

Annual Weed Control in Roundup Ready Corn.

Trial ID: 14-21S-E40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: One-year/final Initiation Date: 5-11-14 Completion Date: 10-7-14		Trial Location
City: Belleville	Country: USA	
State/Prov.: Illinois IL		
Postal Code: 62221		

Objectives: Determine residual efficacy of various one- and two-pass weed control programs in corn.

Study Director: Ronald F. Krausz Organization: Belleville Research Center - Southern Illinois Univ Carbondale Address: 2036 Charles Lane City+State/Prov: Belleville, IL Postal Code: 62221 Country: USA	Contacts Title: Researcher/Farm Manager Phone No.: 618-566-4761 E-mail: rkrausz@siu.edu
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Crop 1: ZEAMD Zea mays indentata Variety: DKC 63-33 Description: SS RIB Planting Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN	Dent corn BBCH Scale: BCOR Planting Date: 5-11-14 Planting Method: SEEDED	Crop Description
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Pest 1 Type: W Code: SETFA <i>Setaria faberi</i> Herrm. Common Name: foxtail, giant Pest 2 Type: W Code: XANST <i>Xanthium strumarium</i> L. Common Name: cocklebur, common Pest 3 Type: W Code: AMBTR <i>Ambrosia trifida</i> L. Common Name: ragweed, giant Pest 4 Type: W Code: IPOHE <i>Ipomoea hederacea</i> (L.) Jacq. Common Name: morningglory, ivyleaf Pest 5 Type: W Code: ABUTH <i>Abutilon theophrasti</i> Medik. Common Name: velvetleaf Pest 6 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common	Pest Description
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Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)						
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>GLXMA</td> <td>2013</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	GLXMA	2013	
No.	Previous Crop	Year					
1.	GLXMA	2013					

Maintenance					
<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>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				

% OM: 3 Texture: SIL silt loam pH: 6.5 Soil Name: Be halto CEC: 12	Soil Description									
Additional Measured Elements										
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>40</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>318</td> <td>lb/A</td> </tr> </tbody> </table>	Element	Quantity	Unit	P1	40	lb/A	K	318	lb/A	
Element	Quantity	Unit								
P1	40	lb/A								
K	318	lb/A								

Overall Moisture Conditions: NORMAL Closest Weather Station: ICN - Belleville IL	Moisture and Weather Conditions 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.	4-1-14	3.19	IN	RAIN	rain	4	DAY			
2.	4-1-14					7	DAY	34	66	F
3.	4-7-14	0.3	IN	RAIN	rain	2	DAY			
4.	4-8-14					7	DAY	34	83	F
5.	4-12-14	0.66	IN	RAIN	rain	3	DAY			
6.	4-15-14					7	DAY	31	79	F
7.	4-21-14	0.17	IN	RAIN	rain	2	DAY			
8.	4-22-14					7	DAY	44	78	F
9.	4-24-14	2.24	IN	RAIN	rain	5	DAY			
10.	4-29-14	0.09	IN	RAIN	rain	2	DAY			
11.	4-29-14					7	DAY	41	87	F
12.	5-6-14					7	DAY	56	86	F
13.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
14.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
15.	5-13-14					7	DAY	37	76	F
16.	5-20-14					7	DAY	55	87	F
17.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
18.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
19.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
20.	5-27-14					7	DAY	60	86	F
21.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
22.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
23.	6-3-14					7	DAY	59	90	F
24.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
25.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
26.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
27.	6-10-14					7	DAY	51	90	F
28.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
29.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
30.	6-17-14					7	DAY	67	92	F
31.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
32.	6-24-14					7	DAY	65	91	F
33.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
34.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
35.	7-1-14					7	DAY	55	90	F
36.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
37.	7-8-14					7	DAY	59	89	F
38.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
39.	7-15-14					7	DAY	54	85	F
40.	7-22-14					7	DAY	57	98	F
41.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
42.	7-29-14					7	DAY	52	89	F
43.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
44.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
45.	8-5-14					7	DAY	66	88	F
46.	8-12-14					7	DAY	57	84	F
47.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
48.	8-19-14					7	DAY	67	95	F
49.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
50.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
51.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
52.	9-2-14					7	DAY	54	93	F
53.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
54.	9-9-14					7	DAY	45	85	F
55.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
56.	9-16-14					7	DAY	46	86	F
57.	9-23-14					7	DAY	46	86	F
58.	9-30-14					7	DAY	37	87	F
59.	10-1-14	0.99	IN	RAIN	rain	3	DAY			
60.	10-6-14	0.31	IN	RAIN	rain	2	DAY			
61.	10-7-14					7	DAY	46	77	F
62.	10-9-14	1.44	IN	RAIN	rain	2	DAY			

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	A	B	C
Application Date:	5-12-14	5-29-14	6-5-14
Appl. Start Time:	19:00	14:45	8:20
Appl. Stop Time:	19:30	15:00	8:40
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	4-6"W
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	LXF	MEJ	RJW
Air Temperature, Unit:	77 F	80 F	71 F
% Relative Humidity:	79	61	78
Wind Velocity, Unit:	10 MPH	7 MPH	4 MPH
Wind Direction:	S	S	E
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	68 F	71 F	74 F
Soil Moisture:	NORMAL	NORMAL	ABONOR
% Cloud Cover:	0	50	97
Next Moisture Occurred On:	5-12-14	6-1-14	6-7-14
Time to Next Moisture, Unit:	5 HR	2 DAY	2 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	V3	V5
Stage Minimum, Percent:		V3	V5
Stage Maximum, Percent:		V3	V5
Height, Unit:		8 IN	12 IN
Height Minimum, Maximum:		6 8	10 12

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:	NA	6	NA
Stage Minimum, Percent:		5	
Stage Maximum, Percent:		6	
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 4	
Density, Unit:		1 FT2	
Pest 2 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	NA	6	2
Stage Minimum, Percent:		5	0.5
Stage Maximum, Percent:		8	2
Height, Unit:		3 IN	1 IN
Height Minimum, Maximum:		2 3	0.5 1
Density, Unit:		0.1 FT2	0.05 FT2
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	8	NA
Stage Minimum, Percent:		6	
Stage Maximum, Percent:		8	
Height, Unit:		4 IN	
Height Minimum, Maximum:		2 4	
Density, Unit:		0.1 FT2	
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	4	1
Stage Minimum, Percent:		2	0.5
Stage Maximum, Percent:		4	6
Height, Unit:		2 IN	1 IN
Height Minimum, Maximum:		1 2	0.5 1
Density, Unit:		0.1 FT2	0.1 FT2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	5	2
Stage Minimum, Percent:		5	0.5
Stage Maximum, Percent:		6	2
Height, Unit:		3 IN	0.5 IN
Height Minimum, Maximum:		1 3	0.25 0.5
Density, Unit:		0.1 FT2	0.01 FT2
Pest 6 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	4	NA
Stage Minimum, Percent:		2	
Stage Maximum, Percent:		4	
Height, Unit:		0.5 IN	
Height Minimum, Maximum:		0.25 1	
Density, Unit:		0.01 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

Southern Illinois University

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 10-7-14 Moisture Percent	ZEAMD 10-7-14 Test wt lb/bu	ZEAMD 10-7-14 Yield bu/A	ZEAMD 5-26-14 Injury Percent	ZEAMD 6-5-14 Injury Percent 24 DA-A	ZEAMD 6-9-14 Injury Percent 28 DA-A	ZEAMD Injury Percent 14 DA-B	ZEAMD Injury Percent 28 DA-B
Trt	Treatment	Form	Form	Rate	Other O her	Growth Appl								
No.	Name	Conc	Type	Rate	Rate	Unit Stage	Code							
1	NONTREATED							15.7 a	58.2 a	197 b	0	0	0	0
2	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG	3.5 lb ai/a 0.171 lb ai/a	2.5 qt/a 4 oz/a	PRE	A A		16.2 a	57.9 a	258 a	0 a	0 a	0 a	0 a
3	KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL	3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v	PRE PRE 4-6"W 4-6"W	A A C C		16.7 a	57.7 a	258 a	0 a	0 a	0 a	0 a
4	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL	1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v	PRE 4-6"W 4-6"W	A C C		16.4 a	57.9 a	250 a	0 a	0 a	0 a	0 a
5	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL	1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 2.5 % v/v	PRE 4-6"W 4-6"W	A C C		16.2 a	58.0 a	265 a	0 a	0 a	0 a	0 a
6	SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL	1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v	PRE PRE 4-6"W 4-6"W	A A C C		15.8 a	58.2 a	263 a	0 a	0 a	0 a	0 a
7	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL	1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v	2-4"W 2-4"W 2-4"W	B B B		15.7 a	58.2 a	262 a		0 a	0 a	0 a
LSD (P=.05)								0.85	0.40	15.9	0.0	0.0	0.0	0.0
Standard Deviation								0.48	0.22	8.9	0.0	0.0	0.0	0.0
CV								2.96	0.38	3.56	0.0	0.0	0.0	0.0
Replicate F								0.220	0.159	2.326	0.000	0.000	0.000	0.000
Replicate Prob(F)								0.8054	0.8547	0.1400	1.0000	1.0000	1.0000	1.0000
Treatment F								1.831	2.492	21.662	0.000	0.000	0.000	0.000
Treatment Prob(F)								0.1755	0.0840	0.0001	1.0000	1.0000	1.0000	1.0000

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

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

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval	ZEAMD 7-7-14 Injury Percent 56 DA-A		ZEAMD Injury Percent 56 DA-B 56 DA-C	SETFA 5-26-14 Control Percent 14 DA-A	SETFA 6-5-14 Control Percent 24 DA-A 0 DA-C	SETFA 6-9-14 Control Percent 28 DA-A	SETFA Control Percent 14 DA-B 14 DA-C	SETFA Control Percent 28 DA-B 28 DA-C
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code
1 NONTREATED								
2 KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.5 lb ai/a 0.171 lb ai/a	2.5 qt/a 4 oz/a		PRE PRE	A A	
3 KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C	
4 SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C	
5 SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C	
6 SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C	
7 SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W 2-4"W 2-4"W	B B B	
LSD (P=.05)				0.0	0.0	0.0	0.0	0.0
Standard Deviation				0.0	0.0	0.0	0.0	0.0
CV				0.0	0.0	0.0	0.0	0.0
Replicate F				0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F				0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)				1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval	SETFA 7-7-14 Control Percent 56 DA-A	SETFA Control Percent 56 DA-B 56 DA-C	XANST 5-26-14 Control Percent 14 DA-A	XANST 6-5-14 Control Percent 24 DA-A 0 DA-C	XANST 6-9-14 Control Percent 28 DA-A	XANST Control Percent 14 DA-B 14 DA-C	XANST Control Percent 28 DA-B 28 DA-C
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code
1 NONTREATED	0						
2 KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.5 lb ai/a 0.171 lb ai/a	2.5 qt/a 4 oz/a		PRE A PRE A	99 a 99 a
3 KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 4-6"W C 4-6"W C	99 a 99 a 99 a 99 a
4 SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		PRE A 4-6"W C 4-6"W C	99 a 99 a 99 a
5 SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE A 4-6"W C 4-6"W C	99 a 99 a 99 a
6 SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE A PRE A 4-6"W C 4-6"W C	99 a 99 a 99 a 99 a
7 SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W B 2-4"W B 2-4"W B	99 a 99 a 99 a
LSD (P=.05)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	XANST	XANST	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
							7-7-14 Control Percent	Control Percent	5-26-14 Control Percent	6-5-14 Control Percent	6-9-14 Control Percent	Control Percent	Control Percent
							56 DA-A	56 DA-B	14 DA-A	24 DA-A	28 DA-A	14 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.5 lb ai/a 0.171 lb ai/a		2.5 qt/a 4 oz/a		PRE PRE	A A	99 a	99 a	99 a	99 a
3	KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C	99 a	99 a	99 a	99 a
4	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C	99 a	99 a	94 a	94 a
5	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C	99 a	99 a	94 a	94 a
6	SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C	99 a	99 a	96 a	96 a
7	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W 2-4"W 2-4"W	B B B	99 a	99 a		
LSD (P=.05)							0.0	0.0	0.0	7.6	7.2	0.0	0.0
Standard Deviation							0.0	0.0	0.0	4.0	4.0	0.0	0.0
CV							0.0	0.0	0.0	4.16	4.11	0.0	0.0
Replicate F							0.000	0.000	0.000	5.514	4.671	0.000	0.000
Replicate Prob(F)							1.0000	1.0000	1.0000	0.0312	0.0369	1.0000	1.0000
Treatment F							0.000	0.000	0.000	1.102	1.099	0.000	0.000
Treatment Prob(F)							1.0000	1.0000	1.0000	0.4182	0.4185	1.0000	1.0000

Annual Weed Control in Roundup Ready Corn.

Trial ID: 14-21S-E40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBTR	AMBTR	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
							7-7-14 Control Percent	Control Percent	5-26-14 Control Percent	6-5-14 Control Percent	6-9-14 Control Percent	Control Percent	Control Percent
							56 DA-A	56 DA-B	14 DA-A	24 DA-A	28 DA-A	14 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	NONTREATED						0	0	0	0	0	0	0
2	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG	3.5 lb ai/a 0.171 lb ai/a	2.5 qt/a 4 oz/a			PRE PRE	A A	99 a	99 a	99 a	99 a	99 a
3	KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL	3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v			PRE PRE 4-6"W 4-6"W	A A C C	99 a	99 a	99 a	99 a	99 a
4	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL	1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v			PRE 4-6"W 4-6"W	A C C	99 a	99 a	99 a	93 b	93 a
5	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL	1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 2.5 % v/v			PRE 4-6"W 4-6"W	A C C	99 a	99 a	98 a	93 b	93 a
6	SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL	1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v	2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v			PRE PRE 4-6"W 4-6"W	A A C C	99 a	99 a	99 a	99 a	99 a
7	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL	1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v	2 pt/a 1.5 pt/a 2.5 % v/v			2-4"W 2-4"W 2-4"W	B B B	99 a	99 a		96 a	96 b
LSD (P=.05)							0.0	0.0	0.7	5.3	5.4	1.7	3.9
Standard Deviation							0.0	0.0	0.4	2.8	2.9	0.9	2.1
CV							0.0	0.0	0.39	2.91	3.06	0.96	2.16
Replicate F							0.000	0.000	0.444	2.907	1.858	1.000	1.000
Replicate Prob(F)							1.0000	1.0000	0.6561	0.1125	0.2060	0.4019	0.4019
Treatment F							0.000	0.000	3.333	3.975	2.877	4.000	4.000
Treatment Prob(F)							1.0000	1.0000	0.0692	0.0460	0.0728	0.0297	0.0297

Annual Weed Control in Roundup Ready Corn.

Trial ID: 14-21S-E40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										IPOHE 7-7-14 Control Percent 56 DA-A	IPOHE Control Percent 56 DA-B 56 DA-C	ABUTH 5-26-14 Control Percent 14 DA-A	ABUTH 6-5-14 Control Percent 24 DA-A 0 DA-C	ABUTH 6-9-14 Control Percent 28 DA-A	ABUTH Control Percent 14 DA-B 14 DA-C	ABUTH Control Percent 28 DA-B 28 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code						
1	NONTREATED										0	0	0	0	0	0
2	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.5 lb ai/a 0.171 lb ai/a		2.5 qt/a 4 oz/a		PRE PRE	A A		99 a	99 a	99 a	99 a	99 a	99 a
3	KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C		99 a	99 a	99 a	99 a	99 a	99 a
4	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C		99 a	99 a	99 a	99 a	99 a	99 a
5	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C		99 a	99 a	99 a	99 a	99 a	99 a
6	SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C		99 a	99 a	99 a	99 a	99 a	99 a
7	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W 2-4"W 2-4"W	B B B		93 b	93 b		99 a	99 a	99 a
LSD (P=.05)											3.9	3.9	0.0	0.0	0.0	0.0
Standard Deviation											2.1	2.1	0.0	0.0	0.0	0.0
CV											2.16	2.16	0.0	0.0	0.0	0.0
Replicate F											1.000	1.000	0.000	0.000	0.000	0.000
Replicate Prob(F)											0.4019	0.4019	1.0000	1.0000	1.0000	1.0000
Treatment F											4.000	4.000	0.000	0.000	0.000	0.000
Treatment Prob(F)											0.0297	0.0297	1.0000	1.0000	1.0000	1.0000

Annual Weed Control in Roundup Ready Corn.

Trial ID: 14-21S-E40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ABUTH	ABUTH	AMATA	AMATA	AMATA	AMATA	AMATA
							7-7-14 Control Percent	Control Percent	5-26-14 Control Percent	6-5-14 Control Percent	6-9-14 Control Percent	Control Percent	Control Percent
							56 DA-A	56 DA-B	14 DA-A	24 DA-A	28 DA-A	14 DA-B	28 DA-B
							56 DA-C	56 DA-C				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	NONTREATED									0	0	0	0
2	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.5 lb ai/a 0.171 lb ai/a		2.5 qt/a 4 oz/a		PRE PRE	A A	99 a	99 a	99 a	99 a
3	KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C	99 a	99 a	99 a	99 a
4	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C	99 a	99 a	99 a	99 a
5	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C	99 a	99 a	99 a	99 a
6	SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C	99 a	99 a	99 a	99 a
7	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W 2-4"W 2-4"W	B B B	99 a	99 a		99 a
LSD (P=.05)							0.0	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation							0.0	0.0	0.0	0.0	0.0	0.0	0.0
CV							0.0	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F							0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F							0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)							1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Annual Weed Control in Roundup Ready Corn.

Trial ID: 14-21S-E40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code										AMATA	AMATA
Crop Code										7-7-14	Control
Rating Date										Percent	Percent
Rating Type										56 DA-A	56 DA-B
Rating Unit											56 DA-C
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	
1	NONTREATED										0
2	KEYSTONE NXT HORNET WDG	5.6 SE 68.5 WG		3.5 lb ai/a 0.171 lb ai/a		2.5 qt/a 4 oz/a		PRE PRE	A A		99 a
3	KEYSTONE NXT HORNET WDG DURANGO DMA N-PAK AMS	5.6 SE 68.5 WG 4 SL 100 SL		3.5 lb ai/a 0.171 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 qt/a 4 oz/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C		99 a
4	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C		99 a
5	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1.5 pt/a 2.5 % v/v		PRE 4-6"W 4-6"W	A C C		99 a
6	SURESTART II (GF-3005) AATREX 4L DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 100 SL		1.3 lb ai/a 1 lb ai/a 0.75 lb ae/a 2.5 % v/v		2.5 pt/a 1 qt/a 1.5 pt/a 2.5 % v/v		PRE PRE 4-6"W 4-6"W	A A C C		99 a
7	SURESTART II (GF-3005) DURANGO DMA N-PAK AMS	4.16 SE 4 SL 100 SL		1.04 lb ai/a 0.75 lb ae/a 2.5 % v/v		2 pt/a 1.5 pt/a 2.5 % v/v		2-4"W 2-4"W 2-4"W	B B B		99 a
LSD (P=.05)											0.0
Standard Deviation											0.0
CV											0.0
Replicate F											0.000
Replicate Prob(F)											1.0000
Treatment F											0.000
Treatment Prob(F)											1.0000

Annual Weed Control in Roundup Ready Corn.

Trial ID: 14-21S-E40 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: Dow (RR Corn).
2. Ratings: CI 14, 28, and 56 DA-A; CI 14, 28, and 56 DA-B; CI 14, 28, and 56 DA-C.
WC 14, 28, and 56 DA-A; WC 14, 28, and 56 DA-B; WC 0, 14, 28, and 56 DA-C.
Rate DA-B and DA-C in the same column, even if different rating dates.
3. Yield.
4. Rate PRE treatments prior to POST application C.
5. Photos not requested.
6. Following the PRE application the first rainfall event was 0.88 inch within 4 days.
Following the 2-4"W application the first significant rainfall event was 0.27 inch within 3 days
then 0.67 inch 6 days after application.
7. Ratings at 0 DA-C were also 24 DA-A and 7 DA-B.
Ratings at 28 DA-A were also 11 DA-B and 4 DA-C.
Ratings at 56 DA-A were also 39 DA-B and 32 DA-C.
Ratings at 14 DA-B and 14 DA-C were on 6-12-14 and 6-19-14, respectively.
Ratings at 28 DA-B and 28 DA-C were on 6-26-14 and 7-3-14, respectively.
Ratings at 56 DA-B and 56 DA-C were on 7-24-14 and 7-31-14, respectively.
8. Harvested 10-7-14, (2) 30 inch rows by 27 ft.