

## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C 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: 11-14-05

**Objective:**

Compare weed management 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.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
4.	CHEAL lambsquarters, common	Chenopodium album L.
5.	AMATA waterhemp, common	Amaranthus rudis Sauer
6.	AMBTR ragweed, giant	Ambrosia trifida L.
7.	ABUTH velvetleaf	Abutilon theophrasti Medicus
8.	IPOSS morningglory, species	Ipomoea sp.

Crop 1: ZEAMX corn, field Variety: DKC 60-17 RR  
 Planting Method: Seeded Planting Date: 5-6-05  
 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, 2004

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

Soil Name: Stoy % OM: 1.6 pH: 6.1 CEC: 8  
 Texture: Silt loam Fert. Level: P1: 82 LB/A, K: 408 LB/A

**APPLICATION DESCRIPTION**

	A	B	C	D
Application Date:	05-06-05	05-20-05	05-31-05	05-20-05
Time of Day:	18:00	9:15	10:30	9:15
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	2"W	3-4"W	4"CN
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	76 F	66 F	72 F	66 F
% Relative Humidity:	30	96	50	96
Wind Velocity, Unit:	2 MPH	10 MPH	3-5 MPH	10 MPH
Soil Moisture:	NORMAL	ABONOR	BELNOR	ABONOR

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V2	ZEAMX V5	ZEAMX V2
Height, Unit:	NA NA	3-4 IN	8-10 IN	3-4 IN

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA
Stage (leaves):	3-4	4-5	4-5	3-4
Height (inches):	2-3	3-5	3-5	2-3
Density:	High	High	Medium	High
Weed 2 Code:	XANST	XANST	XANST	XANST
Stage (leaves):	4-5	2-6	4-5	4-5
Height (inches):	1-3	4-6	1-3	1-3
Density:	High	High	Medium	Medium
Weed 3 Code:	AMBEL	AMBEL	AMBEL	AMBEL
Stage (leaves):	2-4	4-6	2-4	2-4
Height (inches):	0.5-1	2-3	0.5-1	0.5-1
Density:	Low	Low	Low	Low
Weed 4 Code:	CHEAL	CHEAL	CHEAL	CHEAL
Stage (leaves):	10-12	12-14	10-12	10-12
Height (inches):	2-4	4-6	2-4	2-4
Density:	Low	Low	Low	Low
Weed 6 Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage (leaves):	2-4	8-10	2-4	2-4
Height (inches):	1-2	4-8	1-2	1-2
Density:	Medium	Low	Low	Low
Weed 7 Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):	3-4	4-6	3-4	3-4
Height (inches):	1-2	1-3	1-2	1-2
Density:	Low	Low	Low	Low
Weed 8 Code:	IPOSS	IPOSS	IPOSS	IPOSS
Stage (leaves):		6-8	2-4	
Height (inches):		1-3	1-2	
Density:		Low	Low	

Weed Management in Glyphosate-Resistant Corn.

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

**NOTES:**

## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
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Weed Code	Crop Code	Rating Data Type	Rating Unit	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	ZEAMX	ZEAMX	ZEAMX	SETFA	SETFA	SETFA	SETFA
																Yield bu/A	Injury Percent	Injury Percent	Injury Percent	Control Percent	Control Percent	Control Percent	Control Percent
																10-12-05	05-20-05	06-03-05	06-14-05	06-03-05	06-14-05	06-20-05	10-12-05
																	14 DA-A	14 DA-B	14 DA-C	14 DA-B	14 DA-C	45 DAP	EOS
						1	NONTREATED									0	0	0	0	0	0	0	0
						2	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	56	0	0	0	93	82	60	45
						3	RADIUS	4	SC	0.625	lb ai/a	20	fl oz/a	PRE	A	26	0	0	0	97	92	88	88
						4	HARNESS XTRA	6	L	1.8	lb ai/a	1.2	qt/a	PRE	A	114	0	0	0	98	99	99	99
						4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	C								
						4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C								
						5	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	PRE	A	113	0	0	0	97	99	99	83
						5	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	C								
						5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C								
						6	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	2"W	B	144		0	0	98	95	89	89
						6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	2"W	B								
						6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2"W	B								
						7	LEXAR	3.7	L	1.85	lb ai/a	2	qt/a	2"W	B	152		0	0	98	90	85	83
						7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2"W	B								
						7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2"W	B								
						8	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	136	0	0	0	94	75	61	27
						8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A								
						9	LUMAX	3.94	L	1.97	lb ai/a	2	qt/a	2"W	B	115		1	0	98	94	90	90
						9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2"W	B								
						9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2"W	B								
						10	LUMAX	3.94	L	1.97	lb ai/a	2	qt/a	PRE	A	147	0	2	0	94	99	99	99
						10	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-4"W	C								
						10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C								
						11	LEXAR	3.7	L	1.39	lb ai/a	1.5	qt/a	PRE	A	145	0	1	0	98	96	94	94
						11	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
						11	LEXAR	3.7	L	1.39	lb ai/a	1.5	qt/a	4"CN	D								
						11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D								
						12	KEYSTONE	5.25	L	1.97	lb ai/a	1.5	qt/a	PRE	A	156	0	0	0	97	99	98	98
						12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	C								
						12	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C								
						13	KEYSTONE	5.25	L	3.54	lb ai/a	2.7	qt/a	PRE	A	140	0	0	0	98	99	99	99
						13	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	C								
						13	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C								
						14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	159	0	0	0	67	99	98	98
						14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
						14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	C								
						14	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C								
						15	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	136	0	0	0	98	91	83	81
						15	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
						15	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D								
						15	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	4"CN	D								
						15	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D								
						15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D								
						15	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D								
						16	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	147	0	0	0	98	97	93	94
						16	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
						16	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D								
						16	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	4"CN	D								
						16	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D								
						16	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D								
						16	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D								
						17	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D	111		0	0	96	90	83	78
						17	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	4"CN	D								
						17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D								
						17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D								
						17	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D								

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Weed Code										SETFA	SETFA	SETFA	SETFA				
Crop Code										Control	Control	Control	Control				
Rating Data Type										Percent	Percent	Percent	Percent				
Rating Unit										Percent	Percent	Percent	Percent				
Rating Date										10-12-05	05-20-05	06-03-05	06-14-05				
Trt-Eval Interval										14 DA-A	14 DA-B	14 DA-C	14 DA-C				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	SETFA Control Percent	SETFA Control Percent	SETFA Control Percent	SETFA Control Percent
18	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D	135		0	0	98	95	82	85
18	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	4"CN	D								
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D								
18	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D								
18	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D								
19	GUARDSMAN MAX	5	L	1.25	lb ai/a	2	pt/a	PRE	A	118	0	5	0	93	98	98	98
19	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	3-4"W	C								
19	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	3-4"W	C								
19	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4"W	C								
19	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C								
20	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	137	0	0	0	93	99	99	99
20	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	C								
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C								
21	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	133	0	4	0	91	99	99	99
21	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	C								
21	CLARITY	4	EC	0.125	lb ai/a	4	fl oz/a	3-4"W	C								
21	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C								
LSD (P=.05)										44.0	0.0	0.7	0.0	3.3	8.1	12.1	24.2
Replicate F										2.139	0.000	1.356	0.000	2.411	1.706	0.990	2.616
Replicate Prob(F)										0.1310	1.0000	0.2693	1.0000	0.1026	0.1946	0.3807	0.0856
Treatment F										7.517	0.000	29.653	0.000	358.838	56.938	28.633	9.645
Treatment Prob(F)										0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	XANST	XANST	XANST	XANST	AMBEL	AMBEL	AMBEL	AMBEL
						Control Percent 06-03-05 14 DA-B	Control Percent 06-14-05 14 DA-C	Control Percent 06-20-05 45 DAP	Control Percent 10-12-05 EOS	Control Percent 06-03-05 14 DA-B	Control Percent 06-14-05 14 DA-C	Control Percent 06-20-05 45 DAP	Control Percent 10-12-05 EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED								0	0	0	0	0
2	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	84	70	64	32	99
3	RADIUS	4 SC		0.625 lb ai/a	20 fl oz/a		PRE	A	37	20	30	0	95
4	HARNESS XTRA	6 L		1.8 lb ai/a	1.2 qt/a		PRE	A	87	98	97	97	99
4	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C					
4	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		3-4"W	C					
5	DEGREE XTRA	4 L		2.02 lb ai/a	2.02 qt/a		PRE	A	89	98	98	98	99
5	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C					
5	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		3-4"W	C					
6	DEGREE XTRA	4 L		2.02 lb ai/a	2.02 qt/a		2"W	B	98	93	96	94	99
6	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		2"W	B					
6	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		2"W	B					
7	LEXAR	3.7 L		1.85 lb ai/a	2 qt/a		2"W	B	98	87	92	91	99
7	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		2"W	B					
7	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		2"W	B					
8	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	94	82	94	92	99
8	AATREX	90 WG		0.5 lb ai/a	8.9 oz/a		PRE	A					
9	LUMAX	3.94 L		1.97 lb ai/a	2 qt/a		2"W	B	96	89	92	93	99
9	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		2"W	B					
9	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		2"W	B					
10	LUMAX	3.94 L		1.97 lb ai/a	2 qt/a		PRE	A	91	97	98	97	99
10	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		3-4"W	C					
10	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		3-4"W	C					
11	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a		PRE	A	98	96	97	97	99
11	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A					
11	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a		4"CN	D					
11	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D					
12	KEYSTONE	5.25 L		1.97 lb ai/a	1.5 qt/a		PRE	A	92	98	98	98	99
12	GLYPHOMAX XRT	4 SL		0.75 lb ae/a	24 fl oz/a		3-4"W	C					
12	AMS	100 DRY		2.5 lb/a	2.5 lb/a		3-4"W	C					
13	KEYSTONE	5.25 L		3.54 lb ai/a	2.7 qt/a		PRE	A	94	97	96	96	99
13	GLYPHOMAX XRT	4 SL		0.75 lb ae/a	24 fl oz/a		3-4"W	C					
13	AMS	100 DRY		2.5 lb/a	2.5 lb/a		3-4"W	C					
14	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	78	98	97	97	99
14	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A					
14	GLYPHOMAX XRT	4 SL		0.75 lb ae/a	24 fl oz/a		3-4"W	C					
14	AMS	100 DRY		2.5 lb/a	2.5 lb/a		3-4"W	C					
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	98	95	95	96	99
15	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A					
15	CORNERSTONE	3 SL		0.56 lb ae/a	24 fl oz/a		4"CN	D					
15	DISTINCT	70 WG		0.131 lb ai/a	3 oz/a		4"CN	D					
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		4"CN	D					
15	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D					
15	AMS	100 DRY		2.5 lb/a	2.5 lb/a		4"CN	D					
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	97	93	93	93	99
16	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A					
16	CORNERSTONE	3 SL		0.56 lb ae/a	24 fl oz/a		4"CN	D					
16	PROWL H2O	3.8 CS		1.19 lb ai/a	2.5 pt/a		4"CN	D					
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		4"CN	D					
16	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D					
16	AMS	100 DRY		2.5 lb/a	2.5 lb/a		4"CN	D					
17	CORNERSTONE	3 SL		0.56 lb ae/a	24 fl oz/a		4"CN	D	97	94	94	94	99
17	DISTINCT	70 WG		0.131 lb ai/a	3 oz/a		4"CN	D					
17	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		4"CN	D					
17	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D					
17	AMS	100 DRY		2.5 lb/a	2.5 lb/a		4"CN	D					

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								XANST	XANST	XANST	XANST	AMBEL	AMBEL	AMBEL	AMBEL	
								Control	Control	Control	Control	Control	Control	Control	Control	
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
								06-03-05	06-14-05	06-20-05	10-12-05	06-03-05	06-14-05	06-20-05	10-12-05	
								14 DA-B	14 DA-C	45 DAP	EOS	14 DA-B	14 DA-C	45 DAP	EOS	
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
18	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	4"CN	D	95	83	87	87	99	95	98	98
18	PROWL H2O	3.8	CS	1.19 lb ai/a	2.5	pt/a	4"CN	D								
18	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	4"CN	D								
18	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D								
18	AMS	100	DRY	2.5 lb/a	2.5	lb/a	4"CN	D								
19	GUARDSMAN MAX	5	L	1.25 lb ai/a	2	pt/a	PRE	A	83	98	98	98	99	99	99	99
19	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	3-4"W	C								
19	DISTINCT	70	WG	0.131 lb ai/a	3	oz/a	3-4"W	C								
19	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	3-4"W	C								
19	AMS	100	DRY	2.5 lb/a	2.5	lb/a	3-4"W	C								
20	STALWART XTRA	5.5	L	2.9 lb ai/a	2.1	qt/a	PRE	A	86	98	97	97	99	99	99	99
20	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	3-4"W	C								
20	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"W	C								
21	STALWART XTRA	5.5	L	2.9 lb ai/a	2.1	qt/a	PRE	A	87	99	99	99	99	99	99	99
21	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	3-4"W	C								
21	CLARITY	4	EC	0.125 lb ai/a	4	fl oz/a	3-4"W	C								
21	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"W	C								
LSD (P=.05)									5.1	13.1	11.1	20.4	2.0	16.8	1.3	1.3
Replicate F									2.850	0.178	2.371	1.885	0.225	0.762	2.500	2.500
Replicate Prob(F)									0.0696	0.8374	0.1064	0.1651	0.7997	0.4734	0.0948	0.0948
Treatment F									176.826	32.689	41.996	18.889	938.475	14.432	2411.739	2411.739
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	CHEAL	CHEAL	CHEAL	CHEAL	AMATA	AMATA	AMATA	AMATA									
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control									
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent									
Rating Unit	06-03-05	06-14-05	06-20-05	10-12-05	06-03-05	06-14-05	06-20-05	10-12-05									
Rating Date	14 DA-B	14 DA-C	45 DAP	EOS	14 DA-B	14 DA-C	45 DAP	EOS									
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code									
1	NONTREATED								0	0	0	0	0	0	0	0	0
2	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	96	99	96	96	99	99	99	99	99
3	RADIUS	4 SC		0.625 lb ai/a	20 fl oz/a		PRE	A	53	53	71	71	98	99	99	99	99
4	HARNESS XTRA	6 L		1.8 lb ai/a	1.2 qt/a		PRE	A	96	99	99	99	99	99	99	99	99
4	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C									
4	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		3-4"W	C									
5	DEGREE XTRA	4 L		2.02 lb ai/a	2.02 qt/a		PRE	A	93	99	99	99	99	99	99	99	99
5	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		3-4"W	C									
5	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		3-4"W	C									
6	DEGREE XTRA	4 L		2.02 lb ai/a	2.02 qt/a		2"W	B	99	99	99	99	99	99	99	99	99
6	ROUNDUP ORIG MAX	4.5 SL		0.75 lb ae/a	21.3 fl oz/a		2"W	B									
6	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		2"W	B									
7	LEXAR	3.7 L		1.85 lb ai/a	2 qt/a		2"W	B	99	99	99	99	99	99	99	99	99
7	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		2"W	B									
7	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		2"W	B									
8	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE	A	99	99	99	99	99	99	99	99	99
8	AATREX	90 WG		0.5 lb ai/a	8.9 oz/a		PRE	A									
9	LUMAX	3.94 L		1.97 lb ai/a	2 qt/a		2"W	B	99	99	99	99	99	99	99	99	99
9	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		2"W	B									
9	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		2"W	B									
10	LUMAX	3.94 L		1.97 lb ai/a	2 qt/a		PRE	A	95	99	99	99	99	99	99	99	99
10	TOUCHDOWN TOTAL	4.17 SC		0.78 lb ae/a	24 fl oz/a		3-4"W	C									
10	AMS	100 DRY		2.0 % w/w	17 lb/100 gal		3-4"W	C									
11	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a		PRE	A	99	99	99	99	99	99	99	99	99
11	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A									
11	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a		4"CN	D									
11	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D									
12	KEYSTONE	5.25 L		1.97 lb ai/a	1.5 qt/a		PRE	A	96	99	99	99	99	99	99	99	99
12	GLYPHOMAX XRT	4 SL		0.75 lb ae/a	24 fl oz/a		3-4"W	C									
12	AMS	100 DRY		2.5 lb/a	2.5 lb/a		3-4"W	C									
13	KEYSTONE	5.25 L		3.54 lb ai/a	2.7 qt/a		PRE	A	99	99	99	99	99	99	99	99	99
13	GLYPHOMAX XRT	4 SL		0.75 lb ae/a	24 fl oz/a		3-4"W	C									
13	AMS	100 DRY		2.5 lb/a	2.5 lb/a		3-4"W	C									
14	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	99	99	99	99	99	99	99	99	99
14	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A									
14	GLYPHOMAX XRT	4 SL		0.75 lb ae/a	24 fl oz/a		3-4"W	C									
14	AMS	100 DRY		2.5 lb/a	2.5 lb/a		3-4"W	C									
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	99	99	99	99	99	99	99	99	99
15	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A									
15	CORNERSTONE	3 SL		0.56 lb ae/a	24 fl oz/a		4"CN	D									
15	DISTINCT	70 WG		0.131 lb ai/a	3 oz/a		4"CN	D									
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		4"CN	D									
15	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D									
15	AMS	100 DRY		2.5 lb/a	2.5 lb/a		4"CN	D									
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A	99	99	99	99	99	98	98	98	98
16	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE	A									
16	CORNERSTONE	3 SL		0.56 lb ae/a	24 fl oz/a		4"CN	D									
16	PROWL H2O	3.8 CS		1.19 lb ai/a	2.5 pt/a		4"CN	D									
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		4"CN	D									
16	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D									
16	AMS	100 DRY		2.5 lb/a	2.5 lb/a		4"CN	D									
17	CORNERSTONE	3 SL		0.56 lb ae/a	24 fl oz/a		4"CN	D	99	99	99	99	99	99	98	98	98
17	DISTINCT	70 WG		0.131 lb ai/a	3 oz/a		4"CN	D									
17	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		4"CN	D									
17	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		4"CN	D									
17	AMS	100 DRY		2.5 lb/a	2.5 lb/a		4"CN	D									

Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

						CHEAL	CHEAL	CHEAL	CHEAL	AMATA	AMATA	AMATA	AMATA			
						Control	Control	Control	Control	Control	Control	Control	Control			
						Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent			
						06-03-05	06-14-05	06-20-05	10-12-05	06-03-05	06-14-05	06-20-05	10-12-05			
						14 DA-B	14 DA-C	45 DAP	EOS	14 DA-B	14 DA-C	45 DAP	EOS			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code								
18	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	4"CN	D	99	99	99	99	99	99	99	99
18	PROWL H2O	3.8	CS	1.19 lb ai/a	2.5	pt/a	4"CN	D								
18	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	4"CN	D								
18	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D								
18	AMS	100	DRY	2.5 lb/a	2.5	lb/a	4"CN	D								
19	GUARDSMAN MAX	5	L	1.25 lb ai/a	2	pt/a	PRE	A	96	99	99	99	99	99	99	99
19	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	3-4"W	C								
19	DISTINCT	70	WG	0.131 lb ai/a	3	oz/a	3-4"W	C								
19	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	3-4"W	C								
19	AMS	100	DRY	2.5 lb/a	2.5	lb/a	3-4"W	C								
20	STALWART XTRA	5.5	L	2.9 lb ai/a	2.1	qt/a	PRE	A	99	99	99	99	99	99	99	99
20	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	3-4"W	C								
20	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"W	C								
21	STALWART XTRA	5.5	L	2.9 lb ai/a	2.1	qt/a	PRE	A	98	99	99	99	99	99	99	99
21	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	3-4"W	C								
21	CLARITY	4	EC	0.125 lb ai/a	4	fl oz/a	3-4"W	C								
21	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"W	C								
LSD (P=.05)									5.0	14.8	12.9	12.9	0.8	0.4	0.6	0.6
Replicate F									1.045	1.000	0.880	0.880	1.000	1.000	0.769	0.769
Replicate Prob(F)									0.3610	0.3769	0.4225	0.4225	0.3769	0.3769	0.4701	0.4701
Treatment F									172.967	20.382	23.927	23.927	5506.638	22038.403	9677.880	9677.880
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001



## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	ABUTH	ABUTH	ABUTH	
						Control Percent 06-14-05 14 DA-C	Control Percent 06-20-05 45 DAP	Control Percent 10-12-05 EOS	Control Percent 06-14-05 14 DA-C	Control Percent 06-20-05 45 DAP	Control Percent 10-12-05 EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code				
1	NONTREATED								0	0	0	0
2	LEXAR	3.7	L	2.78 lb ai/a	3	qt/a	PRE	A	97	98	98	99
3	RADIUS	4	SC	0.625 lb ai/a	20	fl oz/a	PRE	A	70	72	72	52
4	HARNESS XTRA	6	L	1.8 lb ai/a	1.2	qt/a	PRE	A	97	98	98	99
4	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-4"	W C				
4	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"	W C				
5	DEGREE XTRA	4	L	2.02 lb ai/a	2.02	qt/a	PRE	A	97	98	98	99
5	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	3-4"	W C				
5	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"	W C				
6	DEGREE XTRA	4	L	2.02 lb ai/a	2.02	qt/a	2"W	B	94	94	94	90
6	ROUNDUP ORIG MAX	4.5	SL	0.75 lb ae/a	21.3	fl oz/a	2"W	B				
6	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	2"W	B				
7	LEXAR	3.7	L	1.85 lb ai/a	2	qt/a	2"W	B	96	98	98	99
7	TOUCHDOWN TOTAL	4.17	SC	0.78 lb ae/a	24	fl oz/a	2"W	B				
7	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	2"W	B				
8	LEXAR	3.7	L	2.78 lb ai/a	3	qt/a	PRE	A	85	98	98	99
8	AATREX	90	WG	0.5 lb ai/a	8.9	oz/a	PRE	A				
9	LUMAX	3.94	L	1.97 lb ai/a	2	qt/a	2"W	B	85	97	97	99
9	TOUCHDOWN TOTAL	4.17	SC	0.78 lb ae/a	24	fl oz/a	2"W	B				
9	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	2"W	B				
10	LUMAX	3.94	L	1.97 lb ai/a	2	qt/a	PRE	A	98	98	98	99
10	TOUCHDOWN TOTAL	4.17	SC	0.78 lb ae/a	24	fl oz/a	3-4"	W C				
10	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"	W C				
11	LEXAR	3.7	L	1.39 lb ai/a	1.5	qt/a	PRE	A	97	98	98	99
11	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A				
11	LEXAR	3.7	L	1.39 lb ai/a	1.5	qt/a	4"CN	D				
11	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D				
12	KEYSTONE	5.25	L	1.97 lb ai/a	1.5	qt/a	PRE	A	96	97	97	98
12	GLYPHOMAX XRT	4	SL	0.75 lb ae/a	24	fl oz/a	3-4"	W C				
12	AMS	100	DRY	2.5 lb/a	2.5	lb/a	3-4"	W C				
13	KEYSTONE	5.25	L	3.54 lb ai/a	2.7	qt/a	PRE	A	97	98	98	98
13	GLYPHOMAX XRT	4	SL	0.75 lb ae/a	24	fl oz/a	3-4"	W C				
13	AMS	100	DRY	2.5 lb/a	2.5	lb/a	3-4"	W C				
14	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A	99	99	99	99
14	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A				
14	GLYPHOMAX XRT	4	SL	0.75 lb ae/a	24	fl oz/a	3-4"	W C				
14	AMS	100	DRY	2.5 lb/a	2.5	lb/a	3-4"	W C				
15	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A	98	98	98	98
15	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A				
15	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	4"CN	D				
15	DISTINCT	70	WG	0.131 lb ai/a	3	oz/a	4"CN	D				
15	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	4"CN	D				
15	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D				
15	AMS	100	DRY	2.5 lb/a	2.5	lb/a	4"CN	D				
16	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A	98	98	98	99
16	PRINCEP	90	WG	1.0 lb ai/a	1.11	lb/a	PRE	A				
16	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	4"CN	D				
16	PROWL H2O	3.8	CS	1.19 lb ai/a	2.5	pt/a	4"CN	D				
16	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	4"CN	D				
16	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D				
16	AMS	100	DRY	2.5 lb/a	2.5	lb/a	4"CN	D				
17	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	4"CN	D	96	98	98	89
17	DISTINCT	70	WG	0.131 lb ai/a	3	oz/a	4"CN	D				
17	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	4"CN	D				
17	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D				
17	AMS	100	DRY	2.5 lb/a	2.5	lb/a	4"CN	D				

Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code				AMBTR	AMBTR	AMBTR	ABUTH	ABUTH	ABUTH					
Crop Code				Control	Control	Control	Control	Control	Control					
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent					
Rating Unit				06-14-05	06-20-05	10-12-05	06-14-05	06-20-05	10-12-05					
Rating Date				14 DA-C	45 DAP	EOS	14 DA-C	45 DAP	EOS					
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code						
18	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	4"CN	D	98	98	98	99	99	99
18	PROWL H2O	3.8	CS	1.19 lb ai/a	2.5	pt/a	4"CN	D						
18	AATREX	90	WG	1.0 lb ai/a	1.11	lb/a	4"CN	D						
18	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	4"CN	D						
18	AMS	100	DRY	2.5 lb/a	2.5	lb/a	4"CN	D						
19	GUARDSMAN MAX	5	L	1.25 lb ai/a	2	pt/a	PRE	A	98	99	99	98	99	99
19	CORNERSTONE	3	SL	0.56 lb ae/a	24	fl oz/a	3-4"W	C						
19	DISTINCT	70	WG	0.131 lb ai/a	3	oz/a	3-4"W	C						
19	ACTIVATOR 90	100	LIQ	0.25 % v/v	0.25	% v/v	3-4"W	C						
19	AMS	100	DRY	2.5 lb/a	2.5	lb/a	3-4"W	C						
20	STALWART XTRA	5.5	L	2.9 lb ai/a	2.1	qt/a	PRE	A	97	98	98	98	99	99
20	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	3-4"W	C						
20	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"W	C						
21	STALWART XTRA	5.5	L	2.9 lb ai/a	2.1	qt/a	PRE	A	98	98	98	98	97	97
21	ROUNDUP ORIG MAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	3-4"W	C						
21	CLARITY	4	EC	0.125 lb ai/a	4	fl oz/a	3-4"W	C						
21	AMS	100	DRY	2.0 % w/w	17	lb/100 gal	3-4"W	C						
LSD (P=.05)									10.4	13.4	13.4	7.3	3.1	3.1
Replicate F									0.253	1.284	1.284	0.252	0.546	0.546
Replicate Prob(F)									0.7780	0.2880	0.2880	0.7785	0.5838	0.5838
Treatment F									35.356	21.759	21.759	83.329	393.344	393.344
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	IPOSS	IPOSS	IPOSS
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	06-14-05	06-20-05	10-12-05
Trt-Eval Interval	14 DA-C	45 DAP	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	IPOSS	IPOSS	IPOSS
1	NONTREATED									0	0	0
2	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	96	97	97
3	RADIUS	4	SC	0.625	lb ai/a	20	fl oz/a	PRE	A	69	73	73
4	HARNESS XTRA	6	L	1.8	lb ai/a	1.2	qt/a	PRE	A	95	96	96
4	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	C			
4	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C			
5	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	PRE	A	96	97	94
5	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3-4"W	C			
5	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C			
6	DEGREE XTRA	4	L	2.02	lb ai/a	2.02	qt/a	2"W	B	77	88	83
6	ROUNDUP ORIG MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	2"W	B			
6	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2"W	B			
7	LEXAR	3.7	L	1.85	lb ai/a	2	qt/a	2"W	B	80	90	85
7	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2"W	B			
7	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2"W	B			
8	LEXAR	3.7	L	2.78	lb ai/a	3	qt/a	PRE	A	92	97	97
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	PRE	A			
9	LUMAX	3.94	L	1.97	lb ai/a	2	qt/a	2"W	B	79	86	86
9	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	2"W	B			
9	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	2"W	B			
10	LUMAX	3.94	L	1.97	lb ai/a	2	qt/a	PRE	A	97	98	98
10	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	3-4"W	C			
10	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C			
11	LEXAR	3.7	L	1.39	lb ai/a	1.5	qt/a	PRE	A	97	97	96
11	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
11	LEXAR	3.7	L	1.39	lb ai/a	1.5	qt/a	4"CN	D			
11	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D			
12	KEYSTONE	5.25	L	1.97	lb ai/a	1.5	qt/a	PRE	A	96	97	95
12	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	C			
12	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C			
13	KEYSTONE	5.25	L	3.54	lb ai/a	2.7	qt/a	PRE	A	97	97	95
13	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	C			
13	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C			
14	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	98	98	95
14	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
14	GLYPHOMAX XRT	4	SL	0.75	lb ae/a	24	fl oz/a	3-4"W	C			
14	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C			
15	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	99	98	98
15	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
15	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D			
15	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	4"CN	D			
15	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D			
15	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D			
15	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D			
16	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	97	98	98
16	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
16	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D			
16	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	4"CN	D			
16	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D			
16	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D			
16	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D			
17	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D	92	96	93
17	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	4"CN	D			
17	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D			
17	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D			
17	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D			

## Weed Management in Glyphosate-Resistant Corn.

Project Code: 05-6C Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	IPOSS	IPOSS	IPOSS
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	06-14-05	06-20-05	10-12-05
Trt-Eval Interval	14 DA-C	45 DAP	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	IPOSS 06-14-05	IPOSS 06-20-05	IPOSS 10-12-05
18	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	4"CN	D	88	93	93
18	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	4"CN	D			
18	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	4"CN	D			
18	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	4"CN	D			
18	AMS	100	DRY	2.5	lb/a	2.5	lb/a	4"CN	D			
19	GUARDSMAN MAX	5	L	1.25	lb ai/a	2	pt/a	PRE	A	97	98	98
19	CORNERSTONE	3	SL	0.56	lb ae/a	24	fl oz/a	3-4"W	C			
19	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	3-4"W	C			
19	ACTIVATOR 90	100	LIQ	0.25	% v/v	0.25	% v/v	3-4"W	C			
19	AMS	100	DRY	2.5	lb/a	2.5	lb/a	3-4"W	C			
20	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	96	96	96
20	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	C			
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C			
21	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	96	97	96
21	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	3-4"W	C			
21	CLARITY	4	EC	0.125	lb ai/a	4	fl oz/a	3-4"W	C			
21	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	3-4"W	C			
LSD (P=.05)										12.6	11.2	12.0
Replicate F										6.254	3.066	3.761
Replicate Prob(F)										0.0043	0.0577	0.0319
Treatment F										23.963	29.781	25.799
Treatment Prob(F)										0.0001	0.0001	0.0001

## Trial Comments

1. Protocol: Monsanto, Dow, BASF, Syngenta, Sipcam.
2. Ratings: % of bleached plants at 7-14 DA "PRE" and 14 DA "POST";  
WC 14 DA "POST" and 45 DAP and at harvest.
3. Yield.
4. DA-A = Days after PRE application. DA-A = Days after 2"W application. Ratings at 14 DA-B were also 14 days after the 4"CN application.  
DA-C = Days after 3-4"W application. DAP = Days after planting. EOS = End of season.
5. Crop injury ratings on 6-3-05 were bleached plants, except for treatments 19 and 21 which were leaning plants.
6. Harvested 10-12-05, (2) 30 inch rows by 27 ft.