

Efficacy of Ransom Herbicide Applied Preemergence in Soybeans.

Trial ID: 15-2A-W80 Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

<p>Trial Status: F one-year/final Initiation Date: 6-12-15 Completion Date: 10-21-15</p>	Trial Location
<p>City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221</p>	

Objectives:
 Evaluate the efficacy of Ransom herbicide applied preemergence to soybean compared to competitive products.

<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 style="text-align: center;">Contacts</p> <p>Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu</p>
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<p>Crop 1: GLXMA Glycine max Soybean Variety: AG3832 BBCH Scale: BSOY Description: RR2Y</p>	Crop Description
<p>Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN</p>	<p>Planting Date: 6-12-15 Planting Method: SEEDED</p>

<p>Pest 1 Type: W Code: SETFA <i>Setaria faberi</i> Herrm. Common Name: foxtail, giant</p> <p>Pest 2 Type: W Code: AMBTR <i>Ambrosia trifida</i> L. Common Name: ragweed, giant</p> <p>Pest 3 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common</p> <p>Pest 4 Type: W Code: XANST <i>Xanthium strumarium</i> L. Common Name: cocklebur, common</p>	Pest Description
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<p>Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 28 FT Total Plot Length: 28 FT</p> <p>Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block</p>	<p style="text-align: center;">Site and Design</p> <p>Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)</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 style="text-align: center;">1.</td> <td>ZEAMD</td> <td>2014</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	ZEAMD	2014
No.	Previous Crop	Year					
1.	ZEAMD	2014					

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 95%;">Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A	Maintenance
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

<p>Description Name: 02a_2013 % OM: 2.5 Texture: SIL silt loam pH: 6.7 Soil Name: Pierron CEC: 6</p>	Soil Description									
Additional Measured Elements										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Element</th> <th style="width: 35%;">Quantity</th> <th style="width: 50%;">Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>65</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>262</td> <td>lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	65	lb/A	K	262	lb/A
Element	Quantity	Unit								
P1	65	lb/A								
K	262	lb/A								

<p>Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL</p>	Moisture and Weather Conditions
	<p>Distance, Unit: 0.5 MI</p>

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-3-15					7	DAY	53	89	F
2.	6-5-15	0.17	IN	RAIN	rain	1	DAY			
3.	6-8-15	0.66	IN	RAIN	rain	1	DAY			
4.	6-10-15					7	DAY	64	91	F
5.	6-14-15	0.16	IN	RAIN	rain	1	DAY			
6.	6-15-15	0.11	IN	RAIN	rain	1	DAY			
7.	6-16-15	2.25	IN	RAIN	rain	1	DAY			
8.	6-17-15					7	DAY	69	91	F
9.	6-17-15	0.09	IN	RAIN	rain	1	DAY			
10.	6-18-15	0.14	IN	RAIN	rain	1	DAY			
11.	6-19-15	3.29	IN	RAIN	rain	1	DAY			
12.	6-20-15	0.2	IN	RAIN	rain	2	DAY			
13.	6-24-15					7	DAY	62	93	F
14.	6-25-15	1.66	IN	RAIN	rain	2	DAY			
15.	6-28-15	0.6	IN	RAIN	rain	2	DAY			
16.	7-1-15					7	DAY	63	88	F
17.	7-1-15	0.64	IN	RAIN	rain	2	DAY			
18.	7-7-15	1.33	IN	RAIN	rain	2	DAY			
19.	7-8-15					7	DAY	59	97	F
20.	7-10-15	0.26	IN	RAIN	rain	1	DAY			
21.	7-15-15					7	DAY	69	93	F
22.	7-19-15	0.35	IN	RAIN	rain	2	DAY			
23.	7-22-15					7	DAY	65	95	F
24.	7-26-15	1.21	IN	RAIN	rain	3	DAY			
25.	7-29-15					7	DAY	65	93	F
26.	8-5-15	2.25	IN	RAIN	rain	1	DAY			
27.	8-9-15	0.47	IN	RAIN	rain	1	DAY			
28.	8-12-15					7	DAY	63	89	F
29.	8-18-15	2.23	IN	RAIN	rain	2	DAY			
30.	8-19-15					7	DAY	52	82	F
31.	8-22-15	0.18	IN	RAIN	rain	1	DAY			
32.	8-26-15					7	DAY	54	91	F
33.	9-2-15					7	DAY	68	94	F
34.	9-8-15	1.93	IN	RAIN	rain	2	DAY			
35.	9-9-15					7	DAY	47	83	F
36.	9-11-15	0.4	IN	RAIN	rain	1	DAY			
37.	9-16-15					7	DAY	51	90	F
38.	9-19-15	0.14	IN	RAIN	rain	1	DAY			
39.	9-23-15					7	DAY	54	85	F
40.	9-28-15	0.13	IN	RAIN	rain	1	DAY			

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Trial ID: 15-2A-W80 Location: Belleville Res. Center Trial Year: 2015
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Application Description

	A	B
Application Date:	6-13-15	7-6-15
Appl. Start Time:	12:00	12:30
Appl. Stop Time:	12:30	13:00
Application Method:	Spray	Spray
Application Timing:	PRE	5"W
Application Placement:	BROSOI	BROFOL
Applied By:	LXF	MEJ
Air Temperature, Unit:	86 F	88 F
% Relative Humidity:	63	72
Wind Velocity, Unit:	5 MPH	5 MPH
Wind Direction:	SW	SW
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	75 F	77 F
Soil Moisture:	NORMAL	ABONOR
% Cloud Cover:	50	50
Next Moisture Occurred On:	6-14-15	7-7-15
Time to Next Moisture, Unit:	21 HR	34 HR

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V2
Stage Minimum, Percent:		V2
Stage Maximum, Percent:		V2
Height, Unit:		8 IN
Height Minimum, Maximum:		5 8

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	NA	NA
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		2
Stage Maximum, Percent:		8
Height, Unit:		5 IN
Height Minimum, Maximum:		1 5
Density, Unit:		0.1 FT2
Pest 3 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	NA
Pest 4 Code, Type, Scale:	XANST W	XANST W
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		4
Stage Maximum, Percent:		6
Height, Unit:		4 IN
Height Minimum, Maximum:		1 4
Density, Unit:		0.001 FT2

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	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:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 10-21-15 Moisture Percent	GLXMA 10-21-15 Test wt. lb/bu	GLXMA 10-21-15 Yield bu/A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	RANSOM ROUNDUP POWERMAX N-PAK AMS	55 4.5 100	WG SL SL	0.275 1.13 2.5	lb ai/a lb ae/a % v/v	8 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.3 a	58.1 a	47 abc
2	GLORY ROUNDUP POWERMAX N-PAK AMS	75 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.4 a	57.9 a	52 ab
3	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 4.5 100	WG SL SL	0.064 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.4 a	58.0 a	38 cde
4	FIERCE ROUNDUP POWERMAX N-PAK AMS	76 4.5 100	WG SL SL	0.178 1.13 2.5	lb ai/a lb ae/a % v/v	3.75 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.4 a	57.9 a	33 def
5	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.2 a	58.0 a	28 ef
6	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.101 1.13 2.5	lb ai/a lb ae/a % v/v	4 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.4 a	58.0 a	42 bcd
7	AUTHORITY MTZ ROUNDUP POWERMAX N-PAK AMS	45 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	10 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	10.1 a	57.3 a	54 ab
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	5.25 4.5 100	SL SL SL	1.31 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.1 a	57.9 a	50 abc
9	LATIR ROUNDUP POWERMAX N-PAK AMS	54.9 4.5 100	WG SL SL	0.146 1.13 2.5	lb ai/a lb ae/a % v/v	4.25 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.5 a	57.9 a	50 abc
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 4.5 100	SL SL SL	0.313 1.13 2.5	lb ae/a lb ae/a % v/v	1 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	9.3 a	58.0 a	55 a
11	NONTREATED									9.5 a	58.1 a	21 f
LSD P=.05							0.94	0.52	12.3			
Standard Deviation							0.65	0.36	8.5			
CV							6.89	0.62	19.87			
Replicate F							0.566	1.206	2.718			
Replicate Prob(F)							0.6420	0.3266	0.0643			
Treatment F							0.656	1.451	7.017			
Treatment Prob(F)							0.7538	0.2119	0.0001			

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.

Missing data estimates are included in columns: Average=6,7,9,10,15,20,25,11,16,21,26,12,17,22,27,13,18,23,28,14,19,24,29

Could not calculate LSD (% mean diff) for columns 11,16,21,26,22,13,18,23,24 because error mean square = 0.

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 6-27-15 Injury Percent	GLXMA 7-6-15 Injury Percent	GLXMA 7-13-15 Injury Percent	GLXMA 7-20-15 Injury Percent			
							14 DA-A	0 DA-B	30 DA-A	14 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	RANSOM ROUNDUP POWERMAX N-PAK AMS	55 4.5 100	WG SL SL	0.275 1.13 2.5	lb ai/a lb ae/a % v/v	8 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	25 bcd	3 c	3 c	0 d
2	GLORY ROUNDUP POWERMAX N-PAK AMS	75 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	13 d	3 c	3 c	0 d
3	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 4.5 100	WG SL SL	0.064 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	53 ab	31 a	21 ab	11 bcd
4	FIERCE ROUNDUP POWERMAX N-PAK AMS	76 4.5 100	WG SL SL	0.178 1.13 2.5	lb ai/a lb ae/a % v/v	3.75 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	56 ab	34 a	26 a	19 abc
5	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	66 a	36 a	30 a	28 a
6	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.101 1.13 2.5	lb ai/a lb ae/a % v/v	4 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	58 a	30 ab	29 a	25 ab
7	AUTHORITY MTZ ROUNDUP POWERMAX N-PAK AMS	45 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	10 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	0 d	0 c	0 c	0 d
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	5.25 4.5 100	SL SL SL	1.31 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	18 cd	12 bc	8 bc	5 cd
9	LATIR ROUNDUP POWERMAX N-PAK AMS	54.9 4.5 100	WG SL SL	0.146 1.13 2.5	lb ai/a lb ae/a % v/v	4.25 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	48 abc	18 abc	10 bc	6 cd
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 4.5 100	SL SL SL	0.313 1.13 2.5	lb ae/a lb ae/a % v/v	1 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	0 d	0 c	0 c	0 d
11	NONTREATED									0	0	0	0
LSD P=.05							31.9	18.9	15.9	13.8			
Standard Deviation							21.8	13.0	10.9	9.5			
CV							65.0	77.92	83.75	101.18			
Replicate F							2.777	3.898	2.798	0.452			
Replicate Prob(F)							0.0631	0.0211	0.0618	0.7186			
Treatment F							5.327	5.365	5.041	5.160			
Treatment Prob(F)							0.0005	0.0005	0.0007	0.0006			

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	SETFA	SETFA	SETFA	SETFA				
							6-27-15 Control Percent	7-6-15 Control Percent	7-13-15 Control Percent	7-20-15 Control Percent				
							14 DA-A	23 DA-A 0 DA-B	30 DA-A	14 DA-B				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	RANSOM ROUNDUP POWERMAX N-PAK AMS	55 4.5 100	WG SL SL	0.275 1.13 2.5	lb ai/a lb ae/a % v/v	8 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
2	GLORY ROUNDUP POWERMAX N-PAK AMS	75 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
3	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 4.5 100	WG SL SL	0.064 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
4	FIERCE ROUNDUP POWERMAX N-PAK AMS	76 4.5 100	WG SL SL	0.178 1.13 2.5	lb ai/a lb ae/a % v/v	3.75 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
5	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
6	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.101 1.13 2.5	lb ai/a lb ae/a % v/v	4 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
7	AUTHORITY MTZ ROUNDUP POWERMAX N-PAK AMS	45 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	10 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	5.25 4.5 100	SL SL SL	1.31 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
9	LATIR ROUNDUP POWERMAX N-PAK AMS	54.9 4.5 100	WG SL SL	0.146 1.13 2.5	lb ai/a lb ae/a % v/v	4.25 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 4.5 100	SL SL SL	0.313 1.13 2.5	lb ae/a lb ae/a % v/v	1 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
11	NONTREATED									0	0	0	0	
LSD P=.05											0.0	0.0	0.0	0.0
Standard Deviation											0.0	0.0	0.0	0.0
CV											0.0	0.0	0.0	0.0
Replicate F											0.000	0.000	0.000	0.000
Replicate Prob(F)											1.0000	1.0000	1.0000	1.0000
Treatment F											0.000	0.000	0.000	0.000
Treatment Prob(F)											1.0000	1.0000	1.0000	1.0000

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR			
							6-27-15 Control Percent	7-6-15 Control Percent	7-13-15 Control Percent	7-20-15 Control Percent			
							14 DA-A	23 DA-A 0 DA-B	30 DA-A	14 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	RANSOM ROUNDUP POWERMAX N-PAK AMS	55 4.5 100	WG SL SL	0.275 1.13 2.5	lb ai/a lb ae/a % v/v	8 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 ab	98 a	99 a	99 a
2	GLORY ROUNDUP POWERMAX N-PAK AMS	75 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	83 c	78 bc	99 a	98 a
3	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 4.5 100	WG SL SL	0.064 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	98 a	99 a	98 a
4	FIERCE ROUNDUP POWERMAX N-PAK AMS	76 4.5 100	WG SL SL	0.178 1.13 2.5	lb ai/a lb ae/a % v/v	3.75 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a
5	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	98 a
6	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.101 1.13 2.5	lb ai/a lb ae/a % v/v	4 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	98 a
7	AUTHORITY MTZ ROUNDUP POWERMAX N-PAK AMS	45 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	10 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	64 d	64 d	99 a	98 a
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	5.25 4.5 100	SL SL SL	1.31 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	83 c	70 cd	99 a	97 a
9	LATIR ROUNDUP POWERMAX N-PAK AMS	54.9 4.5 100	WG SL SL	0.146 1.13 2.5	lb ai/a lb ae/a % v/v	4.25 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 ab	98 a	99 a	99 a
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 4.5 100	SL SL SL	0.313 1.13 2.5	lb ae/a lb ae/a % v/v	1 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	90 bc	85 b	99 a	98 a
11	NONTREATED									0	0	0	0
LSD P=.05							8.7	10.8	.	2.0			
Standard Deviation							5.9	7.4	0.0	1.4			
CV							6.52	8.35	0.0	1.43			
Replicate F							0.606	1.199	0.000	1.051			
Replicate Prob(F)							0.6172	0.3314	1.0000	0.3882			
Treatment F							15.601	13.554	0.000	0.537			
Treatment Prob(F)							0.0001	0.0001	1.0000	0.8331			

Efficacy of Ransom Herbicide Applied Preemergence in Soybeans.

Trial ID: 15-2A-W80 Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA	AMATA	AMATA	AMATA				
							6-27-15 Control Percent	7-6-15 Control Percent	7-13-15 Control Percent	7-20-15 Control Percent				
							14 DA-A	23 DA-A 0 DA-B	30 DA-A	14 DA-B				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	RANSOM ROUNDUP POWERMAX N-PAK AMS	55 4.5 100	WG SL SL	0.275 1.13 2.5	lb ai/a lb ae/a % v/v	8 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
2	GLORY ROUNDUP POWERMAX N-PAK AMS	75 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	98 a	
3	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 4.5 100	WG SL SL	0.064 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
4	FIERCE ROUNDUP POWERMAX N-PAK AMS	76 4.5 100	WG SL SL	0.178 1.13 2.5	lb ai/a lb ae/a % v/v	3.75 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
5	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
6	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.101 1.13 2.5	lb ai/a lb ae/a % v/v	4 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
7	AUTHORITY MTZ ROUNDUP POWERMAX N-PAK AMS	45 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	10 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	5.25 4.5 100	SL SL SL	1.31 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
9	LATIR ROUNDUP POWERMAX N-PAK AMS	54.9 4.5 100	WG SL SL	0.146 1.13 2.5	lb ai/a lb ae/a % v/v	4.25 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 4.5 100	SL SL SL	0.313 1.13 2.5	lb ae/a lb ae/a % v/v	1 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
11	NONTREATED									0	0	0	0	
LSD P=.05													1.0	
Standard Deviation											0.0	0.0	0.0	0.7
CV											0.0	0.0	0.0	0.68
Replicate F											0.000	0.000	0.000	0.889
Replicate Prob(F)											1.0000	1.0000	1.0000	0.4610
Treatment F											0.000	0.000	0.000	0.889
Treatment Prob(F)											1.0000	1.0000	1.0000	0.5490

Efficacy of Ransom Herbicide Applied Preemergence in Soybeans.

Trial ID: 15-2A-W80 Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code							XANST	XANST	XANST	XANST				
Crop Code							6-27-15	7-6-15	7-13-15	7-20-15				
Rating Date							Control	Control	Control	Control				
Rating Type							Percent	Percent	Percent	Percent				
Rating Unit							23 DA-A	7 DA-B	7 DA-B	7 DA-B				
Rating Timing							14 DA-A	0 DA-B	30 DA-A	14 DA-B				
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	RANSOM ROUNDUP POWERMAX N-PAK AMS	55 4.5 100	WG SL SL	0.275 1.13 2.5	lb ai/a lb ae/a % v/v	8 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 ab	97 a	99 a	99 a	
2	GLORY ROUNDUP POWERMAX N-PAK AMS	75 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	96 a	99 a	98 a	
3	OUTFLANK ROUNDUP POWERMAX N-PAK AMS	51 4.5 100	WG SL SL	0.064 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	97 a	99 a	99 a	
4	FIERCE ROUNDUP POWERMAX N-PAK AMS	76 4.5 100	WG SL SL	0.178 1.13 2.5	lb ai/a lb ae/a % v/v	3.75 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	95 a	99 a	99 a	
5	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
6	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.101 1.13 2.5	lb ai/a lb ae/a % v/v	4 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	99 a	99 a	99 a	
7	AUTHORITY MTZ ROUNDUP POWERMAX N-PAK AMS	45 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	10 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 ab	97 a	99 a	99 a	
8	PUMMEL ROUNDUP POWERMAX N-PAK AMS	5.25 4.5 100	SL SL SL	1.31 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	96 b	96 a	99 a	99 a	
9	LATIR ROUNDUP POWERMAX N-PAK AMS	54.9 4.5 100	WG SL SL	0.146 1.13 2.5	lb ai/a lb ae/a % v/v	4.25 32 2.5	oz/a fl oz/a % v/v	PRE 5"W 5"W	A B B	99 a	96 a	99 a	99 a	
10	TORMENT ROUNDUP POWERMAX N-PAK AMS	2.5 4.5 100	SL SL SL	0.313 1.13 2.5	lb ae/a lb ae/a % v/v	1 32 2.5	pt/a fl oz/a % v/v	PRE 5"W 5"W	A B B	93 c	93 a	99 a	99 a	
11	NONTREATED									0	0	0	0	
LSD P=.05							2.9	5.6	.	1.0				
Standard Deviation							2.0	3.8	0.0	0.7				
CV							2.0	4.0	0.0	0.69				
Replicate F							1.521	2.322	0.000	1.756				
Replicate Prob(F)							0.2347	0.1006	1.0000	0.1824				
Treatment F							4.175	0.867	0.000	1.236				
Treatment Prob(F)							0.0024	0.5664	1.0000	0.3203				

Efficacy of Ransom Herbicide Applied Preemergence in Soybeans.

Trial ID: 15-2A-W80 Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: ADAMA (2984215-3).
2. Ratings:
CI at 14 and 30 DA-A; and CI 0 and 14 DA-B.
WC at 14 and 30 DA-A; and WC 0 and 14 DA-B.
Rate before spray application B.
3. Yield not requested.
4. Application B (5"W) is to be applied when weeds are 5 inch in the nontreated.
5. Photos.
6. Rainfall following the PRE application was 2.52 inch over 3 days beginning 21 hours later.
Rainfall following the 5"W application was 1.33 inch over 2 days beginning 34 hours later.
7. Missing data in plots 101, 406, and 407 was due to standing water.
8. Crop injury was stunting.
Heavy rainfall after the PRE application contributed to crop injury.
At 14 DA-B, weed control that was less than complete was due to newly emerged weeds.
9. Harvested 10-21-15, (2) 30 inch rows by 25 ft.