

Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

<b>Trial Status:</b> F one-year/final <b>Initiation Date:</b> 5-5-15 <b>Completion Date:</b> 10-7-15	<b>Trial Location</b>
<b>City:</b> Belleville <b>Country:</b> USA <b>State/Prov.:</b> Illinois IL <b>Postal Code:</b> 62221	

<b>Objectives:</b> To demonstrate the one- and two-pass weed control efficacy and corn safety of BCS herbicide programs which include dicamba-containing products.
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<b>Study Director:</b> Ronald F. Krausz <b>Organization:</b> Belleville Research Center - Southern Illinois Univ Carbondale <b>Address:</b> 2036 Charles Lane <b>City+State/Prov:</b> Belleville, IL <b>Postal Code:</b> 62221 <b>Country:</b> USA	<b>Contacts</b>
	<b>Title:</b> Researcher/Farm Manager <b>Phone No.:</b> 618-566-4761 <b>E-mail:</b> rkrausz@siu.edu

<b>Crop 1:</b> ZEAMD Zea mays indentata    Dent corn <b>Variety:</b> DKC 63-33 <b>BBCH Scale:</b> BCOR <b>Description:</b> SS RIB	<b>Crop Description</b>
<b>Planting Rate, Unit:</b> 30000 S/A <b>Depth, Unit:</b> 1.5 IN <b>Row Spacing, Unit:</b> 30 IN	<b>Planting Date:</b> 5-5-15 <b>Planting Method:</b> SEEDED

<b>Pest 1 Type:</b> W <b>Code:</b> SETFA Setaria faberi Herrm. <b>Common Name:</b> foxtail, giant  <b>Pest 2 Type:</b> W <b>Code:</b> AMBTR Ambrosia trifida L. <b>Common Name:</b> ragweed, giant  <b>Pest 3 Type:</b> W <b>Code:</b> AMATA Amaranthus rudis Sauer <b>Common Name:</b> waterhemp, common  <b>Pest 4 Type:</b> W <b>Code:</b> ABUTH Abutilon theophrasti Medik. <b>Common Name:</b> velvetleaf	<b>Pest Description</b>
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<b>Treated Plot Width:</b> 7.5 FT <b>Total Plot Width:</b> 10 FT <b>Treated Plot Length:</b> 27 FT <b>Total Plot Length:</b> 27 FT <b>Replications:</b> 4 <b>Untreated Arrangement:</b> INCLUDED single control randomized in each block	<b>Site and Design</b>						
	<b>Site Type:</b> FIELD <b>Experimental Unit:</b> 1 PLOT <b>Tillage Type:</b> REDTIL reduced-till <b>Study Design:</b> RACOB� Randomized Complete Block (RCB)						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 45%;">Previous Crop</th> <th style="width: 50%;">Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;">ZEAMD</td> <td style="text-align: center;">2014</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	ZEAMD	2014	
No.	Previous Crop	Year					
1.	ZEAMD	2014					

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

<b>Description Name:</b> 01_2013 <b>% OM:</b> 2.5 <b>Texture:</b> SIL silt loam <b>pH:</b> 6 <b>Soil Name:</b> Winfield <b>CEC:</b> 6	<b>Soil Description</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Element</th> <th style="width: 35%;">Quantity</th> <th style="width: 50%;">Unit</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">P1</td> <td style="text-align: center;">58</td> <td style="text-align: center;">lb/A</td> </tr> <tr> <td style="text-align: center;">K</td> <td style="text-align: center;">286</td> <td style="text-align: center;">lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	58	lb/A	K	286	lb/A	<b>Additional Measured Elements</b>
Element	Quantity	Unit								
P1	58	lb/A								
K	286	lb/A								

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Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL						Moisture and Weather Conditions 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					7	DAY	64	88	F
47.	8-5-15	2.25	IN	RAIN	rain	1	DAY			
48.	8-9-15	0.47	IN	RAIN	rain	1	DAY			
49.	8-12-15					7	DAY	63	89	F
50.	8-18-15	2.23	IN	RAIN	rain	2	DAY			
51.	8-19-15					7	DAY	52	82	F
52.	8-22-15	0.18	IN	RAIN	rain	1	DAY			

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53.	8-26-15					7	DAY	54	91	F
54.	9-2-15					7	DAY	68	94	F
55.	9-8-15	1.93	IN	RAIN	rain	2	DAY			
56.	9-9-15					7	DAY	47	83	F
57.	9-11-15	0.4	IN	RAIN	rain	1	DAY			
58.	9-16-15					7	DAY	51	90	F
59.	9-19-15	0.14	IN	RAIN	rain	1	DAY			
60.	9-23-15					7	DAY	54	85	F
61.	9-28-15	0.13	IN	RAIN	rain	1	DAY			

**Application Description**

	A	B	C
<b>Application Date:</b>	5-7-15	5-21-15	5-29-15
<b>Appl. Start Time:</b>	8:15	14:00	7:00
<b>Appl. Stop Time:</b>	8:45	14:30	7:30
<b>Application Method:</b>	Spray	Spray	Spray
<b>Application Timing:</b>	PRE	V2	V4
<b>Application Placement:</b>	BROSOI	BROFOL	BROFOL
<b>Applied By:</b>	LXF	RFK	RFK
<b>Air Temperature, Unit:</b>	77 F	61 F	74 F
<b>% Relative Humidity:</b>	58	52	90
<b>Wind Velocity, Unit:</b>	4 MPH	1 MPH	1 MPH
<b>Wind Direction:</b>	S	NW	SE
<b>Dew Presence (Y/N):</b>	N	N	N
<b>Soil Temperature, Unit:</b>	63 F	62 F	70 F
<b>Soil Moisture:</b>	NORMAL	ABONOR	ABONOR
<b>% Cloud Cover:</b>	15	25	100
<b>Next Moisture Occurred On:</b>	5-8-15	5-24-15	5-29-15
<b>Time to Next Moisture, Unit:</b>	24 HR	3 DAY	6 HR

**Crop Stage At Each Application**

	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMD	ZEAMD	ZEAMD
<b>Stage Scale Used:</b>	DESC	DESC	DESC
<b>Stage Majority, Percent:</b>	NA	V2	V4
<b>Stage Minimum, Percent:</b>		V2	V4
<b>Stage Maximum, Percent:</b>		V2	V4
<b>Height, Unit:</b>		4 IN	8 IN
<b>Height Minimum, Maximum:</b>		3 4	6 8

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Pest Stage At Each Application			
	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>	NA	2	NA
<b>Stage Minimum, Percent:</b>		COTY	
<b>Stage Maximum, Percent:</b>		2	
<b>Height, Unit:</b>		1 IN	
<b>Height Minimum, Maximum:</b>		0.25 1	
<b>Density, Unit:</b>		0.1 FT2	
<b>Pest 2 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	NA	6	2
<b>Stage Minimum, Percent:</b>		5	2
<b>Stage Maximum, Percent:</b>		6	3
<b>Height, Unit:</b>		2 IN	1 IN
<b>Height Minimum, Maximum:</b>		1 2	0.25 1
<b>Density, Unit:</b>		3 FT2	0.01 FT2
<b>Pest 3 Code, Type, Scale:</b>	AMATA W	AMATA W	AMATA W
<b>Stage Majority, Percent:</b>	NA	4	2
<b>Stage Minimum, Percent:</b>		2	1
<b>Stage Maximum, Percent:</b>		4	2
<b>Height, Unit:</b>		0.5 IN	0.5 IN
<b>Height Minimum, Maximum:</b>		0.25 0.5	0.25 0.5
<b>Density, Unit:</b>		1 FT2	0.001 FT2
<b>Pest 4 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Stage Majority, Percent:</b>	NA	4	2
<b>Stage Minimum, Percent:</b>		2	1
<b>Stage Maximum, Percent:</b>		4	2
<b>Height, Unit:</b>		1 IN	0.5 IN
<b>Height Minimum, Maximum:</b>		0.25 1	0.25 0.5
<b>Density, Unit:</b>		3 FT2	0.01 FT2

Application Equipment			
	A	B	C
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Equipment Type:</b>	BACSPR	BACSPR	BACSPR
<b>Operation Pressure, Unit:</b>	30 PSI	30 PSI	30 PSI
<b>Nozzle Type:</b>	XR	XR	XR
<b>Nozzle Size:</b>	8002	8002	8002
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 10-7-15 Moisture Percent	ZEAMD 10-7-15 Test wt. lb/bu	ZEAMD 10-7-15 Yield bu/A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
1	NONTREATED								9.5 b 38.7 a 27 d	
2	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.8 a 56.9 a 152 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
3	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.5 a 57.1 a 166 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
4	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.6 a 57.0 a 170 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	DIFLEXX	4	SC	0.313	lb ae/a	10	fl oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
5	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.3 a 57.2 a 182 a
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4	C	
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
6	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.4 a 57.1 a 152 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
7	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.4 a 57.2 a 164 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
8	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	17.3 a 57.2 a 146 bc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C	
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V4	C	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C	
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	17.2 a 57.2 a 144 c
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	V2	B	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B	
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	17.1 a 57.4 a 169 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	V2	B	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B	
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B	
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	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 10,15,20,25,11,16,21,26,18,23,28,19 because error mean square = 0.

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Pest Code								ZEAMD	ZEAMD	ZEAMD		
Crop Code								10-7-15	10-7-15	10-7-15		
Rating Date								Moisture	Test wt.	Yield		
Rating Type								Percent	lb/bu	bu/A		
Rating Unit												
Rating Timing												
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
11	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a		V2	B	17.4 a	57.1 a	176 ab
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B			
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B			
12	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a		V2	B	17.1 a	57.3 a	158 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B			
	DIFLEXX	4	SC	0.25	lb ae/a	8 fl oz/a		V2	B			
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B			
13	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32 fl oz/a		V2	B	17.1 a	57.1 a	164 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B			
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B			
14	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40 fl oz/a		V2	B	17.0 a	57.3 a	159 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B			
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B			
15	HALEX GT	4.389	CS	1.98	lb ai/a	3.6 pt/a		V2	B	17.0 a	57.3 a	163 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B			
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v		V2	B			
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B			
LSD P=.05								3.33	12.78	31.3		
Standard Deviation								2.29	8.81	21.6		
CV								13.69	15.75	14.13		
Replicate F								0.585	0.679	1.268		
Replicate Prob(F)								0.6299	0.5726	0.3052		
Treatment F								3.079	1.168	11.347		
Treatment Prob(F)								0.0059	0.3512	0.0001		

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 5-28-15 Injury Percent 14 DAE 7 DA-B	ZEAMD 6-4-15 Injury Percent 7 DA-C 14 DA-B	ZEAMD 6-11-15 Injury Percent 28 DAE 14 DA-C	ZEAMD Injury Percent 28 DA-C 28 DA-B				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Unit Unit	Growth Stage	Appl Code				
1	NONTREATED										0	0	0	0
2	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
3	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
4	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	DIFLEXX	4	SC	0.313	lb ae/a	10	fl oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
5	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4	C					
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
6	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
7	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
8	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C					
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V4	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C					
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B					
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B		0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B					
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B					

Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 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								ZEAMD 5-28-15 Injury Percent 14 DAE 7 DA-B	ZEAMD 6-4-15 Injury Percent 7 DA-C 14 DA-B	ZEAMD 6-11-15 Injury Percent 28 DAE 14 DA-C	ZEAMD Injury Percent 28 DA-C 28 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
11	LAUDIS	3.5	SC	0.082 lb ai/a		3 fl oz/a	V2	B	0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v		5 % v/v	V2	B				
12	LAUDIS	3.5	SC	0.082 lb ai/a		3 fl oz/a	V2	B	0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25 lb ae/a		8 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v		5 % v/v	V2	B				
13	LAUDIS FLEXX	1.53	SC	0.383 lb ai/a		32 fl oz/a	V2	B	0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v		5 % v/v	V2	B				
14	LAUDIS FLEXX	1.53	SC	0.48 lb ai/a		40 fl oz/a	V2	B	0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v		5 % v/v	V2	B				
15	HALEX GT	4.389	CS	1.98 lb ai/a		3.6 pt/a	V2	B	0 a	0 a	0 a	0 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a	V2	B				
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v		0.25 % v/v	V2	B				
	N-PAK AMS	100	SL	5 % v/v		5 % v/v	V2	B				
LSD P=.05												
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



## Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 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			
							5-28-15 Control Percent 14 DAE 7 DA-B	6-4-15 Control Percent 7 DA-C 14 DA-B	6-11-15 Control Percent 28 DAE 14 DA-C	Control Percent 28 DA-C 28 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
3	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
4	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.313	lb ae/a	10	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
5	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
6	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
7	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
8	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B				
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B				

Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code								SETFA	SETFA	SETFA	SETFA		
Crop Code								5-28-15	6-4-15	6-11-15	Control		
Rating Date								Control	Control	Control	Percent		
Rating Type								14 DAE	7 DA-C	28 DAE	28 DA-C		
Rating Unit								7 DA-B	14 DA-B	14 DA-C	28 DA-B		
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				
11	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				
12	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				
13	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				
14	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				
15	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1	qt/a	V2	B				
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				
LSD P=.05								.	.	.	.	.	.
Standard Deviation								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
Replicate F								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
Treatment F								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

## Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 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	AMBTR	AMBTR	AMBTR	AMBTR			
							5-28-15 Control Percent 14 DAE 7 DA-B	6-4-15 Control Percent 7 DA-C 14 DA-B	6-11-15 Control Percent 28 DAE 14 DA-C	Control Percent 28 DA-C 28 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	94 bcd	99 a	98 ab	98 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
3	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	93 cd	99 a	99 a	95 ab
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
4	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	91 d	99 a	96 ab	93 bc
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.313	lb ae/a	10	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
5	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	92 cd	99 a	97 ab	96 ab
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
6	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	92 cd	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
7	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	98 ab	99 a	99 a	98 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
8	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	90 d	99 a	98 ab	97 ab
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	94 a-d	97 a	91 c	91 c
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B				
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	97 ab	99 a	97 ab	97 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B				

## Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code		AMBTR	AMBTR	AMBTR	AMBTR						
Crop Code											
Rating Date		5-28-15	6-4-15	6-11-15							
Rating Type		Control	Control	Control	Control						
Rating Unit		Percent	Percent	Percent	Percent						
Rating Timing		14 DAE	7 DA-C	28 DAE	28 DA-C						
Trt-Eval Interval		7 DA-B	14 DA-B	14 DA-C	28 DA-B						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage	Appl Code				
11	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a	V2	B	94 a-d	98 a	95 bc	95 abc
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	V2	B				
12	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a	V2	B	97 ab	99 a	96 ab	96 ab
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25 lb ae/a	8 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	V2	B				
13	LAUDIS FLEXX	1.53	SC	0.383 lb ai/a	32 fl oz/a	V2	B	98 a	99 a	97 ab	97 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	V2	B				
14	LAUDIS FLEXX	1.53	SC	0.48 lb ai/a	40 fl oz/a	V2	B	97 ab	99 a	97 ab	97 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	V2	B				
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	V2	B				
15	HALEX GT	4.389	CS	1.98 lb ai/a	3.6 pt/a	V2	B	96 abc	98 a	96 ab	96 ab
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a	V2	B				
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	V2	B				
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	V2	B				
LSD P=.05								4.2	1.4	3.9	4.0
Standard Deviation								3.0	1.0	2.7	2.8
CV								3.13	1.0	2.82	2.95
Replicate F								2.763	1.236	5.810	5.296
Replicate Prob(F)								0.0548	0.3097	0.0022	0.0037
Treatment F								3.123	1.525	2.506	2.236
Treatment Prob(F)								0.0029	0.1521	0.0134	0.0264

Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 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			
							5-28-15 Control Percent 14 DAE 7 DA-B	6-4-15 Control Percent 7 DA-C 14 DA-B	6-11-15 Control Percent 28 DAE 14 DA-C	Control Percent 28 DA-C 28 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
3	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
4	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.313	lb ae/a	10	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
5	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
6	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
7	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
8	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V4	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V4	C				
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B				
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1	qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2	B				

Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 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						
							5-28-15 Control Percent 14 DAE 7 DA-B	6-4-15 Control Percent 7 DA-C 14 DA-B	6-11-15 Control Percent 28 DAE 14 DA-C	Control Percent 28 DA-C 28 DA-B						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code					
11	LAUDIS	3.5	SC	0.082	lb ai/a		3 fl oz/a			V2	B	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a			V2	B					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a		32 fl oz/a			V2	B					
	N-PAK AMS	100	SL		5 % v/v		5 % v/v			V2	B					
12	LAUDIS	3.5	SC	0.082	lb ai/a		3 fl oz/a			V2	B	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a			V2	B					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a		32 fl oz/a			V2	B					
	DIFLEXX	4	SC	0.25	lb ae/a		8 fl oz/a			V2	B					
	N-PAK AMS	100	SL		5 % v/v		5 % v/v			V2	B					
13	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a		32 fl oz/a			V2	B	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a			V2	B					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a		32 fl oz/a			V2	B					
	N-PAK AMS	100	SL		5 % v/v		5 % v/v			V2	B					
14	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a		40 fl oz/a			V2	B	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a			V2	B					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a		32 fl oz/a			V2	B					
	N-PAK AMS	100	SL		5 % v/v		5 % v/v			V2	B					
15	HALEX GT	4.389	CS	1.98	lb ai/a		3.6 pt/a			V2	B	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a			V2	B					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v		0.25 % v/v			V2	B					
	N-PAK AMS	100	SL		5 % v/v		5 % v/v			V2	B					
LSD P=.05							0.2									
Standard Deviation							0.1	0.0	0.0	0.0						
CV							0.14	0.0	0.0	0.0						
Replicate F							1.000	0.000	0.000	0.000						
Replicate Prob(F)							0.4031	1.0000	1.0000	1.0000						
Treatment F							1.000	0.000	0.000	0.000						
Treatment Prob(F)							0.4697	1.0000	1.0000	1.0000						

## Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code	ABUTH	ABUTH	ABUTH	ABUTH									
Crop Code													
Rating Date	5-28-15	6-4-15	6-11-15										
Rating Type	Control	Control	Control	Control									
Rating Unit	Percent	Percent	Percent	Percent									
Rating Timing	14 DAE	7 DA-C	28 DAE	28 DA-C									
Trt-Eval Interval	7 DA-B	14 DA-B	14 DA-C	28 DA-B									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	93 abc	93 a-d
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
3	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	89 c	87 d
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
4	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	91 bc	91 cd
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.313	lb ae/a	10	fl oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
5	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	98 a	99 a	99 a	99 ab
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4	C				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
6	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	98 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32	fl oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
7	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	99 a	99 ab
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40	fl oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
8	CORVUS	2.63	SC	0.068	lb ai/a	3.3	fl oz/a	PRE	A	99 a	99 a	92 bc	92 bcd
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	PRE	A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V4	C				
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V4	C				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V4	C				
9	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	95 abc	95 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				
10	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2	B	99 a	99 a	94 abc	94 abc
	AATREX 4L	4	SC		1 lb ai/a		1 qt/a	V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	B				
	DIFLEXX	4	SC	0.25	lb ae/a	8	fl oz/a	V2	B				
	N-PAK AMS	100	SL		5 % v/v	5	% v/v	V2	B				

Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 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								ABUTH	ABUTH	ABUTH	ABUTH		
								5-28-15 Control Percent 14 DAE 7 DA-B	6-4-15 Control Percent 7 DA-C 14 DA-B	6-11-15 Control Percent 28 DAE 14 DA-C	Control Percent 28 DA-C 28 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
11	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a		V2	B	99 a	99 a	95 abc	95 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B				
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B				
12	LAUDIS	3.5	SC	0.082	lb ai/a	3 fl oz/a		V2	B	99 a	99 a	91 bc	91 cd
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B				
	DIFLEXX	4	SC	0.25	lb ae/a	8 fl oz/a		V2	B				
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B				
13	LAUDIS FLEXX	1.53	SC	0.383	lb ai/a	32 fl oz/a		V2	B	99 a	99 a	89 bc	89 cd
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B				
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B				
14	LAUDIS FLEXX	1.53	SC	0.48	lb ai/a	40 fl oz/a		V2	B	99 a	99 a	92 bc	92 bcd
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32 fl oz/a		V2	B				
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B				
15	HALEX GT	4.389	CS	1.98	lb ai/a	3.6 pt/a		V2	B	99 a	99 a	96 ab	96 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		V2	B				
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v		V2	B				
	N-PAK AMS	100	SL		5 % v/v	5 % v/v		V2	B				
LSD P=.05								1.1	.	6.6	6.7		
Standard Deviation								0.7	0.0	4.6	4.7		
CV								0.75	0.0	4.94	5.03		
Replicate F								0.555	0.000	8.202	8.204		
Replicate Prob(F)								0.6480	1.0000	0.0002	0.0002		
Treatment F								1.489	0.000	2.283	2.268		
Treatment Prob(F)								0.1655	1.0000	0.0235	0.0243		



Bayer One- and Two-Pass Herbicide Programs in Corn.

Trial ID: 15-1-MMW70 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

## Trial Comments

1. Protocol: Bayer (HP15USABLF).
2. Ratings:
  - CI at 14 and 28 days after corn emergence;
  - CI at 7, 14, and 28 DA-B; and CI at 0, 7, 14, and 28 DA-C.
  - WC at 14 and 28 days after corn emergence;
  - WC at 7, 14, and 28 DA-B; and WC at 0, 7, 14, and 28 DA-C.
  - Rate before spray at each POST timing.
  - Rate each POST timing on different dates, but record in the same column.
3. Yield.
4. Record percent ground cover of each weed species in each nontreated plot at each evaluation.
5. Applications B and C (V2 and V4) are based on corn stage but do not exceed 3 inch weeds.
6. Photos.
7. Rainfall following the PRE application was 4.09 inch over 4 days beginning 1 day later.  
Rainfall following the V2 application was 3.63 inch over 7 days beginning 3 days later.  
Rainfall following the V4 application was 2.15 inch over 2 days beginning 6 hours later.
8. DAE = Days after crop emergence.  
Ratings on 5-28-15 at 14 DAE were also 7 days after application B (V2) and prior to application C (V4).  
Ratings at 14 DA-B were made on 6-4-15, while ratings for 7 DA-C were made the next day on 6-5-15.  
Ratings at 28 DAE were made on 6-11-15, while ratings for 14 DA-C were made the next day on 6-12-15.  
Ratings at 28 DA-B and 28 DA-C were made on 6-18-15 and 6-26-15, respectively.
9. Percent ground cover in nontreated plots was;

Plot	14 DAE + 7 DA-B				14 DA-B + 7 DA-C				28 DAE + 14 DA-C			
	SETFA	AMBTR	AMATA	ABUTH	SETFA	AMBTR	AMATA	ABUTH	SETFA	AMBTR	AMATA	ABUTH
101	25	10	25	10	25	10	50	10	25	10	50	10
212	10	25	25	25	10	25	80	25	10	25	80	25
309	10	10	10	50	10	25	25	50	10	25	25	50
404	2	10	2	10	2	10	10	10	2	10	10	10

Plot	28 DA-B				28 DA-C			
	SETFA	AMBTR	AMATA	ABUTH	SETFA	AMBTR	AMATA	ABUTH
101	25	25	50	10	25	25	50	10
212	10	50	80	25	10	50	80	25
309	10	50	25	50	10	50	25	50
404	2	25	10	10	2	25	10	10

10. Harvested 10-7-15, (2) 30 inch rows by 24 ft.