

Southern Illinois University

Anthem Preemergence and Postemergence in Corn - Site 1.

Trial ID: 12-DSO-AnthemCN  
 Location: De Soto, IL

Investigator: Bryan Young

General Trial Information	
<b>Study Director:</b> Bryan Young	<b>Title:</b> Professor
<b>Investigator:</b> Bryan Young	
<b>Trial Status:</b> F - one-year/final	
<b>Initiation Date:</b> 4-29-12	
Trial Location	
<b>City:</b> De Soto	
<b>State/Prov.:</b> IL	
<b>Postal Code:</b> 62924	
<b>Country:</b> USA	

**Objectives:**  
 Evaluate glyphosate-resistant waterhemp control from Anthem compared with competitive standards in corn.

Personnel	
<b>Study Director:</b> Bryan Young	<b>Title:</b> Professor
<b>Investigator:</b> Bryan Young	
<b>Affiliation:</b> Southern Illinois University	
<b>Address:</b> 1205 Lincoln Drive - AG 176 - MC 4415	
<b>Location:</b> Carbondale IL	
<b>Postal Code:</b> 62901	<b>E-mail:</b> bgyoung@siu.edu
<b>Phone No.:</b> 618-453-7679	<b>Mobile No.:</b> 618-713-6471

Crop Description	
<b>Crop 1:</b> ZEAMD Zea mays indentata Dent corn	<b>Description:</b> RR2/LL
<b>Variety:</b> DKC 61-06	<b>Planting Date:</b> 4-29-12
<b>BBCH Scale:</b> BCOR	<b>Rate, Unit:</b> 31000 S/A
<b>Planting Method:</b> SEEDS Seeded	
<b>Depth, Unit:</b> 2 IN	
<b>Row Spacing, Unit:</b> 30 IN	

Pest Description	
<b>Pest 1 Type:</b> W <b>Code:</b> AMATA - Amaranthus rudis Sauer	
<b>Common Name:</b> waterhemp, common	
<b>Description:</b> glyphosate-resistant waterhemp	

Site and Design	
<b>Plot Width, Unit:</b> 10 FT	<b>Site Type:</b> FIELD field
<b>Plot Length, Unit:</b> 30 FT	
<b>Plot Area, Unit:</b> 300 FT2	<b>Tillage Type:</b> NOTILL no-till
<b>Replications:</b> 4	<b>Study Design:</b> RACOB L Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

Maintenance	
<b>No.</b>	<b>Maintenance Treatment Name</b>
1.	N 177 LB/A, P205 69 LB/A, K20 90 LB/A

Soil Description		
<b>% Sand:</b> 15.4	<b>% OM:</b> 2.15	
<b>% Silt:</b> 64.7	<b>pH:</b> 6.9	
<b>% Clay:</b> 19.9	<b>CEC:</b> 12.4	
<b>Texture:</b> SIL SILT LOAM		
<b>Soil Name:</b> OKAW		
Additional Measured Elements		
<b>Element</b>	<b>Quantity</b>	<b>Unit</b>
P1	94	LB/A
K	468	LB/A

Moisture and Weather Conditions	
<b>Overall Moisture Conditions:</b> BELNOR below normal	
<b>Closest Weather Station:</b> SOUTHERN IL AIRPORT (93810)	<b>Distance, Unit:</b> 1.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-10-12					7	DAY	30.1	79.2	F
2.	4-13-12	0.22	IN	RAIN	rain					
3.	4-15-12	0.47	IN	RAIN	rain					
4.	4-16-12	0.29	IN	RAIN	rain					
5.	4-17-12					7	DAY	36.7	75.6	F
6.	4-20-12	0.13	IN	RAIN	rain					
7.	4-22-12	0.13	IN	RAIN	rain					
8.	4-24-12					7	DAY	43.7	80.9	F
9.	4-27-12	0.04	IN	RAIN	rain					
10.	4-30-12	0.55	IN	RAIN	rain					
11.	5-1-12					7	DAY	59.1	91.3	F
12.	5-6-12	0.14	IN	RAIN	rain					
13.	5-7-12	0.07	IN	RAIN	rain					
14.	5-8-12					7	DAY	43.3	79	F
15.	5-15-12					7	DAY	44.9	89.1	F
16.	5-20-12	0.93	IN	RAIN	rain					
17.	5-22-12					7	DAY	45.5	92.8	F
18.	5-29-12					7	DAY	46.3	89.8	F
19.	5-30-12	0.02	IN	RAIN	rain					
20.	5-31-12	0.14	IN	RAIN	rain					
21.	6-4-12	0.49	IN	RAIN	rain					
22.	6-5-12					7	DAY	48.5	88.8	F
23.	6-11-12	0.21	IN	RAIN	rain					
24.	6-12-12					7	DAY	49.8	91.1	F
25.	6-17-12	0.03	IN	RAIN	rain					
26.	6-19-12					7	DAY	55.4	96.4	F
27.	6-26-12					7	DAY	51.1	105.4	F
28.	7-3-12					7	DAY	71.1	105	F
29.	7-8-12	0.07	IN	RAIN	rain					
30.	7-9-12	0.12	IN	RAIN	rain					
31.	7-10-12					7	DAY	65.9	93.9	F
32.	7-14-12	0.02	IN	RAIN	rain					
33.	7-17-12					7	DAY	60	102.3	F
34.	7-17-12	0.03	IN	RAIN	rain					
35.	7-24-12					7	DAY	64.1	102.1	F
36.	7-26-12	1.41	IN	RAIN	rain					
37.	7-29-12	0.24	IN	RAIN	rain					
38.	7-31-12					7	DAY	62.7	97.9	F
39.	8-2-12	0.08	IN	RAIN	rain					
40.	8-4-12	3.29	IN	RAIN	rain					
41.	8-5-12	0.21	IN	RAIN	rain					
42.	8-7-12					7	DAY	54.1	97.2	F

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Application Description			
	A	B	C
Application Date:	4-29-12	5-12-12	5-29-12
Time of Day:	11:00	9:30	15:30
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	V2-V3	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	LAH	RJW	RJW
Air Temperature, Unit:	79 F	78 F	95 F
% Relative Humidity:	60	46	27
Wind Velocity, Unit:	1 MPH	1 MPH	2 MPH
Wind Direction:	NE	E	E
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	69 F	65 F	93 F
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	100	100	10
Next Rain Occurred On:	4-30-12	5-20-12	5-31-12

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V3	V6
Stage Minimum, Percent:		V2	V5
Stage Maximum, Percent:		V3	V6
Height, Unit:		5 IN	24 IN
Height Minimum, Maximum:		3 5	18 28

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	AMATA W DESC	AMATA W DESC	AMATA W DESC
Stage Majority, Percent:	NA	4	20
Stage Minimum, Percent:		2	1
Stage Maximum, Percent:		6	25
Height, Unit:		0.25 IN	5 IN
Height Minimum, Maximum:		0.25 0.5	4 15
Density, Unit:		10 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:	6.67 FT	6.67 FT	6.67 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 Trt-Eval Interval										ZEAMD 9-24-12 Moisture Percent	ZEAMD 9-24-12 Yield bu/A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	ANTHEM ROUNDUP POWERMAX N-PAK AMS	2.15 SE 4.5 SL 100 SL		0.168 lb ai/a 0.77 lb ae/a 2.5 % v/v		10 fl oz/a 22 fl oz/a 2.5 % v/v		PRE POST POST	A C C	18.9 a	31 a
2	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		1.13 lb ai/a 0.77 lb ae/a 2.5 % v/v		32 fl oz/a 22 fl oz/a 2.5 % v/v		PRE POST POST	A C C	16.3 a	32 a
3	ANTHEM HORNET WDG COC (PRIME OIL)	2.15 SE 68.5 WG 100 SL		0.168 lb ai/a 0.128 lb ai/a 1 % v/v		10 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	16.2 a	36 a
4	HARNESS HORNET WDG COC (PRIME OIL)	7 EC 68.5 WG 100 SL		2.36 lb ai/a 0.128 lb ai/a 1 % v/v		2.7 pt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	16.3 a	29 a
5	DUAL II MAGNUM HORNET WDG COC (PRIME OIL)	7.64 EC 68.5 WG 100 SL		1.6 lb ai/a 0.128 lb ai/a 1 % v/v		1.67 pt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	16.1 a	40 a
6	ANTHEM ATZ HORNET WDG COC (PRIME OIL)	4.5 SE 68.5 WG 100 SL		1.13 lb ai/a 0.128 lb ai/a 1 % v/v		32 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	16.0 a	34 a
7	BICEP LITE II MAGNUM HORNET WDG COC (PRIME OIL)	6 SC 68.5 WG 100 SL		2.25 lb ai/a 0.128 lb ai/a 1 % v/v		1.5 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	18.5 a	36 a
8	HARNESS XTRA HORNET WDG COC (PRIME OIL)	6 EC 68.5 WG 100 SL		3.45 lb ai/a 0.128 lb ai/a 1 % v/v		2.3 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	17.1 a	31 a
9	ZEMAX HORNET WDG COC (PRIME OIL)	3.67 SC 68.5 WG 100 SL		2.2 lb ai/a 0.128 lb ai/a 1 % v/v		2.4 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	15.4 a	38 a
10	VERDICT HORNET WDG COC (PRIME OIL)	5.57 EC 68.5 WG 100 SL		0.696 lb ai/a 0.128 lb ai/a 1 % v/v		16 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	14.7 a	29 a
11	ANTHEM ROUNDUP POWERMAX N-PAK AMS	2.15 SE 4.5 SL 100 SL		0.151 lb ai/a 0.77 lb ae/a 2.5 % v/v		9 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	17.4 a	37 a
12	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		0.98 lb ai/a 0.77 lb ae/a 2.5 % v/v		28 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	15.6 a	37 a
13	HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL		1.97 lb ai/a 0.25 % v/v 2.5 % v/v		3.6 pt/a 0.25 % v/v 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	15.7 a	38 a
14	LAUDIS ROUNDUP POWERMAX N-PAK AMS	3.5 SC 4.5 SL 100 SL		0.082 lb ai/a 0.77 lb ae/a 2.5 % v/v		3 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	15.5 a	30 a
15	ROUNDUP POWERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 2.5 % v/v		22 fl oz/a 2.5 % v/v		V2-V3 V2-V3	B B	14.9 a	37 a

Means followed by same letter do not significantly differ (P=0.05, LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code										ZEAMD	ZEAMD	
Crop Code										9-24-12	9-24-12	
Rating Date										Moisture	Yield	
Rating Type										Percent	bu/A	
Rating Unit												
Rating Timing												
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code		
16	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a		V2-V3	B	16.1	a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		V2-V3	B		
	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl oz/a		V2-V3	B		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V2-V3	B		
LSD (P=.05)											2.61	11.4
Standard Deviation											1.83	8.0
CV											11.21	23.07
Replicate F											2.005	6.927
Replicate Prob(F)											0.1267	0.0006
Treatment F											1.676	0.859
Treatment Prob(F)											0.0915	0.6108

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							ZEAMD 5-17-12 Injury Percent 14 DAE 5 DA-B	ZEAMD 5-26-12 Injury Percent 14 DA-B	ZEAMD 6-2-12 Injury Percent 30 DAE 4 DA-C	ZEAMD 6-11-12 Injury Percent 30 DA-B	ZEAMD 6-28-12 Injury Percent 60 DA-A	ZEAMD 7-28-12 Injury Percent 90 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ANTHEM ROUNDUP POWERMAX N-PAK AMS	2.15 SE 4.5 SL 100 SL		0.168 lb ai/a 0.77 lb ae/a 2.5 % v/v	10 fl oz/a 22 fl oz/a 2.5 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
2	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		1.13 lb ai/a 0.77 lb ae/a 2.5 % v/v	32 fl oz/a 22 fl oz/a 2.5 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
3	ANTHEM HORNET WDG COC (PRIME OIL)	2.15 SE 68.5 WG 100 SL		0.168 lb ai/a 0.128 lb ai/a 1 % v/v	10 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
4	HARNESS HORNET WDG COC (PRIME OIL)	7 EC 68.5 WG 100 SL		2.36 lb ai/a 0.128 lb ai/a 1 % v/v	2.7 pt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
5	DUAL II MAGNUM HORNET WDG COC (PRIME OIL)	7.64 EC 68.5 WG 100 SL		1.6 lb ai/a 0.128 lb ai/a 1 % v/v	1.67 pt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
6	ANTHEM ATZ HORNET WDG COC (PRIME OIL)	4.5 SE 68.5 WG 100 SL		1.13 lb ai/a 0.128 lb ai/a 1 % v/v	32 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
7	BICEP LITE II MAGNUM HORNET WDG COC (PRIME OIL)	6 SC 68.5 WG 100 SL		2.25 lb ai/a 0.128 lb ai/a 1 % v/v	1.5 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
8	HARNESS XTRA HORNET WDG COC (PRIME OIL)	6 EC 68.5 WG 100 SL		3.45 lb ai/a 0.128 lb ai/a 1 % v/v	2.3 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
9	ZEMAX HORNET WDG COC (PRIME OIL)	3.67 SC 68.5 WG 100 SL		2.2 lb ai/a 0.128 lb ai/a 1 % v/v	2.4 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
10	VERDICT HORNET WDG COC (PRIME OIL)	5.57 EC 68.5 WG 100 SL		0.696 lb ai/a 0.128 lb ai/a 1 % v/v	16 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	0 c	0 c	0 c	0 a	0 a	0 a
11	ANTHEM ROUNDUP POWERMAX N-PAK AMS	2.15 SE 4.5 SL 100 SL		0.151 lb ai/a 0.77 lb ae/a 2.5 % v/v	9 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	15 a	7 a	4 a	0 a	0 a	0 a
12	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		0.98 lb ai/a 0.77 lb ae/a 2.5 % v/v	28 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	6 b	5 b	2 b	0 a	0 a	0 a
13	HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL		1.97 lb ai/a 0.25 % v/v 2.5 % v/v	3.6 pt/a 0.25 % v/v 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	0 c	0 c	0 c	0 a	0 a	0 a
14	LAUDIS ROUNDUP POWERMAX N-PAK AMS	3.5 SC 4.5 SL 100 SL		0.082 lb ai/a 0.77 lb ae/a 2.5 % v/v	3 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	0 c	0 c	0 c	0 a	0 a	0 a
15	ROUNDUP POWERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 2.5 % v/v	22 fl oz/a 2.5 % v/v		V2-V3 V2-V3	B B	0 c	0 c	0 c	0 a	0 a	0 a



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Pest Code										AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
Crop Code										5-29-12	6-11-12	6-28-12	7-28-12
Rating Date										Control	Control	Control	Control
Rating Type										Percent	Percent	Percent	Percent
Rating Unit										30 DA-A	13 DA-C 30 DA-B	60 DA-A	90 DA-A
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ANTHEM ROUNDUP POWERMAX N-PAK AMS	2.15 SE 4.5 SL 100 SL		0.168 lb ai/a 0.77 lb ae/a 2.5 % v/v		10 fl oz/a 22 fl oz/a 2.5 % v/v		PRE POST POST	A C C	99 a	99 a	99 a	98 a
2	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		1.13 lb ai/a 0.77 lb ae/a 2.5 % v/v		32 fl oz/a 22 fl oz/a 2.5 % v/v		PRE POST POST	A C C	99 a	99 a	99 a	99 a
3	ANTHEM HORNET WDG COC (PRIME OIL)	2.15 SE 68.5 WG 100 SL		0.168 lb ai/a 0.128 lb ai/a 1 % v/v		10 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	97 a	95 a	96 a	93 a
4	HARNESS HORNET WDG COC (PRIME OIL)	7 EC 68.5 WG 100 SL		2.36 lb ai/a 0.128 lb ai/a 1 % v/v		2.7 pt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	93 b	85 b	83 b	73 bc
5	DUAL II MAGNUM HORNET WDG COC (PRIME OIL)	7.64 EC 68.5 WG 100 SL		1.6 lb ai/a 0.128 lb ai/a 1 % v/v		1.67 pt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	92 b	78 c	79 b	69 c
6	ANTHEM ATZ HORNET WDG COC (PRIME OIL)	4.5 SE 68.5 WG 100 SL		1.13 lb ai/a 0.128 lb ai/a 1 % v/v		32 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	99 a	99 a	99 a	98 a
7	BICEP LITE II MAGNUM HORNET WDG COC (PRIME OIL)	6 SC 68.5 WG 100 SL		2.25 lb ai/a 0.128 lb ai/a 1 % v/v		1.5 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	98 a	97 a	97 a	96 a
8	HARNESS XTRA HORNET WDG COC (PRIME OIL)	6 EC 68.5 WG 100 SL		3.45 lb ai/a 0.128 lb ai/a 1 % v/v		2.3 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	99 a	98 a	99 a	97 a
9	ZEMAX HORNET WDG COC (PRIME OIL)	3.67 SC 68.5 WG 100 SL		2.2 lb ai/a 0.128 lb ai/a 1 % v/v		2.4 qt/a 3 oz/a 1 % v/v		PRE POST POST	A C C	99 a	98 a	98 a	97 a
10	VERDICT HORNET WDG COC (PRIME OIL)	5.57 EC 68.5 WG 100 SL		0.696 lb ai/a 0.128 lb ai/a 1 % v/v		16 fl oz/a 3 oz/a 1 % v/v		PRE POST POST	A C C	97 a	97 a	98 a	93 a
11	ANTHEM ROUNDUP POWERMAX N-PAK AMS	2.15 SE 4.5 SL 100 SL		0.151 lb ai/a 0.77 lb ae/a 2.5 % v/v		9 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	99 a	99 a	99 a	98 a
12	ANTHEM ATZ ROUNDUP POWERMAX N-PAK AMS	4.5 SE 4.5 SL 100 SL		0.98 lb ai/a 0.77 lb ae/a 2.5 % v/v		28 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	99 a	99 a	99 a	99 a
13	HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL		1.97 lb ai/a 0.25 % v/v 2.5 % v/v		3.6 pt/a 0.25 % v/v 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	99 a	98 a	97 a	94 a
14	LAUDIS ROUNDUP POWERMAX N-PAK AMS	3.5 SC 4.5 SL 100 SL		0.082 lb ai/a 0.77 lb ae/a 2.5 % v/v		3 fl oz/a 22 fl oz/a 2.5 % v/v		V2-V3 V2-V3 V2-V3	B B B	97 a	80 bc	83 b	78 b
15	ROUNDUP POWERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 2.5 % v/v		22 fl oz/a 2.5 % v/v		V2-V3 V2-V3	B B	84 c	60 d	54 c	44 d



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Trial ID: 12-DSO-AnthemCN

Location: De Soto, IL

Investigator: Bryan Young

										AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR					
										5-29-12	6-11-12	6-28-12	7-28-12					
										Control	Control	Control	Control					
										Percent	Percent	Percent	Percent					
										30 DA-A	13 DA-C	60 DA-A	90 DA-A					
										30 DA-A	30 DA-B	60 DA-A	90 DA-A					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code								
16	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl	oz/a	V2-V3	B	99	a	99	a	99	a	97	a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl	oz/a	V2-V3	B								
	CORVUS	2.62	SC	0.0614	lb ai/a	3	fl	oz/a	V2-V3	B								
	N-PAK AMS	100	SL	2.5	% v/v	2.5	%	v/v	V2-V3	B								
LSD (P=.05)											2.4	5.2	8.2	7.0				
Standard Deviation											1.7	3.6	5.7	4.9				
CV											1.73	3.93	6.22	5.52				
Replicate F											0.194	4.140	2.182	1.474				
Replicate Prob(F)											0.8997	0.0113	0.1032	0.2344				
Treatment F											24.377	37.772	18.405	39.825				
Treatment Prob(F)											0.0001	0.0001	0.0001	0.0001				

Anthem Preemergence and Postemergence in Corn - Site 1.

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Trial Comments

1. Protocol: FMC.
2. Ratings: CI at 14 and 30 DAE, 14 and 30 DA-B. 30 DA-B rating should include all plots.  
WC at 30, 60, and 90 DA-A, WC 30 DA-A is before POST application C.  
WC 60-80 DA-C.
3. Blanket burndown of Gramoxone Inteon (4 pt/A) plus NIS (0.5%) was applied on 4-28-12.  
Rainfall following the PRE application was approximately 0.5 inch the next day  
and an additional 0.25 inch 7 days later.
4. POST application C timing is 30 DA-A.
5. Yield if possible.
6. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
7. Harvested 9-24-12, (2) 30 inch rows by 27 ft.