

## Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70      Location: Belleville Research Center  
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country:      Belleville      IL 62221 USA  
 Trial Status: Final      Updated:      10-6-04

## Objective:

To compare efficacy of various weed control programs in glyphosate-resistant corn.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. XANST	cocklebur, common	Xanthium strumarium L.
3. ABUTH	velvetleaf	Abutilon theophrasti Medicus
4. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
5. IPOSS	morningglory, species	Ipomoea sp.

Crop 1:      ZEAMX    corn, field      Variety:      DKC 60-17 RR  
 Planting Method: Seeded      Planting Date: 5-11-04  
 Rate:      28000    S/A      Depth:      1.5    IN  
 Row Spacing:      30    IN

Plot Width, Unit: 10    FT      Plot Length, Unit: 30    FT      Reps: 3  
 Tillage Type:      Reduced-Till      Study Design: Randomized complete block  
 Previous Crop, Year: GLXMA, 2003

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

Soil Name: Ebbert      % OM: 2.7      pH: 6.2      CEC: 14  
 Texture:    Silt loam      Fert. Level:    P1: 115 LB/A, K: 500 LB/A

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-13-04	6-2-04	6-1-04	6-10-04	6-16-04	6-7-04
Time of Day:	8:00	8:00	11:00	12:00	11:00	9:00
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W-1	4"CN	2-4"W-2	14DA2-4"W-1	12"CN
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	69 F	66 F	74 F	84 F	82 F	70 F
% Relative Humidity:	98	60	64	72	88	98
Wind Velocity, Unit:	5 MPH	5 MPH	5 MPH	8 MPH	5 MPH	7 MPH
Soil Moisture:	NORMAL	ABONOR	ABONOR	ABONOR	ABONOR	NORMAL

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V4	ZEAMX V4	ZEAMX V5	ZEAMX V7	ZEAMX V5
Height, Unit:	NA NA	8-10 IN	8-10 IN	12-14 IN	26-27 IN	10-12 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage (leaves):		1-4	1-4		2-3	
Height (inches):		1-4	1-4		1-3	
Density:		Low	Low		Low	
Weed 2 Code:	XANST	XANST	XANST	XANST	XANST	XANST
Stage (leaves):		4-6	4-6	4-6		4-6
Height (inches):		2-4	2-4	2-4		2-4
Density:		Low	Low	Low		Low
Weed 3 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):					4-5	
Height (inches):					2-4	
Density:					Low	
Weed 4 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage (leaves):		4-6	4-6	2-4		
Height (inches):		1-2	1-2	2-3		
Density:		Low	Low	Low		

## Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70      Location: Belleville Research Center  
 Investigator: Bryan Young

Weed 5 Code:	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Stage (leaves):		4-5			2-3	
Height (inches):		1-2			1-2	
Density:		Low			Low	

## APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8002	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

## NOTES:

Harvested 9-28-04, (2) 30 inch rows x 27 ft.

Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code													SETFA	SETFA	SETFA	XANST	XANST	XANST
Crop Code																		
Rating Data Type													Control	Control	Control	Control	Control	Control
Rating Unit													Percent	Percent	Percent	Percent	Percent	Percent
Rating Date																		
Trt-Eval Interval																		

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Yield bu/A 9-28-04	ZEAMX Injury Percent 7 DAE	ZEAMX Injury Percent 14 DAE	ZEAMX Injury Percent 7 DA-B 14 DA-B	ZEAMX Injury Percent 28 DAT	ZEAMX Injury Percent 42 DAT	SETFA Control Percent 14 DAE	SETFA Control Percent 28 DAT	SETFA Control Percent 42 DAT	XANST Control Percent 14 DAE	XANST Control Percent 28 DAT	XANST Control Percent 42 DAT
1	NONTREATED									123	0	0	0	0	0	0	0	0	0	0	0
2	LEXAR	3.7	L	2.76	LB A/A	3	QT/A	PRE	A	162	0	0	0	0	0	99	99	99	92	91	92
3	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	A	184	0	0	0	2	0	99	99	99	92	98	98
3	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	2-4"W-2	D												
3	AATREX	90	WG	0.5	LB A/A	0.56	LB/A	2-4"W-2	D												
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	2-4"W-2	D												
3	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D												
4	GUARDSMAN MAX	5	L	2.19	LB A/A	1.75	QT/A	PRE	A	163	0	0	0	0	0	99	99	99	93	99	99
4	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	2-4"W-2	D												
4	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	2-4"W-2	D												
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D												
5	KEYSTONE	5.25	L	3.4	LB A/A	2.6	QT/A	PRE	A	185	0	0	0	5	0	99	99	99	94	99	98
5	HORNET	68.5	WG	0.128	LB A/A	3.0	OZ/A	2-4"W-2	D												
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-2	D												
5	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D												
6	CINCH ATZ	5.5	L	1.03	LB A/A	0.75	QT/A	PRE	A	176	0	0	0	8	0	99	99	99	84	99	99
6	STEADFAST ATZ	89.3	WG	0.78	LB A/A	14	OZ/A	2-4"W-2	D												
6	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	2-4"W-2	D												
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	2-4"W-2	D												
6	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D												
7	BALANCE PRO	4	SC	0.07	LB A/A	2.25	OZ/A	PRE	A	187	0	0	0	3	0	96	99	99	89	99	99
7	AATREX	90	WG	1	LB A/A	1.11	LB/A	PRE	A												
7	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	2-4"W-2	D												
7	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	2-4"W-2	D												
7	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D												
8	HARNESS XTRA	5.6	L	1.4	LB A/A	1.0	QT/A	PRE	A	164	0	0	0	0	0	99	99	99	93	99	99
8	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"W-2	D												
8	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"W-2	D												
9	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"W-1	B	204	0	0	0	0	0		99	99		99	99
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"W-1	B												
9	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	FL OZ/A	14DA2-4"W-1	E												
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	14DA2-4"W-1	E												
10	BICEP II MAGNUM	5.5	L	1.65	LB A/A	1.2	QT/A	PRE	A	183	0	0	0	0	0	99	99	99	97	99	99
10	LUMAX	3.94	L	1.77	LB A/A	1.8	QT/A	4"CN	C												
11	LUMAX	3.94	L	1.48	LB A/A	1.5	QT/A	PRE	A	179	0	0	0	0	0	99	99	99	97	99	99
11	LUMAX	3.94	L	0.985	LB A/A	1.0	QT/A	4"CN	C												
12	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	197	0	0	0	0	0	99	99	99	98	98	98
12	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A												

Southern Illinois University

Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code																SETFA	SETFA	SETFA	XANST	XANST	XANST	
Crop Code																						
Rating Data Type																						
Rating Unit																						
Rating Date																						
Trt-Eval Interval																						
									ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX						
									Yield	Injury	Injury	Injury	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control
									bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
									9-28-04													
										7 DAE	14 DAE	7 DA-B	14 DA-B	28 DAT	42 DAT							
																14 DAE	28 DAT	42 DAT	14 DAE	28 DAT	42 DAT	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
13	LEXAR	3.7	L	2.76	LB A/A	3	QT/A	PRE	A	194	0	0	0	2	0	0	99	99	99	97	99	99
13	NORTHSTAR	47.4	WG	0.148	LB A/A	5	OZ/A	2-4"W-2	D													
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-2	D													
13	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	2-4"W-2	D													
14	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	195	0	0	0	0	0	0	99	99	99	94	99	99
14	NORTHSTAR	47.4	WG	0.148	LB A/A	5	OZ/A	2-4"W-2	D													
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-2	D													
14	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	2-4"W-2	D													
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	A	205	0	0	0	0	0	0	99	99	99	92	99	99
15	TOUCHDOWN TOTAL	4.17	SC	0.75	LB AE/A	23	FL OZ/A	2-4"W-2	D													
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"W-2	D													
16	KEYSTONE	5.25	L	1.97	LB A/A	1.5	QT/A	PRE	A	200	0	0	0	0	0	0	99	99	99	88	99	99
16	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	2-4"W-2	D													
16	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"W-2	D													
17	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A	198	0	0	0	1	0	0	96	99	99	95	99	99
17	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A													
17	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	12"CN	F													
17	DISTINCT	70	WG	0.131	LB A/A	3	OZ/A	12"CN	F													
17	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	12"CN	F													
18	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A	181	0	0	0	0	0	0	96	99	99	95	99	99
18	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A													
18	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	12"CN	F													
18	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	12"CN	F													
18	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	12"CN	F													
19	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	4"CN	C	177	0	0	0	0	0	0		99	99		98	99
19	DISTINCT	70	WG	0.131	LB A/A	3	OZ/A	4"CN	C													
19	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	4"CN	C													
20	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	4"CN	C	191	0	0	0	0	0	0		98	98		95	98
20	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	4"CN	C													
20	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	4"CN	C													
21	GUARDSMAN MAX	5	L	1.25	LB A/A	2	PT/A	PRE	A	204	0	0	0	2	0	0	98	99	99	95	99	99
21	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	12"CN	F													
21	DISTINCT	70	WG	0.131	LB A/A	3	OZ/A	12"CN	F													
LSD (P=05)										39.1	0.0	0.0	0.0	3.0	0.0	0.0	1.7	0.3	0.3	6.7	2.5	1.3
Replicate F										11.563	0.000	0.000	0.000	1.728	0.000	0.000	1.852	1.500	1.500	0.383	0.784	0.399
Replicate Prob(F)										0.0001	1.0000	1.0000	1.0000	0.1907	1.0000	1.0000	0.1728	0.2357	0.2357	0.6849	0.4637	0.6737
Treatment F										1.976	0.000	0.000	0.000	4.230	0.000	0.000	1482.996	44062.352	44062.352	92.770	610.933	2183.205
Treatment Prob(F)										0.0330	1.0000	1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70 Location: Belleville Research Center  
 Investigator: Bryan Young

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ABUTH Control Percent	ABUTH Control Percent	ABUTH Control Percent	AMBEL Control Percent	AMBEL Control Percent	AMBEL Control Percent	IPOSS Control Percent	IPOSS Control Percent	IPOSS Control Percent
										14 DAE	28 DAT	42 DAT	14 DAE	28 DAT	42 DAT	14 DAE	28 DAT	42 DAT
1	NONTREATED									0	0	0	0	0	0	0	0	0
2	LEXAR	3.7	L	2.76	LB A/A	3	QT/A	PRE	A	99	99	99	99	99	99	98	96	96
3	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	A	99	99	99	99	99	99	99	98	98
3	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	2-4"W-2	D									
3	AATREX	90	WG	0.5	LB A/A	0.56	LB/A	2-4"W-2	D									
3	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	2-4"W-2	D									
3	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D									
4	GUARDSMAN MAX	5	L	2.19	LB A/A	1.75	QT/A	PRE	A	99	99	99	99	99	99	99	99	99
4	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	2-4"W-2	D									
4	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	2-4"W-2	D									
4	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D									
5	KEYSTONE	5.25	L	3.4	LB A/A	2.6	QT/A	PRE	A	99	99	99	99	99	99	99	98	98
5	HORNET	68.5	WG	0.128	LB A/A	3.0	OZ/A	2-4"W-2	D									
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-2	D									
5	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D									
6	CINCH ATZ	5.5	L	1.03	LB A/A	0.75	QT/A	PRE	A	99	99	99	99	99	99	98	98	98
6	STEADFAST ATZ	89.3	WG	0.78	LB A/A	14	OZ/A	2-4"W-2	D									
6	CALLISTO	4	SC	0.094	LB A/A	3	OZ/A	2-4"W-2	D									
6	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	2-4"W-2	D									
6	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D									
7	BALANCE PRO	4	SC	0.07	LB A/A	2.25	OZ/A	PRE	A	99	99	99	99	99	99	99	98	98
7	AATREX	90	WG	1	LB A/A	1.11	LB/A	PRE	A									
7	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	2-4"W-2	D									
7	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	2-4"W-2	D									
7	28% UAN	100	LIQ	2.5	% V/V	2.5	% V/V	2-4"W-2	D									
8	HARNESS XTRA	5.6	L	1.4	LB A/A	1.0	QT/A	PRE	A	99	99	99	99	99	99	99	98	98
8	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"W-2	D									
8	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"W-2	D									
9	ROUNDUP W-MAX	4.5	SL	0.75	LB AE/A	21.3	FL OZ/A	2-4"W-1	B									
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"W-1	B									
9	ROUNDUP W-MAX	4.5	SL	0.56	LB AE/A	16	FL OZ/A	14DA2-4"W-1	E									
9	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	14DA2-4"W-1	E									
10	BICEP II MAGNUM	5.5	L	1.65	LB A/A	1.2	QT/A	PRE	A	99	99	99	99	99	99	99	99	99
10	LUMAX	3.94	L	1.77	LB A/A	1.8	QT/A	4"CN	C									
11	LUMAX	3.94	L	1.48	LB A/A	1.5	QT/A	PRE	A	99	99	99	99	99	99	99	99	99
11	LUMAX	3.94	L	0.985	LB A/A	1.0	QT/A	4"CN	C									
12	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	99	99	99	99	99	99	99	96	96
12	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A									

Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70 Location: Belleville Research Center  
 Investigator: Bryan Young

								ABUTH	ABUTH	ABUTH	AMBEL	AMBEL	AMBEL	IPOSS	IPOSS	IPOSS	
								Control	Control	Control	Control	Control	Control	Control	Control	Control	
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
								14 DAE	28 DAT	42 DAT	14 DAE	28 DAT	42 DAT	14 DAE	28 DAT	42 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
13	LEXAR	3.7	L	2.76	LB A/A	3	QT/A	PRE	A	99	99	99	99	99	99	99	99
13	NORTHSTAR	47.4	WG	0.148	LB A/A	5	OZ/A	2-4"W-2	D								
13	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-2	D								
13	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	2-4"W-2	D								
14	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	99	99	99	99	99	99	99	99
14	NORTHSTAR	47.4	WG	0.148	LB A/A	5	OZ/A	2-4"W-2	D								
14	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	2-4"W-2	D								
14	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	2-4"W-2	D								
15	BICEP II MAGNUM	5.5	L	2.89	LB A/A	2.1	QT/A	PRE	A	98	99	99	99	99	98	98	98
15	TOUCHDOWN TOTAL	4.17	SC	0.75	LB AE/A	23	FL OZ/A	2-4"W-2	D								
15	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	2-4"W-2	D								
16	KEYSTONE	5.25	L	1.97	LB A/A	1.5	QT/A	PRE	A	97	99	99	99	99	97	98	98
16	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	2-4"W-2	D								
16	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"W-2	D								
17	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A	99	99	99	99	99	99	98	98
17	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A								
17	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	12"CN	F								
17	DISTINCT	70	WG	0.131	LB A/A	3	OZ/A	12"CN	F								
17	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	12"CN	F								
18	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A	99	99	99	99	99	99	98	98
18	PRINCEP	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A								
18	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	12"CN	F								
18	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	12"CN	F								
18	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	12"CN	F								
19	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	4"CN	C		99	99	99	99		98	98
19	DISTINCT	70	WG	0.131	LB A/A	3	OZ/A	4"CN	C								
19	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	4"CN	C								
20	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	4"CN	C		99	99	99	99		98	98
20	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	4"CN	C								
20	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	4"CN	C								
21	GUARDSMAN MAX	5	L	1.25	LB A/A	2	PT/A	PRE	A	99	99	99	99	99	99	96	96
21	TOUCHDOWN TOTAL	4.17	SC	0.56	LB AE/A	17.2	FL OZ/A	12"CN	F								
21	DISTINCT	70	WG	0.131	LB A/A	3	OZ/A	12"CN	F								
LSD (P=05)								1.0	0.3	0.3	0.0	0.2	0.2	1.7	2.2	2.2	
Replicate F								0.600	0.476	0.476	0.000	0.975	0.975	1.191	1.837	1.837	
Replicate Prob(F)								0.5547	0.6251	0.6251	1.0000	0.3862	0.3862	0.3167	0.1728	0.1728	
Treatment F								4396.129	41925.715	41925.715	0.000	85975.789	85975.789	1654.162	758.882	758.882	
Treatment Prob(F)								0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	

Weed Control in Glyphosate-Resistant Corn.

Project Code: 04-21S-W70      Location: Belleville Research Center  
Investigator: Bryan Young

Trial Comments

1. Protocol: Syngenta, Dow and BASF.
2. Ratings: CI 7 and 14 DAE, WC at POST, CI 7 and 14 DA POST, CI and WC 28 and 42 DA POST.
3. Yield.
4. Application timings: 2-4"W-1 and 2-4"W-2 are 2 to 4 inch weed height without and with a PRE application, respectively; 14DA2-4"W-1 = 14 days after 2-4"W-1 application.
5. DAE = Days after emergence. DA-B = Days after 2-4"W-1 application. DAT = Days after various postemergence applications.  
Rating at 7 and 14 DAE were on 5-25-04 and 6-1-04, respectively.  
Ratings at 7 and 14 DAE were prior to any postemergence applications.  
Ratings at 7 DA-B were also 7 DA-C (7 days after the 4"CN application).  
Ratings at 14 DA-B were also 14 DA-C (14 days after the 4"CN application).  
Ratings at 28 DAT were on 6-29-04, 6-30-04, 7-5-04, and 7-8-04 for the 4"CN, 2-4"W-1, 12"CN, and 2-4"W-2 applications, respectively.  
For treatment #9, 28 DAT ratings were also 14 days after the second postemergence application (14DA2-4"W-1).  
Ratings at 42 DAT were on 7-13-04, 7-14-04, 7-19-04, and 7-22-04 for the 4"CN, 2-4"W-1, 12"CN, and 2-4"W-2 applications, respectively.  
For treatment #9, 42 DAT ratings were also 28 days after the second postemergence application (14DA2-4"W-1).  
Treatment #9 was also rated on 7-28-04 with no change from 7-14-04 ratings.
6. Harvested 9-28-04, (2) 30 inch rows x 27 ft.