

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

<p>Trial Status: F one-year/final Initiation Date: 5-29-16 Completion Date: 10-5-16</p>	Trial Location
<p>City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221</p>	

<p>Objectives: Demonstrate Bayer corn herbicide programs for weed control in corn.</p>
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<p>Study Director: Karla Gage, Ph.D. Title: Assistant Professor of Weed Science Organization: Southern Illinois University Carbondale Address: 1205 Lincoln Drive MC 4415 Phone No.: 618-453-7679 City+State/Prov: Carbondale, IL Postal Code: 62901 E-mail: kgage@siu.edu Country: USA</p>	Contacts
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<p>Crop 1: ZEAMD Zea mays indentata Dent corn Variety: DKC 63-33 BBCH Scale: BCOR Description: SS RIB</p>	Crop Description
<p>Planting Rate, Unit: 32000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN</p>	<p>Planting Date: 5-29-16 Planting Method: SEEDED</p>

<p>Pest 1 Type: W Code: PANDI Panicum dichotomiflorum Michx. Common Name: panicum, fall</p> <p>Pest 2 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant</p> <p>Pest 3 Type: W Code: ABUTH Abutilon theophrasti Medik. Common Name: velvetleaf</p> <p>Pest 4 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common</p> <p>Pest 5 Type: W Code: XANST Xanthium strumarium L. Common Name: cocklebur, common</p> <p>Pest 6 Type: W Code: IPOSS Common Name: morningglory, species</p>	Pest Description
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<p>Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT</p> <p>Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block</p>	Site and Design						
	<p>Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOBL Randomized Complete Block (RCB)</p>						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 45%;">Previous Crop</th> <th style="width: 50%;">Year</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>GLXMA</td> <td style="text-align: center;">2015</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	GLXMA	2015
No.	Previous Crop	Year					
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 95%;">Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>N 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	Maintenance
No.	Maintenance Product Name				
1.	N 150 LB/A, P2O5 50 LB/A, K2O 150 LB/A				

<p>Description Name: 21M_2013 % OM: 3.4 Texture: SIL silt loam pH: 6.5 Soil Name: Bethalto CEC: 12</p>	Soil Description
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Bayer Corn Herbicide Demonstration.

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Additional Measured Elements

Element	Quantity	Unit
P1	71	lb/A
K	297	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.	4-1-16					7	DAY	32	75	F
2.	4-6-16	0.49	IN	RAIN	rain	1	DAY			
3.	4-8-16					7	DAY	28	71	F
4.	4-10-16	0.97	IN	RAIN	rain	2	DAY			
5.	4-15-16					7	DAY	48	81	F
6.	4-20-16	0.45	IN	RAIN	rain	3	DAY			
7.	4-22-16					7	DAY	47	85	F
8.	4-26-16	1.74	IN	RAIN	rain	2	DAY			
9.	4-29-16					7	DAY	46	75	F
10.	4-29-16	1.94	IN	RAIN	rain	2	DAY			
11.	5-4-16	0.02	IN	RAIN	rain	1	DAY			
12.	5-6-16					7	DAY	44	87	F
13.	5-7-16	0.07	IN	RAIN	rain	1	DAY			
14.	5-9-16	2.12	IN	RAIN	rain	5	DAY			
15.	5-13-16					7	DAY	41	76	F
16.	5-16-16	1.06	IN	RAIN	rain	2	DAY			
17.	5-20-16					7	DAY	51	83	F
18.	5-20-16	0.06	IN	RAIN	rain	1	DAY			
19.	5-25-16	0.68	IN	RAIN	rain	3	DAY			
20.	5-27-16					7	DAY	62	88	F
21.	5-31-16	0.03	IN	RAIN	rain	2	DAY			
22.	6-3-16					7	DAY	55	89	F
23.	6-3-16	0.01	IN	RAIN	rain	1	DAY			
24.	6-4-16	0.72	IN	RAIN	rain	1	DAY			
25.	6-10-16					7	DAY	65	96	F
26.	6-13-16	0.03	IN	RAIN	rain	1	DAY			
27.	6-17-16					7	DAY	67	97	F
28.	6-21-16	0.01	IN	RAIN	rain	1	DAY			
29.	6-24-16					7	DAY	57	95	F
30.	6-25-16	0.02	IN	RAIN	rain	1	DAY			
31.	6-30-16	0.03	IN	RAIN	rain	1	DAY			
32.	7-1-16					7	DAY	60	91	F
33.	7-1-16	2.26	IN	RAIN	rain	4	DAY			
34.	7-6-16	0.32	IN	RAIN	rain	3	DAY			
35.	7-8-16					7	DAY	67	93	F
36.	7-13-16	0.49	IN	RAIN	rain	2	DAY			
37.	7-15-16					7	DAY	68	93	F
38.	7-17-16	0.02	IN	RAIN	rain	1	DAY			
39.	7-19-16	1.47	IN	RAIN	rain	2	DAY			
40.	7-22-16					7	DAY	72	94	F
41.	7-25-16	0.1	IN	RAIN	rain	1	DAY			
42.	7-29-16					7	DAY	69	91	F
43.	7-31-16	0.52	IN	RAIN	rain	3	DAY			
44.	8-3-16	0.75	IN	RAIN	rain	1	DAY			
45.	8-5-16					7	DAY	66	93	F
46.	8-5-16	0.06	IN	RAIN	rain	1	DAY			
47.	8-12-16					7	DAY	68	91	F
48.	8-12-16	4.85	IN	RAIN	rain	5	DAY			
49.	8-19-16					7	DAY	57	93	F

Comment:

Rainfall was recorded on station and provided by Illinois Climate Network.
Air temperature was recorded at Scott Air Force Base 2.5 miles north and provided by NOAA's National Centers for Environmental Information.
Air temperatures given are summarized as weekly high and low, detailed weather data is available on request.

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Application Description

	A	B	C
Application Date:	5-30-16	6-6-16	6-17-16
Appl. Start Time:	17:00	6:30	8:25
Appl. Stop Time:	17:30	6:45	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	V1-V2	V4-V5
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	RLS	KNW	RLS
Air Temperature, Unit:	81 F	71 F	76 F
% Relative Humidity:	69	68	71
Wind Velocity, Unit:	2 MPH	5 MPH	5 MPH
Wind Direction:	SE	WSW	NNE
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	73 F	71 F	80 F
Soil Moisture:	NORMAL	NORMAL	BELNOR
% Cloud Cover:	25	0	10
Next Moisture Occurred On:	6-4-16	6-30-16	6-30-16
Time to Next Moisture, Unit:	5 DAY	24 DAY	13 DAY

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD	ZEAMD	ZEAMD
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V1	V5
Stage Minimum, Percent:		V1	V4
Stage Maximum, Percent:		V1	V5
Height, Unit:		3 IN	14 IN
Height Minimum, Maximum:		2 3	11 14

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Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	NA	NA	4
Stage Minimum, Percent:			3
Stage Maximum, Percent:			4
Height, Unit:			1 IN
Height Minimum, Maximum:			0.5 2
Density, Unit:			0.01 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	2	4
Stage Minimum, Percent:		2	2
Stage Maximum, Percent:		4	6
Height, Unit:		1 IN	1 IN
Height Minimum, Maximum:		0.5 1.5	0.5 2
Density, Unit:		2 FT2	0.3 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	2	6
Stage Minimum, Percent:		2	2
Stage Maximum, Percent:		4	6
Height, Unit:		0.5 IN	2 IN
Height Minimum, Maximum:		0.5 1	1 4
Density, Unit:		0.5 FT2	0.05 FT2
Pest 4 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	NA	NA
Pest 5 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	NA	NA	4
Stage Minimum, Percent:			2
Stage Maximum, Percent:			6
Height, Unit:			1 IN
Height Minimum, Maximum:			1 2
Density, Unit:			0.02 FT2
Pest 6 Code, Type, Scale:	IPOSS W	IPOSS W	IPOSS W
Stage Majority, Percent:	NA	2	4
Stage Minimum, Percent:		2	2
Stage Maximum, Percent:		4	4
Height, Unit:		0.5 IN	1.5 IN
Height Minimum, Maximum:		0.5 1	0.5 2
Density, Unit:		0.2 FT2	0.1 FT2

Application Equipment			
	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	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 10-5-16 Moisture Percent	ZEAMD 10-5-16 Test wt. lb/bu	ZEAMD 10-5-16 Yield bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	NONTREATED								
2	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	CAPRENO	3.45	SC	0.081 lb ai/a		3 fl oz/a		V4-V5	C
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
3	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C
	CAPRENO	3.45	SC	0.081 lb ai/a		3 fl oz/a		V4-V5	C
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
4	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
5	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
6	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C
	LAUDIS	3.5	SC	0.082 lb ai/a		3 fl oz/a		V4-V5	C
	MSO	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
7	BALANCE FLEXX	2	SC	0.0625 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
8	BALANCE FLEXX	2	SC	0.0625 lb ai/a		4 fl oz/a		PRE	A
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C
9	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		V1-V2	B
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		V1-V2	B
	ROUNDUP POWERMAX	4.5	SL	0.42 lb ae/a		12 fl oz/a		V1-V2	B
10	ACURON	3.44	CS	2.15 lb ai/a		2.5 qt/a		PRE	A
11	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		PRE	A
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		V4-V5	C
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C

Means followed by same letter or symbol 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=6,7,33

Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

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Pest Code						ZEAMD		ZEAMD		ZEAMD	
Crop Code						10-5-16		10-5-16		10-5-16	
Rating Date						Moisture		Test wt.		Yield	
Rating Type						Percent		lb/bu		bu/A	
Rating Unit											
Rating Timing											
Trt-Eval Interval											
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code		
12	HALEX GT	4.389	CS	1.65	lb ai/a	3	pt/a	V1-V2	B	16.3 abc	55.4 bc
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B		
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	B		
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V1-V2	B		
LSD P=.05						1.19		0.72		29.0	
Standard Deviation						0.70		0.43		17.2	
CV						4.44		0.76		13.91	
Replicate F						0.042		0.044		2.494	
Replicate Prob(F)						0.9586		0.9568		0.1056	
Treatment F						2.865		2.589		12.912	
Treatment Prob(F)						0.0197		0.0311		0.0001	

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 Missing data estimates are included in columns: Average=6,7,33
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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 6-16-16 Injury Percent	ZEAMD 6-16-16 Injury Percent -1 DA-C	ZEAMD 6-24-16 Injury Percent	ZEAMD 7-15-16 Injury Percent 39 DA-B	ZEAMD 8-1-16 Injury Percent 56 DA-B 45 DA-C			
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	0
2	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		0 a	1 b	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4-V5	C					
	COC	100	SL	1	% v/v	1	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
3	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		0 a	12 a	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C					
	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4-V5	C					
	COC	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
4	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		0 a	0 b	2 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C					
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C					
	COC	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
5	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		0 a	0 b	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C					
	COC	100	SL	1	% v/v	1	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
6	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		0 a	0 b	0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C					
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4-V5	C					
	MSO	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
7	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A		0 a	0 b	1 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C					
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C					
	COC	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
8	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A		0 a	0 b	1 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A					
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C					
	COC	100	SL	1	% v/v	1	% v/v	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					
9	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	V1-V2	B		0 a		0 a	0 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B					
	ROUNDUP POWERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	B					
10	ACURON	3.44	CS	2.15	lb ai/a	2.5	qt/a	PRE	A		0 a		0 a	0 a
11	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A		0 a	0 b	0 a	0 a
	DURANGO DMA	4	SL	0.75	lb ae/a	1.5	pt/a	V4-V5	C					
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	PANDI	PANDI	PANDI	PANDI	PANDI	
							6-16-16 Control Percent	6-16-16 Control Percent	6-24-16 Control Percent	7-15-16 Control Percent	8-1-16 Control Percent	
							10 DA-B	-1 DA-C 17 DA-A	7 DA-C	39 DA-B 28 DA-C	56 DA-B 45 DA-C	
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
2	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	CAPRENO	3.45	SC	0.081 lb ai/a		3 fl oz/a		V4-V5	C			
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
3	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	CAPRENO	3.45	SC	0.081 lb ai/a		3 fl oz/a		V4-V5	C			
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
4	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
5	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A		99 a	98 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
6	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	LAUDIS	3.5	SC	0.082 lb ai/a		3 fl oz/a		V4-V5	C			
	MSO	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
7	BALANCE FLEXX	2	SC	0.0625 lb ai/a		4 fl oz/a		PRE	A		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
8	BALANCE FLEXX	2	SC	0.0625 lb ai/a		4 fl oz/a		PRE	A		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
9	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		V1-V2	B	99 a		50 b
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		V1-V2	B			75 b
	ROUNDUP POWERMAX	4.5	SL	0.42 lb ae/a		12 fl oz/a		V1-V2	B			
10	ACURON	3.44	CS	2.15 lb ai/a		2.5 qt/a		PRE	A		99 a	99 a
11	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		PRE	A		99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			

Means followed by same letter or symbol 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=6,7,33

Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

							PANDI	PANDI	PANDI	PANDI	PANDI
							6-16-16	6-16-16	6-24-16	7-15-16	8-1-16
							Control	Control	Control	Control	Control
							Percent	Percent	Percent	Percent	Percent
								-1 DA-C	7 DA-C	39 DA-B	56 DA-B
							10 DA-B	17 DA-A	7 DA-C	28 DA-C	45 DA-C
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
12	HALEX GT	4.389	CS	1.65	lb ai/a	3	pt/a	V1-V2	B	99 a	96 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B		95 a
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	B		
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V1-V2	B		
LSD P=.05							1.4	0.6	0.5	13.8	11.1
Standard Deviation							0.4	0.4	0.3	8.1	6.5
CV							0.41	0.36	0.28	8.63	6.78
Replicate F							1.000	0.000	1.615	0.780	0.767
Replicate Prob(F)							0.5000	1.0000	0.2338	0.4717	0.4776
Treatment F							1.000	0.667	2.385	9.763	3.709
Treatment Prob(F)							0.4226	0.7133	0.0788	0.0001	0.0061

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
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 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	
							6-16-16 Control Percent	6-16-16 Control Percent	6-24-16 Control Percent	7-15-16 Control Percent	8-1-16 Control Percent	
							10 DA-B	-1 DA-C 17 DA-A	7 DA-C	39 DA-B 28 DA-C	56 DA-B 45 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code				
1	NONTREATED								0	0	0	0
2	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		96 a	98 a	98 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
3	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		93 a	99 a	98 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
4	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		94 a	99 a	98 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
5	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		94 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
6	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		92 a	99 a	97 ab
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V4-V5	C				
	MSO	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
7	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A		93 a	98 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
8	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A		92 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
9	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		V1-V2	B	92 a		53 c	40 d
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		V1-V2	B				
	ROUNDUP POWERMAX	4.5	SL	0.42 lb ae/a	12 fl oz/a		V1-V2	B				
10	ACURON	3.44	CS	2.15 lb ai/a	2.5 qt/a		PRE	A		93 a	85 b	83 b
11	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		PRE	A		94 a	99 a	97 ab
	DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code						AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code						6-16-16	6-16-16	6-24-16	7-15-16	8-1-16
Rating Date						Control	Control	Control	Control	Control
Rating Type						Percent	Percent	Percent	Percent	Percent
Rating Unit							-1 DA-C	7 DA-C	39 DA-B	56 DA-B
Rating Timing							17 DA-A		28 DA-C	45 DA-C
Trt-Eval Interval						10 DA-B				
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Stage	Appl Code	
12	HALEX GT	4.389	CS	1.65	lb ai/a	3	pt/a	V1-V2	B	95 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B	55 c
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	B	50 c
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V1-V2	B	
LSD P=.05						7.2	6.8	1.5	12.2	7.4
Standard Deviation						2.0	3.9	0.8	7.1	4.3
CV						2.19	4.21	0.86	8.04	4.98
Replicate F						1.000	2.129	2.256	0.610	1.513
Replicate Prob(F)						0.5000	0.1515	0.1415	0.5529	0.2443
Treatment F						4.000	0.383	0.851	18.251	73.009
Treatment Prob(F)						0.1835	0.9142	0.5652	0.0001	0.0001

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	
							6-16-16 Control Percent	6-16-16 Control Percent	6-24-16 Control Percent	7-15-16 Control Percent	8-1-16 Control Percent	
							10 DA-B	-1 DA-C 17 DA-A	7 DA-C	39 DA-B 28 DA-C	56 DA-B 45 DA-C	
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
2	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4-V5	C			
	COC	100	SL	1	% v/v	1	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
3	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C			
	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V4-V5	C			
	COC	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
4	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C			
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C			
	COC	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
5	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C			
	COC	100	SL	1	% v/v	1	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
6	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	PRE	A		98 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C			
	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V4-V5	C			
	MSO	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
7	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A		99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	V4-V5	C			
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C			
	COC	100	SL	0.5	% v/v	0.5	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
8	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A		98 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V4-V5	C			
	COC	100	SL	1	% v/v	1	% v/v	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			
9	CORVUS	2.63	SC	0.082	lb ai/a	4	fl oz/a	V1-V2	B	99 a		99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B			
	ROUNDUP POWERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	B			
10	ACURON	3.44	CS	2.15	lb ai/a	2.5	qt/a	PRE	A		99 a	99 a
11	SURESTART	4.25	SE	1.06	lb ai/a	2	pt/a	PRE	A		96 a	99 a
	DURANGO DMA	4	SL	0.75	lb ae/a	1.5	pt/a	V4-V5	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V4-V5	C			

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code						ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code						6-16-16	6-16-16	6-24-16	7-15-16	8-1-16
Rating Date						Control	Control	Control	Control	Control
Rating Type						Percent	Percent	Percent	Percent	Percent
Rating Unit							-1 DA-C		39 DA-B	56 DA-B
Rating Timing							17 DA-A	7 DA-C	28 DA-C	45 DA-C
Trt-Eval Interval						10 DA-B				
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Stage	Appl Code	
12	HALEX GT	4.389	CS	1.65	lb ai/a	3	pt/a	V1-V2	B	97 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B	
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	B	
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V1-V2	B	
	LSD P=.05					5.2	3.3			2.7
	Standard Deviation					1.5	1.9	0.0		1.6
	CV					1.5	1.94	0.0		1.62
	Replicate F					1.000	0.497	0.000		1.078
	Replicate Prob(F)					0.5000	0.6172	1.0000		0.3592
	Treatment F					1.923	0.947	0.000		0.915
	Treatment Prob(F)					0.2999	0.5073	1.0000		0.5389
										4.7
										2.8
										2.83
										1.987
										0.1632
										0.973
										0.4951

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA	AMATA	AMATA	AMATA	AMATA	
							6-16-16 Control Percent	6-16-16 Control Percent	6-24-16 Control Percent	7-15-16 Control Percent	8-1-16 Control Percent	
							10 DA-B	-1 DA-C 17 DA-A	7 DA-C	39 DA-B 28 DA-C	56 DA-B 45 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code			
1	NONTREATED									0	0	0
2	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		98 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
3	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
4	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
5	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
6	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V4-V5	C				
	MSO	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
7	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
8	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
9	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		V1-V2	B	99 a		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		V1-V2	B				
	ROUNDUP POWERMAX	4.5	SL	0.42 lb ae/a	12 fl oz/a		V1-V2	B				
10	ACURON	3.44	CS	2.15 lb ai/a	2.5 qt/a		PRE	A		99 a		99 a
11	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		PRE	A		99 a	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code								AMATA	AMATA	AMATA	AMATA	AMATA	
Crop Code								6-16-16	6-16-16	6-24-16	7-15-16	8-1-16	
Rating Date								Control	Control	Control	Control	Control	
Rating Type								Percent	Percent	Percent	Percent	Percent	
Rating Unit								-1 DA-C	-1 DA-C	7 DA-C	39 DA-B	56 DA-B	
Rating Timing								10 DA-B	17 DA-A	7 DA-C	28 DA-C	45 DA-C	
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
12	HALEX GT	4.389	CS	1.65	lb ai/a	3	pt/a	V1-V2	B	99 a		99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B				
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	B				
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V1-V2	B				
LSD P=.05											1.3	0.4	0.3
Standard Deviation										0.0	0.8	0.2	0.2
CV										0.0	0.78	0.21	0.18
Replicate F										0.000	1.563	1.000	1.000
Replicate Prob(F)										1.0000	0.2400	0.3927	0.3855
Treatment F										0.000	1.000	1.000	1.000
Treatment Prob(F)										1.0000	0.4726	0.4706	0.4755

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 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	XANST	XANST	XANST	XANST	XANST	
							6-16-16 Control Percent	6-16-16 Control Percent	6-24-16 Control Percent	7-15-16 Control Percent	8-1-16 Control Percent	
							10 DA-B	-1 DA-C 17 DA-A	7 DA-C	39 DA-B 28 DA-C	56 DA-B 45 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code				
1	NONTREATED								0	0	0	0
2	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		98 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				98 b
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
3	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		96 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	CAPRENO	3.45	SC	0.081 lb ai/a	3 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
4	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
5	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
6	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	LAUDIS	3.5	SC	0.082 lb ai/a	3 fl oz/a		V4-V5	C				
	MSO	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
7	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		V4-V5	C				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	0.5 % v/v	0.5 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
8	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A		99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		PRE	A				
	DIFLEXX DUO	100	SC	32 fl oz/a	32 fl oz/a		V4-V5	C				
	COC	100	SL	1 % v/v	1 % v/v		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				
9	CORVUS	2.63	SC	0.082 lb ai/a	4 fl oz/a		V1-V2	B	98 a		99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	2 pt/a		V1-V2	B				
	ROUNDUP POWERMAX	4.5	SL	0.42 lb ae/a	12 fl oz/a		V1-V2	B				
10	ACURON	3.44	CS	2.15 lb ai/a	2.5 qt/a		PRE	A		99 a		99 a
11	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a		PRE	A		99 a	99 a	99 a
	DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a		V4-V5	C				
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V4-V5	C				

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Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	XANST											
Crop Code	XANST											
Rating Date	6-16-16	6-16-16	6-24-16	7-15-16	8-1-16							
Rating Type	Control	Control	Control	Control	Control							
Rating Unit	Percent	Percent	Percent	Percent	Percent							
Rating Timing	-1 DA-C	-1 DA-C	7 DA-C	39 DA-B	56 DA-B							
Trt-Eval Interval	10 DA-B	17 DA-A	7 DA-C	28 DA-C	45 DA-C							
Trt. Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
12 HALEX GT	4.389	CS	1.65 lb ai/a	3 pt/a		V1-V2	B	99 a			99 a	99 a
AATREX 4L	4	SC	1 lb ai/a	2 pt/a		V1-V2	B					
NIS	100	SL	0.25 % v/v	0.25 % v/v		V1-V2	B					
AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V1-V2	B					
LSD P=.05	4.3			3.1							0.3	0.5
Standard Deviation	1.2			1.8						0.0	0.2	0.3
CV	1.25			1.84						0.0	0.18	0.3
Replicate F	2.778			2.068						0.000	0.950	1.000
Replicate Prob(F)	0.2647			0.1589						1.0000	0.4044	0.3855
Treatment F	1.000			0.941						0.000	0.950	3.000
Treatment Prob(F)	0.4226			0.5114						1.0000	0.5132	0.0175

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Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	6-16-16 Control Percent	6-16-16 Control Percent -1 DA-C	6-24-16 Control Percent	7-15-16 Control Percent	8-1-16 Control Percent	
							10 DA-B	17 DA-A	7 DA-C	28 DA-C	45 DA-C	
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
2	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A	95 a	99 a	93 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	CAPRENO	3.45	SC	0.081 lb ai/a		3 fl oz/a		V4-V5	C			
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
3	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A	94 a	99 a	94 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	CAPRENO	3.45	SC	0.081 lb ai/a		3 fl oz/a		V4-V5	C			
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
4	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A	97 a	99 a	95 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
5	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A	96 a	99 a	96 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
6	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		PRE	A	97 a	99 a	95 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	LAUDIS	3.5	SC	0.082 lb ai/a		3 fl oz/a		V4-V5	C			
	MSO	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
7	BALANCE FLEXX	2	SC	0.0625 lb ai/a		4 fl oz/a		PRE	A	92 a	99 a	96 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	LIBERTY 280	2.34	EC	0.53 lb ai/a		29 fl oz/a		V4-V5	C			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	0.5 % v/v		0.5 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
8	BALANCE FLEXX	2	SC	0.0625 lb ai/a		4 fl oz/a		PRE	A	95 a	99 a	93 a
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		PRE	A			
	DIFLEXX DUO	100	SC	32 fl oz/a		32 fl oz/a		V4-V5	C			
	COC	100	SL	1 % v/v		1 % v/v		V4-V5	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			
9	CORVUS	2.63	SC	0.082 lb ai/a		4 fl oz/a		V1-V2	B	90 a		43 b
	AATREX 4L	4	SC	1 lb ai/a		2 pt/a		V1-V2	B			50 b
	ROUNDUP POWERMAX	4.5	SL	0.42 lb ae/a		12 fl oz/a		V1-V2	B			
10	ACURON	3.44	CS	2.15 lb ai/a		2.5 qt/a		PRE	A	95 a		87 a
												89 a
11	SURESTART	4.25	SE	1.06 lb ai/a		2 pt/a		PRE	A	92 a	97 a	88 a
	DURANGO DMA	4	SL	0.75 lb ae/a		1.5 pt/a		V4-V5	C			93 a
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V4-V5	C			

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code										
Crop Code										
Rating Date										
Rating Type										
Rating Unit										
Rating Timing										
Trt-Eval Interval										
Trt. Treatment No. Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
12 HALEX GT	4.389	CS	1.65	lb ai/a	3	pt/a	V1-V2	B	92 a	
AATREX 4L	4	SC	1	lb ai/a	2	pt/a	V1-V2	B		
NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	B		
AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V1-V2	B		
LSD P=.05									7.2	4.7
Standard Deviation									2.0	2.7
CV									2.25	2.89
Replicate F									1.000	0.478
Replicate Prob(F)									0.5000	0.6283
Treatment F									1.000	1.629
Treatment Prob(F)									0.4226	0.1932
										1.220
										0.3247
										1.468
										4.187
										0.140
										27.9
										0.8
										16.4
										19.38
										0.82
										31.7
										18.6
										21.24
										0.071
										0.9314
										2.601
										0.0330

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 Missing data estimates are included in columns: Average=6,7,33
 Could not calculate LSD (% mean diff) for columns 11,10,38,28,22,43,26 because error mean square = 0.

Bayer Corn Herbicide Demonstration.

Trial ID: 16-21M-ME40 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Trial Comments

1. Protocol: Bayer (WMU).
2. Ratings:
CI one rating prior to B at 11-18 DA-A, rate only A; 7-10 DA-B rate only B, 7-10 DA-C rate only C;
20-28 and 40-45 DA-C, rate all plots.
WC one rating prior to B at 11-18 DA-A, rate only A; 7-10 DA-B rate only B, 7-10 DA-C rate only C;
20-28 and 40-45 DA-C, rate all plots.
3. Yield if possible.
4. Consider a blanket POST after last rating if taking to yield.
5. Photos 7-10 DA-C, and 40-45 DA-C with some flexibility.
6. Rainfall following the PRE application A was 0.73 inch over 2 days beginning 5 days later.
Rainfall following the V1-V2 application B was 2.61 inch over 9 days beginning 24 days later.
Rainfall following the V4-V5 application C was 2.61 inch over 9 days beginning 13 days later.
7. Harvested 10-5-16, (2) 30 inch rows by 27 ft.