

No-Till Corn Weed Control Studies

Southern Illinois University

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn 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: 06-16-08

Objectives: To evaluate weed control and weed population shifts over a long period of time in transgenic crops.

Crop 1: ZEAMX corn, field Variety: P33K44
 Planting Method: Seeded Planting Date: 06-16-08
 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: HORPU	Hordeum pusillum Nutt.	barley, little
Pest 3 Type: W	Code: AMBEL	Ambrosia artemisiifolia L.	ragweed, common
Pest 4 Type: W	Code: SETFA	Setaria faberi Herrm.	foxtail, giant
Pest 5 Type: W	Code: AMAPA	Amaranthus palmeri S.Wats.	amaranth, Palmer
Pest 6 Type: W	Code: IPOHE	Ipomoea hederacea (L.) jacq.	morningglory, annual
Pest 7 Type: W	Code: XANST	Xanthium strumarium L.	cocklebur, common
Pest 8 Type: W	Code: PANDI	Panicum dichotomiflorum Michx.	panicum, fall

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 FT Tillage Type: See treatment list
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year
 1. GLXMA 2007

Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 100 LB/A

% OM: 2	Texture: SILT LOAM
pH: 6.3	Soil Name: BETHALTO
CEC: 12	Fert. Level: P1 80 LB/A, K 430 LB/A

	Application Description			
	A	B	C	D
Application Date:	06-17-08	07-08-08	07-11-08	07-18-08
Time of Day:	8:00	8:00	20:00	11:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	10DA2-4"	2-4"W-2
Application Placement:	BROSIOI	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	66 F	78 F	80 F	88 F
% Relative Humidity:	90	92	92	58
Wind Velocity, Unit:	0 MPH	5 MPH	2 MPH	1 MPH
Soil Temperature, Unit:	81 F	83 F	86 F	89 F
Soil Moisture:	NORMAL	ABONOR	ABONOR	NORMAL

	06-17-08	07-08-08	07-11-08	07-18-08
Crop stage at application:	NA	V4-V5	V6-V7	V7
Height Min, Max (inch):		12 14	20 22	22 46

	Pest Stage At Each Application			
	06-17-08	07-08-08	07-11-08	07-18-08
Application Date:	06-17-08	07-08-08	07-11-08	07-18-08
Weed Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Min, Max:	2 10+	5 6	COTY 2	2 6
Height Min, Max:	4 12	2 6	2 4	2 6
Weed Code:	HORPU	HORPU	HORPU	HORPU
Stage Min, Max:	NA	NA	NA	NA
Weed Code:	AMBEL	AMBEL	AMBEL	AMBEL
Stage Min, Max:	4 10+	NA	COTY 2	NA
Height Min, Max:	5 9		1 2	
Weed Code:	SETFA	SETFA	SETFA	SETFA
Stage Min, Max:	5 6	5 6	NA	3 4
Height Min, Max:	6 12	4 6		2 6
Weed Code:	AMAPA	AMAPA	AMAPA	AMAPA
Stage Min, Max:	NA	4 10+	2 8	4 8
Height Min, Max:		2 6	1 6	2 8
Weed Code:	IPOHE	IPOHE	IPOHE	IPOHE
Stage Min, Max:	NA	5 10	COTY 2	2 4
Height Min, Max:		1 4	1 3	1 4
Weed Code:	XANST	XANST	XANST	XANST
Stage Min, Max:	NA	4 6	NA	2 6
Height Min, Max:		2 4		2 4
Weed Code:	PANDI	PANDI	PANDI	PANDI
Stage Min, Max:	NA	NA	NA	NA

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn

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 8003	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn

Location: Belleville Res. Center

								HORPU							
								ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD		
								11-26-08	11-28-08	11-28-08					
								Height	Moisture	Yield	Injury	Injury	Injury		
								Inch	Percent	bu/A	Percent	Percent	Percent		
											14 DAT	28 DAT	56 DAT		
													10 DA-A		
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl							
No.	Name	Conc	Type	Unit	Rate	Rate	Stage	Code							
1	CORN IN 2008								106 d	18.8 a	12 e	0 a	0 a	0 a	0 b
1	NO-TILL														
1	NONTREATED														
2	CORN IN 2008								119 a	17.7 bc	200 abc	0 a	0 a	0 a	100 a
2	NO-TILL														
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
2	HANDWEED														
3	CORN IN 2008								121 a	17.5 bcd	189 bc	0 a	0 a	0 a	100 a
3	NO-TILL														
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
3	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A						
3	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A						
4	CORN IN 2008								121 a	17.3 bcd	207 ab	0 a	0 a	0 a	100 a
4	NO-TILL														
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
4	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A						
4	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A						
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	D						
4	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-2	D						
5	CORN IN 2008								120 a	17.7 bc	179 c	0 a	0 a	0 a	100 a
5	NO-TILL														
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
5	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A						
5	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A						
5	ACCENT	75	WG	0.031	lb ai/a	0.66	oz/a	2-4"W-2	D						
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-2	D						
6	CORN IN 2008								119 ab	17.9 abc	204 ab	0 a	0 a	0 a	100 a
6	NO-TILL														
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
6	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A						
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B						
6	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B						
7	CORN IN 2008								117 abc	17.6 bcd	198 abc	0 a	0 a	0 a	100 a
7	NO-TILL														
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B						
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B						
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10DA2-4"	C						
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	10DA2-4"	C						
8	CORN IN 2008								119 ab	17.8 bc	201 abc	0 a	0 a	0 a	100 a
8	NO-TILL														
8	TOUCHDOWN TOTAL	4.17	SC	0.77	lb ae/a	23.6	fl oz/a	PRE	A						
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B						
8	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B						
9	CORN IN 2008								121 a	18.3 ab	198 abc	0 a	0 a	0 a	100 a
9	NO-TILL														
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B						
9	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	2-4"W-1	B						
9	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B						
10	CORN IN 2008								119 ab	18.1 abc	192 abc	0 a	0 a	0 a	100 a
10	NO-TILL														
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A						
10	BASIS GOLD	90	WG	0.79	lb ai/a	14	oz/a	2-4"W-1	B						
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-1	B						
11	CORN IN 2008								107 d	17.2 cd	108 d	0 a	0 a	0 a	
11	REDUCED-TILL														
11	NONTREATED														

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								HORPU							
				ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD						
				11-26-08	11-28-08	11-28-08									
				Height	Moisture	Yield	Injury	Injury	Injury	Control					
				Inch	Percent	bu/A	Percent	Percent	Percent	Percent	Percent				
							14 DAT	28 DAT	56 DAT	10 DA-A					
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl							
No.	Name	Conc	Type	Rate	Rate	Rate	Stage	Code							
12	CORN IN 2008								116 abc	18.0 abc	211 ab	0 a	0 a	0 a	
12	REDUCED-TILL														
12	CULTIVATE														
12	HANDWEED														
13	CORN IN 2008								119 a	17.2 cd	204 ab	0 a	0 a	0 a	
13	REDUCED-TILL														
13	BICEP II MAGNUM	5.5 L		2.88 lb ai/a	2.1 qt/a		PRE	A							
13	AATREX	90 WG		0.40 lb ai/a	0.444 lb/a		PRE	A							
14	CORN IN 2008								114 bc	18.2 abc	194 abc	0 a	0 a	0 a	
14	REDUCED-TILL														
14	BICEP II MAGNUM	5.5 L		2.88 lb ai/a	2.1 qt/a		PRE	A							
14	AATREX	90 WG		0.40 lb ai/a	0.444 lb/a		PRE	A							
14	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-2	D							
14	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-2	D							
15	CORN IN 2008								119 ab	16.7 d	215 a	0 a	0 a	0 a	
15	REDUCED-TILL														
15	BICEP II MAGNUM	5.5 L		2.88 lb ai/a	2.1 qt/a		PRE	A							
15	AATREX	90 WG		0.40 lb ai/a	0.444 lb/a		PRE	A							
15	ACCENT	75 WG		0.031 lb ai/a	0.66 oz/a		2-4"W-2	D							
15	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		2-4"W-2	D							
16	CORN IN 2008								119 ab	18.0 abc	213 a	0 a	0 a	0 a	
16	REDUCED-TILL														
16	DUAL II MAGNUM	7.64 EC		1.27 lb ai/a	1.33 pt/a		PRE	A							
16	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B							
16	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B							
17	CORN IN 2008								117 abc	17.8 bc	211 ab	0 a	0 a	0 a	
17	REDUCED-TILL														
17	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B							
17	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B							
17	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		10DA2-4"	C							
17	AMS	100 SG		3.0 lb ai/a	3 lb/a		10DA2-4"	C							
18	CORN IN 2008								114 c	17.6 bcd	199 abc	0 a	0 a	0 a	
18	REDUCED-TILL														
18	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B							
18	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B							
19	CORN IN 2008								116 abc	18.3 ab	196 abc	0 a	0 a	0 a	
19	REDUCED-TILL														
19	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B							
19	AATREX	90 WG		0.75 lb ai/a	0.83 lb/a		2-4"W-1	B							
19	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B							
20	CORN IN 2008								113 c	17.9 abc	197 abc	0 a	0 a	0 a	
20	REDUCED-TILL														
20	BASIS GOLD	90 WG		0.79 lb ai/a	14 oz/a		2-4"W-1	B							
20	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		2-4"W-1	B							
LSD (P=.05)									5.0	0.99	22.9	0.0	0.0	0.0	0.0
Replicate F									3.108	0.765	0.350	0.000	0.000	0.000	0.000
Replicate Prob(F)									0.0334	0.5184	0.7893	1.0000	1.0000	1.0000	1.0000
Treatment F									5.816	1.811	33.174	0.000	0.000	0.000	0.000
Treatment Prob(F)									0.0001	0.0439	0.0001	1.0000	1.0000	1.0000	1.0000

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

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Trial ID: 08-9B-Corn Location: Belleville Res. Center

								AMBTR	AMBTR	AMBTR	AMBTR	AMBEL	AMBEL	AMBEL	AMBEL	
								Control	Control	Control	Control	Control	Control	Control	Control	
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
								10 DA-A	14 DAT	28 DAT	56 DAT	10 DA-A	14 DAT	28 DAT	56 DAT	
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl								
No.	Name	Conc	Type	Unit	Rate	Rate	Stage	Code								
1	CORN IN 2008								0 d	50 c	50 c	50 c	0 c	50 b	25 b	25 b
1	NO-TILL															
1	NONTREATED															
2	CORN IN 2008								100 a	100 a	100 a	100 a	98 a	100 a	100 a	100 a
2	NO-TILL															
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
2	HANDWEED															
3	CORN IN 2008								96 ab	97 ab	97 ab	97 ab	98 a	99 a	99 a	99 a
3	NO-TILL															
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
3	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A							
3	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A							
4	CORN IN 2008								96 ab	98 a	98 a	98 a	98 a	99 a	99 a	99 a
4	NO-TILL															
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
4	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A							
4	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A							
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	D							
4	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-2	D							
5	CORN IN 2008								96 ab	94 ab	92 ab	92 ab	97 b	99 a	99 a	99 a
5	NO-TILL															
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
5	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A							
5	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A							
5	ACCENT	75	WG	0.031	lb ai/a	0.66	oz/a	2-4"W-2	D							
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-2	D							
6	CORN IN 2008								95 abc	97 ab	97 ab	97 ab	98 a	99 a	99 a	99 a
6	NO-TILL															
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
6	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A							
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B							
6	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B							
7	CORN IN 2008								92 bc	97 ab	97 ab	97 ab	98 a	98 a	98 a	98 a
7	NO-TILL															
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B							
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B							
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10DA2-4"	C							
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	10DA2-4"	C							
8	CORN IN 2008								91 bc	96 ab	96 ab	96 ab	98 a	98 a	98 a	98 a
8	NO-TILL															
8	TOUCHDOWN TOTAL	4.17	SC	0.77	lb ae/a	23.6	fl oz/a	PRE	A							
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B							
8	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B							
9	CORN IN 2008								90 c	99 a	99 a	99 a	98 a	99 a	99 a	99 a
9	NO-TILL															
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B							
9	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	2-4"W-1	B							
9	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B							
10	CORN IN 2008								91 bc	96 ab	96 ab	96 ab	98 a	99 a	99 a	99 a
10	NO-TILL															
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A							
10	BASIS GOLD	90	WG	0.79	lb ai/a	14	oz/a	2-4"W-1	B							
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-1	B							
11	CORN IN 2008									74 b	74 b	74 b	99 a	99 a	99 a	
11	REDUCED-TILL															
11	NONTREATED															

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Trial ID: 08-9B-Corn Location: Belleville Res. Center

Pest Code		AMBTR				AMBEL											
Crop Code		AMBTR				AMBEL											
Rating Date		AMBTR				AMBEL											
Rating Data Type		AMBTR				AMBEL											
Rating Unit		Control Percent				Control Percent											
Rating Timing		10 DA-A				14 DAT											
Trt-Eval Interval		28 DAT				56 DAT											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Control Percent 10 DA-A	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT				
12	CORN IN 2008									100 a	100 a	100 a					
12	REDUCED-TILL												100 a				
12	CULTIVATE												100 a				
12	HANDWEED												100 a				
13	CORN IN 2008									99 a	99 a	99 a					
13	REDUCED-TILL												99 a				
13	BICEP II MAGNUM	5.5 L		2.88	lb ai/a	2.1	qt/a	PRE	A				99 a				
13	AATREX	90 WG		0.40	lb ai/a	0.444	lb/a	PRE	A				99 a				
14	CORN IN 2008									99 a	99 a	99 a					
14	REDUCED-TILL												99 a				
14	BICEP II MAGNUM	5.5 L		2.88	lb ai/a	2.1	qt/a	PRE	A				99 a				
14	AATREX	90 WG		0.40	lb ai/a	0.444	lb/a	PRE	A				99 a				
14	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-2	D				99 a				
14	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-2	D				99 a				
15	CORN IN 2008									99 a	99 a	99 a					
15	REDUCED-TILL												99 a				
15	BICEP II MAGNUM	5.5 L		2.88	lb ai/a	2.1	qt/a	PRE	A				99 a				
15	AATREX	90 WG		0.40	lb ai/a	0.444	lb/a	PRE	A				99 a				
15	ACCENT	75 WG		0.031	lb ai/a	0.66	oz/a	2-4"W-2	D				99 a				
15	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W-2	D				99 a				
16	CORN IN 2008									98 a	98 a	98 a					
16	REDUCED-TILL												99 a				
16	DUAL II MAGNUM	7.64 EC		1.27	lb ai/a	1.33	pt/a	PRE	A				99 a				
16	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B				99 a				
16	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B				99 a				
17	CORN IN 2008									99 a	99 a	99 a					
17	REDUCED-TILL												99 a				
17	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B				99 a				
17	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B				99 a				
17	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	10DA2-4"	C				99 a				
17	AMS	100 SG		3.0	lb ai/a	3	lb/a	10DA2-4"	C				99 a				
18	CORN IN 2008									98 a	98 a	98 a					
18	REDUCED-TILL												98 a				
18	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B				98 a				
18	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B				98 a				
19	CORN IN 2008									98 a	98 a	98 a					
19	REDUCED-TILL												99 a				
19	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B				99 a				
19	AATREX	90 WG		0.75	lb ai/a	0.83	lb/a	2-4"W-1	B				99 a				
19	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B				99 a				
20	CORN IN 2008									98 a	98 a	98 a					
20	REDUCED-TILL												99 a				
20	BASIS GOLD	90 WG		0.79	lb ai/a	14	oz/a	2-4"W-1	B				99 a				
20	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W-1	B				99 a				
LSD (P=.05)										6.4	23.5	23.6	23.6	0.7	18.1	15.7	15.7
Replicate F										5.988	1.968	1.977	1.977	1.000	0.955	0.968	0.968
Replicate Prob(F)										0.0029	0.1291	0.1276	0.1276	0.4079	0.4202	0.4140	0.4140
Treatment F										183.234	2.036	2.033	2.033	17045.742	2.982	8.938	8.938
Treatment Prob(F)										0.0001	0.0204	0.0206	0.0206	0.0001	0.0008	0.0001	0.0001

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

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn Location: Belleville Res. Center

								SETFA	SETFA	SETFA	AMAPA	AMAPA	AMAPA	IPOHE	IPOHE	IPOHE		
								Control	Control	Control	Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
								14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code									
1	CORN IN 2008									50 c	50 c	50 c	99 a	99 a	99 a	99 a	99 a	
1	NO-TILL																	
1	NONTREATED																	
2	CORN IN 2008									100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	
2	NO-TILL																	
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
2	HANDWEED																	
3	CORN IN 2008									99 a	99 a	99 a	99 a	99 a	99 a	99 a	99 a	
3	NO-TILL																	
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
3	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A									
3	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A									
4	CORN IN 2008									99 a	99 a	99 a	99 a	99 a	99 a	99 a	99 a	
4	NO-TILL																	
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
4	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A									
4	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A									
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	D									
4	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-2	D									
5	CORN IN 2008									96 a	96 a	96 a	98 ab	98 a	98 a	99 a	99 a	99 a
5	NO-TILL																	
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
5	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A									
5	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A									
5	ACCENT	75	WG	0.031	lb ai/a	0.66	oz/a	2-4"W-2	D									
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-2	D									
6	CORN IN 2008									99 a	99 a	99 a	99 a	99 a	99 a	96 ab	96 ab	96 ab
6	NO-TILL																	
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
6	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A									
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B									
6	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B									
7	CORN IN 2008									99 a	99 a	99 a	99 a	99 a	99 a	97 ab	97 a	97 a
7	NO-TILL																	
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B									
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B									
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10DA2-4"	C									
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	10DA2-4"	C									
8	CORN IN 2008									97 a	97 a	97 a	99 a	99 a	99 a	97 ab	97 a	97 a
8	NO-TILL																	
8	TOUCHDOWN TOTAL	4.17	SC	0.77	lb ae/a	23.6	fl oz/a	PRE	A									
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B									
8	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B									
9	CORN IN 2008									99 a	99 a	99 a	99 a	99 a	99 a	98 ab	98 a	98 a
9	NO-TILL																	
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B									
9	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	2-4"W-1	B									
9	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B									
10	CORN IN 2008									99 a	99 a	99 a	98 ab	98 a	98 a	98 ab	98 a	98 a
10	NO-TILL																	
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A									
10	BASIS GOLD	90	WG	0.79	lb ai/a	14	oz/a	2-4"W-1	B									
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-1	B									
11	CORN IN 2008									0 d	0 d	0 d	0 d	0 d	0 d	0 d	0 d	
11	REDUCED-TILL																	
11	NONTREATED																	

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn Location: Belleville Res. Center

										SETFA	SETFA	SETFA	AMAPA	AMAPA	AMAPA	IPOHE	IPOHE	IPOHE
										Control	Control	Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
										14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT	14 DAT	28 DAT	56 DAT
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl										
No.	Name	Conc	Type	Unit	Rate	Rate	Stage	Code										
12	CORN IN 2008								100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a	100 a
12	REDUCED-TILL																	
12	CULTIVATE																	
12	HANDWEED																	
13	CORN IN 2008								99 a	99 a	99 a	99 a	99 a	99 a	99 a	90 ab	90 ab	90 ab
13	REDUCED-TILL																	
13	BICEP II MAGNUM	5.5 L		2.88 lb ai/a	2.1 qt/a		PRE	A										
13	AATREX	90 WG		0.40 lb ai/a	0.444 lb/a		PRE	A										
14	CORN IN 2008								99 a	99 a	99 a	99 a	99 a	99 a	99 a	98 ab	98 a	98 a
14	REDUCED-TILL																	
14	BICEP II MAGNUM	5.5 L		2.88 lb ai/a	2.1 qt/a		PRE	A										
14	AATREX	90 WG		0.40 lb ai/a	0.444 lb/a		PRE	A										
14	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-2	D										
14	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-2	D										
15	CORN IN 2008								99 a	99 a	99 a	99 a	99 a	99 a	99 a	95 ab	95 ab	95 ab
15	REDUCED-TILL																	
15	BICEP II MAGNUM	5.5 L		2.88 lb ai/a	2.1 qt/a		PRE	A										
15	AATREX	90 WG		0.40 lb ai/a	0.444 lb/a		PRE	A										
15	ACCENT	75 WG		0.031 lb ai/a	0.66 oz/a		2-4"W-2	D										
15	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		2-4"W-2	D										
16	CORN IN 2008								99 a	99 a	99 a	98 ab	98 a	98 a	85 b	84 b	84 b	
16	REDUCED-TILL																	
16	DUAL II MAGNUM	7.64 EC		1.27 lb ai/a	1.33 pt/a		PRE	A										
16	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B										
16	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B										
17	CORN IN 2008								99 a	99 a	99 a	99 a	99 a	99 a	99 a	93 ab	93 ab	93 ab
17	REDUCED-TILL																	
17	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B										
17	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B										
17	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		10DA2-4"	C										
17	AMS	100 SG		3.0 lb ai/a	3 lb/a		10DA2-4"	C										
18	CORN IN 2008								94 a	94 a	94 a	57 c	54 c	54 c	60 c	60 c	60 c	
18	REDUCED-TILL																	
18	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B										
18	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B										
19	CORN IN 2008								91 ab	91 ab	91 ab	95 ab	95 ab	95 ab	91 ab	91 ab	91 ab	
19	REDUCED-TILL																	
19	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a	22 fl oz/a		2-4"W-1	B										
19	AATREX	90 WG		0.75 lb ai/a	0.83 lb/a		2-4"W-1	B										
19	AMS	100 SG		3.0 lb ai/a	3 lb/a		2-4"W-1	B										
20	CORN IN 2008								73 b	73 b	73 b	83 b	83 b	83 b	89 ab	89 ab	89 ab	
20	REDUCED-TILL																	
20	BASIS GOLD	90 WG		0.79 lb ai/a	14 oz/a		2-4"W-1	B										
20	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		2-4"W-1	B										
LSD (P=.05)									19.4	19.4	19.4	15.6	14.5	14.5	13.0	13.0	13.0	
Replicate F									2.421	2.421	2.421	0.704	0.582	0.582	1.879	1.872	1.872	
Replicate Prob(F)									0.0753	0.0753	0.0753	0.5536	0.6292	0.6292	0.1434	0.1446	0.1446	
Treatment F									12.526	12.526	12.526	18.222	21.609	21.609	24.456	24.621	24.621	
Treatment Prob(F)									0.0001	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)

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn

Location: Belleville Res. Center

Pest Code							XANST	XANST	XANST	PANDI	PANDI
Crop Code											
Rating Date											
Rating Data Type							Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent
Rating Timing							14 DAT	28 DAT	56 DAT	28 DAT	56 DAT
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Form Unit	Other Rate	Other Unit	Growth Stage	Appl Code		
1	CORN IN 2008									99 ab	99 ab
1	NO-TILL										99 ab
1	NONTREATED										74 b
2	CORN IN 2008									100 a	100 a
2	NO-TILL										100 a
2	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
2	HANDWEED										
3	CORN IN 2008									99 ab	99 ab
3	NO-TILL										99 ab
3	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
3	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A		
3	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A		
4	CORN IN 2008									99 ab	99 ab
4	NO-TILL										99 ab
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
4	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A		
4	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A		
4	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-2	D		
4	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-2	D		
5	CORN IN 2008									99 ab	99 ab
5	NO-TILL										99 ab
5	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
5	BICEP II MAGNUM	5.5	L	2.88	lb ai/a	2.1	qt/a	PRE	A		
5	AATREX	90	WG	0.40	lb ai/a	0.444	lb/a	PRE	A		
5	ACCENT	75	WG	0.031	lb ai/a	0.66	oz/a	2-4"W-2	D		
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-2	D		
6	CORN IN 2008									99 ab	99 ab
6	NO-TILL										99 ab
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
6	DUAL II MAGNUM	7.64	EC	1.27	lb ai/a	1.33	pt/a	PRE	A		
6	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B		
6	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B		
7	CORN IN 2008									99 ab	99 ab
7	NO-TILL										99 ab
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B		
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B		
7	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	10DA2-4"	C		
7	AMS	100	SG	3.0	lb ai/a	3	lb/a	10DA2-4"	C		
8	CORN IN 2008									99 ab	99 ab
8	NO-TILL										99 ab
8	TOUCHDOWN TOTAL	4.17	SC	0.77	lb ae/a	23.6	fl oz/a	PRE	A		
8	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B		
8	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B		
9	CORN IN 2008									99 ab	99 ab
9	NO-TILL										99 ab
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
9	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	2-4"W-1	B		
9	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	2-4"W-1	B		
9	AMS	100	SG	3.0	lb ai/a	3	lb/a	2-4"W-1	B		
10	CORN IN 2008									99 ab	99 ab
10	NO-TILL										99 ab
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	PRE	A		
10	BASIS GOLD	90	WG	0.79	lb ai/a	14	oz/a	2-4"W-1	B		
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	2-4"W-1	B		
11	CORN IN 2008									0 g	0 g
11	REDUCED-TILL										0 g
11	NONTREATED										99 a

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn

Location: Belleville Res. Center

Pest Code		XANST					PANDI							
Crop Code		XANST					PANDI							
Rating Date		XANST					PANDI							
Rating Data Type		Control					Control							
Rating Unit		Percent					Percent							
Rating Timing		14 DAT					28 DAT							
Trt-Eval Interval		56 DAT					28 DAT							
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
12	CORN IN 2008									100 a	100 a	100 a	100 a	100 a
12	REDUCED-TILL													
12	CULTIVATE													
12	HANDWEED													
13	CORN IN 2008									89 ef	83 f	83 f	97 a	97 a
13	REDUCED-TILL													
13	BICEP II MAGNUM	5.5 L		2.88	lb ai/a	2.1	qt/a	PRE	A					
13	AATREX	90 WG		0.40	lb ai/a	0.444	lb/a	PRE	A					
14	CORN IN 2008									98 ab	98 abc	98 abc	99 a	99 a
14	REDUCED-TILL													
14	BICEP II MAGNUM	5.5 L		2.88	lb ai/a	2.1	qt/a	PRE	A					
14	AATREX	90 WG		0.40	lb ai/a	0.444	lb/a	PRE	A					
14	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-2	D					
14	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-2	D					
15	CORN IN 2008									89 ef	89 e	89 e	99 a	99 a
15	REDUCED-TILL													
15	BICEP II MAGNUM	5.5 L		2.88	lb ai/a	2.1	qt/a	PRE	A					
15	AATREX	90 WG		0.40	lb ai/a	0.444	lb/a	PRE	A					
15	ACCENT	75 WG		0.031	lb ai/a	0.66	oz/a	2-4"W-2	D					
15	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W-2	D					
16	CORN IN 2008									95 cd	95 cd	95 cd	99 a	99 a
16	REDUCED-TILL													
16	DUAL II MAGNUM	7.64 EC		1.27	lb ai/a	1.33	pt/a	PRE	A					
16	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B					
16	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B					
17	CORN IN 2008									99 ab	99 ab	99 ab	99 a	99 a
17	REDUCED-TILL													
17	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B					
17	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B					
17	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	10DA2-4"	C					
17	AMS	100 SG		3.0	lb ai/a	3	lb/a	10DA2-4"	C					
18	CORN IN 2008									96 bc	96 bc	96 bc	99 a	99 a
18	REDUCED-TILL													
18	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B					
18	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B					
19	CORN IN 2008									88 f	88 e	88 e	99 a	99 a
19	REDUCED-TILL													
19	ROUNDUP W-MAX	4.5 SL		0.77	lb ae/a	22	fl oz/a	2-4"W-1	B					
19	AATREX	90 WG		0.75	lb ai/a	0.83	lb/a	2-4"W-1	B					
19	AMS	100 SG		3.0	lb ai/a	3	lb/a	2-4"W-1	B					
20	CORN IN 2008									91 de	91 de	91 de	99 a	99 a
20	REDUCED-TILL													
20	BASIS GOLD	90 WG		0.79	lb ai/a	14	oz/a	2-4"W-1	B					
20	PRIME OIL COC	100 LIQ		1.0	% v/v	1	% v/v	2-4"W-1	B					
LSD (P=.05)										3.4	3.9	3.9	15.9	15.9
Replicate F										0.314	0.200	0.200	0.888	0.888
Replicate Prob(F)										0.8151	0.8958	0.8958	0.4529	0.4529
Treatment F										340.321	257.797	257.797	1.105	1.105
Treatment Prob(F)										0.0001	0.0001	0.0001	0.3708	0.3708

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

Trial Comments

1. Protocol: SIU (RFK). Study conducted since 1998 on same area.
2. Ratings: WC 10 DA PRE in no-till plots, CI/WC 14, 28 + 56 DA POST, Height EOS.
3. Tillages are no-till and reduced-till, see treatment list.

Long-Term Tillage by Herbicide Study in a Transgenic Corn and Soybean Rotation.

Trial ID: 08-9B-Corn

Location: Belleville Res. Center

4. Yield.

5. DA-A = Days after the PRE application or burndown for no-till plots.

DAT = Days after either the PRE, 2-4"W-1, or 2-4"W-2 application.

Ratings at 10 DA-A were on 6-27-08.

Ratings at 14 days after the PRE, 2-4"W-1, and 2-4"W-2 applications were on 7-1-08, 7-22-08, and 7-25-08, respectively.

Ratings at 28 days after the PRE, 2-4"W-1, and 2-4"W-2 applications were on 7-15-08, 8-5-08, and 8-8-08, respectively.

Ratings at 56 days after the PRE, 2-4"W-1, and 2-4"W-2 applications were on 8-12-08, 9-2-08, and 9-5-08, respectively.

On 6-17-08 at the burndown application HORPU was 100% dead naturally because of late planting.

In the nontreated plots, non-zero weed control is a result of competition among weeds.

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 17, rainfall was 0.29 inch 3 days later and 0.35 inch 10 days later.

7. Harvested 11-28-08, (2) 30 inch rows by 24 ft.