

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Status: F one-year/final Initiation Date: 4-18-14 Completion Date: 10-20-14		Trial Location
City: Belleville	Country: USA	
State/Prov.: Illinois IL		
Postal Code: 62221		

Objectives: Evaluate weed control with corn herbicides applied 21 days before planting.

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: 5-9-14 Planting Method: SEEDED	Crop Description
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Pest 1 Type: W Code: RANAB Ranunculus abortivus L. Common Name: buttercup, smallflower Pest 2 Type: W Code: STEME Stellaria media (L.) Vill. Common Name: chickweed, common Pest 3 Type: W Code: LAMPU Lamium purpureum L. Common Name: deadnettle, purple Pest 4 Type: W Code: HORPU Hordeum pusillum Nutt. Common Name: barley, lit le Pest 5 Type: W Code: CHEAL Chenopodium album L. Common Name: lambsquarters, common Pest 6 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant Pest 7 Type: W Code: SETFA Setaria faberi Herrm. Common Name: foxtail, giant Pest 8 Type: W Code: ABUTH Abutilon theophras i Medik. Common Name: velvetleaf Pest 9 Type: W Code: AMATA Amaranthus rudis 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: 4 Untreated Arrangement: INCLUDED single control randomized in each block	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: NOTILL no-till Study Design: RACOB L Randomized Complete Block (RCB)
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No.	Previous Crop	Year
1.	GLXMA	2013

Maintenance <table border="1"> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> <tr> <td>1.</td> <td>N 150 LB/A, P2O5 50 LB/A, K2O 150 LB/A</td> </tr> </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: 2.9 Texture: SIL silt loam pH: 6.7 Soil Name: Caseyville CEC: 7	Soil Description
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Element	Quantity	Unit
P1	63	lb/A
K	323	lb/A

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Moisture and Weather Conditions										
Overall Moisture Conditions: NORMAL										
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.	4-1-14	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			
63.	10-12-14	1.24	IN	RAIN	rain	3	DAY			
64.	10-14-14					7	DAY	37	73	F
65.	10-21-14					7	DAY	36	82	F

Evaluation of Corn Herbicides Applied 21 Days before Planting.

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Investigator: Ronald F. Krausz**Application Description**

	A	B
Application Date:	4-18-14	6-3-14
Appl. Start Time:	7:30	10 00
Appl. Stop Time:	8:00	10:30
Application Method:	Spray	Spray
Application Timing:	21DBP	4-6"W
Application Placement:	BROFOL	BROFOL
Applied By:	RFK	LXF
Air Temperature, Unit:	55 F	84 F
% Relative Humidity:	71	67
Wind Velocity, Unit:	0 MPH	5 MPH
Wind Direction:		W
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	53 F	74 F
Soil Moisture:	ABONOR	NORMAL
% Cloud Cover:	0	25
Next Moisture Occurred On:	4-18-14	6-4-14
Time to Next Moisture, Unit:	2 DAY	20 HR

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD	ZEAMD
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V6
Stage Minimum, Percent:		V5
Stage Maximum, Percent:		V6
Height, Unit:		16 IN
Height Minimum, Maximum:		14 16

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Investigator: Ronald F. Krausz**Pest Stage At Each Application**

	A	B
Pest 1 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	10+	NA
Stage Minimum, Percent:	10+	
Stage Maximum, Percent:	10+	
Height, Unit:	3 IN	
Height Minimum, Maximum:	2 4	
Density, Unit:	2 FT2	
Pest 2 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	NA	NA
Pest 3 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	10+	NA
Stage Minimum, Percent:	10+	
Stage Maximum, Percent:	10+	
Height, Unit:	4 IN	
Height Minimum, Maximum:	4 6	
Density, Unit:	3 FT2	
Pest 4 Code, Type, Scale:	HORPU W	HORPU W
Stage Majority, Percent:	6	NA
Stage Minimum, Percent:	5	
Stage Maximum, Percent:	6	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2 4	
Density, Unit:	0.01 FT2	
Pest 5 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	6	6
Stage Minimum, Percent:	4	2
Stage Maximum, Percent:	6	8
Height, Unit:	1 IN	3 IN
Height Minimum, Maximum:	0.25 1	2 4
Density, Unit:	0.1 FT2	0.01 FT2
Pest 6 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		5
Stage Maximum, Percent:		8
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		0.001 FT2
Pest 7 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	NA	5
Stage Minimum, Percent:		4
Stage Maximum, Percent:		6
Height, Unit:		5 IN
Height Minimum, Maximum:		4 6
Density, Unit:		1 FT2
Pest 8 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	NA
Pest 9 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	NA	8
Stage Minimum, Percent:		6
Stage Maximum, Percent:		10
Height, Unit:		7 IN
Height Minimum, Maximum:		6 8
Density, Unit:		0.1 FT2

Application Equipment

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

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Pest Code Crop Code Rating Date					ZEAMD 10-20-14	ZEAMD 10-20-14	ZEAMD 10-20-14
Rating Type Rating Unit Rating Timing Trt-Eval Interval					Moisture Percent	Test wt lb/bu	Yield bu/A
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Appl Stage Code			
1 NONTREATED							11 b
2 SURESTART II (GF-3005) DURANGO DMA 2,4-D AMINE 4 N-PAK AMS DURANGO DMA N-PAK AMS	4.16 SE 4 SL 3.8 SL 100 SL 4 SL 100 SL	1.56 lb ai/a 0.75 lb ae/a 0.475 lb ae/a 2.5 % v/v 0.75 lb ae/a 2.5 % v/v	3 pt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.5 a	57.7 a	197 a
3 SURESTART II (GF-3005) AATREX 4L DURANGO DMA 2,4-D AMINE 4 N-PAK AMS DURANGO DMA N-PAK AMS	4.16 SE 4 SC 4 SL 3.8 SL 100 SL 4 SL 100 SL	1.56 lb ai/a 1 lb ai/a 0.75 lb ae/a 0.475 lb ae/a 2.5 % v/v 0.75 lb ae/a 2.5 % v/v	3 pt/a 1 qt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.3 a	57.9 a	208 a
4 CORVUS ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	2.63 SC 4.5 SL 100 SL 4.5 SL 100 SL	0.115 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	5.6 fl oz/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.1 a	58.0 a	210 a
5 CORVUS AATREX 4L ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	2.63 SC 4 SC 4.5 SL 100 SL 4.5 SL 100 SL	0.115 lb ai/a 2 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	5.6 fl oz/a 2 qt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.1 a	58.0 a	197 a
6 ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL 4.5 SL 100 SL	1.4 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	2.5 pt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.3 a	57.9 a	202 a
7 ANTHEM ATZ AATREX 4L ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4 SC 4.5 SL 100 SL 4.5 SL 100 SL	1.4 lb ai/a 0.75 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.1 a	58.1 a	217 a
8 DEGREE XTRA ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.04 CS 4.5 SL 100 SL 4.5 SL 100 SL	3.03 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	3 qt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.2 a	58.0 a	204 a
9 DEGREE XTRA AATREX 4L ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.04 CS 4 SC 4.5 SL 100 SL 4.5 SL 100 SL	3.03 lb ai/a 1 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	3 qt/a 1 qt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.0 a	58.0 a	202 a
10 LEXAR EZ TOUCHDOWN TOTAL N-PAK AMS TOUCHDOWN TOTAL N-PAK AMS	3.7 SC 4.17 SL 100 SL 4.17 SL 100 SL	2.78 lb ai/a 0.98 lb ae/a 2.5 % v/v 0.98 lb ae/a 2.5 % v/v	3 qt/a 30 fl oz/a 2.5 % v/v 30 fl oz/a 2.5 % v/v	21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B	16.2 a	57.9 a	218 a

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							ZEAMD 10-20-14	ZEAMD 10-20-14	ZEAMD 10-20-14
Rating Type Rating Unit Rating Timing Trt-Eval Interval							Moisture Percent	Test wt lb/bu	Yield bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
11	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a	21DBP A	15.9 a	58.1 a	194 a
	AATREX 4L	4	SC	0.7 lb ai/a	1.4 pt/a	21DBP A			
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	21DBP A			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	21DBP A			
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	4-6"W B			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	4-6"W B			
12	CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a	21DBP A	16.2 a	58.0 a	213 a
	AATREX 4L	4	SC	2 lb ai/a	2 qt/a	21DBP A			
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	21DBP A			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	21DBP A			
13	ANTHEM ATZ	4.5	SE	1.4 lb ai/a	2.5 pt/a	21DBP A	16.2 a	57.9 a	207 a
	AATREX 4L	4	SC	0.75 lb ai/a	1.5 pt/a	21DBP A			
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	21DBP A			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	21DBP A			
14	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a	21DBP A	16.3 a	57.8 a	207 a
	AATREX 4L	4	SC	0.7 lb ai/a	1.4 pt/a	21DBP A			
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a	21DBP A			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	21DBP A			
LSD (P=.05)							0.59	0.24	29.9
Standard Deviation							0.41	0.17	20.9
CV							2.54	0.29	10.9
Replicate F							4.414	9.605	1.071
Replicate Prob(F)							0.0096	0.0001	0.3724
Treatment F							0.593	1.643	25.404
Treatment Prob(F)							0.8335	0.1231	0.0001

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										ZEAMD 5-23-14 Injury Percent 14 DAP 35 DA-A	ZEAMD 6-3-14 Injury Percent 25 DAP 0 DA-B	ZEAMD 6-17-14 Injury Percent 14 DA-B	ZEAMD 7-1-14 Injury Percent 28 DA-B	ZEAMD 7-29-14 Injury Percent 56 DA-B	RANAB 5-9-14 Control Percent 0 DAP 21 DA-A	STEME 5-9-14 Control Percent 0 DAP 21 DA-A
Trt Treatment No. Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Other Unit	Growth Stage	Appl Code								
1 NONTREATED									0	0	0	0	0	0	0	0
2 SURESTART II (GF-3005)	4.16	SE	1.56 lb ai/a	3 pt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a			21DBP A									
2,4-D AMINE 4	3.8	SL	0.475 lb ae/a	1 pt/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
3 SURESTART II (GF-3005)	4.16	SE	1.56 lb ai/a	3 pt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
AATREX 4L	4	SC	1 lb ai/a	1 qt/a			21DBP A									
DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a			21DBP A									
2,4-D AMINE 4	3.8	SL	0.475 lb ae/a	1 pt/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
DURANGO DMA	4	SL	0.75 lb ae/a	1.5 pt/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
4 CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
5 CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
AATREX 4L	4	SC	2 lb ai/a	2 qt/a			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
6 ANTHEM ATZ	4.5	SE	1.4 lb ai/a	2.5 pt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
7 ANTHEM ATZ	4.5	SE	1.4 lb ai/a	2.5 pt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
AATREX 4L	4	SC	0.75 lb ai/a	1.5 pt/a			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
8 DEGREE XTRA	4.04	CS	3.03 lb ai/a	3 qt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
9 DEGREE XTRA	4.04	CS	3.03 lb ai/a	3 qt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
AATREX 4L	4	SC	1 lb ai/a	1 qt/a			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									
10 LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a			21DBP A		0 a	0 a	0 a	0 a	0 a	99 a	99 a	
TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a			21DBP A									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			21DBP A									
TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a			4-6"W B									
N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			4-6"W B									

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	ZEAMD 5-23-14 Injury Percent 14 DAP 35 DA-A	ZEAMD 6-3-14 Injury Percent 25 DAP 0 DA-B	ZEAMD 6-17-14 Injury Percent 14 DA-B	ZEAMD 7-1-14 Injury Percent 28 DA-B	ZEAMD 7-29-14 Injury Percent 56 DA-B	RANAB 5-9-14 Control Percent 0 DAP 21 DA-A	STEME 5-9-14 Control Percent 0 DAP 21 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Unit Unit	Growth Stage	Appl Code			
11	LEXAR EZ	3.7	SC	2.78	lb ai/a	3	qt/a		21DBP A		0 a	0 a	0 a
	AATREX 4L	4	SC	0.7	lb ai/a	1.4	pt/a		21DBP A				
	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		21DBP A				
	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a		4-6"W B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W B				
12	CORVUS	2.63	SC	0.115	lb ai/a	5.6	fl oz/a		21DBP A		0 a	0 a	0 a
	AATREX 4L	4	SC	2	lb ai/a	2	qt/a		21DBP A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		21DBP A				
13	ANTHEM ATZ	4.5	SE	1.4	lb ai/a	2.5	pt/a		21DBP A		0 a	0 a	0 a
	AATREX 4L	4	SC	0.75	lb ai/a	1.5	pt/a		21DBP A				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		21DBP A				
14	LEXAR EZ	3.7	SC	2.78	lb ai/a	3	qt/a		21DBP A		0 a	0 a	0 a
	AATREX 4L	4	SC	0.7	lb ai/a	1.4	pt/a		21DBP A				
	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		21DBP 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

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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							LAMPU 5-9-14 Control Percen 0 DAP 21 DA-A	LAMPU 5-23-14 Control Percent 14 DAP 35 DA-A	HORPU 5-9-14 Control Percent 0 DAP 21 DA-A
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Growth Stage	Appl Code		
1 NONTREATED								0	0
2 SURESTART II (GF-3005) DURANGO DMA 2,4-D AMINE 4 N-PAK AMS DURANGO DMA N-PAK AMS	4.16 4 3.8 100 4 100	SE SL SL SL SL SL	1.56 lb ai/a 0.75 lb ae/a 0.475 lb ae/a 2.5 % v/v 0.75 lb ae/a 2.5 % v/v	3 pt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		95 a	99 a
3 SURESTART II (GF-3005) AATREX 4L DURANGO DMA 2,4-D AMINE 4 N-PAK AMS DURANGO DMA N-PAK AMS	4.16 4 4 3.8 100 4 100	SE SC SL SL SL SL SL	1.56 lb ai/a 1 lb ai/a 0.75 lb ae/a 0.475 lb ae/a 2.5 % v/v 0.75 lb ae/a 2.5 % v/v	3 pt/a 1 qt/a 1.5 pt/a 1 pt/a 2.5 % v/v 1.5 pt/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a
4 CORVUS ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	2.63 4.5 100 4.5 100	SC SL SL SL SL	0.115 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	5.6 fl oz/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		95 a	99 a
5 CORVUS AATREX 4L ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	2.63 4 4.5 100 4.5 100	SC SC SL SL SL SL	0.115 lb ai/a 2 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	5.6 fl oz/a 2 qt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a
6 ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 4.5 100 4.5 100	SE SL SL SL SL	1.4 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	2.5 pt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a
7 ANTHEM ATZ AATREX 4L ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.5 4 4.5 100 4.5 100	SE SC SL SL SL SL	1.4 lb ai/a 0.75 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	2.5 pt/a 1.5 pt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a
8 DEGREE XTRA ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.04 4.5 100 4.5 100	CS SL SL SL SL	3.03 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	3 qt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a
9 DEGREE XTRA AATREX 4L ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	4.04 4 4.5 100 4.5 100	CS SC SL SL SL SL	3.03 lb ai/a 1 lb ai/a 1.13 lb ae/a 2.5 % v/v 1.13 lb ae/a 2.5 % v/v	3 qt/a 1 qt/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a
10 LEXAR EZ TOUCHDOWN TOTAL N-PAK AMS TOUCHDOWN TOTAL N-PAK AMS	3.7 4.17 100 4.17 100	SC SL SL SL SL	2.78 lb ai/a 0.98 lb ae/a 2.5 % v/v 0.98 lb ae/a 2.5 % v/v	3 qt/a 30 fl oz/a 2.5 % v/v 30 fl oz/a 2.5 % v/v		21DBP A 21DBP A 21DBP A 4-6"W B 4-6"W B		99 a	99 a

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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								LAMPU	LAMPU	HORPU
								5-9-14 Control Percent 0 DAP 21 DA-A	5-23-14 Control Percent 14 DAP 35 DA-A	5-9-14 Control Percent 0 DAP 21 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
11	LEXAR EZ	3.7	SC	2.78	lb ai/a	3	qt/a	21DBP A		
	AATREX 4L	4	SC	0.7	lb ai/a	1.4	pt/a	21DBP A		
	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	21DBP A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	21DBP A		
	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	4-6"W B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W B		
12	CORVUS	2.63	SC	0.115	lb ai/a	5.6	fl oz/a	21DBP A	99 a	99 a
	AATREX 4L	4	SC	2	lb ai/a	2	qt/a	21DBP A		
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	21DBP A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	21DBP A		
13	ANTHEM ATZ	4.5	SE	1.4	lb ai/a	2.5	pt/a	21DBP A	99 a	99 a
	AATREX 4L	4	SC	0.75	lb ai/a	1.5	pt/a	21DBP A		
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	21DBP A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	21DBP A		
14	LEXAR EZ	3.7	SC	2.78	lb ai/a	3	qt/a	21DBP A	99 a	99 a
	AATREX 4L	4	SC	0.7	lb ai/a	1.4	pt/a	21DBP A		
	TOUCHDOWN TOTAL	4.17	SL	0.98	lb ae/a	30	fl oz/a	21DBP A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	21DBP A		
LSD (P=.05)								0 0	0.0	0.0
Standard Deviation								0 0	0.0	0.0
CV								0 0	0.0	0.0
Replicate F								0.000	0.000	0.000
Replicate Prob(F)								1.0000	1.0000	1.0000
Treatment F								0.000	0.000	0.000
Treatment Prob(F)								1.0000	1.0000	1.0000

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
							5-9-14 Control Percent 0 DAP 21 DA-A	5-23-14 Control Percent 14 DAP 35 DA-A	6-3-14 Control Percent 25 DAP 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED								0	0	0	0
2	SURESTART II (GF-3005)	4.16 SE		1.56 lb ai/a	3 pt/a		21DBP A		99 a	99 a	99 a	99 a
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		21DBP A					
	2,4-D AMINE 4	3.8 SL		0.475 lb ae/a	1 pt/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
3	SURESTART II (GF-3005)	4.16 SE		1.56 lb ai/a	3 pt/a		21DBP A		99 a	99 a	99 a	99 a
	AATREX 4L	4 SC		1 lb ai/a	1 qt/a		21DBP A					
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		21DBP A					
	2,4-D AMINE 4	3.8 SL		0.475 lb ae/a	1 pt/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
4	CORVUS	2.63 SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
5	CORVUS	2.63 SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A		99 a	99 a	99 a	99 a
	AATREX 4L	4 SC		2 lb ai/a	2 qt/a		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
6	ANTHEM ATZ	4.5 SE		1.4 lb ai/a	2.5 pt/a		21DBP A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
7	ANTHEM ATZ	4.5 SE		1.4 lb ai/a	2.5 pt/a		21DBP A		99 a	99 a	99 a	99 a
	AATREX 4L	4 SC		0.75 lb ai/a	1.5 pt/a		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
8	DEGREE XTRA	4.04 CS		3.03 lb ai/a	3 qt/a		21DBP A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
9	DEGREE XTRA	4.04 CS		3.03 lb ai/a	3 qt/a		21DBP A		99 a	99 a	99 a	99 a
	AATREX 4L	4 SC		1 lb ai/a	1 qt/a		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					
10	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		21DBP A		99 a	99 a	99 a	99 a
	TOUCHDOWN TOTAL	4.17 SL		0.98 lb ae/a	30 fl oz/a		21DBP A					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A					
	TOUCHDOWN TOTAL	4.17 SL		0.98 lb ae/a	30 fl oz/a		4-6"W B					
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B					

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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								CHEAL	CHEAL	CHEAL	CHEAL	CHEAL	CHEAL
								5-9-14 Control Percent 0 DAP 21 DA-A	5-23-14 Control Percent 14 DAP 35 DA-A	6-3-14 Control Percent 25 DAP 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
11	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a		21DBP A		99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	0.7 lb ai/a	1.4 pt/a		21DBP A						
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a		21DBP A						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		21DBP A						
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a		4-6"W B						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W B						
12	CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a		21DBP A		99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	2 lb ai/a	2 qt/a		21DBP A						
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		21DBP A						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		21DBP A						
13	ANTHEM ATZ	4.5	SE	1.4 lb ai/a	2.5 pt/a		21DBP A		99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	0.75 lb ai/a	1.5 pt/a		21DBP A						
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		21DBP A						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		21DBP A						
14	LEXAR EZ	3.7	SC	2.78 lb ai/a	3 qt/a		21DBP A		99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	0.7 lb ai/a	1.4 pt/a		21DBP A						
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a	30 fl oz/a		21DBP A						
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		21DBP A						
LSD (P=.05)								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
CV								0.0	0.0	0.0	0.0	0.0	0.0
Replicate F								0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F								0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)								1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Southern Illinois University

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	AMBTR	AMBTR	AMBTR	AMBTR
								5-9-14 Control Percent 0 DAP 21 DA-A	5-23-14 Control Percent 14 DAP 35 DA-A	6-3-14 Control Percent 25 DAP 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl					
No.	Name	Conc	Type	Unit	Rate	Rate	Unit	Stage	Code				
1	NONTREATED								0	0	0	0	0
2	SURESTART II (GF-3005)	4.16	SE		1.56 lb ai/a	3 pt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	DURANGO DMA	4	SL		0.75 lb ae/a	1.5 pt/a		21DBP A					
	2,4-D AMINE 4	3.8	SL		0.475 lb ae/a	1 pt/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	DURANGO DMA	4	SL		0.75 lb ae/a	1.5 pt/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
3	SURESTART II (GF-3005)	4.16	SE		1.56 lb ai/a	3 pt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		21DBP A					
	DURANGO DMA	4	SL		0.75 lb ae/a	1.5 pt/a		21DBP A					
	2,4-D AMINE 4	3.8	SL		0.475 lb ae/a	1 pt/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	DURANGO DMA	4	SL		0.75 lb ae/a	1.5 pt/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
4	CORVUS	2.63	SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
5	CORVUS	2.63	SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		2 lb ai/a	2 qt/a		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
6	ANTHEM ATZ	4.5	SE		1.4 lb ai/a	2.5 pt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
7	ANTHEM ATZ	4.5	SE		1.4 lb ai/a	2.5 pt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		0.75 lb ai/a	1.5 pt/a		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
8	DEGREE XTRA	4.04	CS		3.03 lb ai/a	3 qt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
9	DEGREE XTRA	4.04	CS		3.03 lb ai/a	3 qt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	ROUNDUP POWERMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					
10	LEXAR EZ	3.7	SC		2.78 lb ai/a	3 qt/a		21DBP A	99 a	99 a	99 a	99 a	99 a
	TOUCHDOWN TOTAL	4.17	SL		0.98 lb ae/a	30 fl oz/a		21DBP A					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		21DBP A					
	TOUCHDOWN TOTAL	4.17	SL		0.98 lb ae/a	30 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL		2.5 % v/v	2.5 % v/v		4-6"W B					

Southern Illinois University

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	AMBTR	AMBTR	AMBTR	AMBTR
								5-9-14 Control Percent 0 DAP 21 DA-A	5-23-14 Control Percent 14 DAP 35 DA-A	6-3-14 Control Percent 25 DAP 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl					
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Stage	Code				
11	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		21DBP A		99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	0.7 lb ai/a		1.4 pt/a		21DBP A					
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		21DBP A					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A					
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		4-6"W B					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W B					
12	CORVUS	2.63	SC	0.115 lb ai/a		5.6 fl oz/a		21DBP A		99 a	99 a	99 a	98 a
	AATREX 4L	4	SC	2 lb ai/a		2 qt/a		21DBP A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A					
13	ANTHEM ATZ	4.5	SE	1.4 lb ai/a		2.5 pt/a		21DBP A		99 a	99 a	99 a	98 a
	AATREX 4L	4	SC	0.75 lb ai/a		1.5 pt/a		21DBP A					
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		21DBP A					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A					
14	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		21DBP A		99 a	99 a	99 a	99 a
	AATREX 4L	4	SC	0.7 lb ai/a		1.4 pt/a		21DBP A					
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		21DBP A					
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A					
LSD (P=.05)								0 0	0 0	0 4	1 1	1 1	1 1
Standard Deviation								0 0	0 0	0 3	0 8	0 8	0 8
CV								0 0	0 0	0 28	0 79	0 79	0 79
Replicate F								0.000	0.000	0.649	0.541	0.541	0.541
Replicate Prob(F)								1.0000	1.0000	0.5889	0.6575	0.6575	0.6575
Treatment F								0.000	0.000	0.730	1.198	1.198	1.198
Treatment Prob(F)								1.0000	1.0000	0.7135	0.3216	0.3216	0.3216

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	ABUTH	ABUTH	ABUTH
							5-23-14 Control Percen 14 DAP 35 DA-A	6-3-14 Control Percen 25 DAP 0 DA-B	6-17-14 Control Percen 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED								0	0	0
2	SURESTART II (GF-3005)	4.16 SE		1.56 lb ai/a	3 pt/a		21DBP A		99 a	98 a	99 a
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		21DBP A				
	2,4-D AMINE 4	3.8 SL		0.475 lb ae/a	1 pt/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
3	SURESTART II (GF-3005)	4.16 SE		1.56 lb ai/a	3 pt/a		21DBP A		99 a	98 a	99 a
	AATREX 4L	4 SC		1 lb ai/a	1 qt/a		21DBP A				
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		21DBP A				
	2,4-D AMINE 4	3.8 SL		0.475 lb ae/a	1 pt/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
4	CORVUS	2.63 SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A		98 a	97 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
5	CORVUS	2.63 SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A		99 a	99 a	99 a
	AATREX 4L	4 SC		2 lb ai/a	2 qt/a		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
6	ANTHEM ATZ	4.5 SE		1.4 lb ai/a	2.5 pt/a		21DBP A		98 a	93 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
7	ANTHEM ATZ	4.5 SE		1.4 lb ai/a	2.5 pt/a		21DBP A		97 a	94 a	99 a
	AATREX 4L	4 SC		0.75 lb ai/a	1.5 pt/a		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
8	DEGREE XTRA	4.04 CS		3.03 lb ai/a	3 qt/a		21DBP A		92 a	92 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
9	DEGREE XTRA	4.04 CS		3.03 lb ai/a	3 qt/a		21DBP A		96 a	96 a	99 a
	AATREX 4L	4 SC		1 lb ai/a	1 qt/a		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				
10	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		21DBP A		97 a	99 a	99 a
	TOUCHDOWN TOTAL	4.17 SL		0.98 lb ae/a	30 fl oz/a		21DBP A				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A				
	TOUCHDOWN TOTAL	4.17 SL		0.98 lb ae/a	30 fl oz/a		4-6"W B				
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B				

Southern Illinois University

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	ABUTH	ABUTH	ABUTH
								5-23-14 Control Percen 14 DAP 35 DA-A	6-3-14 Control Percen 25 DAP 0 DA-B	6-17-14 Control Percen 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Stage	Code			
11	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		21DBP A		99 a	99 a	99 a
	AATREX 4L	4	SC	0.7 lb ai/a		1.4 pt/a		21DBP A				
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A				
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		4-6"W B				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W B				
12	CORVUS	2.63	SC	0.115 lb ai/a		5.6 fl oz/a		21DBP A		99 a	99 a	98 a
	AATREX 4L	4	SC	2 lb ai/a		2 qt/a		21DBP A				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A				
13	ANTHEM ATZ	4.5	SE	1.4 lb ai/a		2.5 pt/a		21DBP A		99 a	96 a	97 a
	AATREX 4L	4	SC	0.75 lb ai/a		1.5 pt/a		21DBP A				
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A				
14	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		21DBP A		99 a	99 a	98 a
	AATREX 4L	4	SC	0.7 lb ai/a		1.4 pt/a		21DBP A				
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		21DBP A				
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A				
LSD (P=.05)								5.5	6.5	1.4	1.4	1.4
Standard Deviation								3.8	4.6	1.0	1.0	1.0
CV								3.94	4.71	0.96	0.96	0.96
Replicate F								1.045	0.967	2.717	2.717	2.717
Replicate Prob(F)								0.3843	0.4188	0.0589	0.0589	0.0589
Treatment F								1.165	1.261	1.755	1.755	1.755
Treatment Prob(F)								0.3432	0.2827	0.0953	0.0953	0.0953

Southern Illinois University

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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	SETFA	SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA
							5-23-14 Control Percent 14 DAP 35 DA-A	6-3-14 Control Percent 25 DAP 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B	6-3-14 Control Percent 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code							
1	NONTREATED								0	0	0	0	0	0	0
2	SURESTART II (GF-3005)	4.16 SE		1.56 lb ai/a	3 pt/a		21DBP A		86 bc	81 a	99 a	99 a	88 e	99 a	99 a
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		21DBP A								
	2,4-D AMINE 4	3.8 SL		0.475 lb ae/a	1 pt/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
3	SURESTART II (GF-3005)	4.16 SE		1.56 lb ai/a	3 pt/a		21DBP A		84 c	70 a	99 a	99 a	95 a-d	99 a	99 a
	AATREX 4L	4 SC		1 lb ai/a	1 qt/a		21DBP A								
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		21DBP A								
	2,4-D AMINE 4	3.8 SL		0.475 lb ae/a	1 pt/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	DURANGO DMA	4 SL		0.75 lb ae/a	1.5 pt/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
4	CORVUS	2.63 SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A		99 a	97 a	99 a	99 a	93 cd	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
5	CORVUS	2.63 SC		0.115 lb ai/a	5.6 fl oz/a		21DBP A		99 a	99 a	99 a	99 a	95 a-d	99 a	99 a
	AATREX 4L	4 SC		2 lb ai/a	2 qt/a		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
6	ANTHEM ATZ	4.5 SE		1.4 lb ai/a	2.5 pt/a		21DBP A		99 a	99 a	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
7	ANTHEM ATZ	4.5 SE		1.4 lb ai/a	2.5 pt/a		21DBP A		99 a	98 a	99 a	99 a	98 ab	99 a	99 a
	AATREX 4L	4 SC		0.75 lb ai/a	1.5 pt/a		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
8	DEGREE XTRA	4.04 CS		3.03 lb ai/a	3 qt/a		21DBP A		97 a	94 a	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
9	DEGREE XTRA	4.04 CS		3.03 lb ai/a	3 qt/a		21DBP A		96 ab	91 a	99 a	99 a	98 ab	99 a	99 a
	AATREX 4L	4 SC		1 lb ai/a	1 qt/a		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	ROUNDUP POWERMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								
10	LEXAR EZ	3.7 SC		2.78 lb ai/a	3 qt/a		21DBP A		98 a	91 a	99 a	99 a	97 abc	99 a	99 a
	TOUCHDOWN TOTAL	4.17 SL		0.98 lb ae/a	30 fl oz/a		21DBP A								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		21DBP A								
	TOUCHDOWN TOTAL	4.17 SL		0.98 lb ae/a	30 fl oz/a		4-6"W B								
	N-PAK AMS	100 SL		2.5 % v/v	2.5 % v/v		4-6"W B								

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 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										SETFA	SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA
										5-23-14 Control Percent 14 DAP 35 DA-A	6-3-14 Control Percent 25 DAP 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B	6-3-14 Control Percent 0 DA-B	6-17-14 Control Percent 14 DA-B	7-1-14 Control Percent 28 DA-B	7-29-14 Control Percent 56 DA-B
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl										
No.	Name	Conc	Type	Rate	Unit	Rate	Unit	Stage	Code									
11	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		21DBP A		97 a	94 a	99 a	99 a	99 a	86 e	99 a	99 a	99 a
	AATREX 4L	4	SC	0.7 lb ai/a		1.4 pt/a		21DBP A										
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		21DBP A										
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A										
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		4-6"W B										
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		4-6"W B										
12	CORVUS	2.63	SC	0.115 lb ai/a		5.6 fl oz/a		21DBP A		99 a	99 a	90 b	90 b	90 b	91 de	85 d	85 d	85 d
	AATREX 4L	4	SC	2 lb ai/a		2 qt/a		21DBP A										
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		21DBP A										
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A										
13	ANTHEM ATZ	4.5	SE	1.4 lb ai/a		2.5 pt/a		21DBP A		99 a	99 a	99 a	99 a	99 a	98 ab	95 b	95 b	95 b
	AATREX 4L	4	SC	0.75 lb ai/a		1.5 pt/a		21DBP A										
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a		32 fl oz/a		21DBP A										
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A										
14	LEXAR EZ	3.7	SC	2.78 lb ai/a		3 qt/a		21DBP A		99 a	96 a	87 b	87 b	87 b	93 bcd	89 c	89 c	89 c
	AATREX 4L	4	SC	0.7 lb ai/a		1.4 pt/a		21DBP A										
	TOUCHDOWN TOTAL	4.17	SL	0.98 lb ae/a		30 fl oz/a		21DBP A										
	N-PAK AMS	100	SL	2.5 % v/v		2.5 % v/v		21DBP A										
LSD (P=.05)										9.8	19.6	4.6	4.6	4.6	4.9	3.3	3.3	3.3
Standard Deviation										6.9	13.7	3.2	3.2	3.2	3.5	2.3	2.3	2.3
CV										7.13	14.81	3.31	3.31	3.31	3.66	2.41	2.41	2.41
Replicate F										0.420	0.922	0.262	0.262	0.262	5.190	2.522	2.522	2.522
Replicate Prob(F)										0.7395	0.4401	0.8522	0.8522	0.8522	0.0044	0.0732	0.0732	0.0732
Treatment F										2.258	1.524	6.097	6.097	6.097	6.032	15.926	15.926	15.926
Treatment Prob(F)										0.0295	0.1606	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Evaluation of Corn Herbicides Applied 21 Days before Planting.

Trial ID: 14-6C-E140 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: Dow (EPP); SIU (RFK-1).
2. CI 14 and 28 DAP, and CI 14 and 28 DA-B,
WC at planting, 14 and 28 DAP, and WC 0, 14, 28 and 56 DA-B.
3. Yield.
4. DAP = Days after corn planting.
5. Following the 21DBP application the first significant rainfall event was 1.06 inch 6 days later
with a total of 2.5 inch within 12 days of application.
6. By 5-23-14 RANAB, STEME, and HORPU in the nontreated plots were senescing naturally
and could no longer be evaluated.
By 6-3-14 LAMPU in the nontreated plots were senescing naturally and could no longer be evaluated.
At application A, STEME and ABUTH were not prevalent but became more prevalent at rating time.
7. Harvested 10-20-14, (2) 30 inch rows by 27 ft.