

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150 Location: Belleville Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Belleville IL 62221 USA
 Trial Status: FINAL Initiation Date: 5-24-11

Objectives: Evaluate weed control from Anthem compared with competitive standards.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDED Planting Date: 5-24-11
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 3 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
 Pest 4 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 40 FT Tillage Type: REDUCED-TILL
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2010

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A

% OM: 1.9 Texture: SILT LOAM
 pH: 6.3 Soil Name: BETHALTO
 CEC: 12 Fert. Level: P1: 50 LB/A, K: 374 LB/A

Application Description

	A	B	C	D
Application Date:	5-24-11	6-13-11	6-15-11	7-5-11
Time of Day:	19:00	15:00	9:00	13:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	1-2TRIFOL	3-4"W-1	3-4"W-2
Application Placement:	BROSIOI	BROSIOI	BROSIOI	BROSIOI
Applied By:	RFK	RFK	BA	LAH
Air Temperature, Unit:	76 F	77 F	77 F	86 F
% Relative Humidity:	76	62	79	57
Wind Velocity, Unit:	0 MPH	2 MPH	2 MPH	2 MPH
Wind Direction:		E	S	NE
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	69 F	74 F	74 F	79 F
Soil Moisture:	ABONOR	ABONOR	ABONOR	ABONOR
% Cloud Cover:	100	0	0	0

	24-5-11	13-6-11	15-6-11	5-7-11
Crop stage at application:	NA	V1-V2	V2	V6-V7
Height Min, Max (inch):		3 4 3	4 10	12

Pest Stage At Each Application

	5-24-11	6-13-11	6-15-11	7-5-11
Application Date:	5-24-11	6-13-11	6-15-11	7-5-11
Weed Code:	SETFA	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	3	5	NA
Stage Min, Max:		2 3	5 6	
Height Majority:		3 IN	3 IN	
Height Min, Max:		2 4	2 4	
Density, Unit:		1 FT2	0.1 FT2	
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	5	5	8
Stage Min, Max:		5 6	5 6	1 12
Height Majority:		2 IN	3 IN	4 IN
Height Min, Max:		1 3	2 4	0.25 6
Density, Unit:		0.1 FT2	0.1 FT2	0.1 FT2
Weed Code:	IPOHE	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	6	8	NA
Stage Min, Max:		5 8	5 10	
Height Majority:		2 IN	3 IN	
Height Min, Max:		1 3	1 3	
Density, Unit:		0.01 FT2	0.01 FT2	
Weed Code:	PANDI	PANDI	PANDI	PANDI
Stage Majority (leaves):	NA	4	5	NA
Stage Min, Max:		3 4	5 6	
Height Majority:		3 IN	3 IN	
Height Min, Max:		2 4	2 4	
Density, Unit:		1 FT2	0.1 FT2	

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Location: Belleville Res. Center

Application Equipment

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

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150

Location: Belleville Res. Center

Pest Code
Crop Code
Rating Date
Rating Data Type
Rating Unit
Rating Timing
Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
10-24-11 10-24-11 6-13-11 6-20-11 6-27-11 7-4-11
Moisture Yield Injury Injury Injury Injury
Percent bu/A Percent Percent Percent Percent

14 DAE 7 DA-B 28 DAE 21 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	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	11.8 a	67 ab	0 a	0 d	0 d	0 b
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C						
2	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	11.7 a	64 b	0 a	0 d	0 d	0 b
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C						
3	AUTHORITY XL	70	WG	0.23	lb ai/a	5.25	oz/a	PRE	A	12.0 a	69 ab	0 a	0 d	0 d	0 b
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C						
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	11.8 a	69 ab	0 a	0 d	0 d	0 b
4	VALOR SX	51	WG	0.075	lb ai/a			PRE	A						
4	CLASSIC	25	WG	0.0258	lb ai/a			PRE	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C						
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	11.6 a	66 ab	0 a	0 d	0 d	0 b
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C						
6	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	11.7 a	65 ab	0 a	0 d	0 d	0 b
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C						
7	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A	11.8 a	63 b		7 b	2 c	0 b
7	ANTHEM	2.15	SE	0.084	lb ai/a	5	fl oz/a	1-2TRIFOL	B						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
8	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	1-2TRIFOL	B	11.8 a	71 a		6 b	1 cd	0 b
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D						
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	1-2TRIFOL	B	11.6 a	67 ab		19 a	10 a	4 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D						
10	FLEXSTAR GT 3.5	3.5	SL	1.53	lb ai/a	3.5	pt/a	1-2TRIFOL	B	11.7 a	69 ab		7 b	3 b	0 b
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D						
11	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	1-2TRIFOL	B	11.9 a	67 ab		2 c	0 d	0 b
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D						
12	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	1-2TRIFOL	B	11.6 a	69 ab		2 c	0 d	0 b
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B	11.8 a	63 b		0 d	0 d	0 b
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D						
14	NONTREATED									12.0 a	19 c	0 a	0 d	0 d	0 b

LSD (P=.05)

0.41 7.0 0.0 1.7 1.2 0.5

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Pest Code									
Crop Code									
Rating Date	10-24-11	10-24-11	6-13-11	6-20-11	6-27-11	7-4-11			
Rating Data Type	Moisture	Yield	Injury	Injury	Injury	Injury			
Rating Unit	Percent	bu/A	Percent	Percent	Percent	Percent			
Rating Timing							14 DAE	7 DA-B	28 DAE
Trt-Eval Interval								21 DA-B	

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	Replicate F								1.452
	Replicate Prob(F)								0.592
	Treatment F								0.000
	Treatment Prob(F)								0.414
									1.121
									0.846
									0.2426
									0.5605
									1.0000
									0.7437
									0.3525
									0.4786
									0.680
									29.241
									0.000
									77.609
									35.424
									40.615
									0.7700
									0.0001
									1.0000
									0.0001
									0.0001
									0.0001

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

Southern Illinois University

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Trial ID: 11-T4-S150

Location: Belleville Res. Center

										SETFA	SETFA	SETFA	SETFA	
										6-15-11	7-4-11	7-13-11	8-2-11	
										Control	Control	Control	Control	
										Percent	Percent	Percent	Percent	
										22 DA-A	0 DA-C	-1 DA-D	28 DA-C	28 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	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	94 a	98 a	98 cd	99 a	
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C					
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C					
2	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	83 ab	97 a	98 cd	98 a	
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C					
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C					
3	AUTHORITY XL	70	WG	0.23	lb ai/a	5.25	oz/a	PRE	A	80 b	95 a	97 ef	99 a	
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C					
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	76 b	97 a	96 f	99 a	
4	VALOR SX	51	WG	0.075	lb ai/a			PRE	A					
4	CLASSIC	25	WG	0.0258	lb ai/a			PRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C					
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	86 ab	98 a	96 ef	99 a	
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C					
6	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	93 a	99 a	97 de	99 a	
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C					
7	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A		98 a	98 bc	99 a	
7	ANTHEM	2.15	SE	0.084	lb ai/a	5	fl oz/a	1-2TRIFOL	B					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
8	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	1-2TRIFOL	B		98 a	99 ab	98 a	
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D					
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	1-2TRIFOL	B		98 a	99 ab	98 a	
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D					
10	FLEXSTAR GT 3.5	3.5	SL	1.53	lb ai/a	3.5	pt/a	1-2TRIFOL	B		97 a	98 abc	98 a	
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D					
11	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	1-2TRIFOL	B		96 a	99 a	99 a	
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D					
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D					
12	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	1-2TRIFOL	B		96 a	99 a	99 a	
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B		77 b	98 abc	98 a	
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D					
14	NONTREATED									0 c	0 c	0 g	0 b	
LSD (P=.05)										11.0	7.1	1.0	1.1	

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Pest Code	SETFA	SETFA	SETFA	SETFA
Crop Code				
Rating Date	6-15-11	7-4-11	7-13-11	8-2-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	22 DA-A			
Trt-Eval Interval	0 DA-C	-1 DA-D	28 DA-C	28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
Replicate F									2.872 2.490 6.891 1.060
Replicate Prob(F)									0.0650 0.0774 0.0040 0.3609
Treatment F									78.477 112.586 6123.083 4879.296
Treatment Prob(F)									0.0001 0.0001 0.0001 0.0001

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

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Location: Belleville Res. Center

Pest Code				AMATA	AMATA	AMATA	AMATA						
Crop Code				6-15-11	7-4-11	7-13-11	8-2-11						
Rating Date				Control	Control	Control	Control						
Rating Data Type				Percent	Percent	Percent	Percent						
Rating Unit				22 DA-A	-1 DA-D	28 DA-C	28 DA-D						
Rating Timing				0 DA-C									
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	2.15	SE	0.134	lb ai/a	8	fl oz/a	PRE	A	99 a	99 a	99 ab	98 ab
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
2	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	99 a	99 a	99 a	99 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
3	AUTHORITY XL	70	WG	0.23	lb ai/a	5.25	oz/a	PRE	A	93 a	99 a	99 a	99 a
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	86 b	96 a	97 c	98 ab
4	VALOR SX	51	WG	0.075	lb ai/a			PRE	A				
4	CLASSIC	25	WG	0.0258	lb ai/a			PRE	A				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	97 a	98 a	98 bc	99 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
6	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	99 a	98 a	99 a	99 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
7	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A		97 a	98 abc	97 bc
7	ANTHEM	2.15	SE	0.084	lb ai/a	5	fl oz/a	1-2TRIFOL	B				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
8	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	1-2TRIFOL	B		85 b	98 bc	98 ab
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	1-2TRIFOL	B		99 a	99 a	99 ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
10	FLEXSTAR GT 3.5	3.5	SL	1.53	lb ai/a	3.5	pt/a	1-2TRIFOL	B		96 a	99 a	99 ab
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
11	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	1-2TRIFOL	B		66 c	98 bc	95 c
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
12	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	1-2TRIFOL	B		89 b	99 a	97 abc
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B		73 c	98 ab	99 a
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
14	NONTREATED									0 c	0 d	0 d	0 d
LSD (P=.05)										6.0	6.7	1.3	2.2

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150 Location: Belleville Res. Center

Pest Code					AMATA	AMATA	AMATA	AMATA
Crop Code								
Rating Date					6-15-11	7-4-11	7-13-11	8-2-11
Rating Data Type					Control	Control	Control	Control
Rating Unit					Percent	Percent	Percent	Percent
Rating Timing					22 DA-A			
Trt-Eval Interval					0 DA-C	-1 DA-D	28 DA-C	28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	Replicate F								0.525 0.473 1.560 0.908
	Replicate Prob(F)								0.6704 0.7032 0.2292 0.4156
	Treatment F								320.106 131.327 3486.945 1233.368
	Treatment Prob(F)								0.0001 0.0001 0.0001 0.0001

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

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150

Location: Belleville Res. Center

Pest Code										IPOHE	IPOHE	IPOHE	IPOHE
Crop Code													
Rating Date										6-15-11	7-4-11	7-13-11	8-2-11
Rating Data Type										Control	Control	Control	Control
Rating Unit										Percent	Percent	Percent	Percent
Rating Timing										22 DA-A			
Trt-Eval Interval										0 DA-C	-1 DA-D	28 DA-C	28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	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	80 d	95 a	97 a	98 ab
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
2	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	98 a	99 a	98 a	98 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
3	AUTHORITY XL	70	WG	0.23	lb ai/a	5.25	oz/a	PRE	A	96 ab	99 a	97 a	98 ab
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	94 ab	92 abc	96 ab	98 a
4	VALOR SX	51	WG	0.075	lb ai/a			PRE	A				
4	CLASSIC	25	WG	0.0258	lb ai/a			PRE	A				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	92 b	98 a	96 ab	98 ab
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
6	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	86 c	99 a	98 a	94 c
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
7	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A		98 a	98 a	99 a
7	ANTHEM	2.15	SE	0.084	lb ai/a	5	fl oz/a	1-2TRIFOL	B				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
8	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	1-2TRIFOL	B		86 bcd	95 ab	97 ab
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	1-2TRIFOL	B		94 ab	98 a	96 bc
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
10	FLEXSTAR GT 3.5	3.5	SL	1.53	lb ai/a	3.5	pt/a	1-2TRIFOL	B		97 a	98 a	98 a
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
11	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	1-2TRIFOL	B		86 cd	94 b	96 bc
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
12	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	1-2TRIFOL	B		75 e	94 b	97 ab
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B		81 de	96 ab	98 ab
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
14	NONTREATED									0 e	0 f	0 c	0 d
LSD (P=.05)										5.1	7.9	2.8	2.2

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150 Location: Belleville Res. Center

Pest Code					IPOHE	IPOHE	IPOHE	IPOHE
Crop Code								
Rating Date					6-15-11	7-4-11	7-13-11	8-2-11
Rating Data Type					Control	Control	Control	Control
Rating Unit					Percent	Percent	Percent	Percent
Rating Timing					22 DA-A			
Trt-Eval Interval					0 DA-C	-1 DA-D	28 DA-C	28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	Replicate F								1.108
	Replicate Prob(F)								0.3717
	Treatment F								0.8046
	Treatment Prob(F)								0.2908
									0.1404
									412.072
									87.787
									721.584
									1153.782
									0.0001
									0.0001
									0.0001
									0.0001

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

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150

Location: Belleville Res. Center

								PANDI	PANDI	PANDI	PANDI		
								6-15-11	7-4-11	7-13-11	8-2-11		
								Control	Control	Control	Control		
								Percent	Percent	Percent	Percent		
								22 DA-A	0 DA-C	-1 DA-D	28 DA-C	28 DA-D	
Trt No.	Treatment Name	Form Conc	Form Type	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	89 b	95 a	98 ab	96 a
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
2	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	83 c	98 a	98 ab	98 a
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
3	AUTHORITY XL	70	WG	0.23	lb ai/a	5.25	oz/a	PRE	A	81 cd	96 a	97 b	96 a
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
4	VALOR XLT	40.3	WG			4	oz/a	PRE	A	78 d	97 a	97 b	93 b
4	VALOR SX	51	WG	0.075	lb ai/a			PRE	A				
4	CLASSIC	25	WG	0.0258	lb ai/a			PRE	A				
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
5	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	85 bc	95 a	97 b	97 a
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
6	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	94 a	96 a	99 a	98 a
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
7	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	PRE	A		96 a	99 a	99 a
7	ANTHEM	2.15	SE	0.084	lb ai/a	5	fl oz/a	1-2TRIFOL	B				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
8	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	1-2TRIFOL	B		93 ab	99 a	99 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
9	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	1-2TRIFOL	B		93 ab	98 ab	99 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
10	FLEXSTAR GT 3.5	3.5	SL	1.53	lb ai/a	3.5	pt/a	1-2TRIFOL	B		96 a	99 a	99 a
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
11	EXTREME	2.17	SL	0.81	lb ai/a	3	pt/a	1-2TRIFOL	B		95 a	99 a	99 a
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
12	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	1-2TRIFOL	B		88 b	99 a	98 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-2TRIFOL	B		70 c	99 a	99 a
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	1-2TRIFOL	B				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
14	NONTREATED									0 e	0 d	0 c	0 c
LSD (P=.05)										4.5	5.9	1.4	2.7

Anthem Preemergence and Postemergence in Soybean - Site 2.

Trial ID: 11-T4-S150 Location: Belleville Res. Center

Pest Code		PANDI	PANDI	PANDI	PANDI
Crop Code					
Rating Date		6-15-11	7-4-11	7-13-11	8-2-11
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing		22 DA-A			
Trt-Eval Interval		0 DA-C	-1 DA-D	28 DA-C	28 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
Replicate F									
Replicate Prob(F)									
Treatment F									
Treatment Prob(F)									

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

Trial Comments

1. Protocol: FMC.
2. Ratings: CI at 14 and 28 DAE for treatments with a PRE (A) application; CI 7 and 21 DA-B; WC at C and 28 DA-C, WC at D and 28 DA-D, rate treatment 7 WC at 0 and 28 DA-D. Following applications C and D rate reps 1-3 only.
3. Yield.
4. Take any photos that depict treatment differences prior to applications C and D.
5. DO NOT apply applications C and D to rep 4 (mix size and mix amounts have been adjusted).
6. For yield all reps were harvested, only reps 1-3 are averaged and presented.
7. Harvested 10-24-11, (2) 30 inch rows by 37 ft.