

Anthem Preemergence and Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160 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: 5-20-11

Objectives: Evaluate the efficacy of Anthem applied preemergence and early postemergence in corn compared to competitive standards.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL
 Planting Method: SEEDED Planting Date: 5-20-11
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant
 Pest 2 Type: W Code: XANST Xanthium strumarium L. cocklebur, common
 Pest 3 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf
 Pest 4 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 5 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. GLXMA 2010

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 1.8 Texture: SILT LOAM
 pH: 6.6 Soil Name: BETHALTO
 CEC: 9 Fert. Level: P1: 84 LB/A, K: 336 LB/A

	Application Description			
	A	B	C	D
Application Date:	5-20-11	6-1-11	6-15-11	6-22-11
Time of Day:	14:00	17:00	8:00	7:15
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	V2-3	3-4"W-1	3-4"W-2
Application Placement:	BROSUI	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	RFK	CME
Air Temperature, Unit:	82 F	88 F	74 F	72 F
% Relative Humidity:	58	37	87	68
Wind Velocity, Unit:	3 MPH	1 MPH	2 MPH	4 MPH
Wind Direction:	SE	E	S	SW
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	65 F	73 F	74 F	76 F
Soil Moisture:	NORMAL	NORMAL	ABONOR	ABONOR
% Cloud Cover:	0	0	0	0
	20-5-11	1-6-11	15-6-11	22-6-11
Crop stage at application:	NA	V2-V3	V6	V7-V8
Height Min, Max (inch):		4 5	12 14	22 24

	Pest Stage At Each Application			
	5-20-11	6-1-11	6-15-11	6-22-11
Application Date:	5-20-11	6-1-11	6-15-11	6-22-11
Weed Code:	SETFA	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	2	3	NA
Stage Min, Max:		1 3	2 4	
Height Majority:		1 IN	3 IN	
Height Min, Max:		0.25 1	1 4	
Density, Unit:		0.01 FT2	0.01 FT2	
Weed Code:	XANST	XANST	XANST	XANST
Stage Majority (leaves):	NA	2	8	NA
Stage Min, Max:		2 4	5 10	
Height Majority:		1 IN	5 IN	
Height Min, Max:		1 2	2 6	
Density, Unit:		0.01 FT2	0.01 FT2	
Weed Code:	IPOHE	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	2	8	4
Stage Min, Max:		2 4	2 10	2 13
Height Majority:		1 IN	3 IN	3 IN
Height Min, Max:		0.25 1	1 4	0.5 7
Density, Unit:		0.01 FT2	0.1 FT2	0.1 FT2
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	4	4	11
Stage Min, Max:		3 4	2 4	10 12
Height Majority:		1 IN	2 IN	12 IN
Height Min, Max:		0.25 1	1 3	10 12
Density, Unit:		0.01 FT2	0.01 FT2	0.01 FT2
Weed Code:	PANDI	PANDI	PANDI	PANDI
Stage Majority (leaves):	NA	NA	NA	4
Stage Min, Max:				3 5
Height Majority:				5 IN
Height Min, Max:				0.5 9
Density, Unit:				0.5 FT2

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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 Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160

Location: Belleville Res. Center

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

ZEAMD ZEAMD ZEAMD ZEAMD ZEAMD ZEAMD ZEAMD
10-5-11 10-5-11 10-5-11 6-10-11 6-15-11 6-26-11 7-1-11
Moisture Test wt. Yield Injury Injury Injury Injury
Percent lb/bu bu/A Percent Percent Percent Percent
14 DAE 14 DA-B 30 DAE 30 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	0.118	lb ai/a	7	fl oz/a	PRE	A	16.0	a-d	59.5	b-e	153	a	0	a	0	a	0	b	0	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	16.5	a	59.2	e	166	a	0	a	0	a	0	b	0	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	ANTHEM	2.15	SE	0.118	lb ai/a	7	fl oz/a	PRE	A	15.6	cd	59.8	bc	165	a	0	a	0	a	0	b	0	a
3	AATREX	4	SC	0.9	lb ai/a	0.9	qt/a	PRE	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	16.2	ab	59.4	de	180	a	0	a	0	a	0	b	0	a
4	AATREX	4	SC	1.16	lb ai/a	1.16	qt/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	DUAL II MAGNUM	7.64	EC	1.34	lb ai/a	1.4	pt/a	PRE	A	16.1	a-d	59.5	cde	162	a	0	a	0	a	0	b	0	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	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	16.1	a-d	59.4	cde	173	a	0	a	0	a	0	b	0	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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	16.1	a-d	59.5	cde	168	a	0	a	0	a	5	a	0	a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C														
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C														
8	LEXAR	3.7	SC	2.08	lb ai/a	2.25	qt/a	PRE	A	16.2	abc	59.4	cde	162	a	0	a	0	a	0	b	0	a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C														
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C														
9	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B	15.6	d	59.9	b	154	a					0	b	0	a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B														
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	V2-3	B	15.9	bcd	59.6	b-e	152	a					0	b	0	a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B														
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B	15.7	bcd	59.8	bc	170	a					0	b	0	a
11	AATREX	4	SC	0.8	lb ai/a	0.8	qt/a	V2-3	B														
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B														
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2-3	B	16.2	abc	59.4	cde	175	a					0	b	0	a
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2-3	B														
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2-3	B	15.7	bcd	59.8	bc	169	a					0	b	0	a
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B														
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B	15.8	bcd	59.7	bcd	172	a					0	b	0	a
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	B														
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D														
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D														
15	NONTREATED									14.9	e	60.3	a	98	b	0	a	0	a	0	b	0	a

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

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
	LSD (P=.05)									0.55	0.40	28.1	0.0	0.0	0.0	0.0
	Replicate F									4.675	5.149	5.037	0.000	0.000	0.000	0.000
	Replicate Prob(F)									0.0066	0.0040	0.0135	1.0000	1.0000	1.0000	1.0000
	Treatment F									3.719	3.707	3.971	0.000	0.000	0.000	0.000
	Treatment Prob(F)									0.0005	0.0005	0.0009	1.0000	1.0000	1.0000	1.0000

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

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Pest Code								SETFA	SETFA	SETFA	SETFA	
Crop Code												
Rating Date								6-15-11	7-1-11	7-19-11	8-18-11	
Rating Data Type								Control	Control	Control	Control	
Rating Unit								Percent	Percent	Percent	Percent	
Rating Timing								0 DA-C	9 DA-D	60 DAP		
Trt-Eval Interval								26 DA-A	30 DA-B	60 DA-A	90 DA-A	
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	0.118	lb ai/a	7	fl oz/a	PRE	A	99 a	99 a	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	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	ANTHEM	2.15	SE	0.118	lb ai/a	7	fl oz/a	PRE	A	99 a	99 a	99 a
3	AATREX	4	SC	0.9	lb ai/a	0.9	qt/a	PRE	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	99 a	99 a	99 a
4	AATREX	4	SC	1.16	lb ai/a	1.16	qt/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	DUAL II MAGNUM	7.64	EC	1.34	lb ai/a	1.4	pt/a	PRE	A	99 a	99 a	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	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	99 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C			
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C			
8	LEXAR	3.7	SC	2.08	lb ai/a	2.25	qt/a	PRE	A	99 a	99 a	99 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C			
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C			
9	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B		99 a	99 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B			
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	V2-3	B		98 b	99 a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B			
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B		99 a	99 a
11	AATREX	4	SC	0.8	lb ai/a	0.8	qt/a	V2-3	B			
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B			
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2-3	B		99 a	99 a
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2-3	B			
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2-3	B		99 a	98 b
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B			
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B		99 a	99 a
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	B			
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D			
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D			
15	NONTREATED									0 b	0 c	0 c

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Pest Code	SETFA	SETFA	SETFA	SETFA
Crop Code				
Rating Date	6-15-11	7-1-11	7-19-11	8-18-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-C	9 DA-D	60 DAP	
Trt-Eval Interval	26 DA-A	30 DA-B	60 DA-A	90 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F								
	Replicate Prob(F)								
	Treatment F								
	Treatment Prob(F)								

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

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Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	XANST	XANST	XANST	XANST	IPOHE	IPOHE	IPOHE	IPOHE													
							6-15-11	7-1-11	7-19-11	8-18-11	6-15-11	7-1-11	7-19-11	8-18-11													
							Control	Control	Control	Control	Control	Control	Control	Control													
							Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent													
							0 DA-C	9 DA-D	60 DAP	0 DA-C	9 DA-D	60 DAP	60 DAP	90 DA-A													
							26 DA-A	30 DA-B	60 DA-A	90 DA-A	26 DA-A	30 DA-B	60 DA-A	90 DA-A													
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	0.118	lb ai/a	7	fl oz/a	PRE	A	84	ab	97	ab	85	e	89	bc	88	bcd	96	a	95	b	97	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	89	ab	96	ab	93	a-d	94	abc	86	cd	92	b	96	ab	92	c		
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	ANTHEM	2.15	SE	0.118	lb ai/a	7	fl oz/a	PRE	A	88	ab	95	ab	92	bcd	93	abc	93	abc	98	a	96	ab	97	ab		
3	AATREX	4	SC	0.9	lb ai/a	0.9	qt/a	PRE	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	92	ab	98	ab	93	a-d	93	abc	95	ab	98	a	98	a	98	ab		
4	AATREX	4	SC	1.16	lb ai/a	1.16	qt/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	DUAL II MAGNUM	7.64	EC	1.34	lb ai/a	1.4	pt/a	PRE	A	66	b	94	b	84	e	88	c	81	d	96	a	96	ab	94	bc		
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	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	92	ab	97	ab	90	cde	91	abc	93	abc	97	a	96	ab	98	ab		
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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	68	ab	95	ab	89	de	87	c	96	a	97	a	98	ab	98	ab		
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C																		
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C																		
8	LEXAR	3.7	SC	2.08	lb ai/a	2.25	qt/a	PRE	A	98	a	96	ab	96	abc	98	a	95	ab	96	a	98	ab	98	ab		
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C																		
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C																		
9	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B					99	a	98	a	97	ab			98	a	98	ab	97	ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B																		
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	V2-3	B					99	a	97	ab	98	a			98	a	99	a		
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B																		
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B					99	a	97	ab	97	ab			99	a	98	a	99	a
11	AATREX	4	SC	0.8	lb ai/a	0.8	qt/a	V2-3	B																		
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B																		
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2-3	B					99	a	98	ab	98	ab			98	a	99	a		
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2-3	B																		
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2-3	B					98	ab	96	abc	98	a			99	a	98	a	98	ab
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B																		
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B					98	a	98	ab	98	a			97	a	98	a	99	a
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	B																		
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D																		
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D																		
15	NONTREATED									0	c	0	c	0	f	0	d	0	e	0	c	0	c	0	d		

Anthem Preemergence and Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160

Location: Belleville Res. Center

Pest Code	XANST	XANST	XANST	XANST	IPOHE	IPOHE	IPOHE	IPOHE								
Crop Code																
Rating Date	6-15-11	7-1-11	7-19-11	8-18-11	6-15-11	7-1-11	7-19-11	8-18-11								
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control								
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent								
Rating Timing	0 DA-C	9 DA-D	60 DAP		0 DA-C	9 DA-D	60 DAP									
Trt-Eval Interval	26 DA-A	30 DA-B	60 DA-A	90 DA-A	26 DA-A	30 DA-B	60 DA-A	90 DA-A								
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
LSD (P=.05)		30.5		4.0		6.7		8.8		7.8		3.1		3.0		4.2
Replicate F		3.122		0.922		1.246		1.098		5.435		0.323		1.417		1.298
Replicate Prob(F)		0.0447		0.4094		0.3030		0.3475		0.0054		0.7269		0.2592		0.2890
Treatment F		8.323		326.473		113.807		66.502		133.090		560.953		573.465		305.417
Treatment Prob(F)		0.0001		0.0001		0.0001		0.0001		0.0001		0.0001		0.0001		0.0001

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

Anthem Preemergence and Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160

Location: Belleville Res. Center

Pest Code									AMATA	AMATA	AMATA	AMATA	
Crop Code													
Rating Date									6-15-11	7-1-11	7-19-11	8-18-11	
Rating Data Type									Control	Control	Control	Control	
Rating Unit									Percent	Percent	Percent	Percent	
Rating Timing									0 DA-C	9 DA-D	60 DAP		
Trt-Eval Interval									26 DA-A	30 DA-B	60 DA-A	90 DA-A	
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	0.118	lb ai/a	7	fl oz/a	PRE	A	99 a	99 a	99 a	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl 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	ANTHEM	2.15	SE	0.118	lb ai/a	7	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
3	AATREX	4	SC	0.9	lb ai/a	0.9	qt/a	PRE	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	99 a	99 a	99 a	99 a
4	AATREX	4	SC	1.16	lb ai/a	1.16	qt/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	DUAL II MAGNUM	7.64	EC	1.34	lb ai/a	1.4	pt/a	PRE	A	99 a	99 a	99 a	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	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	99 a	99 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	99 a	99 a	99 a	99 a
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
8	LEXAR	3.7	SC	2.08	lb ai/a	2.25	qt/a	PRE	A	99 a	99 a	98 b	99 a
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
9	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B		99 a	99 a	99 a
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	V2-3	B		99 a	99 a	99 a
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B		99 a	99 a	99 a
11	AATREX	4	SC	0.8	lb ai/a	0.8	qt/a	V2-3	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2-3	B		99 a	99 a	99 a
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2-3	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2-3	B		99 a	99 a	99 a
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B		99 a	99 a	97 b
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	B				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
15	NONTREATED									0 b	0 b	0 c	0 c

Anthem Preemergence and Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160

Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA
Crop Code				
Rating Date	6-15-11	7-1-11	7-19-11	8-18-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-C	9 DA-D	60 DAP	
Trt-Eval Interval	26 DA-A	30 DA-B	60 DA-A	90 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	Replicate F								
	Replicate Prob(F)								
	Treatment F								
	Treatment Prob(F)								

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

Anthem Preemergence and Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160

Location: Belleville Res. Center

Pest Code	PANDI	PANDI	PANDI	PANDI
Crop Code				
Rating Date	6-15-11	7-1-11	7-19-11	8-18-11
Rating Data Type	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent
Rating Timing	0 DA-C	9 DA-D	60 DAP	
Trt-Eval Interval	26 DA-A	30 DA-B	60 DA-A	90 DA-A

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	0.118	lb ai/a	7	fl oz/a	PRE	A	94 a	99 a	98 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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	95 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	ANTHEM	2.15	SE	0.118	lb ai/a	7	fl oz/a	PRE	A	95 a	99 a	99 a	99 a
3	AATREX	4	SC	0.9	lb ai/a	0.9	qt/a	PRE	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	ANTHEM	2.15	SE	0.151	lb ai/a	9	fl oz/a	PRE	A	97 a	99 a	99 a	99 a
4	AATREX	4	SC	1.16	lb ai/a	1.16	qt/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	DUAL II MAGNUM	7.64	EC	1.34	lb ai/a	1.4	pt/a	PRE	A	95 a	99 a	99 a	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	BICEP II MAGNUM	5.5	SC	2.9	lb ai/a	2.1	qt/a	PRE	A	95 a	99 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	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	PRE	A	96 a	99 a	99 a	98 ab
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
8	LEXAR	3.7	SC	2.08	lb ai/a	2.25	qt/a	PRE	A	96 a	99 a	99 a	98 ab
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-1	C				
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-1	C				
9	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B		99 a	99 a	98 ab
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.134	lb ai/a	8	fl oz/a	V2-3	B		99 a	98 a	98 ab
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ANTHEM	2.15	SE	0.101	lb ai/a	6	fl oz/a	V2-3	B		99 a	99 a	99 a
11	AATREX	4	SC	0.8	lb ai/a	0.8	qt/a	V2-3	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	HALEX GT	4.38	CS	1.97	lb ai/a	3.6	pt/a	V2-3	B		99 a	99 a	98 ab
12	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	V2-3	B				
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	CAPRENO	3.45	SC	0.081	lb ai/a	3	fl oz/a	V2-3	B		99 a	99 a	94 b
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B				
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	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	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	B		99 a	98 a	95 ab
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	B				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W-2	D				
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W-2	D				
15	NONTREATED									0 b	0 b	0 b	0 c

Anthem Preemergence and Early Postemergence Evaluation in Corn.

Trial ID: 11-T1-S160

Location: Belleville Res. Center

Pest Code		PANDI	PANDI	PANDI	PANDI
Crop Code					
Rating Date		6-15-11	7-1-11	7-19-11	8-18-11
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing		0 DA-C	9 DA-D	60 DAP	
Trt-Eval Interval		26 DA-A	30 DA-B	60 DA-A	90 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
	LSD (P=.05)								
	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 30 DAE for PREs (application A) and 14 and 30 DA-B; WC at 30, 60, and 90 DA-A (30 DA-A should be prior to POST application); WC in all plots at 30 DA-B (prior to application D) and at 60-80 DAP. Following applications C and D rate reps 1-3 only.
3. Take any photos that depict treatment differences prior to applications C and D.
4. Yield.
5. DO NOT apply applications C and D to rep 4 (mix size and mix amounts have been adjusted).
6. Harvested 10-5-11, (2) 30 inch rows by 37 ft.