

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 5-29-14 Completion Date: 10-24-14	
Trial Location	
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA

Objectives: Evaluate BASF high yield programs.
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Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop Description	
Crop 1: GLXMA Glycine max Soybean Variety: AG 3034 BBCH Scale: BSOY Description: RR	
Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Planting Date: 5-29-14 Planting Method: SEEDED

Pest Description	
Pest 1 Type: W Code: PANDI Panicum dichotomiflorum Michx. Common Name: panicum, fall	
Pest 2 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant	
Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common	
Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. Common Name: morningglory, ivyleaf	
Pest 5 Type: D Code: SEPTGL Septoria glycines Common Name: Brown spot of soybean	

Site and Design							
Treated Plot Width: 10FT Total Plot Width: 10FT Treated Plot Length: 40FT Total Plot Length: 40FT	Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> <tr> <td>1.</td> <td>ZEAMD</td> <td>2013</td> </tr> </table>		No.	Previous Crop	Year	1.	ZEAMD	2013
No.	Previous Crop	Year					
1.	ZEAMD	2013					

Maintenance					
<table border="1" style="width: 100%;"> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> <tr> <td>1.</td> <td>N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </table>	No.	Maintenance Product Name	1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A	
No.	Maintenance Product Name				
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

Soil Description										
% OM: 2.9 Texture: SIL silt loam pH: 6.6 Soil Name: Pierron CEC: 10										
Additional Measured Elements										
<table border="1" style="width: 100%;"> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> <tr> <td>P1</td> <td>67</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>305</td> <td>lb/A</td> </tr> </table>		Element	Quantity	Unit	P1	67	lb/A	K	305	lb/A
Element	Quantity	Unit								
P1	67	lb/A								
K	305	lb/A								

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

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-29-14					7	DAY	41	87	F
2.	5-6-14					7	DAY	56	86	F
3.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
4.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
5.	5-13-14					7	DAY	37	76	F
6.	5-20-14					7	DAY	55	87	F
7.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
8.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
9.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
10.	5-27-14					7	DAY	60	86	F
11.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
12.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
13.	6-3-14					7	DAY	59	90	F
14.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
15.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
16.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
17.	6-10-14					7	DAY	51	90	F
18.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
19.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
20.	6-17-14					7	DAY	67	92	F
21.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
22.	6-24-14					7	DAY	65	91	F
23.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
24.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
25.	7-1-14					7	DAY	55	90	F
26.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
27.	7-8-14					7	DAY	59	89	F
28.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
29.	7-15-14					7	DAY	54	85	F
30.	7-22-14					7	DAY	57	98	F
31.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
32.	7-29-14					7	DAY	52	89	F
33.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
34.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
35.	8-5-14					7	DAY	66	88	F
36.	8-12-14					7	DAY	57	84	F
37.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
38.	8-19-14					7	DAY	67	95	F
39.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
40.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
41.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
42.	9-2-14					7	DAY	54	93	F
43.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
44.	9-9-14					7	DAY	45	85	F
45.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
46.	9-16-14					7	DAY	46	86	F
47.	9-23-14					7	DAY	46	86	F
48.	9-30-14					7	DAY	37	87	F
49.	10-1-14	0.99	IN	RAIN	rain	3	DAY			
50.	10-6-14	0.31	IN	RAIN	rain	2	DAY			
51.	10-7-14					7	DAY	46	77	F
52.	10-9-14	1.44	IN	RAIN	rain	2	DAY			
53.	10-12-14	1.24	IN	RAIN	rain	3	DAY			
54.	10-14-14					7	DAY	37	73	F
55.	10-21-14					7	DAY	36	82	F
56.	10-28-14	0.26	IN	RAIN	rain	1	DAY			

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Application Description						
	A	B	C	D	E	F
Application Date:	5-30-14	6-19-14	6-19-14	7-11-14	7-18-14	8-1-14
Appl. Start Time:	13:00	16:00	16:00	7:00	10:00	9:00
Appl. Stop Time:	13:15	16:30	16:30	7:15	10:30	9:30
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	V2	4-6"W	21DA-C	R3	14DA-E
Application Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	RFK	LXF	LXF	RJW	RH	RFK
Air Temperature, Unit:	83 F	90 F	90 F	67 F	67 F	77 F
% Relative Humidity:	72	50	50	87	54	74
Wind Velocity, Unit:	6 MPH	6 MPH	6 MPH	2 MPH	2 MPH	0 MPH
Wind Direction:	E	S	S	S	N	
Dew Presence (Y/N):	N	N	N	Y	N	N
Soil Temperature, Unit:	72 F	77 F	77 F	75 F	75 F	74 F
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	BELNOR
% Cloud Cover:	90	25	25	0	75	50
Next Moisture Occurred On:	5-31-14	6-20-14	6-20-14	7-7-14	7-25-14	8-5-14
Time to Next Moisture, Unit:	1 DAY	23 HR	23 HR	6 DAY	7 DAY	5 DAY

Crop Stage At Each Application						
	A	B	C	D	E	F
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	V3	V3	R2	R3	R4
Stage Minimum, Percent:		V2	V2	R2	R3	R4
Stage Maximum, Percent:		V3	V3	R2	R3	R4
Height, Unit:		6 IN	6 IN	14 IN	18 IN	28 IN
Height Minimum, Maximum:		4 6	4 6	10 14	16 18	26 28

Pest Stage At Each Application						
	A	B	C	D	E	F
Pest 1 Code, Type, Scale:	PANDI W	PANDI W	PANDI W	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	NA	5	5	6	NA	NA
Stage Minimum, Percent:		3	3	2		
Stage Maximum, Percent:		6	6	12		
Height, Unit:		6 IN	6 IN	6 IN		
Height Minimum, Maximum:		3 6	3 6	2 10		
Density, Unit:		1 FT2	1 FT2	0.1 FT2		
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	8	8	8	NA	NA
Stage Minimum, Percent:		4	4	4		
Stage Maximum, Percent:		14	14	18		
Height, Unit:		6 IN	6 IN	6 IN		
Height Minimum, Maximum:		4 8	4 8	4 14		
Density, Unit:		1 FT2	1 FT2	0.5 FT2		
Pest 3 Code, Type, Scale:	AMATA W	AMATA W	AMATA W	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	NA	NA	NA	NA	NA
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	10	10	6	NA	NA
Stage Minimum, Percent:		4	4	2		
Stage Maximum, Percent:		16	16	10		
Height, Unit:		4 IN	4 IN	3 IN		
Height Minimum, Maximum:		2 5	2 5	1 4		
Density, Unit:		0.5 FT2	0.5 FT2	0.1 FT2		
Pest 5 Code, Type, Scale:	SEPTGL D	SEPTGL D	SEPTGL D	SEPTGL D	SEPTGL D	SEPTGL D
Stage Majority, Percent:	NA	NA	NA	NA	NA	NA

Application Equipment						
	A	B	C	D	E	F
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR	XR	XR	XR
Nozzle Size:	8002	8002	8002	8002	8002	8002
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT	10 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA

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Pest Code Crop Code Rating Date								GLXMA 10-24-14	GLXMA 10-24-14	GLXMA 10-24-14	GLXMA 6-13-14	GLXMA 7-3-14	GLXMA 7-17-14	GLXMA 8-14-14	
Rating Type								Moisture	Test wt.	Yield	Injury	Injury	Injury	Injury	
Rating Unit								Percen	lb/bu	bu/A	Percen	Percent	Percent	Percent	
Rating Timing											-6 DA-C	14 DA-C	28 DA-C	56 DA-C	
Trt-Eval Interval											14 DA-A	14 DA-B	28 DA-B	56 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code							
1	NO SEED TREATMENT NONTREATED								14.1 a	56.5 d	5 b	0	0	0	0
2	NO SEED TREATMENT ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a 4-6"W C MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v 4-6"W C N-PAK AMS 100 SL 2.5% v/v 2.5% v/v 4-6"W C ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a 21DA-C D MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v 21DA-C D N-PAK AMS 100 SL 2.5% v/v 2.5% v/v 21DA-C D								13.7 bc	56.8 bc	71 a	0 a	0 a	0 a	0 a
3	NO SEED TREATMENT ZIDUA 85 WG 0.16 lb ai/a 3 oz/a PRE A SHARPEN 2.85 SC 0.0223 lb ai/a 1 fl oz/a PRE A OUTLOOK 6 EC 0.47 lb ai/a 10 fl oz/a V2 B ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a V2 B MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v V2 B N-PAK AMS 100 SL 2.5% v/v 2.5% v/v V2 B								13.5 bcd	56.8 abc	65 a	0 a	0 a	0 a	0 a
4	NO SEED TREATMENT ZIDUA 85 WG 0.16 lb ai/a 3 oz/a PRE A SHARPEN 2.85 SC 0.0223 lb ai/a 1 fl oz/a PRE A OUTLOOK 6 EC 0.47 lb ai/a 10 fl oz/a V2 B ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a V2 B MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v V2 B N-PAK AMS 100 SL 2.5% v/v 2.5% v/v V2 B PRIAXOR 4.17 SL 0.13 lb ai/a 4 fl oz/a R3 E FASTAC 0.83 SL 0.0246 lb ai/a 3.8 fl oz/a R3 E								13.4 d	56.9 ab	68 a	0 a	0 a	0 a	0 a
5	TREATED SEED ZIDUA 85 WG 0.16 lb ai/a 3 oz/a PRE A SHARPEN 2.85 SC 0.0223 lb ai/a 1 fl oz/a PRE A OUTLOOK 6 EC 0.47 lb ai/a 10 fl oz/a V2 B ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a V2 B MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v V2 B N-PAK AMS 100 SL 2.5% v/v 2.5% v/v V2 B PRIAXOR 4.17 SL 0.13 lb ai/a 4 fl oz/a R3 E FASTAC 0.83 SL 0.0246 lb ai/a 3.8 fl oz/a R3 E UREA (46-0-0) + LIMUS 100 SG 100 lb/a R3 E PRIAXOR 4.17 SL 0.13 lb ai/a 4 fl oz/a 14DA-E F								13.7 b	56.8 c	64 a	0 a	0 a	0 a	0 a
6	TREATED SEED ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a 4-6"W C MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v 4-6"W C N-PAK AMS 100 SL 2.5% v/v 2.5% v/v 4-6"W C ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a 21DA-C D MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v 21DA-C D N-PAK AMS 100 SL 2.5% v/v 2.5% v/v 21DA-C D								13.4 cd	56.9 abc	73 a	0 a	0 a	0 a	0 a
7	TREATED SEED ZIDUA 85 WG 0.16 lb ai/a 3 oz/a PRE A SHARPEN 2.85 SC 0.0223 lb ai/a 1 fl oz/a PRE A OUTLOOK 6 EC 0.47 lb ai/a 10 fl oz/a V2 B ROUNDUP POWERMAX 4.5 SL 1.13 lb ae/a 32 fl oz/a V2 B MSO (MSO ULTRA) 100 SL 1% v/v 1% v/v V2 B N-PAK AMS 100 SL 2.5% v/v 2.5% v/v V2 B								13.3 d	57.0 a	72 a	0 a	0 a	0 a	0 a

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Missing data estimates are included in columns: Average=2,3

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Pest Code Crop Code Rating Date Rating Type							PAND	PANDI	PAND	PANDI
Rating Unit Rating Timing							6-13-14 Control	7-3-14 Control	7-17-14 Control	8-14-14 Control
Trt-Eval Interval							Percent -6 DA-C	Percent 14 DA-C	Percent 28 DA-C	Percent 56 DA-C
							14 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	NO SEED TREATMENT NONTREATED								0	0
2	NO SEED TREATMENT ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	4.5 SL 100 SL 100 SL 4.5 SL 100 SL 100 SL		1.13 lb ae/a 1 % v/v 2.5 % v/v 1.13 lb ae/a 1 % v/v 2.5 % v/v	32 fl oz/a 1 % v/v 2.5 % v/v 32 fl oz/a 1 % v/v 2.5 % v/v		4-6"W C 4-6"W C 4-6"W C 21DA-C D 21DA-C D 21DA-C D		0 a	99 a
3	NO SEED TREATMENT ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL		0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v		PRE A PRE A V2 B V2 B V2 B V2 B		99 a	99 a
4	NO SEED TREATMENT ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS PRIAXOR FASTAC	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL 4.17 SL 0.83 SL		0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.13 lb ai/a 0.0246 lb ai/a	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 4 fl oz/a 3.8 fl oz/a		PRE A PRE A V2 B V2 B V2 B V2 B R3 E R3 E		99 a	99 a
5	TREATED SEED ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS PRIAXOR FASTAC UREA (46-0-0) + LIMUS PRIAXOR	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL 4.17 SL 0.83 SL 100 SG 4.17 SL		0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.13 lb ai/a 0.0246 lb ai/a 100 lb/a 0.13 lb ai/a	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 4 fl oz/a 3.8 fl oz/a 100 lb/a 4 fl oz/a		PRE A PRE A V2 B V2 B V2 B V2 B R3 E R3 E R3 E 14DA-E F		99 a	99 a
6	TREATED SEED ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	4.5 SL 100 SL 100 SL 4.5 SL 100 SL 100 SL		1.13 lb ae/a 1 % v/v 2.5 % v/v 1.13 lb ae/a 1 % v/v 2.5 % v/v	32 fl oz/a 1 % v/v 2.5 % v/v 32 fl oz/a 1 % v/v 2.5 % v/v		4-6"W C 4-6"W C 4-6"W C 21DA-C D 21DA-C D 21DA-C D		0 a	99 a
7	TREATED SEED ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL		0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v		PRE A PRE A V2 B V2 B V2 B V2 B		99 a	99 a

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Pest Code								PAND	PAND	PAND	PAND
Crop Code											
Rating Date								6-13-14	7-3-14	7-17-14	8-14-14
Rating Type								Control	Control	Control	Control
Rating Unit								Percent	Percent	Percent	Percent
Rating Timing								-6 DA-C	14 DA-C	28 DA-C	56 DA-C
Trt-Eval Interval								14 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No. Name	Conc	Type	Unit	Rate	Rate	Unit Stage	Code				
8 TREATED SEED								99 a	99 a	99 a	99 a
ZIDUA	85 WG		0.16 lb ai/a		3 oz/a	PRE A					
SHARPEN	2.85 SC		0.0223 lb ai/a		1 fl oz/a	PRE A					
OUTLOOK	6 EC		0.47 lb ai/a		10 fl oz/a	V2 B					
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	V2 B					
MSO (MSO ULTRA)	100 SL		1 % v/v		1 % v/v	V2 B					
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	V2 B					
PRIAXOR	4.17 SL		0.13 lb ai/a		4 fl oz/a	R3 E					
FASTAC	0.83 SL		0.0246 lb ai/a		3.8 fl oz/a	R3 E					
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							AMBTR	AMBTR	AMBTR	AMBTR
Crop Code							6-13-14	7-3-14	7-17-14	8-14-14
Rating Date							Control	Control	Control	Control
Rating Type										
Rating Unit							Percent	Percent	Percent	Percent
Rating Timing							-6 DA-C	14 DA-C	28 DA-C	56 DA-C
Trt-Eval Interval							14 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code
1	NO SEED TREATMENT NONTREATED									
							0	0	0	0
2	NO SEED TREATMENT						0 b	99 a	89 c	97 ab
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	4-6"W	C			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	4-6"W	C			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	4-6"W	C			
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	21DA-C	D			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	21DA-C	D			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	21DA-C	D			
3	NO SEED TREATMENT						88 a	99 a	94 b	95 c
	ZIDUA	85 WG		0.16 lb ai/a	3 oz/a	PRE	A			
	SHARPEN	2.85 SC		0.0223 lb ai/a	1 fl oz/a	PRE	A			
	OUTLOOK	6 EC		0.47 lb ai/a	10 fl oz/a	V2	B			
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	V2	B			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	V2	B			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	V2	B			
4	NO SEED TREATMENT						88 a	99 a	97 a	96 bc
	ZIDUA	85 WG		0.16 lb ai/a	3 oz/a	PRE	A			
	SHARPEN	2.85 SC		0.0223 lb ai/a	1 fl oz/a	PRE	A			
	OUTLOOK	6 EC		0.47 lb ai/a	10 fl oz/a	V2	B			
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	V2	B			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	V2	B			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	V2	B			
	PRIAXOR	4.17 SL		0.13 lb ai/a	4 fl oz/a	R3	E			
	FASTAC	0.83 SL		0.0246 lb ai/a	3.8 fl oz/a	R3	E			
5	TREATED SEED						86 a	99 a	96 ab	95 bc
	ZIDUA	85 WG		0.16 lb ai/a	3 oz/a	PRE	A			
	SHARPEN	2.85 SC		0.0223 lb ai/a	1 fl oz/a	PRE	A			
	OUTLOOK	6 EC		0.47 lb ai/a	10 fl oz/a	V2	B			
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	V2	B			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	V2	B			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	V2	B			
	PRIAXOR	4.17 SL		0.13 lb ai/a	4 fl oz/a	R3	E			
	FASTAC	0.83 SL		0.0246 lb ai/a	3.8 fl oz/a	R3	E			
	UREA (46-0-0) + LIMUS	100 SG			100 lb/a	R3	E			
	PRIAXOR	4.17 SL		0.13 lb ai/a	4 fl oz/a	14DA-E	F			
6	TREATED SEED						0 b	99 a	90 c	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	4-6"W	C			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	4-6"W	C			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	4-6"W	C			
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	21DA-C	D			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	21DA-C	D			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	21DA-C	D			
7	TREATED SEED						88 a	99 a	95 ab	94 c
	ZIDUA	85 WG		0.16 lb ai/a	3 oz/a	PRE	A			
	SHARPEN	2.85 SC		0.0223 lb ai/a	1 fl oz/a	PRE	A			
	OUTLOOK	6 EC		0.47 lb ai/a	10 fl oz/a	V2	B			
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a	V2	B			
	MSO (MSO ULTRA)	100 SL		1 % v/v	1 % v/v	V2	B			
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v	V2	B			

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code									AMBTR	AMBTR	AMBTR	AMBTR
Crop Code									6-13-14	7-3-14	7-17-14	8-14-14
Rating Date									Control	Control	Control	Control
Rating Type												
Rating Unit									Percent	Percent	Percent	Percent
Rating Timing									-6 DA-C	14 DA-C	28 DA-C	56 DA-C
Trt-Eval Interval									14 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt Treatment	Form	Form	Rate	Other	Other	Growth	Appl					
No. Name	Conc	Type	Rate	Unit	Rate	Rate	Unit Stage	Code				
8 TREATED SEED									86 a	99 a	97 ab	96 bc
ZIDUA	85 WG		0.16 lb ai/a		3 oz/a	PRE	A					
SHARPEN	2.85 SC		0.0223 lb ai/a		1 fl oz/a	PRE	A					
OUTLOOK	6 EC		0.47 lb ai/a		10 fl oz/a	V2	B					
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	V2	B					
MSO (MSO ULTRA)	100 SL		1 % v/v		1 % v/v	V2	B					
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	V2	B					
PRIAXOR	4.17 SL		0.13 lb ai/a		4 fl oz/a	R3	E					
FASTAC	0.83 SL		0.0246 lb ai/a		3.8 fl oz/a	R3	E					
LSD (P=.05)									4.1	0.0	3.2	2.7
Standard Deviation									2.7	0.0	2.1	1.8
CV									4.39	0.0	2.29	1.89
Replicate F									1.280	0.000	1.102	1.407
Replicate Prob(F)									0.3113	1.0000	0.3739	0.2732
Treatment F									969.000	0.000	9.320	3.531
Treatment Prob(F)									0.0001	1.0000	0.0001	0.0173

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code	AMATA					
Crop Code	AMATA					
Rating Date	AMATA					
Rating Type	AMATA					
Rating Unit	6-13-14 Control					
Rating Timing	7-3-14 Control					
Trt-Eval Interval	7-17-14 Control					
Trt Treatment	8-14-14 Control					
No. Name	Percent -6 DA-C					
Form Form	14 DA-A					
Rate	Percent 14 DA-B					
Other Other	Percent 28 DA-C					
Growth	Percent 28 DA-B					
Appl	Percent 56 DA-C					
Code	56 DA-B					
1 NO SEED TREATMENT NONTREATED	0	0	0	0	0	0
2 NO SEED TREATMENT ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	4.5 SL 100 SL 100 SL 4.5 SL 100 SL 100 SL	1.13 lb ae/a 1 % v/v 2.5 % v/v 1.13 lb ae/a 1 % v/v 2.5 % v/v	32 fl oz/a 1 % v/v 2.5 % v/v 32 fl oz/a 1 % v/v 2.5 % v/v	4-6"W C 4-6"W C 4-6"W C 21DA-C D 21DA-C D 21DA-C D	0 a	99 a
3 NO SEED TREATMENT ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL	0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v	PRE A PRE A V2 B V2 B V2 B V2 B	99 a	99 a
4 NO SEED TREATMENT ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS PRIAXOR FASTAC	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL 4.17 SL 0.83 SL	0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.13 lb ai/a 0.0246 lb ai/a	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 4 fl oz/a 3.8 fl oz/a	PRE A PRE A V2 B V2 B V2 B V2 B R3 E R3 E	99 a	99 a
5 TREATED SEED ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS PRIAXOR FASTAC UREA (46-0-0) + LIMUS PRIAXOR	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL 4.17 SL 0.83 SL 100 SG 4.17 SL	0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v 0.13 lb ai/a 0.0246 lb ai/a 100 lb/a 0.13 lb ai/a	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v 4 fl oz/a 3.8 fl oz/a 100 lb/a 4 fl oz/a	PRE A PRE A V2 B V2 B V2 B V2 B R3 E R3 E R3 E 14DA-E F	99 a	99 a
6 TREATED SEED ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	4.5 SL 100 SL 100 SL 4.5 SL 100 SL 100 SL	1.13 lb ae/a 1 % v/v 2.5 % v/v 1.13 lb ae/a 1 % v/v 2.5 % v/v	32 fl oz/a 1 % v/v 2.5 % v/v 32 fl oz/a 1 % v/v 2.5 % v/v	4-6"W C 4-6"W C 4-6"W C 21DA-C D 21DA-C D 21DA-C D	0 a	99 a
7 TREATED SEED ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS	85 WG 2.85 SC 6 EC 4.5 SL 100 SL 100 SL	0.16 lb ai/a 0.0223 lb ai/a 0.47 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v	3 oz/a 1 fl oz/a 10 fl oz/a 32 fl oz/a 1 % v/v 2.5 % v/v	PRE A PRE A V2 B V2 B V2 B V2 B	99 a	99 a

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code									AMATA	AMATA	AMATA	AMATA
Crop Code												
Rating Date									6-13-14	7-3-14	7-17-14	8-14-14
Rating Type									Control	Control	Control	Control
Rating Unit									Percent	Percent	Percent	Percent
Rating Timing									-6 DA-C	14 DA-C	28 DA-C	56 DA-C
Trt-Eval Interval									14 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt Treatment	Form	Form	Rate	Other	Other	Growth	Appl					
No. Name	Conc	Type	Rate	Unit	Rate	Rate	Unit Stage	Code				
8 TREATED SEED									99 a	99 a	99 a	99 a
ZIDUA	85 WG		0.16 lb ai/a		3 oz/a	PRE	A					
SHARPEN	2.85 SC		0.0223 lb ai/a		1 fl oz/a	PRE	A					
OUTLOOK	6 EC		0.47 lb ai/a		10 fl oz/a	V2	B					
ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a	V2	B					
MSO (MSO ULTRA)	100 SL		1 % v/v		1 % v/v	V2	B					
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v	V2	B					
PRIAXOR	4.17 SL		0.13 lb ai/a		4 fl oz/a	R3	E					
FASTAC	0.83 SL		0.0246 lb ai/a		3.8 fl oz/a	R3	E					
LSD (P=.05)									0.0	0.0	3.1	1.1
Standard Deviation									0.0	0.0	2.1	0.8
CV									0.0	0.0	2.13	0.78
Replicate F									0.000	0.000	2.124	1.378
Replicate Prob(F)									1.0000	1.0000	0.1328	0.2814
Treatment F									0.000	0.000	4.741	1.054
Treatment Prob(F)									1.0000	1.0000	0.0046	0.4247

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							IPOHE 6-13-14 Control	IPOHE 7-3-14 Control	IPOHE 7-17-14 Control	IPOHE 8-14-14 Control	SEPTGL GLXMA 8-8-14 Incidence	SEPTGL GLXMA 8-8-14 Severity	SEPTGL GLXMA 8-8-14 Severity	SEPTGL GLXMA 8-22-14 Incidence
Trt Treatment No. Name							Percent -6 DA-C 14 DA-A	Percent 14 DA-C 14 DA-B	Percent 28 DA-C 28 DA-B	Percent 56 DA-C 56 DA-B	Percent 7 DA-F 21 DA-E	Percent 7 DA-F 21 DA-E	Percent 21 DA-F 35 DA-E	Percent 21 DA-F 35 DA-E
1 NO SEED TREATMENT NONTREATED							0	0	0	0	0.0	0.0	0.0	0.0
2 NO SEED TREATMENT ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS							0 a	99 a	88 b	94 c	0.0 a	0.0 a	0.0 a	0.0 a
3 NO SEED TREATMENT ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS							99 a	99 a	98 a	98 ab	0.0 a	0.0 a	0.0 a	0.0 a
4 NO SEED TREATMENT ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS PRIAXOR FASTAC							99 a	99 a	99 a	99 a	0.0 a	0.0 a	0.0 a	0.0 a
5 TREATED SEED ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS PRIAXOR FASTAC UREA (46-0-0) + LIMUS PRIAXOR							99 a	99 a	99 a	99 a	0.0 a	0.0 a	0.0 a	0.0 a
6 TREATED SEED ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS							0 a	99 a	89 b	95 bc	0.0 a	0.0 a	0.0 a	0.0 a
7 TREATED SEED ZIDUA SHARPEN OUTLOOK ROUNDUP POWERMAX MSO (MSO ULTRA) N-PAK AMS							99 a	99 a	99 a	99 a	0.0 a	0.0 a	0.0 a	0.0 a

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code								IPOHE	IPOHE	IPOHE	IPOHE	SEPTGL	SEPTGL	SEPTGL	SEPTGL
Crop Code								6-13-14	7-3-14	7-17-14	8-14-14	GLXMA	GLXMA	GLXMA	GLXMA
Rating Date								Control	Control	Control	Control	Incidence	Severity	Severity	Incidence
Rating Type															
Rating Unit								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing								-6 DA-C	14 DA-C	28 DA-C	56 DA-C	7 DA-F	7 DA-F	21 DA-F	21 DA-F
Trt-Eval Interval								14 DA-A	14 DA-B	28 DA-B	56 DA-B	21 DA-E	21 DA-E	35 DA-E	35 DA-E
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code					
8	TREATED SEED										99 a	99 a	99 a	99 a	0.0 a
	ZIDUA	85 WG		0.16 lb ai/a		3 oz/a		PRE	A	A					
	SHARPEN	2.85 SC		0.0223 lb ai/a		1 fl oz/a		PRE	A	A					
	OUTLOOK	6 EC		0.47 lb ai/a		10 fl oz/a		V2	B	B					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a		V2	B	B					
	MSO (MSO ULTRA)	100 SL		1 % v/v		1 % v/v		V2	B	B					
	N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		V2	B	B					
	PRIAXOR	4.17 SL		0.13 lb ai/a		4 fl oz/a		R3	E	E					
	FASTAC	0.83 SL		0.0246 lb ai/a		3.8 fl oz/a		R3	E	E					
LSD (P=.05)								0.0	0.0	3.9	3.6	0.00	0.00	0.00	0.00
Standard Deviation								0.0	0.0	2.7	2.4	0.00	0.00	0.00	0.00
CV								0.0	0.0	2.77	2.52	0.0	0.0	0.0	0.0
Replicate F								0.000	0.000	1.438	2.422	0.000	0.000	0.000	0.000
Replicate Prob(F)								1.0000	1.0000	0.2648	0.0994	1.0000	1.0000	1.0000	1.0000
Treatment F								0.000	0.000	15.250	3.639	0.000	0.000	0.000	0.000
Treatment Prob(F)								1.0000	1.0000	0.0001	0.0153	1.0000	1.0000	1.0000	1.0000

BASF Advanced Acre - Soybean.

Trial ID: 14-50E Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: BASF (US-HYS-A-UIL DL12014).
2. Ratings TBD.
3. Yield
4. Special instructions for treatment 5 at R3, UREA (46-0-0) + LIMUS is hand spread not sprayed.
Urea at 100 lb product per acre = 417 grams per plot.
5. SEPTGL = Septoria glycines, Brown spot of soybean.
6. Harvested 10-24-14, (2) 30 inch rows by 37 ft.