

No-Till Soybean Weed Control Studies

Southern Illinois University

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Trial Status: F one-year/final
Initiation Date: 5-4-15
Completion Date: 10-15-15

Trial Location

City: Belleville **Country:** USA
State/Prov.: Illinois IL
Postal Code: 62221

Objectives:

Evaluate the efficacy of Ransom herbicide applied early preplant to soybean compared to competitive products.

Contacts

Study Director: Ronald F. Krausz **Title:** Researcher/Farm Manager
Organization: Belleville Research Center - Southern Illinois Univ Carbondale
Address: 2036 Charles Lane **Phone No.:** 618-566-4761
City+State/Prov: Belleville, IL
Postal Code: 62221 **E-mail:** rkrausz@siu.edu
Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3832 **BBCH Scale:** BSOY
Description: RR2Y
Planting Date: 5-19-15
Planting Rate, Unit: 140000 S/A **Planting Method:** SEEDED
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN

Pest Description

Pest 1 Type: W **Code:** ALOCA Alopecurus carolinianus Walt.
Common Name: foxtail, Carolina
Pest 2 Type: W **Code:** HORPU Hordeum pusillum Nutt.
Common Name: barley, little
Pest 3 Type: W **Code:** AMBTR Ambrosia trifida L.
Common Name: ragweed, giant
Pest 4 Type: W **Code:** AMBEL Ambrosia artemisiifolia L.
Common Name: ragweed, common
Pest 5 Type: W **Code:** SETFA Setaria faberi Herrm.
Common Name: foxtail, giant
Pest 6 Type: W **Code:** CYPES Cyperus esculentus L.
Common Name: nutsedge, yellow
Pest 7 Type: W **Code:** AMATA Amaranthus rudis Sauer
Common Name: waterhemp, common

Site and Design

Treated Plot Width: 7.5 FT **Total Plot Width:** 10 FT **Site Type:** FIELD
Treated Plot Length: 25 FT **Total Plot Length:** 25 FT **Experimental Unit:** 1 PLOT
Tillage Type: NOTILL no-till
Replications: 4 **Study Design:** RACOB L Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

No.	Previous Crop	Year
1.	GLXMA	2014

Maintenance

No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Description

Description Name: 11B_2013
% OM: 3 **Texture:** SIL silt loam
pH: 6.5 **Soil Name:** Bethalto
CEC: 11

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Additional Measured Elements

Element	Quantity	Unit
P1	41	lb/A
K	234	lb/A

Moisture and Weather Conditions

Overall Moisture Conditions: ABONOR
 Closest Weather Station: ICN - Belleville IL

Distance, Unit: 0.5 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	0.84	IN	RAIN	rain	2	DAY			
3.	4-6-15	0.95	IN	RAIN	rain	4	DAY			
4.	4-8-15					7	DAY	43	78	F
5.	4-13-15	1.02	IN	RAIN	rain	1	DAY			
6.	4-15-15					7	DAY	42	79	F
7.	4-19-15	0.42	IN	RAIN	rain	1	DAY			
8.	4-22-15					7	DAY	36	77	F
9.	4-25-15	0.35	IN	RAIN	rain	1	DAY			
10.	4-29-15					7	DAY	36	84	F
11.	5-6-15					7	DAY	49	85	F
12.	5-8-15	4.09	IN	RAIN	rain	4	DAY			
13.	5-13-15					7	DAY	45	83	F
14.	5-14-15	0.33	IN	RAIN	rain	4	DAY			
15.	5-20-15					7	DAY	44	85	F
16.	5-20-15	0.16	IN	RAIN	rain	1	DAY			
17.	5-24-15	0.89	IN	RAIN	rain	1	DAY			
18.	5-26-15	0.59	IN	RAIN	rain	2	DAY			
19.	5-27-15					7	DAY	55	84	F
20.	5-29-15	2.15	IN	RAIN	rain	2	DAY			
21.	6-3-15					7	DAY	53	89	F
22.	6-5-15	0.17	IN	RAIN	rain	1	DAY			
23.	6-8-15	0.66	IN	RAIN	rain	1	DAY			
24.	6-10-15					7	DAY	64	91	F
25.	6-14-15	0.16	IN	RAIN	rain	1	DAY			
26.	6-15-15	0.11	IN	RAIN	rain	1	DAY			
27.	6-16-15	2.25	IN	RAIN	rain	1	DAY			
28.	6-17-15					7	DAY	69	91	F
29.	6-17-15	0.09	IN	RAIN	rain	1	DAY			
30.	6-18-15	0.14	IN	RAIN	rain	1	DAY			
31.	6-19-15	3.29	IN	RAIN	rain	1	DAY			
32.	6-20-15	0.2	IN	RAIN	rain	2	DAY			
33.	6-24-15					7	DAY	62	93	F
34.	6-25-15	1.66	IN	RAIN	rain	2	DAY			
35.	6-28-15	0.6	IN	RAIN	rain	2	DAY			
36.	7-1-15					7	DAY	63	88	F
37.	7-1-15	0.64	IN	RAIN	rain	2	DAY			
38.	7-7-15	1.33	IN	RAIN	rain	2	DAY			
39.	7-8-15					7	DAY	59	97	F
40.	7-10-15	0.26	IN	RAIN	rain	1	DAY			
41.	7-15-15					7	DAY	69	93	F
42.	7-19-15	0.35	IN	RAIN	rain	2	DAY			
43.	7-22-15					7	DAY	65	95	F
44.	7-26-15	1.21	IN	RAIN	rain	3	DAY			
45.	7-29-15					7	DAY	65	93	F
46.	8-5-15	2.25	IN	RAIN	rain	1	DAY			
47.	8-9-15	0.47	IN	RAIN	rain	1	DAY			
48.	8-12-15					7	DAY	63	89	F

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49.	8-18-15	2.23	IN	RAIN	rain	2	DAY			
50.	8-19-15					7	DAY	52	82	F
51.	8-22-15	0.18	IN	RAIN	rain	1	DAY			
52.	8-26-15					7	DAY	54	91	F
53.	9-2-15					7	DAY	68	94	F
54.	9-8-15	1.93	IN	RAIN	rain	2	DAY			
55.	9-9-15					7	DAY	47	83	F
56.	9-11-15	0.4	IN	RAIN	rain	1	DAY			
57.	9-16-15					7	DAY	51	90	F
58.	9-19-15	0.14	IN	RAIN	rain	1	DAY			
59.	9-23-15					7	DAY	54	85	F
60.	9-28-15	0.13	IN	RAIN	rain	1	DAY			

Application Description

	A	B
Application Date:	5-4-15	6-13-15
Appl. Start Time:	13:00	9:00
Appl. Stop Time:	13:30	9:30
Application Method:	Spray	Spray
Application Timing:	EPP14	4-6"W
Application Placement:	BROFOL	BROFOL
Applied By:	RFK	RFK
Air Temperature, Unit:	84 F	82 F
% Relative Humidity:	40	74
Wind Velocity, Unit:	4 MPH	5 MPH
Wind Direction:	S	SW
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	61 F	75 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	50	75
Next Moisture Occurred On:	5-8-15	6-14-15
Time to Next Moisture, Unit:	4 DAY	24 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:		6 IN
Height Minimum, Maximum:		4 6

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ALOCA W	ALOCA W
Stage Majority, Percent:	6	NA
Stage Minimum, Percent:	5	
Stage Maximum, Percent:	6	
Height, Unit:	8 IN	
Height Minimum, Maximum:	6 8	
Density, Unit:	5 FT2	
Pest 2 Code, Type, Scale:	HORPU W	HORPU W
Stage Majority, Percent:	6	NA
Stage Minimum, Percent:	5	
Stage Maximum, Percent:	6	
Height, Unit:	8 IN	
Height Minimum, Maximum:	6 8	
Density, Unit:	2 FT2	
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	6	NA
Stage Minimum, Percent:	5	
Stage Maximum, Percent:	6	
Height, Unit:	4 IN	
Height Minimum, Maximum:	3 4	
Density, Unit:	0.01 FT2	
Pest 4 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:	5	NA
Stage Minimum, Percent:	5	
Stage Maximum, Percent:	6	
Height, Unit:	3 IN	
Height Minimum, Maximum:	1 3	
Density, Unit:	0.001 FT2	
Pest 5 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		3
Stage Maximum, Percent:		4
Height, Unit:		4 IN
Height Minimum, Maximum:		2 5
Density, Unit:		0.001 FT2
Pest 6 Code, Type, Scale:	CYPES W	CYPES W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		5
Stage Maximum, Percent:		6
Height, Unit:		6 IN
Height Minimum, Maximum:		4 8
Density, Unit:		0.1 FT2
Pest 7 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	8
Stage Minimum, Percent:		4
Stage Maximum, Percent:		10
Height, Unit:		4 IN
Height Minimum, Maximum:		2 5
Density, Unit:		0.1 FT2

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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:	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	Trt	Treatment No.	Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	GLXMA 10-15-15 Moisture Percent	GLXMA 10-15-15 Test wt. lb/bu	GLXMA 10-15-15 Yield bu/A
						1	RANSOM	55	WG	0.275	lb ai/a	8	oz/a		EPP14 A		11.5 a	56.3 a	54 abc
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						2	GLORY	75	WG	0.28	lb ai/a	6	oz/a		EPP14 A		11.6 a	56.1 a	47 c
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						3	OUTFLANK	51	WG	0.064	lb ai/a	2	oz/a		EPP14 A		11.4 a	56.3 a	51 abc
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						4	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a		EPP14 A		11.3 a	56.3 a	62 a
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						5	FIERCE XLT	62.41	WG	0.176	lb ai/a	4.5	oz/a		EPP14 A		11.5 a	56.2 a	59 ab
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						6	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a		EPP14 A		11.4 a	56.3 a	57 abc
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						7	AUTHORITY MTZ	45	WG	0.28	lb ai/a	10	oz/a		EPP14 A		11.4 a	56.3 a	59 ab
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
						8	PUMMEL	5.25	SL	1.31	lb ai/a	2	pt/a		EPP14 A		11.7 a	56.0 a	51 abc
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		EPP14 A				
							2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP14 A				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		EPP14 A				
							ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		4-6"W B				
							N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				

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

Could not calculate LSD (% mean diff) for columns 14,19,25,31,37,43,49,55,10,11,12,13,17,34,40,46,52,58,15,32,38,44,50,56 because error mean square = 0.

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit		GLXMA 10-15-15 Moisture Percent	GLXMA 10-15-15 Test wt. lb/bu	GLXMA 10-15-15 Yield bu/A	
Rating Timing	Trt-Eval Interval								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A		
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B		
								11.3 a 56.4 a 57 abc	
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A		
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B		
								11.6 a 56.1 a 50 bc	
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A		
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B		
								11.4 a 56.4 a 58 abc	
12	NONTREATED								
								11.6 a 56.0 a 24 d	
LSD P=.05							0.62	0.54	11.7
Standard Deviation							0.43	0.37	8.1
CV							3.72	0.66	15.47
Replicate F							0.431	0.715	1.301
Replicate Prob(F)							0.7323	0.5504	0.2911
Treatment F							0.420	0.431	5.984
Treatment Prob(F)							0.9358	0.9300	0.0001

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	GLXMA 6-3-15 Injury Percent	GLXMA 6-13-15 Injury Percent	GLXMA 6-18-15 Injury Percent	GLXMA 6-20-15 Injury Percent	GLXMA 6-27-15 Injury Percent	GLXMA 7-3-15 Injury Percent	GLXMA 7-11-15 Injury Percent
Rating Timing	Trt-Eval Interval				30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	RANSOM	55 WG		0.275 lb ai/a	8 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
2	GLORY	75 WG		0.28 lb ai/a	6 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
3	OUTFLANK	51 WG		0.064 lb ai/a	2 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
4	FIERCE	76 WG		0.178 lb ai/a	3.75 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
5	FIERCE XLT	62.41 WG		0.176 lb ai/a	4.5 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
6	VALOR XLT	40.3 WG		0.101 lb ai/a	4 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
7	AUTHORITY MTZ	45 WG		0.28 lb ai/a	10 oz/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a
8	PUMMEL	5.25 SL		1.31 lb ai/a	2 pt/a		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A		0 a	0 a	0 a
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A		0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B		0 a	0 a	0 a
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B		0 a	0 a	0 a

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	GLXMA 6-3-15 Injury Percent	GLXMA 6-13-15 Injury Percent	GLXMA 6-18-15 Injury Percent	GLXMA 6-20-15 Injury Percent	GLXMA 6-27-15 Injury Percent	GLXMA 7-3-15 Injury Percent	GLXMA 7-11-15 Injury Percent	
Rating Timing	Trt-Eval Interval					30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code				
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14	A	0 a	0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14	A				
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14	A				
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B				
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B				
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14	A	0 a	0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14	A				
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14	A				
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B				
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B				
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14	A	0 a	0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14	A				
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14	A				
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B				
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B				
12	NONTREATED											
LSD P=.05												
Standard Deviation					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	GLXMA 7-25-15 Injury Percent	ALOCA 5-18-15 Control Percent	HORPU 5-18-15 Control Percent	
Rating Timing	Trt-Eval Interval				42 DA-B	14 DA-A	14 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	RANSOM	55	WG	0.275 lb ai/a	8 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
2	GLORY	75	WG	0.28 lb ai/a	6 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
3	OUTFLANK	51	WG	0.064 lb ai/a	2 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
4	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
5	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
6	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
7	AUTHORITY MTZ	45	WG	0.28 lb ai/a	10 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
8	PUMMEL	5.25	SL	1.31 lb ai/a	2 pt/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code						GLXMA	ALOCA	HORPU
Crop Code						7-25-15	5-18-15	5-18-15
Rating Date						Injury	Control	Control
Rating Type						Percent	Percent	Percent
Rating Unit								
Rating Timing						42 DA-B	14 DA-A	14 DA-A
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl
No.	Name	Conc	Type	Rate	Rate	Rate	Stage	Code
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
						0 a		99 a
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
						0 a		99 a
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
						0 a		99 a
12	NONTREATED							
						0		0
LSD P=.05								
Standard Deviation						0.0	0.0	0.0
CV						0.0	0.0	0.0
Replicate F						0.000	0.000	0.000
Replicate Prob(F)						1.0000	1.0000	1.0000
Treatment F						0.000	0.000	0.000
Treatment Prob(F)						1.0000	1.0000	1.0000

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR			
					5-18-15 Control Percent	6-3-15 Control Percent	6-13-15 Control Percent	6-18-15 Control Percent	6-20-15 Control Percent	6-27-15 Control Percent	7-3-15 Control Percent			
					14 DA-A	30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A			
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code							
1 RANSOM	55 WG		0.275 lb ai/a		8 oz/a	EPP14 A		99 a	95 a	92 ab	92 ab	99 a	96 a	96 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
2 GLORY	75 WG		0.28 lb ai/a		6 oz/a	EPP14 A		99 a	93 a	85 b	85 b	99 a	92 a	92 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
3 OUTFLANK	51 WG		0.064 lb ai/a		2 oz/a	EPP14 A		99 a	98 a	96 a	96 a	99 a	95 a	95 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
4 FIERCE	76 WG		0.178 lb ai/a		3.75 oz/a	EPP14 A		99 a	97 a	97 a	97 a	99 a	99 a	99 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
5 FIERCE XLT	62.41 WG		0.176 lb ai/a		4.5 oz/a	EPP14 A		99 a	99 a	99 a	99 a	99 a	99 a	99 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
6 VALOR XLT	40.3 WG		0.101 lb ai/a		4 oz/a	EPP14 A		99 a	99 a	96 a	96 a	99 a	95 a	95 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
7 AUTHORITY MTZ	45 WG		0.28 lb ai/a		10 oz/a	EPP14 A		99 a	95 a	94 ab	94 ab	99 a	99 a	99 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								
8 PUMMEL	5.25 SL		1.31 lb ai/a		2 pt/a	EPP14 A		99 a	86 b	56 c	56 c	75 b	90 a	90 a
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	EPP14 A								
2,4-D LV 4	3.8 EC		0.475 lb ae/a		1 pt/a	EPP14 A								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	EPP14 A								
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	4-6"W B								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	4-6"W B								

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code							AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR			
Crop Code							5-18-15	6-3-15	6-13-15	6-18-15	6-20-15	6-27-15	7-3-15		
Rating Date							Control	Control	Control	Control	Control	Control	Control		
Rating Type							Percent	Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit							14 DA-A	30 DA-A	40 DA-A	5 DA-B	7 DA-B	14 DA-B	20 DA-B		
Rating Timing							0 DA-B	45 DA-A	60 DA-A						
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl							
No.	Name	Conc	Type	Rate	Rate	Rate	Stage	Code							
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14	A	99 a	93 a	90 ab	90 ab	99 a	96 a	96 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14	A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14	A							
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B							
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B							
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14	A	99 a	97 a	95 ab	95 ab	99 a	97 a	97 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14	A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14	A							
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B							
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B							
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14	A	99 a	96 a	94 ab	94 ab	99 a	92 a	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14	A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14	A							
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B							
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B							
12	NONTREATED						0	0	0	0	0	0	0	0	0
LSD P=.05								6.5	10.6	10.6	12.3	7.9	7.9		
Standard Deviation							0.0	4.5	7.3	7.3	8.5	5.5	5.5		
CV							0.0	4.76	8.15	8.15	8.81	5.76	5.76		
Replicate F							0.000	2.309	0.618	0.618	1.000	1.299	1.299		
Replicate Prob(F)							1.0000	0.0964	0.6088	0.6088	0.4064	0.2929	0.2929		
Treatment F							0.000	2.519	10.382	10.382	3.000	1.237	1.237		
Treatment Prob(F)							1.0000	0.0246	0.0001	0.0001	0.0096	0.3088	0.3088		

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code						AMBTR	AMBTR
Crop Code						7-11-15	7-25-15
Rating Date						Control	Control
Rating Type						Percent	Percent
Rating Unit							
Rating Timing							
Trt-Eval Interval						28 DA-B	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage	Appl Code
1	RANSOM	55	WG	0.275 lb ai/a	8 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
2	GLORY	75	WG	0.28 lb ai/a	6 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
3	OUTFLANK	51	WG	0.064 lb ai/a	2 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
4	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
5	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
6	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
7	AUTHORITY MTZ	45	WG	0.28 lb ai/a	10 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
8	PUMMEL	5.25	SL	1.31 lb ai/a	2 pt/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code		AMBTR	AMBTR								
Crop Code		7-11-15	7-25-15								
Rating Date		Control	Control								
Rating Type		Percent	Percent								
Rating Unit											
Rating Timing		28 DA-B	42 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		
9	LATIR	54.9	WG	0.146	lb ai/a	4.25	oz/a	EPP14	A	96 a	96 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A		
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A		
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B		
10	TORMENT	2.5	SL	0.313	lb ae/a	1	pt/a	EPP14	A	97 a	97 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A		
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A		
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B		
11	CANOPY	75	WG	0.234	lb ai/a	5	oz/a	EPP14	A	92 a	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A		
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A		
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B		
12	NONTREATED									0	0
LSD P=.05										8.5	8.5
Standard Deviation										5.9	5.9
CV										6.23	6.23
Replicate F										0.566	0.566
Replicate Prob(F)										0.6419	0.6419
Treatment F										1.314	1.314
Treatment Prob(F)										0.2675	0.2675

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	
					5-18-15 Control Percent	6-3-15 Control Percent	6-13-15 Control Percent	6-18-15 Control Percent	6-20-15 Control Percent	6-27-15 Control Percent	7-3-15 Control Percent	
					14 DA-A	30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	RANSOM	55	WG	0.275 lb ai/a	8 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
2	GLORY	75	WG	0.28 lb ai/a	6 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
3	OUTFLANK	51	WG	0.064 lb ai/a	2 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
4	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
5	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
6	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
7	AUTHORITY MTZ	45	WG	0.28 lb ai/a	10 oz/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					
8	PUMMEL	5.25	SL	1.31 lb ai/a	2 pt/a		EPP14 A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A					
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B					

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code		AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	
Crop Code		5-18-15	6-3-15	6-13-15	6-18-15	6-20-15	6-27-15	
Rating Date		Control	Control	Control	Control	Control	Control	
Rating Type		Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit								
Rating Timing		14 DA-A	30 DA-A	40 DA-A	5 DA-B	7 DA-B	14 DA-B	
Trt-Eval Interval				0 DA-B	45 DA-A		60 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	99 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	99 a
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	99 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	99 a
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	99 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	99 a
12	NONTREATED							0
LSD P=.05					0.2	0.2		
Standard Deviation		0.0	0.0	0.0	0.2	0.2	0.0	0.0
CV		0.0	0.0	0.15	0.15	0.15	0.0	0.0
Replicate F		0.000	0.000	1.000	1.000	1.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	0.4064	0.4064	1.0000	1.0000	1.0000
Treatment F		0.000	0.000	1.000	1.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	0.4654	0.4654	1.0000	1.0000	1.0000

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code						AMBEL	AMBEL
Crop Code							
Rating Date						7-11-15	7-25-15
Rating Type						Control	Control
Rating Unit						Percent	Percent
Rating Timing							
Trt-Eval Interval						28 DA-B	42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage	Appl Code
1	RANSOM	55	WG	0.275 lb ai/a	8 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
2	GLORY	75	WG	0.28 lb ai/a	6 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
3	OUTFLANK	51	WG	0.064 lb ai/a	2 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
4	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
5	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
6	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
7	AUTHORITY MTZ	45	WG	0.28 lb ai/a	10 oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B
8	PUMMEL	5.25	SL	1.31 lb ai/a	2 pt/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W	B

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code							AMBEL	AMBEL	
Crop Code							7-11-15	7-25-15	
Rating Date							Control	Control	
Rating Type							Percent	Percent	
Rating Unit									
Rating Timing							28 DA-B	42 DA-B	
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl	
No.	Name	Conc	Type	Rate	Rate	Rate	Stage	Code	
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14 A	99 a	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	99 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B		
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14 A	99 a	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	99 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B		
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14 A	99 a	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	99 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B		
12	NONTREATED							0	0
LSD P=.05							.	.	
Standard Deviation							0.0	0.0	
CV							0.0	0.0	
Replicate F							0.000	0.000	
Replicate Prob(F)							1.0000	1.0000	
Treatment F							0.000	0.000	
Treatment Prob(F)							1.0000	1.0000	

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B 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	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
							6-3-15 Control Percent	6-13-15 Control Percent	6-18-15 Control Percent	6-20-15 Control Percent	6-27-15 Control Percent	7-3-15 Control Percent	7-11-15 Control Percent
							30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	RANSOM	55 WG		0.275 lb ai/a	8 oz/a		EPP14 A		99 a	98 a	98 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
2	GLORY	75 WG		0.28 lb ai/a	6 oz/a		EPP14 A		99 a	93 b	93 b	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
3	OUTFLANK	51 WG		0.064 lb ai/a	2 oz/a		EPP14 A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
4	FIERCE	76 WG		0.178 lb ai/a	3.75 oz/a		EPP14 A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
5	FIERCE XLT	62.41 WG		0.176 lb ai/a	4.5 oz/a		EPP14 A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
6	VALOR XLT	40.3 WG		0.101 lb ai/a	4 oz/a		EPP14 A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
7	AUTHORITY MTZ	45 WG		0.28 lb ai/a	10 oz/a		EPP14 A		99 a	96 ab	96 ab	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						
8	PUMMEL	5.25 SL		1.31 lb ai/a	2 pt/a		EPP14 A		99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		EPP14 A						
	2,4-D LV 4	3.8 EC		0.475 lb ae/a	1 pt/a		EPP14 A						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		EPP14 A						
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B						
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B						

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B 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	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	
							6-3-15 Control Percent	6-13-15 Control Percent	6-18-15 Control Percent	6-20-15 Control Percent	6-27-15 Control Percent	7-3-15 Control Percent	7-11-15 Control Percent
							30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
9	LATIR	54.9	WG	0.146	lb ai/a	4.25	oz/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
10	TORMENT	2.5	SL	0.313	lb ae/a	1	pt/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
11	CANOPY	75	WG	0.234	lb ai/a	5	oz/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
12	NONTREATED									0	0	0	0
LSD P=.05											3.6	3.6	
Standard Deviation										0.0	2.5	2.5	0.0
CV										0.0	2.55	2.55	0.0
Replicate F										0.000	1.289	1.289	0.000
Replicate Prob(F)										1.0000	0.2962	0.2962	1.0000
Treatment F										0.000	2.262	2.262	0.000
Treatment Prob(F)										1.0000	0.0411	0.0411	1.0000

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code						SETFA
Crop Code						7-25-15 Control Percent
Rating Date						
Rating Type						
Rating Unit						
Rating Timing						42 DA-B
Trt-Eval Interval						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage Appl Code
1	RANSOM	55	WG	0.275 lb ai/a	8 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
2	GLORY	75	WG	0.28 lb ai/a	6 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
3	OUTFLANK	51	WG	0.064 lb ai/a	2 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
4	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
5	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
6	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
7	AUTHORITY MTZ	45	WG	0.28 lb ai/a	10 oz/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B
8	PUMMEL	5.25	SL	1.31 lb ai/a	2 pt/a	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	EPP14 A
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a	EPP14 A
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	EPP14 A
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	4-6"W B
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code							SETFA		
Crop Code									
Rating Date							7-25-15		
Rating Type							Control		
Rating Unit							Percent		
Rating Timing									
Trt-Eval Interval							42 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
9	LATIR	54.9	WG	0.146	lb ai/a	4.25	oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B
10	TORMENT	2.5	SL	0.313	lb ae/a	1	pt/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B
11	CANOPY	75	WG	0.234	lb ai/a	5	oz/a	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B
12	NONTREATED							0	
LSD P=.05							.		
Standard Deviation							0.0		
CV							0.0		
Replicate F							0.000		
Replicate Prob(F)							1.0000		
Treatment F							0.000		
Treatment Prob(F)							1.0000		

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES								
Crop Code	6-3-15	6-13-15	6-18-15	6-20-15	6-27-15	7-3-15	7-11-15								
Rating Date	Control	Control	Control	Control	Control	Control	Control								
Rating Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent								
Rating Unit															
Rating Timing															
Trt-Eval Interval	30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	28 DA-B								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code							
1	RANSOM	55	WG	0.275	lb ai/a	8	oz/a	EPP14 A	80 abc	85 bcd	85 bcd	60 bc	69 a	69 a	66 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
2	GLORY	75	WG	0.28	lb ai/a	6	oz/a	EPP14 A	65 c	79 d	79 d	62 bc	62 a	62 a	77 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
3	OUTFLANK	51	WG	0.064	lb ai/a	2	oz/a	EPP14 A	69 bc	83 cd	83 cd	50 c	50 a	50 a	65 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
4	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	EPP14 A	96 a	97 ab	97 ab	75 abc	85 a	85 a	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
5	FIERCE XLT	62.41	WG	0.176	lb ai/a	4.5	oz/a	EPP14 A	99 a	98 a	98 a	87 ab	87 a	87 a	74 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
6	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	EPP14 A	99 a	99 a	99 a	99 a	97 a	97 a	97 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
7	AUTHORITY MTZ	45	WG	0.28	lb ai/a	10	oz/a	EPP14 A	89 ab	91 a-d	91 a-d	50 c	82 a	82 a	82 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							
8	PUMMEL	5.25	SL	1.31	lb ai/a	2	pt/a	EPP14 A	91 ab	94 abc	94 abc	87 ab	87 a	87 a	82 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14 A							
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14 A							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14 A							
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W B							
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B							

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit							CYPES	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES		
							6-3-15 Control Percent	6-13-15 Control Percent	6-18-15 Control Percent	6-20-15 Control Percent	6-27-15 Control Percent	7-3-15 Control Percent	7-11-15 Control Percent		
Rating Timing Trt-Eval Interval							30 DA-A	40 DA-A 0 DA-B	5 DA-B 45 DA-A	7 DA-B	14 DA-B	20 DA-B 60 DA-A	28 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
9	LATIR	54.9	WG	0.146 lb ai/a	4.25	oz/a	EPP14	A	91 ab	95 abc	95 abc	62 bc	85 a	85 a	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32	fl oz/a	EPP14	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	EPP14	A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	EPP14	A							
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32	fl oz/a	4-6"W	B							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	4-6"W	B							
10	TORMENT	2.5	SL	0.313 lb ae/a	1	pt/a	EPP14	A	89 ab	89 a-d	89 a-d	75 abc	75 a	75 a	68 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32	fl oz/a	EPP14	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	EPP14	A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	EPP14	A							
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32	fl oz/a	4-6"W	B							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	4-6"W	B							
11	CANOPY	75	WG	0.234 lb ai/a	5	oz/a	EPP14	A	99 a	98 a	98 a	87 ab	87 a	87 a	76 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32	fl oz/a	EPP14	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	EPP14	A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	EPP14	A							
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32	fl oz/a	4-6"W	B							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	4-6"W	B							
12	NONTREATED							0	0	0	0	0	0	0	
LSD P=.05							22.7	13.0	13.0	31.0	30.6	30.6	40.7		
Standard Deviation							15.7	9.0	9.0	21.5	21.2	21.2	28.2		
CV							17.92	9.81	9.81	29.82	27.0	27.0	35.66		
Replicate F							0.966	0.870	0.870	0.834	1.708	1.708	1.116		
Replicate Prob(F)							0.4214	0.4675	0.4675	0.4859	0.1864	0.1864	0.3582		
Treatment F							2.325	2.347	2.347	2.336	1.611	1.611	0.588		
Treatment Prob(F)							0.0363	0.0347	0.0347	0.0355	0.1512	0.1512	0.8106		

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Pest Code							CYPES	
Crop Code							7-25-15	
Rating Date							Control	
Rating Type							Percent	
Rating Unit								
Rating Timing								
Trt-Eval Interval							42 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	RANSOM	55	WG	0.275 lb ai/a	8 oz/a		EPP14 A	66 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
2	GLORY	75	WG	0.28 lb ai/a	6 oz/a		EPP14 A	77 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
3	OUTFLANK	51	WG	0.064 lb ai/a	2 oz/a		EPP14 A	65 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
4	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a		EPP14 A	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
5	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a		EPP14 A	74 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
6	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a		EPP14 A	97 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
7	AUTHORITY MTZ	45	WG	0.28 lb ai/a	10 oz/a		EPP14 A	82 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	
8	PUMMEL	5.25	SL	1.31 lb ai/a	2 pt/a		EPP14 A	82 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code										CYPES
Crop Code										7-25-15
Rating Date										Control
Rating Type										Percent
Rating Unit										
Rating Timing										
Trt-Eval Interval										42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
9	LATIR	54.9	WG	0.146	lb ai/a	4.25	oz/a	EPP14	A	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A	
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
10	TORMENT	2.5	SL	0.313	lb ae/a	1	pt/a	EPP14	A	68 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A	
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
11	CANOPY	75	WG	0.234	lb ai/a	5	oz/a	EPP14	A	76 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A	
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
12	NONTREATED									0
LSD P=.05										40.7
Standard Deviation										28.2
CV										35.66
Replicate F										1.116
Replicate Prob(F)										0.3582
Treatment F										0.588
Treatment Prob(F)										0.8106

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B 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	AMATA	AMATA	AMATA
							6-13-15 Control Percent 40 DA-A 0 DA-B	6-18-15 Control Percent 5 DA-B 45 DA-A	6-20-15 Control Percent 7 DA-B	6-27-15 Control Percent 14 DA-B	7-3-15 Control Percent 20 DA-B 60 DA-A	7-11-15 Control Percent 28 DA-B	7-25-15 Control Percent 42 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	RANSOM	55	WG	0.275	lb ai/a	8	oz/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
2	GLORY	75	WG	0.28	lb ai/a	6	oz/a	EPP14	A	56 bc	56 bc	50 c	72 bc
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
3	OUTFLANK	51	WG	0.064	lb ai/a	2	oz/a	EPP14	A	94 a	94 a	87 ab	87 ab
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
4	FIERCE	76	WG	0.178	lb ai/a	3.75	oz/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
5	FIERCE XLT	62.41	WG	0.176	lb ai/a	4.5	oz/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
6	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	EPP14	A	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
7	AUTHORITY MTZ	45	WG	0.28	lb ai/a	10	oz/a	EPP14	A	43 c	43 c	50 c	70 bc
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
8	PUMMEL	5.25	SL	1.31	lb ai/a	2	pt/a	EPP14	A	79 ab	79 ab	50 c	60 c
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	EPP14	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	EPP14	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	EPP14	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code		AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	
Crop Code								
Rating Date		6-13-15	6-18-15	6-20-15	6-27-15	7-3-15	7-11-15	
Rating Type		Control	Control	Control	Control	Control	Control	
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent	
Rating Timing		40 DA-A	5 DA-B	7 DA-B	14 DA-B	20 DA-B	28 DA-B	
Trt-Eval Interval		0 DA-B	45 DA-A				42 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code
9	LATIR	54.9	WG	0.146 lb ai/a	4.25 oz/a		EPP14 A	97 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	97 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	87 ab
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	99 a
10	TORMENT	2.5	SL	0.313 lb ae/a	1 pt/a		EPP14 A	93 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	93 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	75 b
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	97 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	97 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	97 a
11	CANOPY	75	WG	0.234 lb ai/a	5 oz/a		EPP14 A	84 ab
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		EPP14 A	84 ab
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP14 A	50 c
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		EPP14 A	93 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W B	93 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B	94 a
12	NONTREATED							0
LSD P=.05		30.0		30.0	18.9		19.1	19.2
Standard Deviation		20.8		20.8	13.1		13.2	13.3
CV		24.32		24.32	17.04		14.96	15.04
Replicate F		0.942		0.942	1.702		2.743	2.655
Replicate Prob(F)		0.4325		0.4325	0.1877		0.0605	0.0664
Treatment F		3.444		3.444	11.809		4.701	4.638
Treatment Prob(F)		0.0041		0.0041	0.0001		0.0005	0.0005

Efficacy of Ransom Herbicide Applied Early Preplant in Soybean Compared to Competition.

Trial ID: 15-11B Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: ADAMA (2984215-2).
2. Ratings:
CI at 30, 45, and 60 DA-A.
WC at 14, 30, 45, and 60 DA-A and 0, 7, 14, 28, and 42 DA-B.
Rate before spray application B (4-6"W).
3. Yield.
4. Application B, when weeds reach 5 inches in any 5 treated plots.
5. Rainfall following the PRE application was 4.09 inch over 4 days beginning 4 days later.
Rainfall following the 4-6"W application was 2.52 inch over 3 days beginning 24 hours later.
6. Harvested 10-15-15, (2) 30 inch rows by 22 ft.