

Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Trial Status: F one-year/final
Initiation Date: 5-29-16
Completion Date: 10-6-16

Trial Location

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

Objectives:

Evaluate Diflexx in an early season application compared to Status and evaluate the crop safety of Diflexx when tank-mixed.

Contacts

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

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DKC 63-33 **BBCH Scale:** BCOR
Description: SS RIB
Planting Date: 5-29-16
Planting Rate, Unit: 32000 S/A **Planting Method:** SEEDED
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi* Herrm.
Common Name: foxtail, giant
Pest 2 Type: W **Code:** CYPES *Cyperus esculentus* L.
Common Name: nutsedge, yellow
Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida* L.
Common Name: ragweed, giant
Pest 4 Type: W **Code:** ABUTH *Abutilon theophrasti* Medik.
Common Name: velvetleaf
Pest 5 Type: W **Code:** AMATA *Amaranthus rudis* Sauer
Common Name: waterhemp, common
Pest 6 Type: W **Code:** XANST *Xanthium strumarium* L.
Common Name: cocklebur, common
Pest 7 Type: W **Code:** IPOHE *Ipomoea hederacea* (L.) Jacq.
Common Name: morningglory, ivyleaf

Site and Design

Treated Plot Width: 7.5 FT **Total Plot Width:** 10 FT **Site Type:** FIELD
Treated Plot Length: 30 FT **Total Plot Length:** 30 FT **Experimental Unit:** 1 PLOT
Tillage Type: REDTIL reduced-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

No.	Previous Crop	Year
1.	GLXMA	2015

Maintenance

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

Soil Description

Description Name: 21M_2013
% OM: 3.4 **Texture:** SIL silt loam
pH: 6.5 **Soil Name:** Bethalto
CEC: 12

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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
Application Date:	6-7-16
Appl. Start Time:	6:40
Appl. Stop Time:	7:25
Application Method:	Spray
Application Timing:	V1-V2
Application Placement:	BROFOL
Applied By:	MCG
Air Temperature, Unit:	74 F
% Relative Humidity:	74
Wind Velocity, Unit:	5 MPH
Wind Direction:	NNE
Dew Presence (Y/N):	N
Soil Temperature, Unit:	80 F
Soil Moisture:	NORMAL
% Cloud Cover:	25
Next Moisture Occurred On:	6-30-16
Time to Next Moisture, Unit:	23 DAY

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMD
Stage Scale Used:	DESC
Stage Majority, Percent:	V2
Stage Minimum, Percent:	V1
Stage Maximum, Percent:	V2
Height, Unit:	4 IN
Height Minimum, Maximum:	3 4

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	SETFA W
Stage Majority, Percent:	NA
Pest 2 Code, Type, Scale:	CYPES W
Stage Majority, Percent:	3
Stage Minimum, Percent:	1
Stage Maximum, Percent:	3
Height, Unit:	3 IN
Height Minimum, Maximum:	1 4
Density, Unit:	2 FT2
Pest 3 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	2
Stage Minimum, Percent:	COTY
Stage Maximum, Percent:	2
Height, Unit:	1 IN
Height Minimum, Maximum:	0.5 1
Density, Unit:	5 FT2
Pest 4 Code, Type, Scale:	ABUTH W
Stage Majority, Percent:	COTY
Stage Minimum, Percent:	COTY
Stage Maximum, Percent:	COTY
Height, Unit:	0.5 IN
Height Minimum, Maximum:	0.25 0.5
Density, Unit:	0.02 FT2
Pest 5 Code, Type, Scale:	AMATA W
Stage Majority, Percent:	NA
Pest 6 Code, Type, Scale:	XANST W
Stage Majority, Percent:	2
Stage Minimum, Percent:	COTY
Stage Maximum, Percent:	2
Height, Unit:	0.5 IN
Height Minimum, Maximum:	0.25 1
Density, Unit:	4 FT2
Pest 7 Code, Type, Scale:	IPOHE W
Stage Majority, Percent:	COTY
Stage Minimum, Percent:	COTY
Stage Maximum, Percent:	COTY
Height, Unit:	0.5 IN
Height Minimum, Maximum:	0.25 0.5
Density, Unit:	1 FT2

Application Equipment

	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 10-6-16 Moisture Percent	ZEAMD 10-6-16 Test wt. lb/bu	ZEAMD 10-6-16 Yield bu/A	ZEAMD 6-14-16 Injury Percent	ZEAMD 6-21-16 Injury Percent			
										7 DA-A	14 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	NONTREATED									1 f	0			
2	CORVUS AATREX 4L	2.63 4	SC SC	0.0925 0.5	lb ai/a lb ai/a	4.5 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	17.9 a	54.1 a	61 cde	0 a	0 a
3	ACURON	3.44	CS	1.72	lb ai/a	64	fl oz/a	V1-V2	A	16.6 a	54.7 a	78 a-d	0 a	0 a
4	SURESTART AATREX 4L	4.25 4	SE SC	1.06 0.5	lb ai/a lb ai/a	32 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	16.4 a	54.9 a	97 abc	0 a	0 a
5	CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 0.42 0.5	lb ai/a lb ae/a lb ai/a	3 12 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	14.7 a	55.1 a	32 ef	0 a	0 a
6	HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 0.5 0.25	lb ai/a lb ai/a % v/v	57.6 16 0.25	fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2	A A A	16.8 a	54.5 a	70 b-e	0 a	0 a
7	DIFLEXX COC	4 100	SC SL	0.25 1	lb ae/a % v/v	8 1	fl oz/a % v/v	V1-V2 V1-V2	A A	16.6 a	54.6 a	78 a-d	0 a	0 a
8	STATUS COC	56 100	WG SL	0.105 1	lb ae/a % v/v	3 1	oz/a % v/v	V1-V2 V1-V2	A A	15.0 a	54.9 a	35 def	0 a	0 a
9	CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 0.25 0.5	lb ai/a lb ae/a lb ai/a	4.5 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	17.0 a	54.6 a	96 abc	0 a	0 a
10	ACURON DIFLEXX	3.44 4	CS SC	1.72 0.25	lb ai/a lb ae/a	64 8	fl oz/a fl oz/a	V1-V2 V1-V2	A A	16.3 a	55.0 a	116 a	0 a	0 a
11	SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 0.25 0.5	lb ai/a lb ae/a lb ai/a	32 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	18.0 a	53.9 a	105 ab	0 a	0 a
12	CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 0.42 0.25 0.5	lb ai/a lb ae/a lb ae/a lb ai/a	3 12 8 16	fl oz/a fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	17.4 a	54.3 a	87 abc	0 a	0 a
13	HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 0.25 0.5 0.25	lb ai/a lb ae/a lb ai/a % v/v	57.6 8 16 0.25	fl oz/a fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	17.2 a	54.4 a	92 abc	0 a	0 a
14	CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 0.105 0.5	lb ai/a lb ae/a lb ai/a	4.5 3 16	fl oz/a oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	15.4 a	55.3 a	89 abc	0 a	0 a
15	ACURON STATUS	3.44 56	CS WG	1.72 0.105	lb ai/a lb ae/a	64 3	fl oz/a oz/a	V1-V2 V1-V2	A A	18.0 a	54.1 a	78 abc	0 a	0 a

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.
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Pest Code							ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD				
Crop Code							10-6-16	10-6-16	10-6-16	6-14-16	6-21-16				
Rating Date							Moisture	Test wt.	Yield	Injury	Injury				
Rating Type							Percent	lb/bu	bu/A	Percent	Percent				
Rating Unit										7 DA-A	14 DA-A				
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code					
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A		16.9 a	54.6 a	83 abc	0 a	0 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A						
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A						
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A		16.9 a	54.7 a	89 abc	0 a	0 a
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A						
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A						
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A						
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A		17.6 a	54.2 a	64 b-e	0 a	0 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A						
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A						
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A						
LSD P=.05							2.33	1.17	43.0	.					
Standard Deviation							1.40	0.70	25.9	0.0	0.0				
CV							8.35	1.28	34.53	0.0	0.0				
Replicate F							1.854	0.472	1.577	0.000	0.000				
Replicate Prob(F)							0.1730	0.6283	0.2214	1.0000	1.0000				
Treatment F							1.488	0.901	3.606	0.000	0.000				
Treatment Prob(F)							0.1651	0.5746	0.0007	1.0000	1.0000				

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	SETFA	SETFA	SETFA	
							6-21-16 Control Percent	7-5-16 Control Percent	7-19-16 Control Percent	
							14 DA-A	28 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
1	NONTREATED									
2	CORVUS AATREX 4L	2.63 4	SC SC	0.0925 0.5	lb ai/a lb ai/a	4.5 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	90 a 60 a 52 a
3	ACURON	3.44	CS	1.72	lb ai/a	64	fl oz/a	V1-V2	A	93 a 57 a 53 a
4	SURESTART AATREX 4L	4.25 4	SE SC	1.06 0.5	lb ai/a lb ai/a	32 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	78 abc 43 a 40 a
5	CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 0.42 0.5	lb ai/a lb ae/a lb ai/a	3 12 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	94 a 82 a 67 a
6	HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 0.5 0.25	lb ai/a lb ai/a % v/v	57.6 16 0.25	fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2	A A A	98 a 75 a 67 a
7	DIFLEXX COC	4 100	SC SL	0.25 1	lb ae/a % v/v	8 1	fl oz/a % v/v	V1-V2 V1-V2	A A	0 d 27 a 27 a
8	STATUS COC	56 100	WG SL	0.105 1	lb ae/a % v/v	3 1	oz/a % v/v	V1-V2 V1-V2	A A	0 d 52 a 40 a
9	CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 0.25 0.5	lb ai/a lb ae/a lb ai/a	4.5 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	85 ab 53 a 43 a
10	ACURON DIFLEXX	3.44 4	CS SC	1.72 0.25	lb ai/a lb ae/a	64 8	fl oz/a fl oz/a	V1-V2 V1-V2	A A	92 a 58 a 48 a
11	SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 0.25 0.5	lb ai/a lb ae/a lb ai/a	32 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	91 a 57 a 50 a
12	CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 0.42 0.25 0.5	lb ai/a lb ae/a lb ae/a lb ai/a	3 12 8 16	fl oz/a fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	98 a 67 a 53 a
13	HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 0.25 0.5 0.25	lb ai/a lb ae/a lb ai/a % v/v	57.6 8 16 0.25	fl oz/a fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	98 a 87 a 83 a
14	CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 0.105 0.5	lb ai/a lb ae/a lb ai/a	4.5 3 16	fl oz/a oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	58 c 38 a 35 a
15	ACURON STATUS	3.44 56	CS WG	1.72 0.105	lb ai/a lb ae/a	64 3	fl oz/a oz/a	V1-V2 V1-V2	A A	63 bc 60 a 53 a

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							SETFA	SETFA	SETFA	
							6-21-16	7-5-16	7-19-16	
							Control	Control	Control	
							Percent	Percent	Percent	
Trt-Eval Interval							14 DA-A	28 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A	90 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A	63 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A	60 a
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A	96 a
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A	68 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A	60 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A	
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A	98 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A	92 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A	80 a
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A	
LSD P=.05							25.5	59.8	51.2	
Standard Deviation							15.3	36.0	30.8	
CV							19.68	58.88	57.39	
Replicate F							1.271	2.104	2.089	
Replicate Prob(F)							0.2942	0.1386	0.1404	
Treatment F							12.685	0.654	0.712	
Treatment Prob(F)							0.0001	0.8151	0.7619	

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Pest Code	CYPES	CYPES	CYPES						
Crop Code	6-21-16	7-5-16	7-19-16						
Rating Date	Control	Control	Control						
Rating Type	Percent	Percent	Percent						
Rating Unit									
Rating Timing									
Trt-Eval Interval	14 DA-A	28 DA-A	42 DA-A						
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage	Appl Code			
1 NONTREATED							0	0	0
2 CORVUS AATREX 4L	2.63 4	SC SC	0.0925 lb ai/a 0.5 lb ai/a	4.5 fl oz/a 16 fl oz/a	V1-V2 V1-V2	A A	92 a	0 a	0 a
3 ACURON	3.44	CS	1.72 lb ai/a	64 fl oz/a	V1-V2	A	75 abc	0 a	0 a
4 SURESTART AATREX 4L	4.25 4	SE SC	1.06 lb ai/a 0.5 lb ai/a	32 fl oz/a 16 fl oz/a	V1-V2 V1-V2	A A	62 bcd	0 a	0 a
5 CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 lb ai/a 0.42 lb ae/a 0.5 lb ai/a	3 fl oz/a 12 fl oz/a 16 fl oz/a	V1-V2 V1-V2 V1-V2	A A A	92 a	0 a	0 a
6 HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 lb ai/a 0.5 lb ai/a 0.25 % v/v	57.6 fl oz/a 16 fl oz/a 0.25 % v/v	V1-V2 V1-V2 V1-V2	A A A	75 abc	0 a	0 a
7 DIFLEXX COC	4 100	SC SL	0.25 lb ae/a 1 % v/v	8 fl oz/a 1 % v/v	V1-V2 V1-V2	A A	0 e	0 a	0 a
8 STATUS COC	56 100	WG SL	0.105 lb ae/a 1 % v/v	3 oz/a 1 % v/v	V1-V2 V1-V2	A A	0 e	0 a	0 a
9 CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 lb ai/a 0.25 lb ae/a 0.5 lb ai/a	4.5 fl oz/a 8 fl oz/a 16 fl oz/a	V1-V2 V1-V2 V1-V2	A A A	88 ab	0 a	0 a
10 ACURON DIFLEXX	3.44 4	CS SC	1.72 lb ai/a 0.25 lb ae/a	64 fl oz/a 8 fl oz/a	V1-V2 V1-V2	A A	87 ab	0 a	0 a
11 SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 lb ai/a 0.25 lb ae/a 0.5 lb ai/a	32 fl oz/a 8 fl oz/a 16 fl oz/a	V1-V2 V1-V2 V1-V2	A A A	0 e	0 a	0 a
12 CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 lb ai/a 0.42 lb ae/a 0.25 lb ae/a 0.5 lb ai/a	3 fl oz/a 12 fl oz/a 8 fl oz/a 16 fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	88 ab	0 a	0 a
13 HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 lb ai/a 0.25 lb ae/a 0.5 lb ai/a 0.25 % v/v	57.6 fl oz/a 8 fl oz/a 16 fl oz/a 0.25 % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	85 ab	0 a	0 a
14 CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 lb ai/a 0.105 lb ae/a 0.5 lb ai/a	4.5 fl oz/a 3 oz/a 16 fl oz/a	V1-V2 V1-V2 V1-V2	A A A	48 cd	0 a	0 a
15 ACURON STATUS	3.44 56	CS WG	1.72 lb ai/a 0.105 lb ae/a	64 fl oz/a 3 oz/a	V1-V2 V1-V2	A A	72 a-d	0 a	0 a

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							CYPES	CYPES	CYPES	
Crop Code							6-21-16	7-5-16	7-19-16	
Rating Date							Control	Control	Control	
Rating Type							Percent	Percent	Percent	
Rating Unit							14 DA-A	28 DA-A	42 DA-A	
Rating Timing										
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A	43 d
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A	0 a
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A	87 ab
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A	0 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A	0 a
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A	92 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A	0 a
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A	0 a
LSD P=.05							29.1	.	.	
Standard Deviation							17.5	0.0	0.0	
CV							27.42	0.0	0.0	
Replicate F							0.782	0.000	0.000	
Replicate Prob(F)							0.4659	1.0000	1.0000	
Treatment F							11.148	0.000	0.000	
Treatment Prob(F)							0.0001	1.0000	1.0000	

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 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	
							6-21-16 Control Percent	7-5-16 Control Percent	7-19-16 Control Percent	
							14 DA-A	28 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
1	NONTREATED									0
2	CORVUS AATREX 4L	2.63 4	SC SC	0.0925 0.5	lb ai/a lb ai/a	4.5 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	80 ab 72 a 62 a
3	ACURON	3.44	CS	1.72	lb ai/a	64	fl oz/a	V1-V2	A	78 ab 63 a 60 a
4	SURESTART AATREX 4L	4.25 4	SE SC	1.06 0.5	lb ai/a lb ai/a	32 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	67 bc 67 a 53 a
5	CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 0.42 0.5	lb ai/a lb ae/a lb ai/a	3 12 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	78 ab 57 a 45 a
6	HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 0.5 0.25	lb ai/a lb ai/a % v/v	57.6 16 0.25	fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2	A A A	75 abc 47 a 43 a
7	DIFLEXX COC	4 100	SC SL	0.25 1	lb ae/a % v/v	8 1	fl oz/a % v/v	V1-V2 V1-V2	A A	58 cd 37 a 37 a
8	STATUS COC	56 100	WG SL	0.105 1	lb ae/a % v/v	3 1	oz/a % v/v	V1-V2 V1-V2	A A	42 d 53 a 47 a
9	CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 0.25 0.5	lb ai/a lb ae/a lb ai/a	4.5 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	85 ab 67 a 62 a
10	ACURON DIFLEXX	3.44 4	CS SC	1.72 0.25	lb ai/a lb ae/a	64 8	fl oz/a fl oz/a	V1-V2 V1-V2	A A	82 ab 70 a 62 a
11	SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 0.25 0.5	lb ai/a lb ae/a lb ai/a	32 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	88 a 70 a 70 a
12	CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 0.42 0.25 0.5	lb ai/a lb ae/a lb ae/a lb ai/a	3 12 8 16	fl oz/a fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	82 ab 67 a 53 a
13	HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 0.25 0.5 0.25	lb ai/a lb ae/a lb ai/a % v/v	57.6 8 16 0.25	fl oz/a fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	85 ab 60 a 50 a
14	CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 0.105 0.5	lb ai/a lb ae/a lb ai/a	4.5 3 16	fl oz/a oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	88 a 63 a 50 a
15	ACURON STATUS	3.44 56	CS WG	1.72 0.105	lb ai/a lb ae/a	64 3	fl oz/a oz/a	V1-V2 V1-V2	A A	83 ab 40 a 33 a

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							AMBTR	AMBTR	AMBTR							
Crop Code							6-21-16	7-5-16	7-19-16							
Rating Date							Control	Control	Control							
Rating Type							Percent	Percent	Percent							
Rating Unit																
Rating Timing																
Trt-Eval Interval							14 DA-A	28 DA-A	42 DA-A							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code						
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A		87	a	53	a	42	a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A							
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A							
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A		88	a	63	a	58	a
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A							
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A							
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A							
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A		75	abc	47	a	30	a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A							
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A							
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A							
LSD P=.05							19.0	32.8	26.7							
Standard Deviation							11.4	19.7	16.1							
CV							14.66	33.72	31.9							
Replicate F							1.136	1.544	0.025							
Replicate Prob(F)							0.3336	0.2290	0.9757							
Treatment F							3.473	0.898	1.453							
Treatment Prob(F)							0.0013	0.5773	0.1794							

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 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 6-21-16 Control Percent	ABUTH 7-5-16 Control Percent	ABUTH 7-19-16 Control Percent	
							14 DA-A	28 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
1	NONTREATED									
2	CORVUS AATREX 4L	2.63 4	SC SC	0.0925 0.5	lb ai/a lb ai/a	4.5 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	99 a 98 a 98 a
3	ACURON	3.44	CS	1.72	lb ai/a	64	fl oz/a	V1-V2	A	99 a 98 a 98 a
4	SURESTART AATREX 4L	4.25 4	SE SC	1.06 0.5	lb ai/a lb ai/a	32 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	93 ab 95 a 95 a
5	CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 0.42 0.5	lb ai/a lb ae/a lb ai/a	3 12 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	99 a 98 a 98 a
6	HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 0.5 0.25	lb ai/a lb ai/a % v/v	57.6 16 0.25	fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2	A A A	99 a 98 a 98 a
7	DIFLEXX COC	4 100	SC SL	0.25 1	lb ae/a % v/v	8 1	fl oz/a % v/v	V1-V2 V1-V2	A A	47 c 46 b 30 b
8	STATUS COC	56 100	WG SL	0.105 1	lb ae/a % v/v	3 1	oz/a % v/v	V1-V2 V1-V2	A A	81 b 94 a 94 a
9	CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 0.25 0.5	lb ai/a lb ae/a lb ai/a	4.5 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	98 a 99 a 99 a
10	ACURON DIFLEXX	3.44 4	CS SC	1.72 0.25	lb ai/a lb ae/a	64 8	fl oz/a fl oz/a	V1-V2 V1-V2	A A	99 a 99 a 99 a
11	SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 0.25 0.5	lb ai/a lb ae/a lb ai/a	32 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	97 a 99 a 99 a
12	CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 0.42 0.25 0.5	lb ai/a lb ae/a lb ae/a lb ai/a	3 12 8 16	fl oz/a fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	96 ab 96 a 96 a 96 a
13	HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 0.25 0.5 0.25	lb ai/a lb ae/a lb ai/a % v/v	57.6 8 16 0.25	fl oz/a fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	99 a 98 a 98 a 98 a
14	CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 0.105 0.5	lb ai/a lb ae/a lb ai/a	4.5 3 16	fl oz/a oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	99 a 99 a 99 a
15	ACURON STATUS	3.44 56	CS WG	1.72 0.105	lb ai/a lb ae/a	64 3	fl oz/a oz/a	V1-V2 V1-V2	A A	98 a 98 a 98 a

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							ABUTH	ABUTH	ABUTH				
Crop Code							6-21-16	7-5-16	7-19-16				
Rating Date							Control	Control	Control				
Rating Type							Percent	Percent	Percent				
Rating Unit							14 DA-A	28 DA-A	42 DA-A				
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code			
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A		98 a	98 a	98 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A				
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A				
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A		98 a	96 a	96 a
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A				
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A				
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A				
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A		97 a	89 a	89 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A				
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A				
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A				
LSD P=.05							15.7	19.9	10.6				
Standard Deviation							9.4	11.9	6.4				
CV							10.04	12.72	6.88				
Replicate F							1.310	1.781	2.527				
Replicate Prob(F)							0.2838	0.1848	0.0957				
Treatment F							5.616	3.280	19.730				
Treatment Prob(F)							0.0001	0.0021	0.0001				

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 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	
							6-21-16 Control Percent	7-5-16 Control Percent	7-19-16 Control Percent	
							14 DA-A	28 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code
1	NONTREATED									0
2	CORVUS AATREX 4L	2.63 4	SC SC	0.0925 0.5	lb ai/a lb ai/a	4.5 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	99 a
3	ACURON	3.44	CS	1.72	lb ai/a	64	fl oz/a	V1-V2	A	98 a
4	SURESTART AATREX 4L	4.25 4	SE SC	1.06 0.5	lb ai/a lb ai/a	32 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	99 a
5	CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 0.42 0.5	lb ai/a lb ae/a lb ai/a	3 12 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	92 a
6	HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 0.5 0.25	lb ai/a lb ai/a % v/v	57.6 16 0.25	fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2	A A A	96 a
7	DIFLEXX COC	4 100	SC SL	0.25 1	lb ae/a % v/v	8 1	fl oz/a % v/v	V1-V2 V1-V2	A A	32 c
8	STATUS COC	56 100	WG SL	0.105 1	lb ae/a % v/v	3 1	oz/a % v/v	V1-V2 V1-V2	A A	53 b
9	CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 0.25 0.5	lb ai/a lb ae/a lb ai/a	4.5 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	98 a
10	ACURON DIFLEXX	3.44 4	CS SC	1.72 0.25	lb ai/a lb ae/a	64 8	fl oz/a fl oz/a	V1-V2 V1-V2	A A	98 a
11	SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 0.25 0.5	lb ai/a lb ae/a lb ai/a	32 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	99 a
12	CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 0.42 0.25 0.5	lb ai/a lb ae/a lb ae/a lb ai/a	3 12 8 16	fl oz/a fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	90 a
13	HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 0.25 0.5 0.25	lb ai/a lb ae/a lb ai/a % v/v	57.6 8 16 0.25	fl oz/a fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	99 a
14	CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 0.105 0.5	lb ai/a lb ae/a lb ai/a	4.5 3 16	fl oz/a oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	98 a
15	ACURON STATUS	3.44 56	CS WG	1.72 0.105	lb ai/a lb ae/a	64 3	fl oz/a oz/a	V1-V2 V1-V2	A A	98 a

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Corn One-Pass Early Postemergence Weed Control - Bayer.

Trial ID: 16-21M-MME60 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

							AMATA	AMATA	AMATA
							6-21-16	7-5-16	7-19-16
							Control	Control	Control
							Percent	Percent	Percent
Trt-Eval Interval							14 DA-A	28 DA-A	42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Code
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A
LSD P=.05							19.8	24.3	24.3
Standard Deviation							11.9	14.6	14.6
CV							13.24	17.36	17.36
Replicate F							0.634	2.957	2.957
Replicate Prob(F)							0.5370	0.0663	0.0663
Treatment F							7.394	9.353	9.353
Treatment Prob(F)							0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	XANST	XANST	XANST	IPOHE	IPOHE	IPOHE
							6-21-16 Control Percent	7-5-16 Control Percent	7-5-16 Control Percent	6-21-16 Control Percent	7-5-16 Control Percent	7-19-16 Control Percent
							14 DA-A	28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A
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 AATREX 4L	2.63 4	SC SC	0.0925 0.5	lb ai/a lb ai/a	4.5 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	88 a	96 a	96 a
3	ACURON	3.44	CS	1.72	lb ai/a	64	fl oz/a	V1-V2	A	90 a	83 a	83 a
4	SURESTART AATREX 4L	4.25 4	SE SC	1.06 0.5	lb ai/a lb ai/a	32 16	fl oz/a fl oz/a	V1-V2 V1-V2	A A	75 a	95 a	95 a
5	CAPRENO ROUNDUP WEATHERMAX AATREX 4L	3.45 4.5 4	SC SL SC	0.081 0.42 0.5	lb ai/a lb ae/a lb ai/a	3 12 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	90 a	63 a	63 a
6	HALEX GT AATREX 4L NIS	4.389 4 100	CS SC SL	1.98 0.5 0.25	lb ai/a lb ai/a % v/v	57.6 16 0.25	fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2	A A A	72 a	93 a	91 a
7	DIFLEXX COC	4 100	SC SL	0.25 1	lb ae/a % v/v	8 1	fl oz/a % v/v	V1-V2 V1-V2	A A	72 a	85 a	85 a
8	STATUS COC	56 100	WG SL	0.105 1	lb ae/a % v/v	3 1	oz/a % v/v	V1-V2 V1-V2	A A	70 a	99 a	93 a
9	CORVUS DIFLEXX AATREX 4L	2.63 4 4	SC SC SC	0.0925 0.25 0.5	lb ai/a lb ae/a lb ai/a	4.5 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	90 a	77 a	77 a
10	ACURON DIFLEXX	3.44 4	CS SC	1.72 0.25	lb ai/a lb ae/a	64 8	fl oz/a fl oz/a	V1-V2 V1-V2	A A	88 a	98 a	98 a
11	SURESTART DIFLEXX AATREX 4L	4.25 4 4	SE SC SC	1.06 0.25 0.5	lb ai/a lb ae/a lb ai/a	32 8 16	fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	87 a	99 a	99 a
12	CAPRENO ROUNDUP WEATHERMAX DIFLEXX AATREX 4L	3.45 4.5 4 4	SC SL SC SC	0.081 0.42 0.25 0.5	lb ai/a lb ae/a lb ae/a lb ai/a	3 12 8 16	fl oz/a fl oz/a fl oz/a fl oz/a	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	83 a	90 a	90 a
13	HALEX GT DIFLEXX AATREX 4L NIS	4.389 4 4 100	CS SC SC SL	1.98 0.25 0.5 0.25	lb ai/a lb ae/a lb ai/a % v/v	57.6 8 16 0.25	fl oz/a fl oz/a fl oz/a % v/v	V1-V2 V1-V2 V1-V2 V1-V2	A A A A	90 a	98 a	98 a
14	CORVUS STATUS AATREX 4L	2.63 56 4	SC WG SC	0.0925 0.105 0.5	lb ai/a lb ae/a lb ai/a	4.5 3 16	fl oz/a oz/a fl oz/a	V1-V2 V1-V2 V1-V2	A A A	90 a	94 a	90 a
15	ACURON STATUS	3.44 56	CS WG	1.72 0.105	lb ai/a lb ae/a	64 3	fl oz/a oz/a	V1-V2 V1-V2	A A	88 a	90 a	85 a

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 Investigator: Karla L. Gage, Ph.D.

Pest Code		XANST	XANST	XANST	IPOHE	IPOHE	IPOHE									
Crop Code																
Rating Date		6-21-16	7-5-16	7-5-16	6-21-16	7-5-16	7-19-16									
Rating Type		Control	Control	Control	Control	Control	Control									
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent									
Rating Timing																
Trt-Eval Interval		14 DA-A	28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code						
16	SURESTART	4.25	SE	1.06	lb ai/a	32	fl oz/a	V1-V2	A		93 a	87 a	85 a	85 abc	57 a	50 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A							
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A							
17	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V1-V2	A		85 a	94 a	94 a	90 ab	40 a	30 a
	ROUNDUP WEATHERMAX	4.5	SL	0.42	lb ae/a	12	fl oz/a	V1-V2	A							
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A							
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A							
18	HALEX GT	4.389	CS	1.98	lb ai/a	57.6	fl oz/a	V1-V2	A		94 a	96 a	94 a	87 abc	30 a	23 a
	STATUS	56	WG	0.105	lb ae/a	3	oz/a	V1-V2	A							
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	V1-V2	A							
	NIS	100	SL	0.25	% v/v	0.25	% v/v	V1-V2	A							
LSD P=.05											25.6	24.0	23.9	23.7	55.4	43.1
Standard Deviation											15.4	14.4	14.4	14.2	33.3	25.9
CV											18.08	15.97	16.11	18.41	107.6	109.68
Replicate F											1.716	2.401	3.030	0.609	1.039	2.725
Replicate Prob(F)											0.1960	0.1068	0.0624	0.5498	0.3653	0.0808
Treatment F											0.784	1.274	1.207	3.587	1.012	1.154
Treatment Prob(F)											0.6911	0.2715	0.3146	0.0010	0.4702	0.3524

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Trial Comments

1. Protocol: Bayer (WMR).
2. Ratings:
 CI 7 and 14 DA-A.
 WC 14, 28, and 42 DA-A.
 Record percent ground cover of each weed in each nontreated plot at each weed control rating.
3. Yield if possible.
4. Photos 14 and 42 DA-A and photos of CI if evident.
5. Rainfall following the V1-V2 application A was 2.61 inch over 9 days beginning 23 days later.
6. By 7-19-16 at 42 DA-A, competition from AMBTR and IPOHE is interfering with new emergence of SETFA, AMATA, ABUTH, and XANST making late ratings difficult.
7. Percent ground cover by weed species in each nontreated plot at each rating is as follows;

DA-A	PLOT	SETFA	CYPES	AMATA	ABUTH	IPOHE	AMBTR	XANST
14	101	5	3	1	2	10	15	12
	214	0	3	1	1	15	10	5
	309	1	5	3	1	5	7	3
28	101	5	1	5	5	5	74	5
	214	5	1	1	1	10	70	2
	309	2	1	2	1	2	90	1
42	101	5	1	2	2	10	70	5
	214	5	1	1	1	15	70	2
	309	2	1	1	1	2	90	1

8. Harvested 10-6-16, (2) 30 inch rows by 27 ft.