: 6.9 Soil Name: Okaw % Clay: 19 CEC: 12.7	Soil Description									
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>112</td> <td>LB/A</td> </tr> <tr> <td>K</td> <td>386</td> <td>LB/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	112	LB/A	K	386	LB/A
Element	Quantity	Unit								
P1	112	LB/A								
K	386	LB/A								
Additional Measured Elements										

Overall Moisture Conditions: NORMAL Closest Weather Station: SOUTHERN IL AIRPORT (93810)	Moisture and Weather Conditions Distance, Unit: 1.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-15-14					7	DAY	31	77	F
2.	4-22-14					7	DAY	41	77	F
3.	4-24-14	1.13	IN	RAIN	rain	2	DAY			
4.	4-27-14	2.02	IN	RAIN	rain	2	DAY			
5.	4-29-14					7	DAY	39	84	F
6.	5-6-14					7	DAY	54	83	F
7.	5-8-14	1.25	IN	RAIN	rain	2	DAY			
8.	5-11-14	0.34	IN	RAIN	rain	1	DAY			
9.	5-13-14	2.53	IN	RAIN	rain	3	DAY			
10.	5-13-14					7	DAY	39	80	F
11.	5-20-14					7	DAY	46	85	F
12.	5-22-14	0.06	IN	RAIN	rain	1	DAY			
13.	5-25-14	0.07	IN	RAIN	rain	2	DAY			
14.	5-27-14					7	DAY	62	88	F
15.	5-30-14	0.09	IN	RAIN	rain	1	DAY			
16.	6-1-14	0.66	IN	RAIN	rain	2	DAY			
17.	6-3-14					7	DAY	64	88	F
18.	6-4-14	0.91	IN	RAIN	rain	1	DAY			
19.	6-7-14	0.32	IN	RAIN	rain	1	DAY			
20.	6-9-14	0.71	IN	RAIN	rain	2	DAY			
21.	6-10-14					7	DAY	51	91	F
22.	6-12-14	0.06	IN	RAIN	rain	1	DAY			
23.	6-17-14					7	DAY	69	93	F
24.	6-24-14	1.69	IN	RAIN	rain	1	DAY			
25.	6-24-14					7	DAY	67	92	F
26.	6-29-14	0.08	IN	RAIN	rain	1	DAY			
27.	7-1-14	0.81	IN	RAIN	rain	1	DAY			
28.	7-1-14					7	DAY	55	90	F
29.	7-8-14	0.15	IN	RAIN	rain	1	DAY			
30.	7-13-14	0.71	IN	RAIN	rain	2	DAY			
31.	7-15-14					7	DAY	54	85	F
32.	7-22-14					7	DAY	56	91	F
33.	7-23-14	0.16	IN	RAIN	rain	1	DAY			
34.	7-29-14					7	DAY	55	87	F
35.	8-5-14	0.13	IN	RAIN	rain	1	DAY			
36.	8-5-14					7	DAY	63	89	F
37.	8-7-14	1.95	IN	RAIN	rain	3	DAY			
38.	8-11-14	0.19	IN	RAIN	rain	1	DAY			

Application Description

	A
Application Date:	5-24-14
Appl. Start Time:	12:00
Appl. Stop Time:	13:30
Application Method:	Spray
Application Timing:	0-7DBP
Application Placement:	BROFOL
Applied By:	LXF
Air Temperature, Unit:	91 F
% Relative Humidity:	38
Wind Velocity, Unit:	2 MPH
Wind Direction:	W
Dew Presence (Y/N):	N
Soil Temperature, Unit:	80 F
Soil Moisture:	NORMAL
% Cloud Cover:	60
Next Moisture Occurred On:	5-25-14
Time to Next Moisture, Unit:	30 HR

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA
Stage Scale Used:	DESC
Stage Majority, Percent:	NA

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMATA W
Stage Majority, Percent:	NA

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	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	6.67 FT
Spray Volume, Unit:	15 GPA

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Pest Code Crop Code Rating Date Rating Type							GLXMA 6-13-14 Plants	GLXMA 6-13-14 Injury	GLXMA 6-13-14 Necrosis	GLXMA 6-13-14 Stunt	GLXMA 7-4-14 Injury	GLXMA 7-4-14 Necrosis	GLXMA 7-4-14 Stun	
Rating Unit Rating Timing Trt-Eval Interval							000/A 3 WAP 20 DA-A	Percent 3 WAP 20 DA-A	Percen 3 WAP 20 DA-A	Percent 3 WAP 20 DA-A	Percent 6 WAP 41 DA-A	Percent 6 WAP 41 DA-A	Percen 6 WAP 41 DA-A	
Trt	Treatment No. Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a	0-7DBP A			108.8 a	3 fgh	0 a	2 efg	0 a	0 a
2	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a	0-7DBP A			132.6 a	1 h	0 a	0 g	0 a	0 a
3	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a	0-7DBP A			115.0 a	2 gh	0 a	0 g	0 a	0 a
4	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a	0-7DBP A			120.3 a	3 fgh	1 a	1 fg	0 a	0 a
5	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.125 lb ai/a 1.19 lb ai/a	4 fl oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			111.4 a	1 h	0 a	0 g	0 a	0 a
6	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.125 lb ai/a 1.7 lb ai/a	4 fl oz/a 2.1 pt/a	0-7DBP A 0-7DBP A			115.8 a	5 d-h	0 a	3 d-g	0 a	0 a
7	SPARTAN SC PREFIX	4 SC 5.29 EC		0.125 lb ai/a 1.65 lb ai/a	4 fl oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			121.1 a	4 e-h	0 a	3 d-g	0 a	0 a
8	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.125 lb ai/a 0.0223 lb ai/a	4 fl oz/a 1.0 fl oz/a	0-7DBP A 0-7DBP A			117.6 a	6 d-h	0 a	6 c-f	1 a	0 a
9	SPARTAN SC KIH-485	4 SC 85 WG		0.125 lb ai/a 0.106 lb ai/a	4 fl oz/a 2 oz/a	0-7DBP A 0-7DBP A			115.0 a	3 fgh	0 a	2 efg	0 a	0 a
10	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.25 lb ai/a 1.19 lb ai/a	8 fl oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			120.3 a	8 b-f	0 a	7 cde	0 a	0 a
11	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.25 lb ai/a 1.7 lb ai/a	8 fl oz/a 2.1 pt/a	0-7DBP A 0-7DBP A			116.7 a	8 c-f	0 a	8 cde	2 a	0 a
12	SPARTAN SC PREFIX	4 SC 5.29 EC		0.25 lb ai/a 1.65 lb ai/a	8 fl oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			115.8 a	7 d-g	0 a	3 d-g	0 a	0 a
13	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.25 lb ai/a 0.0223 lb ai/a	8 fl oz/a 1 fl oz/a	0-7DBP A 0-7DBP A			114.1 a	17 a	0 a	17 a	0 a	0 a
14	SPARTAN SC KIH-485	4 SC 85 WG		0.25 lb ai/a 0.106 lb ai/a	8 fl oz/a 2 oz/a	0-7DBP A 0-7DBP A			115.8 a	4 e-h	0 a	4 d-g	0 a	0 a
15	VALOR SX PROWL H2O	51 WG 3.8 CS		0.064 lb ai/a 1.19 lb ai/a	2 oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			109.7 a	5 d-h	0 a	2 efg	1 a	0 a
16	VALOR SX BOUNDARY	51 WG 6.5 EC		0.064 lb ai/a 1.7 lb ai/a	2 oz/a 2.1 pt/a	0-7DBP A 0-7DBP A			109.7 a	11 bcd	0 a	6 c-g	1 a	0 a
17	VALOR SX PREFIX	51 WG 5.29 EC		0.064 lb ai/a 1.65 lb ai/a	2 oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			116.7 a	9 b-e	0 a	6 c-f	1 a	0 a
18	VALOR SX SHARPEN	51 WG 2.85 SC		0.064 lb ai/a 0.0223 lb ai/a	2 oz/a 1.0 fl oz/a	0-7DBP A 0-7DBP A			121.1 a	9 b-e	0 a	9 bcd	1 a	0 a
19	VALOR SX KIH-485	51 WG 85 WG		0.064 lb ai/a 0.106 lb ai/a	2 oz/a 2 oz/a	0-7DBP A 0-7DBP A			118.5 a	6 d-h	0 a	3 d-g	0 a	0 a
20	VALOR SX PROWL H2O	51 WG 3.8 CS		0.08 lb ai/a 1.19 lb ai/a	2.5 oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			115.8 a	6 d-h	0 a	4 d-g	1 a	0 a
21	VALOR SX BOUNDARY	51 WG 6.5 EC		0.08 lb ai/a 1.7 lb ai/a	2.5 oz/a 2.1 pt/a	0-7DBP A 0-7DBP A			114.1 a	13 abc	0 a	9 bcd	1 a	0 a
22	VALOR SX PREFIX	51 WG 5.29 EC		0.08 lb ai/a 1.65 lb ai/a	2.5 oz/a 2.5 pt/a	0-7DBP A 0-7DBP A			119.4 a	17 a	1 a	15 ab	0 a	0 a

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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						000/A 3 WAP 20 DA-A	Percent 3 WAP 20 DA-A	Percen 3 WAP 20 DA-A	Percent 3 WAP 20 DA-A	Percent 6 WAP 41 DA-A	Percent 6 WAP 41 DA-A	Percen 6 WAP 41 DA-A
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Stage	Code			
23	VALOR SX SHARPEN	51 WG 2.85 SC	0.08 lb ai/a 0.0223 lb ai/a	2.5 oz/a 1 fl oz/a	0-7DBP A 0-7DBP A							
						117.6 a	7 d-g	0 a	6 c-g	1 a	0 a	0 a
24	VALOR SX KIH-485	51 WG 85 WG	0.08 lb ai/a 0.106 lb ai/a	2.5 oz/a 2 oz/a	0-7DBP A 0-7DBP A							
						120.3 a	13 ab	1 a	11 abc	1 a	0 a	0 a
25	NONTREATED											
						114.1 a	0	0	0	0	0	0
LSD (P=.05)						16.90	5.6	0.9	6.1	2.2	0.0	0.0
Standard Deviation						10.24	3.4	0.5	3.7	1.3	0.0	0.0
CV						8.77	48.46	494.54	69.62	289.52	0.0	0.0
Replicate F						0.055	1.966	1.288	1.714	0.663	0.000	0.000
Replicate Prob(F)						0.9469	0.1516	0.2856	0.1914	0.5204	1.0000	1.0000
Treatment F						0.672	5.400	0.928	4.322	0.655	0.000	0.000
Treatment Prob(F)						0.8529	0.0001	0.5652	0.0001	0.8623	1.0000	1.0000

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Rating Unit Rating Timing Trt-Eval Interval						Percent 9 WAP 62 DA-A	Percent 9 WAP 62 DA-A	Percent 9 WAP 62 DA-A	Percent 3 WAP 20 DA-A	Percent 6 WAP 41 DA-A	Percent 9 WAP 62 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code		
1	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a		0-7DBP A			0 a	0 a
2	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a		0-7DBP A			0 a	0 a
3	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a		0-7DBP A			0 a	0 a
4	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a		0-7DBP A			0 a	0 a
5	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.125 lb ai/a 1.19 lb ai/a	4 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
6	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.125 lb ai/a 1.7 lb ai/a	4 fl oz/a 2.1 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
7	SPARTAN SC PREFIX	4 SC 5.29 EC		0.125 lb ai/a 1.65 lb ai/a	4 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
8	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.125 lb ai/a 0.0223 lb ai/a	4 fl oz/a 1.0 fl oz/a		0-7DBP A 0-7DBP A			1 a	0 a
9	SPARTAN SC KIH-485	4 SC 85 WG		0.125 lb ai/a 0.106 lb ai/a	4 fl oz/a 2 oz/a		0-7DBP A 0-7DBP A			1 a	0 a
10	SPARTAN SC PROWL H2O	4 SC 3.8 CS		0.25 lb ai/a 1.19 lb ai/a	8 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
11	SPARTAN SC BOUNDARY	4 SC 6.5 EC		0.25 lb ai/a 1.7 lb ai/a	8 fl oz/a 2.1 pt/a		0-7DBP A 0-7DBP A			1 a	0 a
12	SPARTAN SC PREFIX	4 SC 5.29 EC		0.25 lb ai/a 1.65 lb ai/a	8 fl oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			1 a	0 a
13	SPARTAN SC SHARPEN	4 SC 2.85 SC		0.25 lb ai/a 0.0223 lb ai/a	8 fl oz/a 1 fl oz/a		0-7DBP A 0-7DBP A			0 a	0 a
14	SPARTAN SC KIH-485	4 SC 85 WG		0.25 lb ai/a 0.106 lb ai/a	8 fl oz/a 2 oz/a		0-7DBP A 0-7DBP A			0 a	0 a
15	VALOR SX PROWL H2O	51 WG 3.8 CS		0.064 lb ai/a 1.19 lb ai/a	2 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
16	VALOR SX BOUNDARY	51 WG 6.5 EC		0.064 lb ai/a 1.7 lb ai/a	2 oz/a 2.1 pt/a		0-7DBP A 0-7DBP A			1 a	0 a
17	VALOR SX PREFIX	51 WG 5.29 EC		0.064 lb ai/a 1.65 lb ai/a	2 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
18	VALOR SX SHARPEN	51 WG 2.85 SC		0.064 lb ai/a 0.0223 lb ai/a	2 oz/a 1.0 fl oz/a		0-7DBP A 0-7DBP A			0 a	0 a
19	VALOR SX KIH-485	51 WG 85 WG		0.064 lb ai/a 0.106 lb ai/a	2 oz/a 2 oz/a		0-7DBP A 0-7DBP A			1 a	0 a
20	VALOR SX PROWL H2O	51 WG 3.8 CS		0.08 lb ai/a 1.19 lb ai/a	2.5 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			1 a	0 a
21	VALOR SX BOUNDARY	51 WG 6.5 EC		0.08 lb ai/a 1.7 lb ai/a	2.5 oz/a 2.1 pt/a		0-7DBP A 0-7DBP A			0 a	0 a
22	VALOR SX PREFIX	51 WG 5.29 EC		0.08 lb ai/a 1.65 lb ai/a	2.5 oz/a 2.5 pt/a		0-7DBP A 0-7DBP A			1 a	0 a

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						Percent 9 WAP 62 DA-A	Percent 9 WAP 62 DA-A	Percent 9 WAP 62 DA-A	Percent 3 WAP 20 DA-A	Percent 6 WAP 41 DA-A	Percent 9 WAP 62 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code		
23	VALOR SX SHARPEN	51 WG 2.85 SC		0.08 lb ai/a 0.0223 lb ai/a	2.5 oz/a 1 fl oz/a	0-7DBP A 0-7DBP A				99 a	90 a-e
24	VALOR SX KIH-485	51 WG 85 WG		0.08 lb ai/a 0.106 lb ai/a	2.5 oz/a 2 oz/a	0-7DBP A 0-7DBP A				99 a	92 a-d
25	NONTREATED									0	0
LSD (P=.05)						1.7	0.0	0.0	3.7	9.4	17.7
Standard Deviation						1.0	0.0	0.0	2.3	5.7	10.7
CV						284.76	0.0	0.0	2.3	6.48	13.51
Replicate F						2.220	0.000	0.000	1.551	11.370	3.047
Replicate Prob(F)						0.1201	1.0000	1.0000	0.2230	0.0001	0.0572
Treatment F						0.710	0.000	0.000	5.741	4.529	6.874
Treatment Prob(F)						0.8105	1.0000	1.0000	0.0001	0.0001	0.0001

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Trial Comments

1. Protocol: ISA.
2. Ratings: CI/WC at 3, 6, and 9 WAP.
Rate components of CI separately: stunting, necrosis, overall injury.
Determine soybean population (count plants in 1 meter of row at 2 locations in each plot) at 3 WAP.
Photos at all evaluation timings.
3. This study is NOT yielded.
4. Blanket burndown early plus at planting as needed to start weed-free.
Blanket trial area with glyphosate after the 9 WAP evaluation if needed.
5. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
GLXMA, Plants, 000/A = Soybean plants, thousands per acre.
6. Following the 0-7DBP application on 5-24-14 rainfall for the next 7 days was only 0.16 inch, then 1.89 inch the next week, and 0.77 inch the third week after application.
7. Stunting in some plots was compounded by standing water.
8. Not harvested.