

Competitive Residual Herbicides in Roundup Ready Corn.

Trial ID: 08-8A 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: 06-14-08

Objectives: Evaluate the performance of the Roundup Ready corn weed management system with different residual herbicides.

Crop 1: ZEAMD Dent corn Variety: DKC 61-73 RR2/YGCB  
 Planting Method: SEEDED Planting Date: 06-14-08  
 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: CYPES Cyperus esculentus L. nutsedge, yellow  
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common  
 Pest 4 Type: W Code: IPOHE Ipomoea hederacea (L.) Jacq. morningglory, ivyleaf  
 Pest 5 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant  
 Pest 6 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

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 2007

Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

% OM: 1.8 Texture: SILT LOAM  
 pH: 5.8 Soil Name: PIERRON  
 CEC: 12 Fert. Level: P1 73 LB/A, K 436 LB/A

	Application Description		
	A	B	C
Application Date:	06-15-08	07-07-08	07-18-08
Time of Day:	11:00	11:00	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	3-4"W	3-4"RG
Application Placement:	BROSIO	BROFOL	BROFOL
Applied By:	TGM	TGM	TGM
Air Temperature, Unit:	86 F	86 F	78 F
% Relative Humidity:	52	84	90
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	80 F	85 F	89 F
Soil Moisture:	ABONOR	ABONOR	NORMAL
% Cloud Cover:	0	40	0
Crop stage at application:	NA	V5	V8
Height Min, Max (inch):		19 22	58 63

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	Pest Stage At Each Application		
Application Date:	06-15-08	07-07-08	07-18-08
Weed Code:	SETFA	SETFA	SETFA
Stage Majority (leaves):	NA	4	3
Stage Min, Max:		2 7	3 4
Height Majority:		4	IN 4 IN
Height Min, Max:		3 8	2 5
Density, Unit:		2 FT2	1 FT2
Weed Code:	CYPES	CYPES	CYPES
Stage Majority (leaves):	NA	6	6
Stage Min, Max:		3 10	3 9
Height Majority:		4	IN 5 IN
Height Min, Max:		3 9	3 8
Density, Unit:		1 FT2	0.5 FT2
Weed Code:	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	10	6
Stage Min, Max:		2 19	3 8
Height Majority:		4	IN 4 IN
Height Min, Max:		1 6	3 8
Density, Unit:		10 FT2	0.5 FT2
Weed Code:	IPOHE	IPOHE	IPOHE
Stage Majority (leaves):	NA	3	2
Stage Min, Max:		COTY 6	COTY 4
Height Majority:		4	IN 3 IN
Height Min, Max:		2 5	1 4
Density, Unit:		0.5 FT2	0.1 FT2
Weed Code:	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	4	COTY
Stage Min, Max:		2 8	COTY 4
Height Majority:		4	IN 3 IN
Height Min, Max:		3 6	1 6
Density, Unit:		1 FT2	1 FT2
Weed Code:	ABUTH	ABUTH	ABUTH
Stage Majority (leaves):	NA	4	NA
Stage Min, Max:		2 6	
Height Majority:		4	IN
Height Min, Max:		2 7	
Density, Unit:		0.1 FT2	

Application Equipment

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

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							ZEAMD			SETFA														
							11-10-08	11-10-08	07-03-08	07-28-08	08-25-08	07-03-08	07-28-08	08-25-08										
							Moisture	Yield	Injury	Injury	Injury	Control	Control	Control										
							Percent	bu/A	Percent	Percent	Percent	Percent	Percent	Percent										
									18 DA-A	10 DA-C	20 DACT	18 DA-A	10 DA-C	20 DACT										
									-4 DA-B	21 DA-B	49 DA-B	-4 DA-B	21 DA-B	49 DA-B										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code															
1	HARNESXTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	16.6	abc	198	a	0	a	0	a	98	a	99	a			
1	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B															
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
2	DEGREE XTRA	4.04	CS	2	lb ai/a	2	qt/a	PRE	A	16.2	c	202	a	0	a	0	a	95	ab	99	a			
2	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B															
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
3	GUARDSMAN MAX	5	SE	1.56	lb ai/a	2.5	pt/a	PRE	A	17.0	abc	210	a	0	a	0	a	84	bc	99	a			
3	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B															
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
4	LEXAR	3.7	SC	1.86	lb ai/a	2	qt/a	PRE	A	16.3	bc	212	a	0	a	0	a	89	abc	99	a			
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B															
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
5	BICEP II MAG	5.5	SC	2	lb ai/a	1.45	qt/a	PRE	A	16.7	abc	209	a	0	a	0	a	93	abc	74	c	75	b	
5	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	3-4"W	B															
5	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	3-4"W	B															
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
6	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	A	16.8	abc	214	a	0	a	0	a	82	c	97	ab	98	a	
6	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B															
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
7	SURESTART	4.25	SC	0.64	lb ai/a	1.2	pt/a	PRE	A	17.1	a	216	a	0	a	0	a	96	a	98	ab	98	a	
7	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B															
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
8	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B	17.0	ab	210	a	0	a	0	a			95	b	97	a	
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B	16.8	abc	200	a	0	a	0	a			99	a	99	a	
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"RG	C															
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"RG	C															
10	DEFINE	4	SC	0.26	lb ai/a	8.33	fl oz/a	PRE	A	16.8	abc	208	a	0	a	0	a	90	abc	99	a	99	a	
10	BALANCE PRO	4	SC	0.063	lb ai/a	2	fl oz/a	PRE	A															
10	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B															
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B															
11	NONTREATED									16.9	abc	165	b	0	a	0	a	0	d	0	d	0	c	
LSD (P=.05)										0.77		20.6		0.0		0.0		0.0		11.8		3.6		2.6
Replicate F										7.022		1.392		0.000		0.000		0.000		1.713		2.098		1.527
Replicate Prob(F)										0.0010		0.2644		1.0000		1.0000		1.0000		0.1909		0.1215		0.2278
Treatment F										1.170		4.013		0.000		0.000		0.000		57.522		576.421		1114.838
Treatment Prob(F)										0.3483		0.0015		1.0000		1.0000		1.0000		0.0001		0.0001		0.0001

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

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Pest Code										CYPES	CYPES	CYPES	AMATA	AMATA	AMATA
Crop Code										07-03-08	07-28-08	08-25-08	07-03-08	07-28-08	08-25-08
Rating Date										Control	Control	Control	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit										18 DA-A	10 DA-C	20 DACT	18 DA-A	10 DA-C	20 DACT
Rating Timing										-4 DA-B	21 DA-B	49 DA-B	-4 DA-B	21 DA-B	49 DA-B
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	HARNESXTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	70 a	93 abc	96 abc	99 a	99 a	99 a
1	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
2	DEGREE XTRA	4.04	CS	2	lb ai/a	2	qt/a	PRE	A	90 a	95 a	97 a	99 a	99 a	99 a
2	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
3	GUARDSMAN MAX	5	SE	1.56	lb ai/a	2.5	pt/a	PRE	A	80 a	94 ab	97 ab	97 ab	99 a	99 a
3	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
4	LEXAR	3.7	SC	1.86	lb ai/a	2	qt/a	PRE	A	80 a	97 a	98 a	99 a	99 a	99 a
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
5	BICEP II MAG	5.5	SC	2	lb ai/a	1.45	qt/a	PRE	A	80 a	97 a	97 a	98 a	99 a	99 a
5	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	3-4"W	B						
5	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	3-4"W	B						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
6	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	A	76 a	92 a-d	96 abc	96 b	98 a	98 a
6	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
7	SURESTART	4.25	SC	0.64	lb ai/a	1.2	pt/a	PRE	A	69 a	89 bcd	94 bc	99 a	99 a	99 a
7	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
8	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B		88 cd	94 c		97 b	97 b
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B		87 d	94 bc		99 a	99 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"RG	C						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"RG	C						
10	DEFINE	4	SC	0.26	lb ai/a	8.33	fl oz/a	PRE	A	81 a	93 ab	96 abc	99 a	99 a	99 a
10	BALANCE PRO	4	SC	0.063	lb ai/a	2	fl oz/a	PRE	A						
10	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
11	NONTREATED									0 b	0 e	0 d	0 c	0 c	0 c
LSD (P=.05)										34.2	5.4	2.5	2.0	0.8	0.8
Replicate F										1.041	0.259	0.454	1.292	2.031	2.031
Replicate Prob(F)										0.3925	0.8544	0.7167	0.3000	0.1306	0.1306
Treatment F										5.217	225.828	1118.054	2314.362	10436.519	10436.519
Treatment Prob(F)										0.0007	0.0001	0.0001	0.0001	0.0001	0.0001

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

Competitive Residual Herbicides in Roundup Ready Corn.

Trial ID: 08-8A Location: Belleville Res. Center

Pest Code								IPOHE	IPOHE	IPOHE	AMBTR	AMBTR	AMBTR		
Crop Code								07-03-08	07-28-08	08-25-08	07-03-08	07-28-08	08-25-08		
Rating Date								Control	Control	Control	Control	Control	Control		
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit								18 DA-A	10 DA-C	20 DACT	18 DA-A	10 DA-C	20 DACT		
Rating Timing								-4 DA-B	21 DA-B	49 DA-B	-4 DA-B	21 DA-B	49 DA-B		
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	HARNESXTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	88 ab	93 abc	96 ab	91 a	98 ab	99 ab
1	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
2	DEGREE XTRA	4.04	CS	2	lb ai/a	2	qt/a	PRE	A	92 ab	94 abc	95 abc	92 a	98 ab	99 ab
2	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
3	GUARDSMAN MAX	5	SE	1.56	lb ai/a	2.5	pt/a	PRE	A	93 ab	95 abc	96 ab	83 a	99 a	99 ab
3	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
4	LEXAR	3.7	SC	1.86	lb ai/a	2	qt/a	PRE	A	92 ab	96 ab	98 a	91 a	99 a	99 ab
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
5	BICEP II MAG	5.5	SC	2	lb ai/a	1.45	qt/a	PRE	A	92 ab	98 a	98 a	88 a	99 a	99 a
5	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	3-4"W	B						
5	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	3-4"W	B						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
6	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	A	93 a	92 bcd	96 ab	90 a	96 ab	98 ab
6	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
7	SURESTART	4.25	SC	0.64	lb ai/a	1.2	pt/a	PRE	A	91 ab	88 de	90 d	60 b	95 b	98 b
7	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
8	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B		84 e	84 e		97 ab	98 b
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B		88 de	93 bcd		99 a	99 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"RG	C						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"RG	C						
10	DEFINE	4	SC	0.26	lb ai/a	8.33	fl oz/a	PRE	A	84 b	90 cd	91 cd	86 a	99 a	99 a
10	BALANCE PRO	4	SC	0.063	lb ai/a	2	fl oz/a	PRE	A						
10	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B						
11	NONTREATED									0 c	0 f	0 f	0 c	0 c	0 c
LSD (P=.05)										8.7	5.1	3.7	22.7	3.7	1.1
Replicate F										1.324	0.213	0.388	0.707	0.962	4.134
Replicate Prob(F)										0.2897	0.8869	0.7626	0.5573	0.4236	0.0145
Treatment F										103.981	255.112	487.908	14.980	534.818	6505.962
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)

## Competitive Residual Herbicides in Roundup Ready Corn.

Trial ID: 08-8A

Location: Belleville Res. Center

Pest Code				ABUTH		ABUTH		ABUTH				
Crop Code				07-03-08		07-28-08		08-25-08				
Rating Date				Control		Control		Control				
Rating Data Type				18 DA-A		10 DA-C		20 DACT				
Rating Unit				-4 DA-B		21 DA-B		49 DA-B				
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	HARNESXTRA 5.6	5.6	EC	2.1	lb ai/a	1.5	qt/a	PRE	A	90 a	99 b	98 b
1	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B			
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
2	DEGREE XTRA	4.04	CS	2	lb ai/a	2	qt/a	PRE	A	93 a	99 a	99 a
2	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B			
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
3	GUARDSMAN MAX	5	SE	1.56	lb ai/a	2.5	pt/a	PRE	A	93 a	99 ab	99 a
3	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B			
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
4	LEXAR	3.7	SC	1.86	lb ai/a	2	qt/a	PRE	A	97 a	99 ab	99 a
4	TOUCHDOWN TOTAL	4.17	SL	0.78	lb ae/a	24	fl oz/a	3-4"W	B			
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
5	BICEP II MAG	5.5	SC	2	lb ai/a	1.45	qt/a	PRE	A	95 a	99 a	99 a
5	CALLISTO	4	SC	0.094	lb ai/a	3	fl oz/a	3-4"W	B			
5	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	3-4"W	B			
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
6	AATREX NINE-O	90	WG	1	lb ai/a	1.11	lb/a	PRE	A	93 a	99 a	99 a
6	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B			
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
7	SURESTART	4.25	SC	0.64	lb ai/a	1.2	pt/a	PRE	A	95 a	99 a	99 a
7	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B			
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
8	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B		99 ab	99 a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B		99 a	99 a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
9	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"RG	C			
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"RG	C			
10	DEFINE	4	SC	0.26	lb ai/a	8.33	fl oz/a	PRE	A	90 a	99 a	99 a
10	BALANCE PRO	4	SC	0.063	lb ai/a	2	fl oz/a	PRE	A			
10	ROUNDUP P-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	B			
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	3-4"W	B			
11	NONTREATED									0 b	0 c	0 c
LSD (P=.05)										7.6	0.5	0.9
Replicate F										9.295	0.833	0.952
Replicate Prob(F)										0.0003	0.4861	0.4279
Treatment F										141.791	35551.187	10153.624
Treatment Prob(F)										0.0001	0.0001	0.0001

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

## Trial Comments

1. Protocol: Monsanto (04-02).
2. Ratings: CI/WC at 0 21 da "B" and at 20 da tassel.
3. Base application "B" on weed size in treatments 1 and 2.
4. Yield.
5. DA-A = Days after the PRE application. DA-B = Days after the 3-4"W application. DA-C = Days after the 3-4"RG application. DACT = Days after corn tassel.
6. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.  
Following the PRE application on June 15, rainfall was 0.29 inch 5 days later and 0.35 inch 12 days later.
7. Harvested 11-1-08, (2) 30 inch rows by 24 ft.