

Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 Location: Belleville Res. Center Trial Year: 2016  
 Investigator: Karla L. Gage, Ph.D.

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

<p><b>Objectives:</b>                  Showcase preemergence plus postemergence herbicide programs from Dow and AMVAC and others.</p>
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<b>Contacts</b>
<p><b>Study Director:</b> Karla Gage, Ph.D.    <b>Title:</b> Assistant Professor of Weed Science  <b>Organization:</b> Southern Illinois University Carbondale  <b>Address:</b> 1205 Lincoln Drive MC 4415    <b>Phone No.:</b> 618-453-7679  <b>City+State/Prov:</b> Carbondale, IL  <b>Postal Code:</b> 62901    <b>E-mail:</b> kgage@siu.edu  <b>Country:</b> USA</p>

<b>Crop Description</b>
<p><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</p> <p style="text-align: right;"><b>Planting Date:</b> 5-29-16</p> <p><b>Planting Rate, Unit:</b> 32000 S/A    <b>Planting Method:</b> SEEDED  <b>Depth, Unit:</b> 1.5 IN  <b>Row Spacing, Unit:</b> 30 IN</p>

<b>Pest Description</b>
<p><b>Pest 1 Type:</b> W    <b>Code:</b> PANDI Panicum dichotomiflorum Michx.  <b>Common Name:</b> panicum, fall</p> <p><b>Pest 2 Type:</b> W    <b>Code:</b> AMBTR Ambrosia trifida L.  <b>Common Name:</b> ragweed, giant</p> <p><b>Pest 3 Type:</b> W    <b>Code:</b> AMATA Amaranthus rudis Sauer  <b>Common Name:</b> waterhemp, common</p> <p><b>Pest 4 Type:</b> W    <b>Code:</b> XANST Xanthium strumarium L.  <b>Common Name:</b> cocklebur, common</p> <p><b>Pest 5 Type:</b> W    <b>Code:</b> IPOHE Ipomoea hederacea (L.) Jacq.  <b>Common Name:</b> morningglory, ivyleaf</p>

<b>Site and Design</b>						
<p><b>Treated Plot Width:</b> 7.5 FT    <b>Total Plot Width:</b> 10 FT    <b>Site Type:</b> FIELD  <b>Treated Plot Length:</b> 30 FT    <b>Total Plot Length:</b> 30 FT    <b>Experimental Unit:</b> 1 PLOT  <b>Tillage Type:</b> REDTIL reduced-till  <b>Study Design:</b> RACOB� Randomized Complete Block (RCB)</p> <p><b>Replications:</b> 4  <b>Untreated Arrangement:</b> INCLUDED single control randomized in each block</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 75%;">Previous Crop</th> <th style="width: 20%;">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				
1.	GLXMA	2015				

<b>Maintenance</b>				
<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
No.	Maintenance Product Name			
1.	N 150 LB/A, P2O5 50 LB/A, K2O 150 LB/A			

<b>Soil Description</b>									
<p><b>Description Name:</b> 21M_2013  <b>% OM:</b> 3.4    <b>Texture:</b> SIL silt loam  <b>pH:</b> 6.5    <b>Soil Name:</b> Bethalto  <b>CEC:</b> 12</p>									
<b>Additional Measured Elements</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Element</th> <th style="width: 40%;">Quantity</th> <th style="width: 45%;">Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td style="text-align: center;">71</td> <td style="text-align: center;">lb/A</td> </tr> <tr> <td>K</td> <td style="text-align: center;">297</td> <td style="text-align: center;">lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	71	lb/A	K	297	lb/A
Element	Quantity	Unit							
P1	71	lb/A							
K	297	lb/A							

Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 Location: Belleville Res. Center Trial Year: 2016  
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Overall Moisture Conditions: NORMAL						Moisture and Weather Conditions				
Closest Weather Station: ICN - Belleville IL						Distance, Unit: 0.5 MI				
No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-16					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

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**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.

**Application Description**

	A	B	C	D
<b>Application Date:</b>	5-30-16	6-13-16	6-16-16	6-16-16
<b>Appl. Start Time:</b>	18:00	18:30	12:45	12:45
<b>Appl. Stop Time:</b>	18:50	18:45	13:25	13:25
<b>Application Method:</b>	Spray	Spray	Spray	Spray
<b>Application Timing:</b>	PRE	V2-V3	V3-V4	4-6"W
<b>Application Placement:</b>	BROSOI	BROFOL	BROFOL	BROFOL
<b>Applied By:</b>	RLS	RLS	MCG	MCG
<b>Air Temperature, Unit:</b>	78 F	77 F	96 F	96 F
<b>% Relative Humidity:</b>	62	85	48	48
<b>Wind Velocity, Unit:</b>	5 MPH	5 MPH	7 MPH	7 MPH
<b>Wind Direction:</b>	WNW	WNW	N	N
<b>Dew Presence (Y/N):</b>	N	N	N	N
<b>Soil Temperature, Unit:</b>	73 F	79 F	81 F	81 F
<b>Soil Moisture:</b>	NORMAL	NORMAL	BELNOR	BELNOR
<b>% Cloud Cover:</b>	0	25	25	25
<b>Next Moisture Occurred On:</b>	6-4-16	6-30-16	6-30-16	6-30-16
<b>Time to Next Moisture, Unit:</b>	5 DAY	17 DAY	14 DAY	14 DAY

**Crop Stage At Each Application**

	A	B	C	D
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMD	ZEAMD	ZEAMD	ZEAMD
<b>Stage Scale Used:</b>	DESC	DESC	DESC	DESC
<b>Stage Majority, Percent:</b>	NA	V4	V5	V5
<b>Stage Minimum, Percent:</b>		V3	V4	V4
<b>Stage Maximum, Percent:</b>		V4	V5	V5
<b>Height, Unit:</b>		9 IN	14 IN	14 IN
<b>Height Minimum, Maximum:</b>		6 9	12 14	12 14

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Pest Stage At Each Application				
	A	B	C	D
<b>Pest 1 Code, Type, Scale:</b>	PANDI W	PANDI W	PANDI W	PANDI W
<b>Stage Majority, Percent:</b>	NA	3	NA	NA
<b>Stage Minimum, Percent:</b>		2		
<b>Stage Maximum, Percent:</b>		4		
<b>Height, Unit:</b>		1.5 IN		
<b>Height Minimum, Maximum:</b>		1 3		
<b>Density, Unit:</b>		0.01 FT2		
<b>Pest 2 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	NA	4	NA	NA
<b>Stage Minimum, Percent:</b>		2		
<b>Stage Maximum, Percent:</b>		6		
<b>Height, Unit:</b>		2 IN		
<b>Height Minimum, Maximum:</b>		1 3		
<b>Density, Unit:</b>		1 FT2		
<b>Pest 3 Code, Type, Scale:</b>	AMATA W	AMATA W	AMATA W	AMATA W
<b>Stage Majority, Percent:</b>	NA	3	NA	NA
<b>Stage Minimum, Percent:</b>		1		
<b>Stage Maximum, Percent:</b>		4		
<b>Height, Unit:</b>		1 IN		
<b>Height Minimum, Maximum:</b>		0.25 1.5		
<b>Density, Unit:</b>		3 FT2		
<b>Pest 4 Code, Type, Scale:</b>	XANST W	XANST W	XANST W	XANST W
<b>Stage Majority, Percent:</b>	NA	4	4	4
<b>Stage Minimum, Percent:</b>		2	2	2
<b>Stage Maximum, Percent:</b>		5	6	6
<b>Height, Unit:</b>		2 IN	2 IN	2 IN
<b>Height Minimum, Maximum:</b>		1.5 3	1 3	1 3
<b>Density, Unit:</b>		4 FT2	1 FT2	1 FT2
<b>Pest 5 Code, Type, Scale:</b>	IPOHE W	IPOHE W	IPOHE W	IPOHE W
<b>Stage Majority, Percent:</b>	NA	1	3	3
<b>Stage Minimum, Percent:</b>		COTY	2	2
<b>Stage Maximum, Percent:</b>		3	4	4
<b>Height, Unit:</b>		1 IN	1 IN	1 IN
<b>Height Minimum, Maximum:</b>		0.25 1.5	1 2	1 2
<b>Density, Unit:</b>		0.05 FT2	0.5 FT2	0.5 FT2

Application Equipment				
	A	B	C	D
<b>Appl. Equipment:</b>	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
<b>Equipment Type:</b>	BACSPR	BACSPR	BACSPR	BACSPR
<b>Operation Pressure, Unit:</b>	30 PSI	30 PSI	30 PSI	30 PSI
<b>Nozzle Type:</b>	XR	XR	XR	XR
<b>Nozzle Size:</b>	8002	8002	8002	8002
<b>Boom Length, Unit:</b>	7.5 FT	7.5 FT	7.5 FT	7.5 FT
<b>Spray Volume, Unit:</b>	15 GPA	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	ZEAMD 10-5-16 Test wt.	ZEAMD 10-5-16 Yield			
							Percent	lb/bu	bu/A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	KEYSTONE NXT	5.6	SE	3.5 lb ai/a		2.5 qt/a		PRE	A	15.7 bc	55.5 a	145 a
	HORNET WDG	68.5	WG	0.171 lb ai/a		4 oz/a		PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a		1 qt/a		4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		4-6"W	D			
2	SURESTART II	4.16	SE	1.3 lb ai/a		2.5 pt/a		PRE	A	15.4 c	55.6 a	151 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a		PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a		1 qt/a		4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		4-6"W	D			
3	RESICORE	3.29	EC	2.26 lb ai/a		2.75 qt/a		PRE	A	15.7 bc	55.4 ab	146 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a		PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a		1 qt/a		4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		4-6"W	D			
4	RESICORE	3.29	EC	1.23 lb ai/a		1.5 qt/a		PRE	A	15.5 c	55.6 a	140 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a		PRE	A			
	RESICORE	3.29	EC	1.03 lb ai/a		1.25 qt/a		4-6"W	D			
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a		4-6"W	D			
	DURANGO DMA	4	SL	1 lb ae/a		1 qt/a		4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		4-6"W	D			
5	SURESTART II	4.16	SE	1.04 lb ai/a		2 pt/a		PRE	A	15.5 bc	55.6 a	147 a
	AATREX 4L	4	SC	1 lb ai/a		1 qt/a		PRE	A			
	RESICORE	3.29	EC	1.03 lb ai/a		1.25 qt/a		4-6"W	D			
	DURANGO DMA	4	SL	1 lb ae/a		1 qt/a		4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		4-6"W	D			
6	NONTREATED									16.8 a	54.9 c	78 b
7	DEGREE XTRA	4.04	CS	2.02 lb ai/a		4 pt/a		PRE	A	15.7 bc	55.5 ab	144 a
	IMPACT	2.8	SC	0.0164 lb ai/a		0.75 fl oz/a		V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a		1 pt/a		V3-V4	C			
	MSO	100	SL	1 % v/v		1 % v/v		V3-V4	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V3-V4	C			
8	DEGREE XTRA	4.04	CS	2.02 lb ai/a		4 pt/a		PRE	A	15.5 bc	55.5 a	148 a
	IMPACT	2.8	SC	0.0164 lb ai/a		0.75 fl oz/a		V3-V4	C			
	LIBERTY 280	2.34	EC	0.402 lb ai/a		22 fl oz/a		V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a		1 pt/a		V3-V4	C			
	AMS - LIQUID	100	SL	5 % v/v		5 % v/v		V3-V4	C			
9	DEGREE XTRA	4.04	CS	2.02 lb ai/a		4 pt/a		PRE	A	15.7 bc	55.4 ab	148 a
	IMPACT	2.8	SC	0.0164 lb ai/a		0.75 fl oz/a		V3-V4	C			
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a		1 pt/a		V3-V4	C			
	MSO	100	SL	0.5 % v/v		0.5 % v/v		V3-V4	C			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V3-V4	C			
10	DEGREE XTRA	4.04	CS	2.02 lb ai/a		4 pt/a		V2-V3	B	15.7 bc	55.5 ab	140 a
	IMPACT	2.8	SC	0.0219 lb ai/a		1 fl oz/a		V2-V3	B			
	MSO	100	SL	0.25 % v/v		0.25 % v/v		V2-V3	B			
	AMS - LIQUID	100	SL	2.5 % v/v		2.5 % v/v		V2-V3	B			

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=6,7,17  
 Could not calculate LSD (% mean diff) for columns 10,18,27,34 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	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
11	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	V2-V3	B	15.9	bc	55.4	ab	142	a
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V2-V3	B						
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B						
12	ANTHEM MAXX	4.3	SC	0.134	lb ai/a	4	fl oz/a	PRE	A	15.5	c	55.5	a	143	a
	AATREX 4L	4	SC		1 lb ai/a	32	fl oz/a	PRE	A						
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	4-6"W	D						
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	4-6"W	D						
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	D						
	COC	100	SL	0.5	% v/v	0.5	% v/v	4-6"W	D						
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	D						
13	ARMEZON PRO	5.35	EC	0.84	lb ai/a	20	fl oz/a	V2-V3	B	16.0	b	55.2	b	137	a
	MSO	100	SL	1	% v/v	1	% v/v	V2-V3	B						
	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	V2-V3	B						
14	REALM Q	38.75	WG	0.097	lb ai/a	4	oz/a	V2-V3	B	15.5	c	55.6	a	142	a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V3	B						
	COC	100	SL	1	% v/v	1	% v/v	V2-V3	B						
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B						
15	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A	15.5	c	55.6	a	132	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	V3-V4	C						
	COC	100	SL	1	% v/v	1	% v/v	V3-V4	C						
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V3-V4	C						
16	HARNESS XTRA 5.6L	5.6	EC	2.8	lb ai/a	2	qt/a	PRE	A	15.4	c	55.6	a	143	a
	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A						
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	D						
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	D						
LSD P=.05										0.54	0.27	22.6			
Standard Deviation										0.38	0.19	15.9			
CV										2.41	0.34	11.42			
Replicate F										0.871	2.748	3.927			
Replicate Prob(F)										0.4636	0.0541	0.0142			
Treatment F										3.379	4.178	4.551			
Treatment Prob(F)										0.0008	0.0001	0.0001			

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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	ZEAMD 6-6-16 Injury Percent	ZEAMD 6-13-16 Injury Percent -3 DA-C	ZEAMD 6-20-16 Injury Percent	ZEAMD 6-23-16 Injury Percent	ZEAMD 6-27-16 Injury Percent	ZEAMD 6-30-16 Injury Percent 17 DA-B	ZEAMD 7-14-16 Injury Percent 31 DA-B
							7 DA-A	14 DA-A	7 DA-B	7 DA-C	14 DA-B	14 DA-C	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	KEYSTONE NXT HORNET WDG DURANGO DMA AMS - LIQUID	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.5 qt/a 4 oz/a 1 qt/a 2.5 % v/v	qt/a oz/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	0 a	1 a	0 c	0 a 0 a
2	SURESTART II AATREX 4L DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.5 pt/a 1 qt/a 1 qt/a 2.5 % v/v	pt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	0 a	1 a	0 c	0 a 0 a
3	RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 4 SL 100 SL		2.26 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.75 qt/a 1 qt/a 1 qt/a 2.5 % v/v	qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	0 a	2 a	0 c	0 a 0 a
4	RESICORE AATREX 4L RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 3.29 EC 4 SC 4 SL 100 SL		1.23 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ai/a ae/a v/v	1.5 qt/a 1 qt/a 1.25 qt/a 1 qt/a 1 qt/a 2.5 % v/v	qt/a qt/a qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W 4-6"W 4-6"W	A A D D D D	0 a	2 a	0 c	0 a 0 a
5	SURESTART II AATREX 4L RESICORE DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 3.29 EC 4 SL 100 SL		1.04 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	2 pt/a 1 qt/a 1.25 qt/a 1 qt/a 2.5 % v/v	pt/a qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W 4-6"W	A A D D D	0 a	3 a	0 c	0 a 0 a
6	NONTREATED									0	0	0	0 0
7	DEGREE XTRA IMPACT AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.5 lb ai/a 1 % v/v 2.5 % v/v	ai/a ai/a ai/a v/v v/v	4 pt/a 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v	pt/a fl oz/a pt/a v/v v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	0 a	2 a	8 a	0 a 0 a
8	DEGREE XTRA IMPACT LIBERTY 280 AATREX 4L AMS - LIQUID	4.04 CS 2.8 SC 2.34 EC 4 SC 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.402 lb ai/a 0.5 lb ai/a 5 % v/v	ai/a ai/a ai/a ai/a v/v	4 pt/a 0.75 fl oz/a 22 fl oz/a 1 pt/a 5 % v/v	pt/a fl oz/a fl oz/a pt/a v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	0 a	0 a	0 c	0 a 0 a
9	DEGREE XTRA IMPACT ROUNDUP POWERMAX AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4.5 SL 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 1.13 lb ae/a 0.5 lb ai/a 0.5 % v/v 2.5 % v/v	ai/a ai/a ae/a ai/a v/v v/v	4 pt/a 0.75 fl oz/a 32 fl oz/a 1 pt/a 0.5 % v/v 2.5 % v/v	pt/a fl oz/a fl oz/a pt/a v/v v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4 V3-V4	A C C C C C	0 a	0 a	5 b	0 a 0 a
10	DEGREE XTRA IMPACT MSO AMS - LIQUID	4.04 CS 2.8 SC 100 SL 100 SL		2.02 lb ai/a 0.0219 lb ai/a 0.25 % v/v 2.5 % v/v	ai/a ai/a v/v v/v	4 pt/a 1 fl oz/a 0.25 % v/v 2.5 % v/v	pt/a fl oz/a v/v v/v	V2-V3 V2-V3 V2-V3 V2-V3	B B B B		0 a	0 a	0 a

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 Missing data estimates are included in columns: Average=6,7,17  
 Could not calculate LSD (% mean diff) for columns 10,18,27,34 because error mean square = 0.

Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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	ZEAMD 6-6-16 Injury Percent	ZEAMD 6-13-16 Injury Percent -3 DA-C	ZEAMD 6-20-16 Injury Percent	ZEAMD 6-23-16 Injury Percent	ZEAMD 6-27-16 Injury Percent	ZEAMD 6-30-16 Injury Percent 17 DA-B	ZEAMD 7-14-16 Injury Percent 31 DA-B
Trt-Eval Interval						7 DA-A	14 DA-A	7 DA-B	7 DA-C	14 DA-B	14 DA-C	28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code				
11	HALEX GT NIS AMS - LIQUID	4.389 100 100	CS SL SL	1.98 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 0.25 % v/v 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B		0 a	0 a	0 a
12	ANTHEM MAXX AATREX 4L SOLSTICE AATREX 4L ROUNDUP POWERMAX COC AMS - LIQUID	4.3 4 4 4 4.5 100 100	SC SC SC SC SL SL SL	0.134 lb ai/a 1 lb ai/a 0.078 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 0.5 % v/v 2.5 % v/v	4 fl oz/a 32 fl oz/a 2.5 fl oz/a 16 fl oz/a 32 fl oz/a 0.5 % v/v 2.5 % v/v		PRE PRE 4-6"W 4-6"W 4-6"W 4-6"W 4-6"W	A A D D D D D	0 a	2 a	0 c	0 a 0 a
13	ARMEZON PRO MSO AMS - LIQUID	5.35 100 100	EC SL SL	0.84 lb ai/a 1 % v/v 5 % v/v	20 fl oz/a 1 % v/v 5 % v/v		V2-V3 V2-V3 V2-V3	B B B		0 a	1 a	0 a
14	REALM Q ROUNDUP POWERMAX COC AMS - LIQUID	38.75 4.5 100 100	WG SL SL SL	0.097 lb ai/a 0.77 lb ae/a 1 % v/v 2.5 % v/v	4 oz/a 22 fl oz/a 1 % v/v 2.5 % v/v		V2-V3 V2-V3 V2-V3 V2-V3	B B B B		0 a	0 a	0 a
15	BALANCE FLEXX AATREX 4L DIFLEXX DUO COC AMS - LIQUID	2 4 100 100 100	SC SC SC SL SL	0.0625 lb ai/a 1 lb ai/a 32 fl oz/a 1 % v/v 2.5 % v/v	4 fl oz/a 2 pt/a 32 fl oz/a 1 % v/v 2.5 % v/v		PRE PRE V3-V4 V3-V4 V3-V4	A A C C C	0 a	2 a	0 c	0 a 0 a
16	HARNESS XTRA 5.6L BALANCE FLEXX ROUNDUP POWERMAX AMS - LIQUID	5.6 2 4.5 100	EC SC SL SL	2.8 lb ai/a 0.047 lb ai/a 1.13 lb ae/a 2.5 % v/v	2 qt/a 3 fl oz/a 32 fl oz/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A D D	0 a	1 a	0 c	0 a 0 a
LSD P=.05												
Standard Deviation						3.1		1.3	0.9			
CV						0.0	2.2	0.0	0.9	0.6	0.0	0.0
Replicate F						0.000	1.077	0.000	1.000	1.000	0.000	0.000
Replicate Prob(F)						1.0000	0.3736	1.0000	0.4064	0.4363	1.0000	1.0000
Treatment F						0.000	0.604	0.000	35.400	3.000	0.000	0.000
Treatment Prob(F)						1.0000	0.7977	1.0000	0.0001	0.0877	1.0000	1.0000

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B			
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	KEYSTONE NXT HORNET WDG DURANGO DMA AMS - LIQUID	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 1 lb ae/a 2.5 % v/v		2.5 qt/a 4 oz/a 1 qt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A D D	99 a	99 a	99 a	99 ab	99 a
2	SURESTART II AATREX 4L DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1 qt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A D D	99 a	99 a	99 a	99 ab	99 a
3	RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 4 SL 100 SL		2.26 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v		2.75 qt/a 1 qt/a 1 qt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A D D	99 a	99 a	99 a	99 a	99 a
4	RESICORE AATREX 4L RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 3.29 EC 4 SC 4 SL 100 SL		1.23 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v		1.5 qt/a 1 qt/a 1.25 qt/a 1 qt/a 1 qt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W 4-6"W 4-6"W	A A D D D D	99 a	99 a	99 a	99 a	99 a
5	SURESTART II AATREX 4L RESICORE DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 3.29 EC 4 SL 100 SL		1.04 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ae/a 2.5 % v/v		2 pt/a 1 qt/a 1.25 qt/a 1 qt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W 4-6"W	A A D D D	99 a	99 a	99 a	99 a	99 a
6	NONTREATED									0	0	0	0	0
7	DEGREE XTRA IMPACT AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.5 lb ai/a 1 % v/v 2.5 % v/v		4 pt/a 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v		PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	99 a	99 a	99 ab	99 a	99 a
8	DEGREE XTRA IMPACT LIBERTY 280 AATREX 4L AMS - LIQUID	4.04 CS 2.8 SC 2.34 EC 4 SC 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.402 lb ai/a 0.5 lb ai/a 5 % v/v		4 pt/a 0.75 fl oz/a 22 fl oz/a 1 pt/a 5 % v/v		PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	99 a	99 a	99 a	99 a	99 a
9	DEGREE XTRA IMPACT ROUNDUP POWERMAX AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4.5 SL 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 1.13 lb ae/a 0.5 lb ai/a 0.5 % v/v 2.5 % v/v		4 pt/a 0.75 fl oz/a 32 fl oz/a 1 pt/a 0.5 % v/v 2.5 % v/v		PRE V3-V4 V3-V4 V3-V4 V3-V4 V3-V4	A C C C C C	99 a	99 a	99 a	99 a	99 a
10	DEGREE XTRA IMPACT MSO AMS - LIQUID	4.04 CS 2.8 SC 100 SL 100 SL		2.02 lb ai/a 0.0219 lb ai/a 0.25 % v/v 2.5 % v/v		4 pt/a 1 fl oz/a 0.25 % v/v 2.5 % v/v		V2-V3 V2-V3 V2-V3 V2-V3	B B B B	95 b	98 a	97 b	99 ab	98 a

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
11	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	V2-V3	B	98 a	97 a	98 ab
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V2-V3	B			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B			
12	ANTHEM MAXX	4.3	SC	0.134	lb ai/a	4	fl oz/a	PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	32	fl oz/a	PRE	A			
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	4-6"	D			
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	4-6"	D			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	D			
	COC	100	SL	0.5	% v/v	0.5	% v/v	4-6"	D			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	D			
13	ARMEZON PRO	5.35	EC	0.84	lb ai/a	20	fl oz/a	V2-V3	B	93 c	98 a	94 c
	MSO	100	SL	1	% v/v	1	% v/v	V2-V3	B			
	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	V2-V3	B			
14	REALM Q	38.75	WG	0.097	lb ai/a	4	oz/a	V2-V3	B	94 bc	99 a	98 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V3	B			
	COC	100	SL	1	% v/v	1	% v/v	V2-V3	B			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B			
15	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A	99 a	99 a	99 ab
	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	V3-V4	C			
	COC	100	SL	1	% v/v	1	% v/v	V3-V4	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V3-V4	C			
16	HARNESS XTRA 5.6L	5.6	EC	2.8	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a
	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	D			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	D			
LSD P=.05										2.0	1.7	2.1
Standard Deviation										1.4	1.2	1.5
CV										1.43	1.19	1.52
Replicate F										1.196	1.242	1.605
Replicate Prob(F)										0.3231	0.3066	0.2025
Treatment F										10.453	1.120	3.577
Treatment Prob(F)										0.0001	0.3699	0.0007

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	KEYSTONE NXT	5.6	SE	3.5 lb ai/a	2.5 qt/a			PRE	A	99 a	99 a	99 a
	HORNET WDG	68.5	WG	0.171 lb ai/a	4 oz/a			PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
2	SURESTART II	4.16	SE	1.3 lb ai/a	2.5 pt/a			PRE	A	98 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
3	RESICORE	3.29	EC	2.26 lb ai/a	2.75 qt/a			PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
4	RESICORE	3.29	EC	1.23 lb ai/a	1.5 qt/a			PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	RESICORE	3.29	EC	1.03 lb ai/a	1.25 qt/a			4-6"W	D			
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			4-6"W	D			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
5	SURESTART II	4.16	SE	1.04 lb ai/a	2 pt/a			PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	RESICORE	3.29	EC	1.03 lb ai/a	1.25 qt/a			4-6"W	D			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
6	NONTREATED									0	0	0
7	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			PRE	A	97 a	99 a	99 a
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75 fl oz/a			V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a	1 pt/a			V3-V4	C			
	MSO	100	SL	1 % v/v	1 % v/v			V3-V4	C			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			V3-V4	C			
8	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			PRE	A	96 a	99 a	99 a
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75 fl oz/a			V3-V4	C			
	LIBERTY 280	2.34	EC	0.402 lb ai/a	22 fl oz/a			V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a	1 pt/a			V3-V4	C			
	AMS - LIQUID	100	SL	5 % v/v	5 % v/v			V3-V4	C			
9	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			PRE	A	96 a	99 a	99 a
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75 fl oz/a			V3-V4	C			
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a	1 pt/a			V3-V4	C			
	MSO	100	SL	0.5 % v/v	0.5 % v/v			V3-V4	C			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			V3-V4	C			
10	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			V2-V3	B	83 b	99 a	99 a
	IMPACT	2.8	SC	0.0219 lb ai/a	1 fl oz/a			V2-V3	B			
	MSO	100	SL	0.25 % v/v	0.25 % v/v			V2-V3	B			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			V2-V3	B			

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=6,7,17  
 Could not calculate LSD (% mean diff) for columns 10,18,27,34 because error mean square = 0.

Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
						6-16-16 Control Percent 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B
Trt-Eval Interval						0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code		
11	HALEX GT	4.389	CS	1.98 lb ai/a	3.6 pt/a		V2-V3	B	91 a	99 a
	NIS	100	SL	0.25 % v/v	0.25 % v/v		V2-V3	B		
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V2-V3	B		
12	ANTHEM MAXX	4.3	SC	0.134 lb ai/a	4 fl oz/a		PRE	A	96 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	32 fl oz/a		PRE	A		
	SOLSTICE	4	SC	0.078 lb ai/a	2.5 fl oz/a		4-6"W	D		
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a		4-6"W	D		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	D		
	COC	100	SL	0.5 % v/v	0.5 % v/v		4-6"W	D		
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	D		
13	ARMEZON PRO	5.35	EC	0.84 lb ai/a	20 fl oz/a		V2-V3	B	81 b	99 a
	MSO	100	SL	1 % v/v	1 % v/v		V2-V3	B		
	AMS - LIQUID	100	SL	5 % v/v	5 % v/v		V2-V3	B		
14	REALM Q	38.75	WG	0.097 lb ai/a	4 oz/a		V2-V3	B	80 b	98 b
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V2-V3	B		
	COC	100	SL	1 % v/v	1 % v/v		V2-V3	B		
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V2-V3	B		
15	BALANCE FLEXX	2	SC	0.0625 lb ai/a	4 fl oz/a		PRE	A	97 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		V3-V4	C		
	COC	100	SL	1 % v/v	1 % v/v		V3-V4	C		
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		V3-V4	C		
16	HARNESS XTRA 5.6L	5.6	EC	2.8 lb ai/a	2 qt/a		PRE	A	98 a	99 a
	BALANCE FLEXX	2	SC	0.047 lb ai/a	3 fl oz/a		PRE	A		
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	D		
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	D		
LSD P=.05						7.9	0.2	0.2	0.6	0.8
Standard Deviation						5.5	0.1	0.1	0.4	0.6
CV						5.84	0.13	0.13	0.45	0.6
Replicate F						2.242	1.000	1.000	0.759	0.897
Replicate Prob(F)						0.1001	0.4023	0.4023	0.5234	0.4507
Treatment F						6.238	9.000	1.000	0.518	1.256
Treatment Prob(F)						0.0001	0.0001	0.4708	0.9088	0.2742

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 Missing data estimates are included in columns: Average=6,7,17  
 Could not calculate LSD (% mean diff) for columns 10,18,27,34 because error mean square = 0.

Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	KEYSTONE NXT	5.6	SE	3.5 lb ai/a	2.5 qt/a			PRE	A	99 a	99 a	99 a
	HORNET WDG	68.5	WG	0.171 lb ai/a	4 oz/a			PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
2	SURESTART II	4.16	SE	1.3 lb ai/a	2.5 pt/a			PRE	A	98 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
3	RESICORE	3.29	EC	2.26 lb ai/a	2.75 qt/a			PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
4	RESICORE	3.29	EC	1.23 lb ai/a	1.5 qt/a			PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	RESICORE	3.29	EC	1.03 lb ai/a	1.25 qt/a			4-6"W	D			
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			4-6"W	D			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
5	SURESTART II	4.16	SE	1.04 lb ai/a	2 pt/a			PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1 lb ai/a	1 qt/a			PRE	A			
	RESICORE	3.29	EC	1.03 lb ai/a	1.25 qt/a			4-6"W	D			
	DURANGO DMA	4	SL	1 lb ae/a	1 qt/a			4-6"W	D			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			4-6"W	D			
6	NONTREATED									0	0	0
7	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			PRE	A	99 a	99 a	99 a
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75 fl oz/a			V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a	1 pt/a			V3-V4	C			
	MSO	100	SL	1 % v/v	1 % v/v			V3-V4	C			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			V3-V4	C			
8	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			PRE	A	99 a	99 a	99 a
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75 fl oz/a			V3-V4	C			
	LIBERTY 280	2.34	EC	0.402 lb ai/a	22 fl oz/a			V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a	1 pt/a			V3-V4	C			
	AMS - LIQUID	100	SL	5 % v/v	5 % v/v			V3-V4	C			
9	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			PRE	A	99 a	99 a	99 a
	IMPACT	2.8	SC	0.0164 lb ai/a	0.75 fl oz/a			V3-V4	C			
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			V3-V4	C			
	AATREX 4L	4	SC	0.5 lb ai/a	1 pt/a			V3-V4	C			
	MSO	100	SL	0.5 % v/v	0.5 % v/v			V3-V4	C			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			V3-V4	C			
10	DEGREE XTRA	4.04	CS	2.02 lb ai/a	4 pt/a			V2-V3	B	92 b	99 a	99 a
	IMPACT	2.8	SC	0.0219 lb ai/a	1 fl oz/a			V2-V3	B			
	MSO	100	SL	0.25 % v/v	0.25 % v/v			V2-V3	B			
	AMS - LIQUID	100	SL	2.5 % v/v	2.5 % v/v			V2-V3	B			

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
11	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	V2-V3	B	85 c	95 b	79 b
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V2-V3	B			76 b
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B			97 a
12	ANTHEM MAXX	4.3	SC	0.134	lb ai/a	4	fl oz/a	PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	32	fl oz/a	PRE	A			99 a
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	4-6"	D			99 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	4-6"	D			99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	D			99 a
	COC	100	SL	0.5	% v/v	0.5	% v/v	4-6"	D			99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	D			99 a
13	ARMEZON PRO	5.35	EC	0.84	lb ai/a	20	fl oz/a	V2-V3	B	84 cd	95 b	99 a
	MSO	100	SL	1	% v/v	1	% v/v	V2-V3	B			98 a
	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	V2-V3	B			97 a
14	REALM Q	38.75	WG	0.097	lb ai/a	4	oz/a	V2-V3	B	79 d	88 c	55 c
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V3	B			45 c
	COC	100	SL	1	% v/v	1	% v/v	V2-V3	B			88 b
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B			88 b
15	BALANCE FLEXX	2	SC	0.0625	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			99 a
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V3-V4	C			99 a
	COC	100	SL	1	% v/v	1	% v/v	V3-V4	C			99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V3-V4	C			99 a
16	HARNESS XTRA 5.6L	5.6	EC	2.8	lb ai/a	2	qt/a	PRE	A	99 a	99 a	99 a
	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A			99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	D			99 a
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	D			99 a
LSD P=.05										5.2	4.1	8.2
Standard Deviation										3.6	2.9	5.8
CV										3.82	2.93	6.07
Replicate F										2.189	1.771	1.547
Replicate Prob(F)										0.1035	0.1674	0.2166
Treatment F										14.363	4.522	17.804
Treatment Prob(F)										0.0001	0.0001	0.0001

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 Could not calculate LSD (% mean diff) for columns 10,18,27,34 because error mean square = 0.

Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	KEYSTONE NXT HORNET WDG DURANGO DMA AMS - LIQUID	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.5 qt/a 4 oz/a 1 qt/a 2.5 % v/v	qt/a oz/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	99 a	98 a	99 a 99 a 99 a 99 a
2	SURESTART II AATREX 4L DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.5 pt/a 1 qt/a 1 qt/a 2.5 % v/v	pt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	97 abc	98 ab	99 a 96 a 99 a 99 a
3	RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 4 SL 100 SL		2.26 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.75 qt/a 1 qt/a 1 qt/a 2.5 % v/v	qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	98 ab	99 a	99 a 99 a 99 a 99 a
4	RESICORE AATREX 4L RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 3.29 EC 4 SC 4 SL 100 SL		1.23 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ai/a ae/a v/v	1.5 qt/a 1 qt/a 1.25 qt/a 1 qt/a 1 qt/a 2.5 % v/v	qt/a qt/a qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W 4-6"W 4-6"W	A A D D D D	97 abc	98 a	98 a 98 a 98 a 98 a 98 a
5	SURESTART II AATREX 4L RESICORE DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 3.29 EC 4 SL 100 SL		1.04 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	2 pt/a 1 qt/a 1.25 qt/a 1 qt/a 2.5 % v/v	pt/a qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W 4-6"W	A A D D D	93 a-e	97 ab	95 a 97 a 97 a 98 a
6	NONTREATED									0	0	0 0 0
7	DEGREE XTRA IMPACT AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.5 lb ai/a 1 % v/v 2.5 % v/v	ai/a ai/a ai/a v/v v/v	4 pt/a 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v	pt/a fl oz/a pt/a v/v v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	86 e	98 a	97 a 97 a 97 a 97 a
8	DEGREE XTRA IMPACT LIBERTY 280 AATREX 4L AMS - LIQUID	4.04 CS 2.8 SC 2.34 EC 4 SC 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.402 lb ai/a 0.5 lb ai/a 5 % v/v	ai/a ai/a ai/a ai/a v/v	4 pt/a 0.75 fl oz/a 22 fl oz/a 1 pt/a 5 % v/v	pt/a fl oz/a fl oz/a pt/a v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	88 de	98 ab	98 a 98 a 98 a 98 a
9	DEGREE XTRA IMPACT ROUNDUP POWERMAX AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4.5 SL 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 1.13 lb ae/a 0.5 lb ai/a 0.5 % v/v 2.5 % v/v	ai/a ai/a ae/a ai/a v/v v/v	4 pt/a 0.75 fl oz/a 32 fl oz/a 1 pt/a 0.5 % v/v 2.5 % v/v	pt/a fl oz/a fl oz/a pt/a v/v v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4 V3-V4	A C C C C C	93 a-e	99 a	99 a 98 a 99 a 99 a
10	DEGREE XTRA IMPACT MSO AMS - LIQUID	4.04 CS 2.8 SC 100 SL 100 SL		2.02 lb ai/a 0.0219 lb ai/a 0.25 % v/v 2.5 % v/v	ai/a ai/a v/v v/v	4 pt/a 1 fl oz/a 0.25 % v/v 2.5 % v/v	pt/a fl oz/a v/v v/v	V2-V3 V2-V3 V2-V3 V2-V3	B B B B	87 de	99 a	99 a 98 a 98 a 98 a

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B			
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
11	HALEX GT NIS AMS - LIQUID	4.389 100 100	CS SL SL	1.98 0.25 2.5	lb ai/a % v/v % v/v	3.6 0.25 2.5	pt/a % v/v % v/v	V2-V3 V2-V3 V2-V3	B B B	90 b-e	99 a	99 a	99 a	97 a
12	ANTHEM MAXX AATREX 4L SOLSTICE AATREX 4L ROUNDUP POWERMAX COC AMS - LIQUID	4.3 4 4 4 4.5 100 100	SC SC SC SC SL SL SL	0.134 1 0.078 0.5 1.13 0.5 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v % v/v	4 32 2.5 16 32 0.5 2.5	fl oz/a fl oz/a fl oz/a fl oz/a % v/v % v/v	PRE PRE 4-6"W 4-6"W 4-6"W 4-6"W	A A D D D D D	91 a-e	99 a	98 a	96 a	98 a
13	ARMEZON PRO MSO AMS - LIQUID	5.35 100 100	EC SL SL	0.84 1 5	lb ai/a % v/v % v/v	20 1 5	fl oz/a % v/v % v/v	V2-V3 V2-V3 V2-V3	B B B	89 cde	95 bc	99 a	99 a	95 a
14	REALM Q ROUNDUP POWERMAX COC AMS - LIQUID	38.75 4.5 100 100	WG SL SL SL	0.097 0.77 1 2.5	lb ai/a lb ae/a % v/v % v/v	4 22 1 2.5	oz/a fl oz/a % v/v % v/v	V2-V3 V2-V3 V2-V3 V2-V3	B B B B	88 cde	92 c	87 a	87 a	94 a
15	BALANCE FLEXX AATREX 4L DIFLEXX DUO COC AMS - LIQUID	2 4 100 100 100	SC SC SC SL SL	0.0625 1 32 1 2.5	lb ai/a lb ai/a fl oz/a % v/v % v/v	4 2 32 1 2.5	fl oz/a pt/a fl oz/a % v/v % v/v	PRE PRE V3-V4 V3-V4 V3-V4	A A C C C	94 a-e	98 a	96 a	95 a	99 a
16	HARNESS XTRA 5.6L BALANCE FLEXX ROUNDUP POWERMAX AMS - LIQUID	5.6 2 4.5 100	EC SC SL SL	2.8 0.047 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	2 3 32 2.5	qt/a fl oz/a fl oz/a % v/v	PRE PRE 4-6"W 4-6"W	A A D D	95 a-d	99 a	96 a	95 a	98 a
LSD P=.05							8.8	3.4	7.2	7.2	3.0			
Standard Deviation							6.1	2.4	5.0	5.1	2.1			
CV							6.64	2.46	5.18	5.25	2.18			
Replicate F							19.066	9.733	4.605	5.462	6.237			
Replicate Prob(F)							0.0001	0.0001	0.0071	0.0029	0.0013			
Treatment F							1.936	2.430	1.537	1.362	1.932			
Treatment Prob(F)							0.0498	0.0134	0.1400	0.2143	0.0504			

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 Could not calculate LSD (% mean diff) for columns 10,18,27,34 because error mean square = 0.



Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	
							6-16-16 Control Percent 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	KEYSTONE NXT HORNET WDG DURANGO DMA AMS - LIQUID	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.5 qt/a 4 oz/a 1 qt/a 2.5 % v/v	qt/a oz/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	95 abc	99 a	99 a 91 a 97 abc
2	SURESTART II AATREX 4L DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.5 pt/a 1 qt/a 1 qt/a 2.5 % v/v	pt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	95 abc	99 a	99 a 90 a 96 abc
3	RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 4 SL 100 SL		2.26 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	2.75 qt/a 1 qt/a 1 qt/a 2.5 % v/v	qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W	A A D D	98 a	99 a	99 a 95 a 97 abc
4	RESICORE AATREX 4L RESICORE AATREX 4L DURANGO DMA AMS - LIQUID	3.29 EC 4 SC 3.29 EC 4 SC 4 SL 100 SL		1.23 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ai/a ae/a v/v	1.5 qt/a 1 qt/a 1.25 qt/a 1 qt/a 1 qt/a 2.5 % v/v	qt/a qt/a qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W 4-6"W 4-6"W	A A D D D D	96 ab	99 a	99 a 97 a 98 a
5	SURESTART II AATREX 4L RESICORE DURANGO DMA AMS - LIQUID	4.16 SE 4 SC 3.29 EC 4 SL 100 SL		1.04 lb ai/a 1 lb ai/a 1.03 lb ai/a 1 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	2 pt/a 1 qt/a 1.25 qt/a 1 qt/a 2.5 % v/v	pt/a qt/a qt/a qt/a v/v	PRE PRE 4-6"W 4-6"W 4-6"W	A A D D D	94 abc	99 a	99 a 95 a 97 ab
6	NONTREATED									0	0	0 0 0
7	DEGREE XTRA IMPACT AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.5 lb ai/a 1 % v/v 2.5 % v/v	ai/a ai/a ai/a v/v v/v	4 pt/a 0.75 fl oz/a 1 pt/a 1 % v/v 2.5 % v/v	pt/a fl oz/a pt/a v/v v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	96 ab	99 a	99 a 86 a 96 bc
8	DEGREE XTRA IMPACT LIBERTY 280 AATREX 4L AMS - LIQUID	4.04 CS 2.8 SC 2.34 EC 4 SC 100 SL		2.02 lb ai/a 0.0164 lb ai/a 0.402 lb ai/a 0.5 lb ai/a 5 % v/v	ai/a ai/a ai/a ai/a v/v	4 pt/a 0.75 fl oz/a 22 fl oz/a 1 pt/a 5 % v/v	pt/a fl oz/a fl oz/a pt/a v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4	A C C C C	91 cd	99 a	99 a 91 a 94 cd
9	DEGREE XTRA IMPACT ROUNDUP POWERMAX AATREX 4L MSO AMS - LIQUID	4.04 CS 2.8 SC 4.5 SL 4 SC 100 SL 100 SL		2.02 lb ai/a 0.0164 lb ai/a 1.13 lb ae/a 0.5 lb ai/a 0.5 % v/v 2.5 % v/v	ai/a ai/a ae/a ai/a v/v v/v	4 pt/a 0.75 fl oz/a 32 fl oz/a 1 pt/a 0.5 % v/v 2.5 % v/v	pt/a fl oz/a fl oz/a pt/a v/v v/v	PRE V3-V4 V3-V4 V3-V4 V3-V4 V3-V4	A C C C C C	94 abc	99 a	99 a 89 a 96 bc
10	DEGREE XTRA IMPACT MSO AMS - LIQUID	4.04 CS 2.8 SC 100 SL 100 SL		2.02 lb ai/a 0.0219 lb ai/a 0.25 % v/v 2.5 % v/v	ai/a ai/a v/v v/v	4 pt/a 1 fl oz/a 0.25 % v/v 2.5 % v/v	pt/a fl oz/a v/v v/v	V2-V3 V2-V3 V2-V3 V2-V3	B B B B	93 bcd	98 a	99 a 89 a 96 abc

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120 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	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	
							6-16-16 Control Percent 17 DA-A	6-23-16 Control Percent	6-30-16 Control Percent 17 DA-B	7-14-16 Control Percent 31 DA-B	7-28-16 Control Percent 45 DA-B	
							0 DA-C	7 DA-C	14 DA-C	28 DA-C	42 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
11	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	V2-V3	B	93 bcd	98 a	99 a
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V2-V3	B			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B			96 abc
12	ANTHEM MAXX	4.3	SC	0.134	lb ai/a	4	fl oz/a	PRE	A	93 bcd	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	32	fl oz/a	PRE	A			
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	4-6"	W D			94 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	4-6"	W D			
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	W D			
	COC	100	SL	0.5	% v/v	0.5	% v/v	4-6"	W D			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W D			98 a
13	ARMEZON PRO	5.35	EC	0.84	lb ai/a	20	fl oz/a	V2-V3	B	91 cd	90 c	8 b
	MSO	100	SL	1	% v/v	1	% v/v	V2-V3	B			21 b
	AMS - LIQUID	100	SL	5	% v/v	5	% v/v	V2-V3	B			91 e
14	REALM Q	38.75	WG	0.097	lb ai/a	4	oz/a	V2-V3	B	89 d	95 b	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V3	B			91 a
	COC	100	SL	1	% v/v	1	% v/v	V2-V3	B			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V2-V3	B			96 abc
15	BALANCE FLEXX	2	SC	0.0625	lb ai/a	4	fl oz/a	PRE	A	93 bcd	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	2	pt/a	PRE	A			89 a
	DIFLEXX DUO	100	SC	32	fl oz/a	32	fl oz/a	V3-V4	C			
	COC	100	SL	1	% v/v	1	% v/v	V3-V4	C			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	V3-V4	C			96 abc
16	HARNESS XTRA 5.6L	5.6	EC	2.8	lb ai/a	2	qt/a	PRE	A	95 abc	99 a	99 a
	BALANCE FLEXX	2	SC	0.047	lb ai/a	3	fl oz/a	PRE	A			92 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"	W D			
	AMS - LIQUID	100	SL	2.5	% v/v	2.5	% v/v	4-6"	W D			93 de
LSD P=.05										4.0	2.4	1.9
Standard Deviation										2.8	1.7	1.4
CV										3.0	1.72	1.46
Replicate F										2.883	0.228	0.520
Replicate Prob(F)										0.0469	0.8762	0.6706
Treatment F										2.480	8.103	1211.956
Treatment Prob(F)										0.0117	0.0001	0.0001

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Corn Weed Control Programs Showcase.

Trial ID: 16-21M-W120      Location: Belleville Res. Center      Trial Year: 2016  
Investigator: Karla L. Gage, Ph.D.

Trial Comments

1. Protocol: Dow and AMVAC.
2. Ratings:  
CI 7 and 14 DA-A; 7 and 14 DA-BCD in separate columns on different days.  
WC 0, 7, 14, 28, and 42 DA-C rate D with C even if not applied on same day.
3. Yield.
4. Application B V2-V3 and 2-4 inch weeds in plots without a PRE.  
Application C V3-V4 and 2-4 inch weeds in plots with a PRE.  
Application D 4-6"W and prior to 11 inch corn.
5. Photos not requested, maybe all plots 14-28 DA-C.
6. Rainfall following the PRE application A was 0.73 inch over 2 days beginning 5 days later.  
Rainfall following the V2-V3 application B was 2.61 inch over 9 days beginning 17 days later.  
Rainfall following the V3-V4 and 4-6"W applications C+D was 2.61 inch over 9 days beginning 14 days later.
7. Weed control ratings on 7-28-16 at 42 DA-C that improved since the 28 DA-C rating were influenced by crop canopy, especially AMATA and IPOHE.
8. Harvested 10-5-16, (2) 30 inch rows by 27 ft.