

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

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

Objectives: Evaluate Anthem and Anthen ATZ programs.
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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
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Pest 1 Type: W Code: SETFA <i>Setaria faberi</i> Herrm. Common Name: foxtail, giant Pest 2 Type: W Code: AMBTR <i>Ambrosia trifida</i> L. Common Name: ragweed, giant Pest 3 Type: W Code: ABUTH <i>Abutilon theophrasti</i> Medik. Common Name: velvetleaf Pest 4 Type: W Code: IPOHE <i>Ipomoea hederacea</i> (L.) Jacq. Common Name: morningglory, ivyleaf Pest 5 Type: W Code: AMATA <i>Amaranthus rudis</i> Sauer Common Name: waterhemp, common Pest 6 Type: W Code: XANST <i>Xanthium strumarium</i> L. Common Name: cocklebur, 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: 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					

<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	Maintenance
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									
<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	Additional Measured Elements
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.	4-22-14					7	DAY	44	78	F
2.	4-24-14	2.24	IN	RAIN	rain	5	DAY			
3.	4-29-14	0.09	IN	RAIN	rain	2	DAY			
4.	4-29-14					7	DAY	41	87	F
5.	5-6-14					7	DAY	56	86	F
6.	5-8-14	0.13	IN	RAIN	rain	2	DAY			
7.	5-12-14	0.88	IN	RAIN	rain	4	DAY			
8.	5-13-14					7	DAY	37	76	F
9.	5-20-14					7	DAY	55	87	F
10.	5-21-14	0.06	IN	RAIN	rain	1	DAY			
11.	5-25-14	0.49	IN	RAIN	rain	2	DAY			
12.	5-27-14	0.08	IN	RAIN	rain	2	DAY			
13.	5-27-14					7	DAY	60	86	F
14.	5-31-14	0.14	IN	RAIN	rain	1	DAY			
15.	6-1-14	0.13	IN	RAIN	rain	1	DAY			
16.	6-3-14					7	DAY	59	90	F
17.	6-4-14	0.67	IN	RAIN	rain	1	DAY			
18.	6-7-14	0.6	IN	RAIN	rain	1	DAY			
19.	6-9-14	1.38	IN	RAIN	rain	2	DAY			
20.	6-10-14					7	DAY	51	90	F
21.	6-12-14	0.07	IN	RAIN	rain	1	DAY			
22.	6-15-14	0.02	IN	RAIN	rain	1	DAY			
23.	6-17-14					7	DAY	67	92	F
24.	6-20-14	2.09	IN	RAIN	rain	5	DAY			
25.	6-24-14					7	DAY	65	91	F
26.	6-27-14	0.11	IN	RAIN	rain	2	DAY			
27.	7-1-14	0.01	IN	RAIN	rain	1	DAY			
28.	7-1-14					7	DAY	55	90	F
29.	7-7-14	0.79	IN	RAIN	rain	2	DAY			
30.	7-8-14					7	DAY	59	89	F
31.	7-12-14	0.49	IN	RAIN	rain	3	DAY			
32.	7-15-14					7	DAY	54	85	F
33.	7-22-14					7	DAY	57	98	F
34.	7-25-14	0.02	IN	RAIN	rain	1	DAY			
35.	7-29-14					7	DAY	52	89	F
36.	8-1-14	0.04	IN	RAIN	rain	1	DAY			
37.	8-5-14	4.04	IN	RAIN	rain	4	DAY			
38.	8-5-14					7	DAY	66	88	F
39.	8-12-14					7	DAY	57	84	F
40.	8-15-14	1.21	IN	RAIN	rain	3	DAY			
41.	8-19-14					7	DAY	67	95	F
42.	8-20-14	0.11	IN	RAIN	rain	1	DAY			
43.	8-26-14					7	DAY	68	95	F
44.	8-27-14	1.56	IN	RAIN	rain	2	DAY			
45.	9-1-14	2.21	IN	RAIN	rain	2	DAY			
46.	9-2-14					7	DAY	54	93	F
47.	9-5-14	0.24	IN	RAIN	rain	1	DAY			
48.	9-9-14					7	DAY	45	85	F
49.	9-10-14	1.06	IN	RAIN	rain	1	DAY			
50.	9-16-14					7	DAY	46	86	F
51.	9-23-14					7	DAY	46	86	F
52.	9-30-14					7	DAY	37	87	F
53.	10-1-14	0.99	IN	RAIN	rain	3	DAY			
54.	10-6-14	0.31	IN	RAIN	rain	2	DAY			
55.	10-7-14					7	DAY	46	77	F

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	A	B	C
Application Date:	5-12-14	5-29-14	6-3-14
Appl. Start Time:	19:00	14:00	12:00
Appl. Stop Time:	20:00	14:35	12:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	2-4"W-2
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	RJW+LXF	MJ	LXF
Air Temperature, Unit:	77 F	80 F	85 F
% Relative Humidity:	79	67	63
Wind Velocity, Unit:	10 MPH	7 MPH	5 MPH
Wind Direction:	S	N	W
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	68 F	71 F	74 F
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	0	50	60
Next Moisture Occurred On:	5-13-14	5-31-14	6-4-14
Time to Next Moisture, Unit:	5 HR	2 DAY	18 HR

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	6
Stage Minimum, Percent:		5	3
Stage Maximum, Percent:		6	6
Height, Unit:		4 IN	4 IN
Height Minimum, Maximum:		4 6	3 5
Density, Unit:		6 FT2	6 FT2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	8	4
Stage Minimum, Percent:		6	4
Stage Maximum, Percent:		8	6
Height, Unit:		4 IN	4 IN
Height Minimum, Maximum:		2 4	2 6
Density, Unit:		0.1 FT2	0.05 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	6	6
Stage Minimum, Percent:		5	4
Stage Maximum, Percent:		6	6
Height, Unit:		3 IN	4 IN
Height Minimum, Maximum:		2 4	2 5
Density, Unit:		3 FT2	2 FT2
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	4	4
Stage Minimum, Percent:		2	0.5
Stage Maximum, Percent:		4	8
Height, Unit:		2 IN	1.5 IN
Height Minimum, Maximum:		1 2	1 2
Density, Unit:		0.1 FT2	0.1 FT2
Pest 5 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	4	4
Stage Minimum, Percent:		2	2
Stage Maximum, Percent:		4	4
Height, Unit:		2 IN	2 IN
Height Minimum, Maximum:		1 2	2 3
Density, Unit:		0.1 FT2	0.1 FT2
Pest 6 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	NA	6	4
Stage Minimum, Percent:		5	2
Stage Maximum, Percent:		8	6
Height, Unit:		3 IN	2 IN
Height Minimum, Maximum:		2 3	1 3
Density, Unit:		0.1 FT2	0.1 FT2

Application Equipment

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

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing										ZEAMD 10-7-14 Moisture Percent	ZEAMD 10-7-14 Test wt. lb/bu	ZEAMD 10-7-14 Yield bu/A	ZEAMD 5-27-14 Injury Percent	ZEAMD 6-5-14 Injury Percent	ZEAMD 6-21-14 Injury Percent
Trt-Eval Interval													5 DAE	14 DAE	30 DAE
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code						
1	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			14.6 a	58.7 a	261 a	0 a	0 a	0 a
	SOLSTICE	4	SC	0.094 lb ai/a	3 fl oz/a	2-4"	W-2 C								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
2	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			14.7 a	58.7 a	260 a	0 a	0 a	0 a
	SOLSTICE	4	SC	0.078 lb ai/a	2.5 fl oz/a	2-4"	W-2 C								
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a	2-4"	W-2 C								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
3	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	PRE	A			14.8 a	58.6 a	264 a	0 a	0 a	0 a
	SOLSTICE	4	SC	0.094 lb ai/a	3 fl oz/a	2-4"	W-2 C								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
4	ANTHEM ATZ	4.5	SE	0.84 lb ai/a	24 fl oz/a	PRE	A			14.7 a	58.7 a	267 a	0 a	0 a	0 a
	SOLSTICE	4	SC	0.078 lb ai/a	2.5 fl oz/a	2-4"	W-2 C								
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a	2-4"	W-2 C								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
5	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			14.5 a	58.8 a	273 a	0 a	0 a	0 a
	STANZA	68.5	WG	0.116 lb ai/a	2.7 oz/a	PRE	A								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
6	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			14.8 a	58.6 a	263 a	0 a	0 a	0 a
	CADET	0.91	EC	0.00533 lb ai/a	0.75 fl oz/a	2-4"	W-2 C								
	STANZA	68.5	WG	0.086 lb ai/a	2 oz/a	2-4"	W-2 C								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
7	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	2-4"	W-1 B			14.5 a	58.8 a	256 a		0 a	0 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-1 B								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-1 B								
8	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	2-4"	W-1 B			15.1 a	58.5 a	265 a		0 a	0 a
	STANZA	68.5	WG	0.086 lb ai/a	2 oz/a	2-4"	W-1 B								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-1 B								
	COC (PRIME OIL)	100	SL	1 % v/v	1 % v/v	2-4"	W-1 B								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-1 B								
9	LUMAX	3.948	SE	1.48 lb ai/a	1.5 qt/a	PRE	A			14.5 a	58.8 a	261 a	0 a	0 a	0 a
	ANTHEM ATZ	4.5	SE	0.84 lb ai/a	24 fl oz/a	2-4"	W-2 C								
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
10	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a	PRE	A			14.7 a	58.6 a	259 a	0 a	0 a	0 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
11	CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a	PRE	A			14.6 a	58.7 a	269 a	0 a	0 a	0 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C								
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-2 C								
12	HALEX GT	4.389	CS	1.98 lb ai/a	3.6 pt/a	2-4"	W-1 B			14.4 a	58.8 a	260 a		0 a	0 a
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2-4"	W-1 B								
13	NONTREATED									15.1 a	58.4 a	160 b	0	0	0

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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[illegible]

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	SETFA	SETFA	SETFA	SEFTA	SETFA	SETFA	SETFA
							5-27-14 Control Percent	6-8-14 Control Percent	6-11-14 Control Percent	6-18-14 Control Percent	7-3-14 Control Percent	7-11-14 Control Percent	8-2-14 Control Percent
							15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			86 bc	99 a	99 a	99 a
	SOLSTICE	4	SC	0.094 lb ai/a	3 fl oz/a	2-4"W-2 C							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
2	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			88 abc	99 a	99 a	99 a
	SOLSTICE	4	SC	0.078 lb ai/a	2 5 fl oz/a	2-4"W-2 C							
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a	2-4"W-2 C							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
3	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	PRE	A			88 abc	99 a	99 a	99 a
	SOLSTICE	4	SC	0.094 lb ai/a	3 fl oz/a	2-4"W-2 C							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
4	ANTHEM ATZ	4.5	SE	0.84 lb ai/a	24 fl oz/a	PRE	A			65 d	99 a	99 a	99 a
	SOLSTICE	4	SC	0.078 lb ai/a	2 5 fl oz/a	2-4"W-2 C							
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a	2-4"W-2 C							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
5	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			89 abc	99 a	99 a	99 a
	STANZA	68.5	WG	0.116 lb ai/a	2.7 oz/a	PRE	A						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
6	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			79 c	99 a	99 a	99 a
	CADET	0.91	EC	0.00533 lb ai/a	0.75 fl oz/a	2-4"W-2 C							
	STANZA	68.5	WG	0.086 lb ai/a	2 oz/a	2-4"W-2 C							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
7	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	2-4"W-1 B					99 a	99 a	99 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-1 B							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-1 B							
8	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	2-4"W-1 B					99 a	99 a	99 a
	STANZA	68.5	WG	0.086 lb ai/a	2 oz/a	2-4"W-1 B							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-1 B							
	COC (PRIME OIL)	100	SL	1 % v/v	1 % v/v	2-4"W-1 B							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-1 B							
9	LUMAX	3.948	SE	1.48 lb ai/a	1 5 qt/a	PRE	A			96 ab	99 a	99 a	99 a
	ANTHEM ATZ	4.5	SE	0.84 lb ai/a	24 fl oz/a	2-4"W-2 C							
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
10	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a	PRE	A			98 ab	99 a	99 a	99 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
11	CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a	PRE	A			89 abc	99 a	99 a	99 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C							
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C							
12	HALEX GT	4.389	CS	1.98 lb ai/a	3.6 pt/a	2-4"W-1 B					99 a	99 a	99 a
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"W-1 B							
13	NONTREATED									0	0	0	0

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code									SETFA	SETFA	SETFA	SEFTA	SETFA	SETFA	SETFA
Crop Code															
Rating Date									5-27-14	6-8-14	6-11-14	6-18-14	7-3-14	7-11-14	8-2-14
Rating Type									Control	Control	Control	Control	Control	Control	Control
Rating Unit									Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing										10 DA-B		20 DA-B	35 DA-B		65 DA-B
Trt-Eval Interval									15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt Treatment No. Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code							
14 LUMAX	3.948 SE		2.96 lb ai/a		3 qt/a		PRE A		99 a	99 a	99 a	99 a	99 a	99 a	99 a
ROUNDUP PMAX	4.5 SL		1.13 lb ae/a		32 fl oz/a		2-4"W-2 C								
N-PAK AMS	100 SL		2.5 % v/v		2.5 % v/v		2-4"W-2 C								
LSD (P=.05)									12.7	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation									8.8	0.0	0.0	0.0	0.0	0.0	0.0
CV									10.02	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F									2.327	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)									0.0970	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F									5.244	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)									0.0004	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 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	AMBTR
							5-27-14 Control Percent	6-8-14 Control Percent 10 DA-B	6-11-14 Control Percent	6-18-14 Control Percent 20 DA-B	7-3-14 Control Percent 35 DA-B	7-11-14 Control Percent	8-2-14 Control Percent 65 DA-B
							15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ANTHEM SOLSTICE ROUNDUP PMAX N-PAK AMS	2.15 4 4.5 100	SE SC SL SL	0.134 0.094 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	8 3 32 2	fl oz/a fl oz/a fl oz/a % v/v	PRE 2-4" 2-4" 2-4"	A W-2 C W-2 C W-2 C	0 c	96 b	96 b	99 a
2	ANTHEM SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	2.15 4 4 4.5 100	SE SC SC SL SL	0.134 0.078 0.5 1.13 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	8 2 16 32 2	fl oz/a fl oz/a fl oz/a fl oz/a % v/v	PRE 2-4" 2-4" 2-4" 2-4"	A W-2 C W-2 C W-2 C W-2 C	0 c	98 a	98 a	99 a
3	ANTHEM ATZ SOLSTICE ROUNDUP PMAX N-PAK AMS	4.5 4 4.5 100	SE SC SL SL	1.13 0.094 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	32 3 32 2	fl oz/a fl oz/a fl oz/a % v/v	PRE 2-4" 2-4" 2-4"	A W-2 C W-2 C W-2 C	81 b	99 a	99 a	99 a
4	ANTHEM ATZ SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	4.5 4 4 4.5 100	SE SC SC SL SL	0.84 0.078 0.5 1.13 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	24 2 16 32 2	fl oz/a fl oz/a fl oz/a fl oz/a % v/v	PRE 2-4" 2-4" 2-4" 2-4"	A W-2 C W-2 C W-2 C W-2 C	90 ab	99 a	99 a	99 a
5	ANTHEM STANZA ROUNDUP PMAX N-PAK AMS	2.15 68.5 4.5 100	SE WG SL SL	0.134 0.116 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	8 2.7 32 2	fl oz/a oz/a fl oz/a % v/v	PRE PRE 2-4" 2-4"	A A W-2 C W-2 C	99 a	99 a	99 a	99 a
6	ANTHEM CADET STANZA ROUNDUP PMAX N-PAK AMS	2.15 0.91 68.5 4.5 100	SE EC WG SL SL	0.134 0.00533 0.086 1.13 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	8 0.75 2 32 2	fl oz/a fl oz/a oz/a fl oz/a % v/v	PRE 2-4" 2-4" 2-4" 2-4"	A W-2 C W-2 C W-2 C W-2 C	0 c	98 a	98 a	99 a
7	ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	4.5 4.5 100	SE SL SL	1.13 1.13 2.5	lb ai/a lb ae/a % v/v	32 32 2	fl oz/a fl oz/a % v/v	2-4" 2-4" 2-4"	W-1 B W-1 B W-1 B		99 a	99 a	99 a
8	ANTHEM ATZ STANZA ROUNDUP PMAX COC (PRIME OIL) N-PAK AMS	4.5 68.5 4.5 100 100	SE WG SL SL SL	1.13 0.086 1.13 1 2.5	lb ai/a lb ai/a lb ae/a % v/v % v/v	32 2 32 1 2	fl oz/a oz/a fl oz/a v/v % v/v	2-4" 2-4" 2-4" 2-4" 2-4"	W-1 B W-1 B W-1 B W-1 B W-1 B		99 a	99 a	99 a
9	LUMAX ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	3.948 4.5 4.5 100	SE SE SL SL	1.48 0.84 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	1 24 32 2	qt/a fl oz/a fl oz/a % v/v	PRE 2-4" 2-4" 2-4"	A W-2 C W-2 C W-2 C	99 a	99 a	99 a	99 a
10	SURESTART ROUNDUP PMAX N-PAK AMS	4.25 4.5 100	SE SL SL	1.06 1.13 2.5	lb ai/a lb ae/a % v/v	2 32 2	pt/a fl oz/a % v/v	PRE 2-4" 2-4"	A W-2 C W-2 C	99 a	99 a	99 a	99 a
11	CORVUS ROUNDUP PMAX N-PAK AMS	2.63 4.5 100	SC SL SL	0.115 1.13 2.5	lb ai/a lb ae/a % v/v	5 32 2	fl oz/a fl oz/a % v/v	PRE 2-4" 2-4"	A W-2 C W-2 C	99 a	99 a	99 a	99 a
12	HALEX GT N-PAK AMS	4.389 100	CS SL	1.98 2.5	lb ai/a % v/v	3 2	pt/a % v/v	2-4" 2-4"	W-1 B W-1 B		99 a	99 a	99 a
13	NONTREATED									0	0	0	0

Anthem / Anthem ATZ Full Sales Program.

Trial ID:14-21S-MMW70 Location:Belleville Res. Center Trial Year:2014
Investigator:Ronald F. Krausz

Pest Code									AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code																
Rating Date									5-27-14	6-8-14	6-11-14	6-18-14	7-3-14	7-11-14	8-2-14	
Rating Type									Control	Control	Control	Control	Control	Control	Control	
Rating Unit									Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Timing									10 DA-B	10 DA-B	20 DA-B	20 DA-B	35 DA-B	35 DA-B	65 DA-B	
Trt-Eval Interval									15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C	
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Code									
14 LUMAX	3.948 SE		2.96 lb ai/a	3 qt/a		PRE	A	99 a		99 a	99 a	99 a	99 a	99 a	99 a	99 a
ROUNDUP PMAX	4.5 SL		1.13 lb ae/a	32 fl oz/a		2-4"W-2 C										
N-PAK AMS	100 SL		2.5 % v/v	2 5 % v/v		2-4"W-2 C										
LSD (P=.05)								9.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
Standard Deviation								6.8	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
CV								10.19	0.97	0.97	0.0	0.0	0.0	0.0	0.0	0.0
Replicate F								1.000	1.245	1.245	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)								0.4079	0.3077	0.3077	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F								186.304	3.340	3.340	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)								0.0001	0.0025	0.0025	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Southern Illinois University

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 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	ABUTH	ABUTH
							5-27-14 Control Percent	6-8-14 Control Percent	6-11-14 Control Percent	6-18-14 Control Percent	7-3-14 Control Percent	7-11-14 Control Percent	8-2-14 Control Percent
							15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ANTHEM SOLSTICE ROUNDUP PMAX N-PAK AMS	2.15 4 4.5 100	SE SC SL SL	0.134 0.094 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	8 fl oz/a 3 fl oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C		0 d	99 a	99 a	99 a
2	ANTHEM SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	2.15 4 4 4.5 100	SE SC SC SL SL	0.134 0.078 0.5 1.13 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	8 fl oz/a 2 5 fl oz/a 16 fl oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C		0 d	99 a	99 a	99 a
3	ANTHEM ATZ SOLSTICE ROUNDUP PMAX N-PAK AMS	4.5 4 4.5 100	SE SC SL SL	1.13 0.094 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	32 fl oz/a 3 fl oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C		80 b	99 a	99 a	99 a
4	ANTHEM ATZ SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	4.5 4 4 4.5 100	SE SC SC SL SL	0.84 0.078 0.5 1.13 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	24 fl oz/a 2 5 fl oz/a 16 fl oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C		58 c	99 a	99 a	99 a
5	ANTHEM STANZA ROUNDUP PMAX N-PAK AMS	2.15 68.5 4.5 100	SE WG SL SL	0.134 0.116 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	8 fl oz/a 2.7 oz/a 32 fl oz/a 2 5 % v/v	PRE PRE 2-4"W-2 C 2-4"W-2 C	A A C C		97 a	99 a	99 a	99 a
6	ANTHEM CADET STANZA ROUNDUP PMAX N-PAK AMS	2.15 0.91 68.5 4.5 100	SE EC WG SL SL	0.134 0.00533 0.086 1.13 2.5	lb ai/a lb ai/a lb ai/a lb ae/a % v/v	8 fl oz/a 0.75 fl oz/a 2 oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C C		0 d	99 a	99 a	99 a
7	ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	4.5 4.5 100	SE SL SL	1.13 1.13 2.5	lb ai/a lb ae/a % v/v	32 fl oz/a 32 fl oz/a 2 5 % v/v	2-4"W-1 B 2-4"W-1 B 2-4"W-1 B				99 a	99 a	99 a
8	ANTHEM ATZ STANZA ROUNDUP PMAX COC (PRIME OIL) N-PAK AMS	4.5 68.5 4.5 100 100	SE WG SL SL SL	1.13 0.086 1.13 1 2.5	lb ai/a lb ai/a lb ae/a % v/v % v/v	32 fl oz/a 2 oz/a 32 fl oz/a 1 % v/v 2 5 % v/v	2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B				99 a	99 a	99 a
9	LUMAX ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	3.948 4.5 4.5 100	SE SE SL SL	1.48 0.84 1.13 2.5	lb ai/a lb ai/a lb ae/a % v/v	1 5 qt/a 24 fl oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A C C C		99 a	99 a	99 a	99 a
10	SURESTART ROUNDUP PMAX N-PAK AMS	4.25 4.5 100	SE SL SL	1.06 1.13 2.5	lb ai/a lb ae/a % v/v	2 pt/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C	A C C		99 a	99 a	99 a	99 a
11	CORVUS ROUNDUP PMAX N-PAK AMS	2.63 4.5 100	SC SL SL	0.115 1.13 2.5	lb ai/a lb ae/a % v/v	5.6 fl oz/a 32 fl oz/a 2 5 % v/v	PRE 2-4"W-2 C 2-4"W-2 C	A C C		99 a	99 a	99 a	99 a
12	HALEX GT N-PAK AMS	4.389 100	CS SL	1.98 2.5	lb ai/a % v/v	3.6 pt/a 2 5 % v/v	2-4"W-1 B 2-4"W-1 B				99 a	99 a	99 a
13	NONTREATED									0	0	0	0

Anthem / Anthem ATZ Full Sales Program.

Trial ID:14-21S-MMW70 Location:Belleville Res. Center Trial Year:2014
Investigator:Ronald F. Krausz

Pest Code		ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code		5-27-14	6-8-14	6-11-14	6-18-14	7-3-14	7-11-14
Rating Date		Control	Control	Control	Control	Control	Control
Rating Type		Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit		10 DA-B	10 DA-B	20 DA-B	35 DA-B	60 DA-A	65 DA-B
Rating Timing							
Trt-Eval Interval		15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A
Trt Treatment No. Name	Form Form Conc Type Rate	Rate Unit	Other Other Rate Rate	Growth Unit Stage	Appl Code		
14 LUMAX	3.948 SE	2.96 lb ai/a	3 qt/a	PRE A		99 a	99 a
ROUNDUP PMAX	4.5 SL	1.13 lb ae/a	32 fl oz/a	2-4"W-2 C		99 a	99 a
N-PAK AMS	100 SL	2.5 % v/v	2 5 % v/v	2-4"W-2 C			
LSD (P=.05)		7.1	0.0	0.0	0.0	0.0	0.0
Standard Deviation		4.9	0.0	0.0	0.0	0.0	0.0
CV		7.78	0.0	0.0	0.0	0.0	0.0
Replicate F		1.208	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)		0.3257	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F		343.148	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)		0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 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	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
							5-27-14 Control Percent	6-8-14 Control Percent	6-11-14 Control Percent	6-18-14 Control Percent	7-3-14 Control Percent	7-11-14 Control Percent	8-2-14 Control Percent
							15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			0 c	97 abc	97 abc	99 a
	SOLSTICE	4	SC	0.094 lb ai/a	3 fl oz/a	2-4"	W-2 C						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
2	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			0 c	97 abc	97 abc	99 a
	SOLSTICE	4	SC	0.078 lb ai/a	2 5 fl oz/a	2-4"	W-2 C						
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a	2-4"	W-2 C						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
3	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	PRE	A			90 a	97 abc	97 abc	99 a
	SOLSTICE	4	SC	0.094 lb ai/a	3 fl oz/a	2-4"	W-2 C						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
4	ANTHEM ATZ	4.5	SE	0.84 lb ai/a	24 fl oz/a	PRE	A			89 a	99 a	99 a	98 a
	SOLSTICE	4	SC	0.078 lb ai/a	2 5 fl oz/a	2-4"	W-2 C						
	AATREX 4L	4	SC	0.5 lb ai/a	16 fl oz/a	2-4"	W-2 C						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
5	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			94 a	95 c	95 c	99 a
	STANZA	68.5	WG	0.116 lb ai/a	2.7 oz/a	PRE	A						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
6	ANTHEM	2.15	SE	0.134 lb ai/a	8 fl oz/a	PRE	A			20 b	97 abc	97 abc	99 a
	CADET	0.91	EC	0.00533 lb ai/a	0.75 fl oz/a	2-4"	W-2 C						
	STANZA	68.5	WG	0.086 lb ai/a	2 oz/a	2-4"	W-2 C						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
7	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	2-4"	W-1 B				98 ab	98 ab	99 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-1 B						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-1 B						
8	ANTHEM ATZ	4.5	SE	1.13 lb ai/a	32 fl oz/a	2-4"	W-1 B				98 ab	98 ab	99 a
	STANZA	68.5	WG	0.086 lb ai/a	2 oz/a	2-4"	W-1 B						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-1 B						
	COC (PRIME OIL)	100	SL	1 % v/v	1 % v/v	2-4"	W-1 B						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-1 B						
9	LUMAX	3.948	SE	1.48 lb ai/a	1 5 qt/a	PRE	A			99 a	99 a	99 a	99 a
	ANTHEM ATZ	4.5	SE	0.84 lb ai/a	24 fl oz/a	2-4"	W-2 C						
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
10	SURESTART	4.25	SE	1.06 lb ai/a	2 pt/a	PRE	A			93 a	95 c	95 c	95 b
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
11	CORVUS	2.63	SC	0.115 lb ai/a	5.6 fl oz/a	PRE	A			95 a	96 bc	96 bc	99 a
	ROUNDUP PMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a	2-4"	W-2 C						
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-2 C						
12	HALEX GT	4.389	CS	1.98 lb ai/a	3.6 pt/a	2-4"	W-1 B				90 d	90 d	95 b
	N-PAK AMS	100	SL	2.5 % v/v	2 5 % v/v	2-4"	W-1 B						
13	NONTREATED									0	0	0	0

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Pest Code									IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Crop Code									5-27-14	6-8-14	6-11-14	6-18-14	7-3-14	7-11-14	8-2-14	
Rating Date									Control	Control	Control	Control	Control	Control	Control	Control
Rating Type									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit									10 DA-B	10 DA-B	20 DA-B	20 DA-B	35 DA-B	35 DA-B	65 DA-B	65 DA-B
Rating Timing																
Trt-Eval Interval									15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C	
Trt Treatment No. Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate	Other Unit	Growth Stage	Appl Code							
14 LUMAX	3.948	SE		2.96 lb ai/a	3 qt/a			PRE	A	99 a	97 abc	97 abc	99 a	99 a	99 a	99 a
ROUNDUP PMAX	4.5	SL		1.13 lb ae/a	32 fl oz/a			2-4"W-2 C								
N-PAK AMS	100	SL		2.5 % v/v	2 5 % v/v			2-4"W-2 C								
LSD (P=.05)										18.8	2.9	2.9	2.5	3.0	3.0	3.0
Standard Deviation										13.0	2.0	2.0	1.7	2.1	2.1	2.1
CV										19.15	2.09	2.09	1.75	2.12	2.12	2.12
Replicate F										0.792	4.194	4.194	1.763	4.358	4.358	4.358
Replicate Prob(F)										0.5089	0.0121	0.0121	0.1717	0.0102	0.0102	0.0102
Treatment F										43.176	5.484	5.484	3.665	5.736	5.736	5.736
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0012	0.0001	0.0001	0.0001

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 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							AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
							5-27-14 Control Percent 15 DA-A	6-8-14 Control Percent 10 DA-B 5 DA-C	6-11-14 Control Percent 30 DA-A	6-18-14 Control Percent 20 DA-B 15 DA-C	7-3-14 Control Percent 35 DA-B 30 DA-C	7-11-14 Control Percent 60 DA-A	8-2-14 Control Percent 65 DA-B 60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ANTHEM SOLSTICE ROUNDUP PMAX N-PAK AMS	2.15 SE 4 SC 4.5 SL 100 SL		0.134 lb ai/a 0.094 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	8 fl oz/a 3 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
2	ANTHEM SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	2.15 SE 4 SC 4 SC 4.5 SL 100 SL		0.134 lb ai/a 0.078 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	8 fl oz/a 2 5 fl oz/a 16 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
3	ANTHEM ATZ SOLSTICE ROUNDUP PMAX N-PAK AMS	4.5 SE 4 SC 4.5 SL 100 SL		1.13 lb ai/a 0.094 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	32 fl oz/a 3 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
4	ANTHEM ATZ SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	4.5 SE 4 SC 4 SC 4.5 SL 100 SL		0.84 lb ai/a 0.078 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	24 fl oz/a 2 5 fl oz/a 16 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
5	ANTHEM STANZA ROUNDUP PMAX N-PAK AMS	2.15 SE 68.5 WG 4.5 SL 100 SL		0.134 lb ai/a 0.116 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	8 fl oz/a 2.7 oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a v/v	PRE PRE 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
6	ANTHEM CADET STANZA ROUNDUP PMAX N-PAK AMS	2.15 SE 0.91 EC 68.5 WG 4.5 SL 100 SL		0.134 lb ai/a 0.00533 lb ai/a 0.086 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	8 fl oz/a 0.75 fl oz/a 2 oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	74 a	99 a	99 a	99 a
7	ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		1.13 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ae/a v/v	32 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a v/v	2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			99 a	99 a	99 a
8	ANTHEM ATZ STANZA ROUNDUP PMAX COC (PRIME OIL) N-PAK AMS	4.5 SE 68.5 WG 4.5 SL 100 SL 100 SL		1.13 lb ai/a 0.086 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v	ai/a ai/a ae/a v/v v/v	32 fl oz/a 2 oz/a 32 fl oz/a 1 % v/v 2 5 % v/v	oz/a oz/a oz/a v/v v/v	2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			99 a	99 a	99 a
9	LUMAX ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	3.948 SE 4.5 SE 4.5 SL 100 SL		1.48 lb ai/a 0.84 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	1 5 qt/a 24 fl oz/a 32 fl oz/a 2 5 % v/v	qt/a oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
10	SURESTART ROUNDUP PMAX N-PAK AMS	4.25 SE 4.5 SL 100 SL		1.06 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ae/a v/v	2 pt/a 32 fl oz/a 2 5 % v/v	pt/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
11	CORVUS ROUNDUP PMAX N-PAK AMS	2.63 SC 4.5 SL 100 SL		0.115 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ae/a v/v	5.6 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a v/v	PRE 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a
12	HALEX GT N-PAK AMS	4.389 CS 100 SL		1.98 lb ai/a 2.5 % v/v	ai/a v/v	3.6 pt/a 2 5 % v/v	pt/a v/v	2-4"W-1 B 2-4"W-1 B			99 a	99 a	99 a
13	NONTREATED									0	0	0	0

Anthem / Anthem ATZ Full Sales Program.

Trial ID:14-21S-MMW70 Location:Belleville Res. Center Trial Year:2014
Investigator:Ronald F. Krausz

Pest Code								AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code								5-27-14	6-8-14	6-11-14	6-18-14	7-3-14	7-11-14	8-2-14
Rating Date								Control	Control	Control	Control	Control	Control	Control
Rating Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit								10 DA-B	10 DA-B	20 DA-B	20 DA-B	35 DA-B	35 DA-B	65 DA-B
Rating Timing								5 DA-C	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt-Eval Interval								15 DA-A	5 DA-C	30 DA-A	15 DA-C	30 DA-C	60 DA-A	60 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
14	LUMAX ROUNDUP PMAX N-PAK AMS	3.948 SE 4.5 SL 100 SL		2.96 lb ai/a 1.13 lb ae/a 2.5 % v/v		3 qt/a 32 fl oz/a 2 5 % v/v	PRE A 2-4"W-2 C 2-4"W-2 C	A	99 a	99 a	99 a	99 a	99 a	99 a
LSD (P=.05)									22.7	0.0	0.0	0.0	0.0	0.0
Standard Deviation									15.7	0.0	0.0	0.0	0.0	0.0
CV									16.22	0.0	0.0	0.0	0.0	0.0
Replicate F									1.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)									0.4079	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F									1.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)									0.4635	1.0000	1.0000	1.0000	1.0000	1.0000

Southern Illinois University

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 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								XANST	XANST	XANST	XANST	XANST	XANST	XANST
								5-27-14 Control Percent 15 DA-A	6-8-14 Control Percent 10 DA-B 5 DA-C	6-11-14 Control Percent 30 DA-A	6-18-14 Control Percent 20 DA-B 15 DA-C	7-3-14 Control Percent 35 DA-B 30 DA-C	7-11-14 Control Percent 60 DA-A	8-2-14 Control Percent 65 DA-B 60 DA-C
Trt Treatment No. Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1 ANTHEM SOLSTICE ROUNDUP PMAX N-PAK AMS	2.15 SE 4 SC 4.5 SL 100 SL		0.134 lb ai/a 0.094 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	8 fl oz/a 3 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		0 c	99 a	99 a	99 a	99 a	99 a
2 ANTHEM SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	2.15 SE 4 SC 4 SC 4.5 SL 100 SL		0.134 lb ai/a 0.078 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	8 fl oz/a 2 5 fl oz/a 16 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		0 c	99 a	99 a	99 a	99 a	99 a
3 ANTHEM ATZ SOLSTICE ROUNDUP PMAX N-PAK AMS	4.5 SE 4 SC 4.5 SL 100 SL		1.13 lb ai/a 0.094 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	32 fl oz/a 3 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		95 b	99 a	99 a	99 a	99 a	99 a
4 ANTHEM ATZ SOLSTICE AATREX 4L ROUNDUP PMAX N-PAK AMS	4.5 SE 4 SC 4 SC 4.5 SL 100 SL		0.84 lb ai/a 0.078 lb ai/a 0.5 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	24 fl oz/a 2 5 fl oz/a 16 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		95 b	99 a	99 a	99 a	99 a	99 a
5 ANTHEM STANZA ROUNDUP PMAX N-PAK AMS	2.15 SE 68.5 WG 4.5 SL 100 SL		0.134 lb ai/a 0.116 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	8 fl oz/a 2.7 oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a v/v	PRE A PRE A 2-4"W-2 C 2-4"W-2 C		99 a	99 a	99 a	99 a	99 a	99 a
6 ANTHEM CADET STANZA ROUNDUP PMAX N-PAK AMS	2.15 SE 0.91 EC 68.5 WG 4.5 SL 100 SL		0.134 lb ai/a 0.00533 lb ai/a 0.086 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ai/a ae/a v/v	8 fl oz/a 0.75 fl oz/a 2 oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		0 c	99 a	99 a	99 a	99 a	99 a
7 ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		1.13 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ae/a v/v	32 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a v/v	2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			99 a	99 a	99 a	99 a	99 a
8 ANTHEM ATZ STANZA ROUNDUP PMAX COC (PRIME OIL) N-PAK AMS	4.5 SE 68.5 WG 4.5 SL 100 SL 100 SL		1.13 lb ai/a 0.086 lb ai/a 1.13 lb ae/a 1 % v/v 2.5 % v/v	ai/a ai/a ae/a v/v v/v	32 fl oz/a 2 oz/a 32 fl oz/a 1 % v/v 2 5 % v/v	oz/a oz/a oz/a v/v v/v	2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B 2-4"W-1 B			99 a	99 a	99 a	99 a	99 a
9 LUMAX ANTHEM ATZ ROUNDUP PMAX N-PAK AMS	3.948 SE 4.5 SE 4.5 SL 100 SL		1.48 lb ai/a 0.84 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ai/a ae/a v/v	1 5 qt/a 24 fl oz/a 32 fl oz/a 2 5 % v/v	qt/a oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C 2-4"W-2 C		99 a	99 a	99 a	99 a	99 a	99 a
10 SURESTART ROUNDUP PMAX N-PAK AMS	4.25 SE 4.5 SL 100 SL		1.06 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ae/a v/v	2 pt/a 32 fl oz/a 2 5 % v/v	pt/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C		99 a	99 a	99 a	99 a	99 a	99 a
11 CORVUS ROUNDUP PMAX N-PAK AMS	2.63 SC 4.5 SL 100 SL		0.115 lb ai/a 1.13 lb ae/a 2.5 % v/v	ai/a ae/a v/v	5.6 fl oz/a 32 fl oz/a 2 5 % v/v	oz/a oz/a v/v	PRE A 2-4"W-2 C 2-4"W-2 C		97 ab	99 a	99 a	99 a	99 a	99 a
12 HALEX GT N-PAK AMS	4.389 CS 100 SL		1.98 lb ai/a 2.5 % v/v	ai/a v/v	3.6 pt/a 2 5 % v/v	pt/a v/v	2-4"W-1 B 2-4"W-1 B			99 a	99 a	99 a	99 a	99 a
13 NONTREATED									0	0	0	0	0	0

Anthem / Anthem ATZ Full Sales Program.

Trial ID: 14-21S-MMW70 Location: Belleville Res. Center Trial Year: 2014
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: FMC (Anthem / Anthem ATZ).
2. Ratings: CI 5, 14, and 30 DA emergence; WC 5, 15, 30, and 60 DA-A; WC 5, 15, 30, and 60 DA-C.
Rate application B at same time as application C.
3. Yield, Solstice is labeled.
4. DAE = Days after crop emergence.
5. Following the PRE application the first significant rainfall event was 0.88 inch over the next 2 days.
Following the 2-4"W-1 application the first significant rainfall event beginning 2 days later
was 0.27 inch over 2 days then 0.67 inch 6 days after application.
Following the 2-4"W-2 application the first significant rainfall event was 0.67 inch the next day.
6. At 5 DA-A there were not enough weeds emerged in the nontreated areas to make a weed control rating.
7. Harvested 10-7-14, (2) 30 inch rows by 27 ft.