

Glyphosate Resistant Weed Control Programs in RR2 and LL Soybeans

Trial ID: 15-DSO-RR2vLL Location: De Soto, IL Trial Year: 15
Investigator: Ronald F. Krausz

<p>Trial Status: F one-year/final Initiation Date: 5-9-15 Completion Date: 10-12-15</p>	Trial Location
<p>City: De Soto Country: USA State/Prov.: Illinois IL Postal Code: 62924</p>	

Objectives:
 Compare NK RR2 weed control programs to Liberty Link programs in glyphosate resistant weeds.

<p>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</p>	<p>Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu</p>
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Crop Description	
<p>Crop 1: GLXMA Glycine max Soybean Variety: Pioneer 37T09L BBCH Scale: BSOY Description: LL</p> <p>Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN</p>	<p>Planting Date: 5-29-15 Planting Method: SEEDED</p>
<p>Crop 2: GLXMA Glycine max Soybean Variety: NK S37-Z8 BBCH Scale: BSOY Description: RR2</p> <p>Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN</p>	<p>Planting Date: 5-29-15 Planting Method: SEEDED</p>

Pest Description	
<p>Pest 1 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common Description: glyphosate-resistant waterhemp</p>	
<p>Pest 2 Type: W Code: AMBTR <i>Ambrosia trifida</i> L. Common Name: ragweed, giant</p>	

Site and Design							
<p>Treated Plot Width: 6.67 FT Total Plot Width: 10 FT Treated Plot Length: 25 FT Total Plot Length: 25 FT</p>	<p>Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB� Randomized Complete Block (RCB)</p>						
<p>Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block</p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 45%;">Previous Crop</th> <th style="width: 50%;">Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2014</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	GLXMA	2014
No.	Previous Crop	Year					
1.	GLXMA	2014					

Maintenance	
1.	N 0 LB/A, P2O5 0 LB/A, K2O 0 LB/A

Soil Description		
<p>Description Name: DSO West % Sand: 15.4 % OM: 2.15 Texture: SIL silt loam % Silt: 64.7 pH: 6.9 Soil Name: Okaw % Clay: 19.9 CEC: 12.4</p>		
Additional Measured Elements		
P1	94	lb/A
K	468	lb/A

Glyphosate Resistant Weed Control Programs in RR2 and LL Soybeans

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Moisture and Weather Conditions

Overall Moisture Conditions: ABONOR
Closest Weather Station: SOUTHERN IL AIRPORT (93810) Distance, Unit: 1.5 MI

No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-15					7	DAY	33	76	F
2.	4-2-15	2.72	IN	RAIN	rain	2	DAY			
3.	4-6-15	1.65	IN	RAIN	rain	4	DAY			
4.	4-8-15					7	DAY	43	78	F
5.	4-13-15	0.15	IN	RAIN	rain	4	DAY			
6.	4-15-15					7	DAY	42	79	F
7.	4-19-15	0.89	IN	RAIN	rain	3	DAY			
8.	4-22-15					7	DAY	36	77	F
9.	4-25-15	0.26	IN	RAIN	rain	1	DAY			
10.	4-29-15					7	DAY	36	84	F
11.	5-6-15					7	DAY	49	85	F
12.	5-7-15	1.59	IN	RAIN	rain	5	DAY			
13.	5-13-15					7	DAY	45	83	F
14.	5-14-15	0.49	IN	RAIN	rain	5	DAY			
15.	5-20-15					7	DAY	44	85	F
16.	5-20-15	0.46	IN	RAIN	rain	1	DAY			
17.	5-24-15	0.46	IN	RAIN	rain	1	DAY			
18.	5-25-15	0.05	IN	RAIN	rain	1	DAY			
19.	5-27-15					7	DAY	55	84	F
20.	5-27-15	0.13	IN	RAIN	rain	1	DAY			
21.	5-29-15	0.07	IN	RAIN	rain	1	DAY			
22.	5-30-15	0.62	IN	RAIN	rain	1	DAY			
23.	6-3-15					7	DAY	53	89	F
24.	6-5-15	0.1	IN	RAIN	rain	1	DAY			
25.	6-8-15	1.13	IN	RAIN	rain	1	DAY			
26.	6-10-15					7	DAY	64	91	F
27.	6-13-15	0.39	IN	RAIN	rain	2	DAY			
28.	6-16-15	1.78	IN	RAIN	rain	2	DAY			
29.	6-17-15					7	DAY	71	91	F
30.	6-19-15	3.17	IN	RAIN	rain	1	DAY			
31.	6-24-15					7	DAY	61	91	F
32.	6-25-15	0.18	IN	RAIN	rain	2	DAY			
33.	6-28-15	0.15	IN	RAIN	rain	1	DAY			
34.	7-1-15					7	DAY	65	85	F
35.	7-1-15	0.49	IN	RAIN	rain	1	DAY			
36.	7-2-15	0.86	IN	RAIN	rain	1	DAY			
37.	7-7-15	1.6	IN	RAIN	rain	1	DAY			
38.	7-8-15					7	DAY	64	93	F
39.	7-8-15	0.54	IN	RAIN	rain	1	DAY			
40.	7-9-15	0.27	IN	RAIN	rain	1	DAY			
41.	7-10-15	0.49	IN	RAIN	rain	1	DAY			
42.	7-15-15					7	DAY	68	92	F
43.	7-19-15	0.38	IN	RAIN	rain	1	DAY			
44.	7-20-15	0.25	IN	RAIN	rain	1	DAY			
45.	7-22-15					7	DAY	64	85	F
46.	7-26-15	1.63	IN	RAIN	rain	4	DAY			
47.	7-29-15					7	DAY	66	92	F
48.	8-5-15					7	DAY	63	87	F
49.	8-5-15	0.74	IN	RAIN	rain	2	DAY			
50.	8-9-15	0.62	IN	RAIN	rain	2	DAY			
51.	8-12-15					7	DAY	62	87	F
52.	8-18-15	1.1	IN	RAIN	rain	2	DAY			

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53.	8-19-15					7	DAY	52	82	F
54.	8-22-15	0.12	IN	RAIN	rain	1	DAY			
55.	8-26-15					7	DAY	51	87	F
56.	8-29-15	0.09	IN	RAIN	rain	1	DAY			
57.	9-2-15					7	DAY	66	92	F
58.	9-8-15	1.82	IN	RAIN	rain	2	DAY			
59.	9-9-15					7	DAY	45	83	F
60.	9-11-15	0.17	IN	RAIN	rain	2	DAY			
61.	9-16-15					7	DAY	48	88	F
62.	9-19-15	0.04	IN	RAIN	rain	1	DAY			
63.	9-23-15					7	DAY	50	85	F
64.	9-27-15	0.05	IN	RAIN	rain	2	DAY			
65.	9-29-15	0.95	IN	RAIN	rain	1	DAY			

Application Description

	A	B
Application Date:	5-29-15	6-24-15
Appl. Start Time:	11:45	9:30
Appl. Stop Time:	12:30	10:30
Application Method:	Spray	Spray
Application Timing:	PRE	3-4"W
Application Placement:	BROSOI	BROFOL
Applied By:	EJM	EAE
Air Temperature, Unit:	85 F	87 F
% Relative Humidity:	55	68
Wind Velocity, Unit:	3 MPH	2 MPH
Wind Direction:	S	W
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	72 F	77 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	25	20
Next Moisture Occurred On:	5-29-15	6-25-15
Time to Next Moisture, Unit:	9 HR	37 HR

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V5
Stage Minimum, Percent:		V4
Stage Maximum, Percent:		V5
Height, Unit:		12 IN
Height Minimum, Maximum:		8 12
Crop 2 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V5
Stage Minimum, Percent:		V4
Stage Maximum, Percent:		V5
Height, Unit:		12 IN
Height Minimum, Maximum:		8 12

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	10
Stage Minimum, Percent:		5
Stage Maximum, Percent:		12
Height, Unit:		6 IN
Height Minimum, Maximum:		4 8
Density, Unit:		40 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	20
Stage Minimum, Percent:		15
Stage Maximum, Percent:		25
Height, Unit:		11 IN
Height Minimum, Maximum:		9 13
Density, Unit:		8 FT2

Application Equipment

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

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Trial ID: 15-DSO-RR2vLL Location: De Soto, IL Trial Year: 15
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Pest Code						GLXMA	GLXMA	GLXMA	
Crop Code						10-12-15	10-12-15	10-12-15	
Rating Date						Moisture	Test wt.	Yield	
Rating Type						Percent	lb/bu	bu/A	
Rating Unit									
Rating Timing									
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code		
1	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	13.0 a	
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a	3-4"	W B	54.1 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B	54 a	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v	3-4"	W B		
2	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	12.9 a	
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B	53.1 a	
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B	52 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	3-4"	W B		
3	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A	12.9 a	
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a	3-4"	W B	53.0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B	53 a	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v	3-4"	W B		
4	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A	12.9 a	
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B	53.1 a	
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B	50 ab	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	3-4"	W B		
5	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a	PRE	A	12.7 a	
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B	53.2 a	
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B	50 ab	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
6	NONTREATED								16 de
7	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	13.7 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B	51.9 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B	44 bc	
8	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A	12.9 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B	54.3 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B	39 c	
9	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	12.3 a	
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B	53.7 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B	41 c	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
10	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a	PRE	A	12.4 a	
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B	53.1 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B	41 c	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
11	NONTREATED								16 d

Means followed by same letter do not significantly differ (P=0.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Missing data estimates are included in columns: Average=6,7,9,11,14,17,15,18,16,19

Could not calculate LSD (% mean diff) for columns 17 because error mean square = 0.

Glyphosate Resistant Weed Control Programs in RR2 and LL Soybeans

Trial ID: 15-DSO-RR2vLL Location: De Soto, IL Trial Year: 15
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Pest Code								GLXMA	GLXMA	GLXMA
Crop Code								10-12-15	10-12-15	10-12-15
Rating Date								Moisture	Test wt.	Yield
Rating Type								Percent	lb/bu	bu/A
Rating Unit										
Rating Timing										
Trt-Eval Interval										
Trt. No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
12	NONTREATED									9 e
LSD P=.05								1.87	3.10	7.0
Standard Deviation								1.28	2.11	4.9
CV								9.95	3.97	12.5
Replicate F								1.193	1.391	2.665
Replicate Prob(F)								0.3355	0.2719	0.0651
Treatment F								0.425	0.435	43.366
Treatment Prob(F)								0.8935	0.8873	0.0001

Glyphosate Resistant Weed Control Programs in RR2 and LL Soybeans

Trial ID: 15-DSO-RR2vLL Location: De Soto, IL Trial Year: 15
Investigator: Ronald F. Krausz

Pest Code					GLXMA	GLXMA	GLXMA	AMATA-HR	AMATA-HR
Crop Code					7-1-15	7-8-15	7-22-15	7-8-15	7-22-15
Rating Date					Injury	Injury	Injury	Control	Control
Rating Type					Percent	Percent	Percent	Percent	Percent
Rating Unit									
Rating Timing									
Trt-Eval Interval					7 DA-B	14 DA-B	28 DA-B	14 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code		
1	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	19 ab	10 a
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v	3-4"	W B		
2	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	18 ab	9 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B		
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	3-4"	W B		
3	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A	19 ab	10 a
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v	3-4"	W B		
4	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A	21 a	11 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B		
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	3-4"	W B		
5	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a	PRE	A	18 ab	11 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B		
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
6	NONTREATED							0	0
7	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	1 c	0 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
8	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A	1 c	0 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
9	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A	17 b	7 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B		
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
10	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a	PRE	A	20 ab	8 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B		
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B		
11	NONTREATED							0	0

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Pest Code	GLXMA	GLXMA	GLXMA	AMATA-HR	AMATA-HR
Crop Code	7-1-15	7-8-15	7-22-15	7-8-15	7-22-15
Rating Date	Injury	Injury	Injury	Control	Control
Rating Type	Percent	Percent	Percent	Percent	Percent
Rating Unit					
Rating Timing					
Trt-Eval Interval	7 DA-B	14 DA-B	28 DA-B	14 DA-B	28 DA-B
Trt. Treatment	Form	Form	Rate	Other	Other
No. Name	Conc	Type	Rate	Rate	Rate
12 NONTREATED					
	0	0	0	0	0
LSD P=.05	3.9	5.6	.	0.6	0.5
Standard Deviation	2.7	3.8	0.0	0.4	0.3
CV	17.95	51.88	0.0	0.4	0.35
Replicate F	2.646	0.429	0.000	0.651	0.917
Replicate Prob(F)	0.0743	0.7345	1.0000	0.5910	0.4491
Treatment F	34.509	5.345	0.000	0.798	0.917
Treatment Prob(F)	0.0001	0.0008	1.0000	0.6103	0.5213

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Pest Code						AMBTR	AMBTR
Crop Code							
Rating Date						7-8-15	7-22-15
Rating Type						Control	Control
Rating Unit						Percent	Percent
Rating Timing							
Trt-Eval Interval						14 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate Unit	Growth Stage	Appl Code
1	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v	3-4"	W B
						96 abc	89 a
2	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	3-4"	W B
						93 d	85 ab
3	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v	3-4"	W B
						96 abc	90 a
4	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
	INDUCE	100	SL	0.125 % v/v	0.125 % v/v	3-4"	W B
						96 abc	87 ab
5	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a	PRE	A
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
						93 cd	83 ab
6	NONTREATED						
						0	0
7	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
						95 bcd	68 c
8	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a	PRE	A
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
						95 bcd	68 c
9	BOUNDARY	6.5	EC	1.42 lb ai/a	1.75 pt/a	PRE	A
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
						97 ab	78 b
10	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a	PRE	A
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a	3-4"	W B
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	3-4"	W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	3-4"	W B
						98 a	83 ab
11	NONTREATED						
						0	0

Glyphosate Resistant Weed Control Programs in RR2 and LL Soybeans

Trial ID: 15-DSO-RR2vLL Location: De Soto, IL Trial Year: 15
 Investigator: Ronald F. Krausz

Pest Code										AMBTR	AMBTR
Crop Code											
Rating Date										7-8-15	7-22-15
Rating Type										Control	Control
Rating Unit										Percent	Percent
Rating Timing											
Trt-Eval Interval										14 DA-B	28 DA-B
Trt. Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No. Name	Conc	Type	Rate	Rate	Rate	Unit	Stage	Code			
12 NONTREATED									0	0	
LSD P=.05									2.9	9.0	
Standard Deviation									2.0	6.1	
CV									2.09	7.53	
Replicate F									7.800	5.754	
Replicate Prob(F)									0.0010	0.0046	
Treatment F									3.025	7.260	
Treatment Prob(F)									0.0188	0.0001	

Glyphosate Resistant Weed Control Programs in RR2 and LL Soybeans

Trial ID: 15-DSO-RR2vLL Location: De Soto, IL Trial Year: 15
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: Syngenta (ZSOY94AD-2015US).
2. Ratings: CI 7, 14, 28 DA-B, WC 14, and 28 DA-B.
3. Yield.
4. Blanket burndown (start clean) was Gramoxone (3 pt/A) on 5-15-15 and again 5-29-15.
5. Crop injury at 7 and 14 days after the 3-4"W application was mostly chlorosis.
6. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
7. Rainfall following the PRE application was 0.69 inch over 2 days beginning 9 hours later.
Rainfall following the 3-4"W application was 0.43 inch over 4 days beginning 37 hours later.
8. Missing data for plots 208 and 210 was due to application error at 3-4"W timing.
9. The 3-4"W application timing was based on the size of the predominate weed, common waterhemp.
Giant ragweed in the same plots had exceeded the target size and was 9 to 13 inches at application.
10. Harvested 10-12-15, (2) 30 inch rows by 21 ft.