

Non-Atrazine Programs in Roundup Ready Corn.

Trial ID: 11-50E-S110

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: 6-4-11

Objectives: Evaluate the crop safety and weed control from non-atrazine programs in glyphosate-resistant corn.

Crop 1: ZEAMD Dent corn Variety: DKC 61-21 GENSS Description: RR2/LL
 Planting Method: SEDED Planting Date: 6-4-11
 Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest 3 Type: W Code: IPOSS morningglory, species
 Pest Description: Mixture of IPOHE and IPOLA
 Pest 4 Type: W Code: PANDI Panicum dichotomiflorum Michx. panicum, fall

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 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 50 LB/A, K20 150 LB/A

% OM: 1.6 Texture: SILT LOAM
 pH: 6.7 Soil Name: PIERRON
 CEC: 10 Fert. Level: P1: 78 LB/A, K: 281 LB/A

Application Description

	A	B
Application Date:	6-6-11	6-24-11
Time of Day:	11:30	7:00
Application Method:	Spray	Spray
Application Timing:	PRE	V2-4
Application Placement:	BROSOI	BROFOL
Applied By:	LAH	CME
Air Temperature, Unit:	93 F	68 F
% Relative Humidity:	45	71
Wind Velocity, Unit:	4 MPH	5 MPH
Wind Direction:	SW	S
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	76 F	74 F
Soil Moisture:	ABONOR	ABONOR
% Cloud Cover:	0	0

	A	B
Crop stage at application:	NA	V4
Height Min, Max (inch):	10	12

Pest Stage At Each Application

	6-6-11	6-24-11
Application Date:	6-6-11	6-24-11
Weed Code:	AMBTR	AMBTR
Stage Majority (leaves):	NA	6
Stage Min, Max:		coty 12
Height Majority:		3 IN
Height Min, Max:		1 7
Density, Unit:		2 FT2
Weed Code:	AMATA	AMATA
Stage Majority (leaves):	NA	4
Stage Min, Max:		coty 9
Height Majority:		0.5 IN
Height Min, Max:		0.5 3
Density, Unit:		0.5 FT2
Weed Code:	IPOSS	IPOSS
Stage Majority (leaves):	NA	4
Stage Min, Max:		coty 8
Height Majority:		2 IN
Height Min, Max:		1 3
Density, Unit:		0.1 FT2
Weed Code:	PANDI	PANDI
Stage Majority (leaves):	NA	NA

Application Equipment

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

Non-Atrazine Programs in Roundup Ready Corn.

Trial ID: 11-50E-S110

Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 10-26-11 Moisture Percent	ZEAMD 10-26-11 Test wt. lb/bu	ZEAMD 10-26-11 Yield bu/A	ZEAMD 7-22-11 Injury Percent	ZEAMD 8-12-11 Injury Percent	ZEAMD 10-4-11 Injury Percent	ZEAMD 10-4-11 Ht Red Percent
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Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	10-26-11 Moisture Percent	10-26-11 Test wt. lb/bu	10-26-11 Yield bu/A	7-22-11 Injury Percent	8-12-11 Injury Percent	10-4-11 Injury Percent	10-4-11 Ht Red Percent					
1	DEGREE XTRA	4.04	CS	2.53	lb ai/a	2.5	qt/a	PRE	A	16.6	de	60.7	a	66	a	0	a	0	a	0	a
1	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	PRE	A												
1	AATREX	4	SC	0.5	lb ai/a	1	pt/a	PRE	A												
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A												
1	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
2	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	PRE	A	19.9	ab	58.6	cd	71	a	0	a	0	a	0	a
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	PRE	A												
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A												
2	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	18.3	a-e	59.4	a-d	62	a	0	a	0	a	0	a
3	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
3	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B												
3	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	16.8	cde	60.5	ab	58	a	0	a	0	a	0	a
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
4	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B												
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	18.8	a-e	59.2	a-d	62	a	0	a	0	a	0	a
5	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V2-4	B												
5	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B												
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	19.3	a-d	59.0	bcd	76	a	0	a	0	a	0	a
6	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
6	LUMAX	3.95	SE	2.96	lb ai/a	3	qt/a	V2-4	B												
6	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	18.3	a-e	59.5	a-d	63	a	0	a	0	a	0	a
7	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
7	HALEX GT	4.38	CS	2.195	lb ai/a	64	fl oz/a	V2-4	B												
7	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	20.7	a	58.2	d	72	a	0	a	0	a	0	a
8	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
8	WARRANT	3	CS	1.125	lb ai/a	48	fl oz/a	V2-4	B												
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B												
8	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	20.6	a	58.3	d	70	a	0	a	0	a	0	a
9	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
9	TRIPLEFLEX	4.25	EC	0.93	lb ai/a	28	fl oz/a	V2-4	B												
9	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B												
9	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	19.1	a-d	59.0	bcd	68	a	0	a	0	a	0	a
10	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
10	TRIPLEFLEX	4.25	EC	1.063	lb ai/a	32	fl oz/a	V2-4	B												
10	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B												
10	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	19.5	a-d	58.9	cd	60	a	0	a	0	a	0	a
11	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A												
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B												
11	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B												
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B												
11	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B												

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										28 DA-B	49 DA-B	EOS	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	18.5 a-e	59.5 a-d	54 a	0 a	0 a	0 a	0 a
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	18.5 a-e	59.5 a-d	54 a	0 a	0 a	0 a	0 a
12	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A							
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B							
12	TRIPLEFLEX	4.25	EC	0.93	lb ai/a	28	fl oz/a	V2-4	B							
12	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B							
12	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B							
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B							
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	19.8 abc	58.9 cd	72 a	0 a	0 a	0 a	0 a
13	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A							
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B							
13	TRIPLEFLEX	4.25	EC	1.063	lb ai/a	32	fl oz/a	V2-4	B							
13	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B							
13	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B							
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B							
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	17.3 b-e	60.2 abc	59 a	0 a	0 a	0 a	0 a
14	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A							
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B							
14	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B							
14	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B							
14	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B							
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B							
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	18.5 a-e	59.5 a-d	71 a	0 a	0 a	0 a	0 a
15	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A							
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B							
15	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B							
15	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V2-4	B							
15	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B							
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	16.0 e	59.7 a-d	11 b	0 a	0 a	0 a	0 a
16	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A							
16	NO POST HERBS															
LSD (P=.05)										2.99	1.56	23.8	0.0	0.0	0.0	0.0
Replicate F										9.753	11.249	9.448	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000
Treatment F										1.771	1.689	3.195	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.0798	0.0982	0.0019	1.0000	1.0000	1.0000	1.0000

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

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								AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA		
								7-22-11	8-12-11	10-4-11	7-22-11	8-12-11	10-4-11		
								Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent		
								28 DA-B	49 DA-B	EOS	28 DA-B	49 DA-B	EOS		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	DEGREE XTRA	4.04	CS	2.53	lb ai/a	2.5	qt/a	PRE	A	95 c	97 b	98 b	98 abc	99 ab	99 a
1	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	PRE	A						
1	AATREX	4	SC	0.5	lb ai/a	1	pt/a	PRE	A						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
1	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
2	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	PRE	A	96 bc	97 b	99 a	93 d	97 cd	98 ab
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	PRE	A						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
2	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	98 ab	99 ab	97 abc	97 cd	99 a
3	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
3	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
3	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	96 bc	98 ab	99 a	97 bc	98 bcd	96 b
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
4	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	99 a	99 a	99 ab	96 c	97 d	98 ab
5	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V2-4	B						
5	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	98 ab	99 ab	99 a	99 abc	99 a
6	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
6	LUMAX	3.95	SE	2.96	lb ai/a	3	qt/a	V2-4	B						
6	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	97 abc	98 ab	99 ab	99 ab	98 a-d	99 a
7	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
7	HALEX GT	4.38	CS	2.195	lb ai/a	64	fl oz/a	V2-4	B						
7	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	97 abc	98 ab	98 b	99 ab	99 abc	98 a
8	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
8	WARRANT	3	CS	1.125	lb ai/a	48	fl oz/a	V2-4	B						
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
8	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	99 a	99 a	98 ab	98 a-d	99 a
9	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
9	TRIPLEFLEX	4.25	EC	0.93	lb ai/a	28	fl oz/a	V2-4	B						
9	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
9	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	99 a	99 a	99 a	98 ab	98 a-d	99 a
10	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
10	TRIPLEFLEX	4.25	EC	1.063	lb ai/a	32	fl oz/a	V2-4	B						
10	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
10	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	98 ab	99 ab	99 a	99 abc	98 a
11	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
11	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
11	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						

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Pest Code				AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA
Crop Code									
Rating Date				7-22-11	8-12-11	10-4-11	7-22-11	8-12-11	10-4-11
Rating Data Type				Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing									
Trt-Eval Interval				28 DA-B	49 DA-B	EOS	28 DA-B	49 DA-B	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	98 ab	99 a	99 a	99 a	99 a
12	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
12	TRIPLEFLEX	4.25	EC	0.93	lb ai/a	28	fl oz/a	V2-4	B						
12	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B						
12	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	98 ab	99 a	99 a	98 a-d	99 a
13	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
13	TRIPLEFLEX	4.25	EC	1.063	lb ai/a	32	fl oz/a	V2-4	B						
13	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B						
13	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	99 a	99 a	99 a	99 a	99 a
14	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
14	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
14	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B						
14	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	99 a	99 a	98 abc	98 a-d	99 a
15	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
15	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
15	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V2-4	B						
15	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	0 d	0 c	0 c	0 e	0 e	0 c
16	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
16	NO POST HERBS														
LSD (P=.05)										2.4	1.2	1.0	2.2	1.4	2.7
Replicate F										7.478	4.573	0.781	1.297	0.837	2.027
Replicate Prob(F)										0.0004	0.0070	0.5109	0.2870	0.4808	0.1236
Treatment F										873.886	3364.655	4792.825	1002.385	2355.131	694.086
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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

Non-Atrazine Programs in Roundup Ready Corn.

Trial ID: 11-50E-S110 Location: Belleville Res. Center

								IPOSS	IPOSS	IPOSS	PANDI	PANDI	PANDI		
								7-22-11	8-12-11	10-4-11	7-22-11	8-12-11	10-4-11		
								Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent		
								28 DA-B	49 DA-B	EOS	28 DA-B	49 DA-B	EOS		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	DEGREE XTRA	4.04	CS	2.53	lb ai/a	2.5	qt/a	PRE	A	97 abc	97 a	98 ab	98 a-d	97 ab	98 a
1	BALANCE FLEXX	2	SC	0.078	lb ai/a	5	fl oz/a	PRE	A						
1	AATREX	4	SC	0.5	lb ai/a	1	pt/a	PRE	A						
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
1	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
2	CORVUS	2.62	SC	0.092	lb ai/a	4.5	fl oz/a	PRE	A	90 d	91 b	97 b	93 g	93 bc	92 ab
2	AATREX	4	SC	0.5	lb ai/a	1	pt/a	PRE	A						
2	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
2	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	97 abc	96 a	98 a	99 ab	96 ab	97 a
3	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
3	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
3	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	99 a	94 ab	98 a	94 fg	92 c	91 ab
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
4	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
4	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	91 d	92 b	98 ab	95 efg	95 abc	96 a
5	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
5	LAUDIS	3.5	SC	0.082	lb ai/a	3	fl oz/a	V2-4	B						
5	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
5	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	97 a	98 a	99 ab	97 ab	98 a
6	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
6	LUMAX	3.95	SE	2.96	lb ai/a	3	qt/a	V2-4	B						
6	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	97 abc	96 a	97 ab	99 a	98 a	99 a
7	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
7	HALEX GT	4.38	CS	2.195	lb ai/a	64	fl oz/a	V2-4	B						
7	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	95 c	95 a	97 ab	95 fg	96 abc	99 a
8	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
8	WARRANT	3	CS	1.125	lb ai/a	48	fl oz/a	V2-4	B						
8	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
8	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 abc	97 a	98 a	98 abc	94 abc	94 ab
9	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
9	TRIPLEFLEX	4.25	EC	0.93	lb ai/a	28	fl oz/a	V2-4	B						
9	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
9	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	99 a	97 a	97 ab	97 b-f	96 abc	95 a
10	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
10	TRIPLEFLEX	4.25	EC	1.063	lb ai/a	32	fl oz/a	V2-4	B						
10	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
10	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	97 abc	97 a	97 ab	96 d-g	97 ab	97 a
11	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
11	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
11	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	V2-4	B						
11	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						

Non-Atrazine Programs in Roundup Ready Corn.

Trial ID: 11-50E-S110

Location: Belleville Res. Center

Pest Code	IPOSS	IPOSS	IPOSS	PANDI	PANDI	PANDI
Crop Code						
Rating Date	7-22-11	8-12-11	10-4-11	7-22-11	8-12-11	10-4-11
Rating Data Type	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing						
Trt-Eval Interval	28 DA-B	49 DA-B	EOS	28 DA-B	49 DA-B	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	96 abc	97 a	98 a	96 c-f	93 bc	93 ab
12	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
12	TRIPLEFLEX	4.25	EC	0.93	lb ai/a	28	fl oz/a	V2-4	B						
12	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B						
12	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
12	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	97 abc	96 a	98 a	96 d-g	94 abc	87 b
13	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
13	TRIPLEFLEX	4.25	EC	1.063	lb ai/a	32	fl oz/a	V2-4	B						
13	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B						
13	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
13	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	95 bc	97 a	98 ab	97 a-e	96 abc	97 a
14	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
14	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
14	LAUDIS	3.5	SC	0.055	lb ai/a	2	fl oz/a	V2-4	B						
14	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	V2-4	B						
14	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	98 ab	97 a	98 a	98 abc	98 a	98 a
15	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-4	B						
15	TRIPLEFLEX	4.25	EC	1.549	lb ai/a	46.6	fl oz/a	V2-4	B						
15	AATREX	4	SC	0.5	lb ai/a	1	pt/a	V2-4	B						
15	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	V2-4	B						
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A	0 e	0 c	0 c	0 h	0 d	0 c
16	CLASS ACT NG	100	SL	2.5	% v/v	2.5	% v/v	PRE	A						
16	NO POST HERBS														

LSD (P=.05)

3.2 3.6 1.2 2.5 4.3 7.8

Replicate F

2.329 0.514 5.682 5.947 14.199 9.461

Replicate Prob(F)

0.0871 0.6748 0.0022 0.0017 0.0001 0.0001

Treatment F

453.862 372.539 3243.841 768.052 248.385 77.386

Treatment Prob(F)

0.0001 0.0001 0.0001 0.0001 0.0001 0.0001

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

Trial Comments

1. Protocol: Monsanto (24-17).
2. Ratings: CI/WC at 28 and 49 DA-B; CI/height reduction/WC at harvest.
3. Yield and grain moisture.
4. Study incomplete.
5. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
Ht Red = Height reduction. EOS = End of season.
6. Missing harvest data due to water damaged plots.
7. Harvested 10-25-11, (2) 30 inch rows by 24 ft.