

# Corn, Tilled Weed Control Studies

12-06-05 (05-24B-E100)

Southern Illinois University

Weed Management for Conventional Corn.

Project Code: 05-24B-E100 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:

Evaluate various herbicide programs for use in conventional or clearfield corn.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	AMBTR ragweed, giant	Ambrosia trifida L.
3.	AMATA waterhemp, common	Amaranthus rudis Sauer
4.	CYPES nutsedge, yellow	Cyperus esculentus L.
5.	IPOSS morningglory, species	Ipomoea sp.

Crop 1: ZEAMX corn, field Variety: 33P71 CL  
Planting Method: Seeded Planting Date: 5-5-05  
Rate: 28000 S/A Depth: 1.5 IN  
Row Spacing: 30 IN Seed Bed: 5-5-05

Plot Width, Unit: 10 FT Plot Length, Unit: 28 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: Rushville % OM: 2.3 pH: 6 CEC: 12  
Texture: Silt loam Fert. Level: P1: 83 LB/A, K: 446 LB/A

## APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	05-06-05	05-16-05	05-24-05	05-31-05
Time of Day:	13:30	16:30	7:45	11:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	V1	3-4"W	12"CN
Applic. Placement:	BROSIOI	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	76 F	76 F	62 F	80 F
% Relative Humidity:	30	30	70	30
Wind Velocity, Unit:	5 MPH	5 MPH	8 MPH	5 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL

## CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V1	ZEAMX V4	ZEAMX V5
Height, Unit:	NA NA	3-5 IN	7-8 IN	12-14 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code:		SETFA	SETFA	SETFA
Stage (leaves):		2-5	4-8	4-8
Height (inches):		1-3	3-8	3-8
Density:		Medium	Low	Low
Weed 2 Code:		AMBTR	AMBTR	AMBTR
Stage (leaves):		4-6	6-8	6-8
Height (inches):		1-4	3-6	3-6
Density:		High	Medium	Medium
Weed 3 Code:		AMATA		
Stage (leaves):		4-6		
Height (inches):		1-2		
Density:		Medium		
Weed 4 Code:		CYPES	CYPES	CYPES
Stage (leaves):		5-7	4-8	4-8
Height (inches):		3-5	4-8	4-8
Density:		Medium	Medium	Medium
Weed 5 Code:		IPOSS	IPOSS	IPOSS
Stage (leaves):		0-2	2-5	2-5
Height (inches):		1-2	1-4	1-4
Density:		Low	Low	Low

## APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8002	8002	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

NOTES:

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

ZEAMX Yield bu/A 10-14-05	ZEAMX Injury Percent 05-20-05 14 DA-A	ZEAMX Injury Percent 05-23-05 7 DA-B	ZEAMX Injury Percent 05-31-05 7 DA-C	ZEAMX Injury Percent 06-07-05 7 DA-D	ZEAMX Injury Percent 06-13-05 28 DA-B	ZEAMX Injury Percent 06-21-05 28 DA-C	ZEAMX Injury Percent 06-28-05 28 DA-D
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent
1	NONTREATED								24	0	0	0	0	0	0	0
2	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a		PRE A		203	0	0	0	0	0	0	0
2	DISTINCT	70 WG		0.175 lb ai/a	4 oz/a		12"CN D									
2	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		12"CN D									
2	AMS	100 DRY		2.5 lb/a	2.5 lb/a		12"CN D									
3	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a		PRE A		202	0	0	0	0	0	0	0
3	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a		PRE A									
4	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A		184	0	0	0	0	0	0	0
4	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A									
4	LIGHTNING	70 WG		0.056 lb ai/a	1.28 oz/a		12"CN D									
4	DISTINCT	70 WG		0.0875 lb ai/a	2 oz/a		12"CN D									
4	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		12"CN D									
4	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		12"CN D									
4	AMS	100 DRY		2.5 lb/a	2.5 lb/a		12"CN D									
5	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A		204	0	0	0	0	0	0	0
5	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A									
5	CELEBRITY PLUS	70 WG		0.206 lb ai/a	4.7 oz/a		12"CN D									
5	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		12"CN D									
5	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		12"CN D									
5	AMS	100 DRY		2.5 lb/a	2.5 lb/a		12"CN D									
6	FULTIME	4 SC		3.0 lb ai/a	3 qt/a		V1 B		190	8	5	0	0	0	0	0
6	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a		V1 B									
6	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		V1 B									
7	KEYSTONE	5.25 L		3.5 lb ai/a	2.67 qt/a		PRE A		173	0	0	0	0	0	0	0
7	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a		PRE A									
8	KEYSTONE	5.25 L		3.5 lb ai/a	2.67 qt/a		PRE A		190	0	0	0	0	0	0	0
8	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a		12"CN D									
8	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a		12"CN D									
8	CALLISTO	4 SC		0.023 lb ai/a	0.75 fl oz/a		12"CN D									
8	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		12"CN D									
8	AMS	100 DRY		2.5 lb/a	2.5 lb/a		12"CN D									
9	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a		PRE A		187	0	0	0	0	0	0	0
10	LUMAX	3.94 L		2.46 lb ai/a	2.5 qt/a		PRE A		130	0	0	0	0	0	0	0
10	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A									
11	BICEP II MAGNUM	5.5 L		2.9 lb ai/a	2.1 qt/a		PRE A		167	0	0	0	0	0	0	0
11	CALLISTO	4 SC		0.094 lb ai/a	3 fl oz/a		12"CN D									
11	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a		12"CN D									
11	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v		12"CN D									
11	28% UAN	100 LIQ		2.0 % v/v	2 % v/v		12"CN D									
12	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a		PRE A		198	0	0	0	0	0	0	0
12	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A									
12	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a		V1 B									
12	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v		V1 B									
13	RADIUS	4 SC		0.656 lb ai/a	21 fl oz/a		PRE A		112	0	0	0	0	0	0	0
14	RADIUS	4 SC		0.56 lb ai/a	18 fl oz/a		PRE A		48	0	0	0	0	0	0	0
15	RADIUS	4 SC		0.56 lb ai/a	18 fl oz/a		PRE A		151	0	0	0	0	0	0	0
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A									
16	BALANCE PRO	4 SC		0.07 lb ai/a	2.25 fl oz/a		PRE A		131	0	0	0	0	0	0	0
16	DEFINE	4 SC		0.375 lb ai/a	12 fl oz/a		PRE A									
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a		PRE A									
17	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a		PRE A		133	0	0	3	0	0	0	0
17	OPTION	35 WG		0.0328 lb ai/a	1.5 oz/a		3-4"W C									
17	DESTINY MSO	100 LIQ		1.5 pt/a	1.5 pt/a		3-4"W C									
17	28% UAN	100 LIQ		1.5 qt/a	1.5 qt/a		3-4"W C									

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent
10-14-05	05-20-05	05-23-05	05-31-05	06-07-05	06-13-05	06-21-05	06-28-05
14 DA-A	7 DA-B	7 DA-C	7 DA-D	28 DA-B	28 DA-C	28 DA-D	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Yield	ZEAMX Injury	ZEAMX Injury	ZEAMX Injury	ZEAMX Injury	ZEAMX Injury	ZEAMX Injury	ZEAMX Injury
18	DEFINE	4	SC	0.375	lb ai/a	12	fl oz/a	PRE	A	166	0	0	4	0	0	0	0
18	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	3-4"W	C								
18	DISTINCT	70	WG	0.175	lb ai/a	4	oz/a	3-4"W	C								
18	DESTINY MSO	100	LIQ	1.5	pt/a	1.5	pt/a	3-4"W	C								
18	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	3-4"W	C								
19	DEFINE	4	SC	0.68	lb ai/a	21.7	fl oz/a	PRE	A	179	0	0	4	1	0	0	0
19	BUCTRIL+ATRAZINE	3	L	0.75	lb ai/a	2	pt/a	3-4"W	C								
20	BALANCE PRO	4	SC	0.07	lb ai/a	2.25	fl oz/a	PRE	A	186	0	0	4	0	0	0	0
20	BUCTRIL+ATRAZINE	3	L	0.75	lb ai/a	2	pt/a	3-4"W	C								
LSD (P=.05)										48.3	1.1	0.0	0.8	0.3	0.0	0.0	0.0
Replicate F										2.918	1.000	0.000	0.322	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.0662	0.3774	1.0000	0.7266	1.0000	1.0000	1.0000	1.0000
Treatment F										8.703	25.000	0.000	33.492	2.275	0.000	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	1.0000	0.0001	0.0153	1.0000	1.0000	1.0000

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR	
						Control	Control	Control	Control	Control	Control	
						Percent	Percent	Percent	Percent	Percent	Percent	
						06-03-05	07-01-05	07-19-05	06-03-05	07-01-05	07-19-05	
						28 DA-A	56 DA-A	56 DA-C	28 DA-A	56 DA-A	56 DA-C	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	NONTREATED									0	0	0
2	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a			PRE	A	97	93	93
2	DISTINCT	70 WG		0.175 lb ai/a	4 oz/a			12"CN	D			
2	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v			12"CN	D			
2	AMS	100 DRY		2.5 lb/a	2.5 lb/a			12"CN	D			
3	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a			PRE	A	98	97	97
3	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a			PRE	A			
4	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A	80	95	95
4	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A			
4	LIGHTNING	70 WG		0.056 lb ai/a	1.28 oz/a			12"CN	D			
4	DISTINCT	70 WG		0.0875 lb ai/a	2 oz/a			12"CN	D			
4	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			12"CN	D			
4	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v			12"CN	D			
4	AMS	100 DRY		2.5 lb/a	2.5 lb/a			12"CN	D			
5	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A	75	96	96
5	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A			
5	CELEBRITY PLUS	70 WG		0.206 lb ai/a	4.7 oz/a			12"CN	D			
5	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			12"CN	D			
5	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v			12"CN	D			
5	AMS	100 DRY		2.5 lb/a	2.5 lb/a			12"CN	D			
6	FULTIME	4 SC		3.0 lb ai/a	3 qt/a			V1	B	98	94	94
6	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a			V1	B			
6	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v			V1	B			
7	KEYSTONE	5.25 L		3.5 lb ai/a	2.67 qt/a			PRE	A	99	94	94
7	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a			PRE	A			
8	KEYSTONE	5.25 L		3.5 lb ai/a	2.67 qt/a			PRE	A	98	96	96
8	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a			12"CN	D			
8	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a			12"CN	D			
8	CALLISTO	4 SC		0.023 lb ai/a	0.75 fl oz/a			12"CN	D			
8	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v			12"CN	D			
8	AMS	100 DRY		2.5 lb/a	2.5 lb/a			12"CN	D			
9	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a			PRE	A	97	68	68
10	LUMAX	3.94 L		2.46 lb ai/a	2.5 qt/a			PRE	A	94	58	58
10	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A			
11	BICEP II MAGNUM	5.5 L		2.9 lb ai/a	2.1 qt/a			PRE	A	90	80	80
11	CALLISTO	4 SC		0.094 lb ai/a	3 fl oz/a			12"CN	D			
11	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a			12"CN	D			
11	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v			12"CN	D			
11	28% UAN	100 LIQ		2.0 % v/v	2 % v/v			12"CN	D			
12	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a			PRE	A	98	96	96
12	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A			
12	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a			V1	B			
12	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v			V1	B			
13	RADIUS	4 SC		0.656 lb ai/a	21 fl oz/a			PRE	A	98	93	93
14	RADIUS	4 SC		0.56 lb ai/a	18 fl oz/a			PRE	A	95	82	82
15	RADIUS	4 SC		0.56 lb ai/a	18 fl oz/a			PRE	A	98	88	90
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A			
16	BALANCE PRO	4 SC		0.07 lb ai/a	2.25 fl oz/a			PRE	A	97	97	97
16	DEFINE	4 SC		0.375 lb ai/a	12 fl oz/a			PRE	A			
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a			PRE	A			
17	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a			PRE	A	97	98	98
17	OPTION	35 WG		0.0328 lb ai/a	1.5 oz/a			3-4"W	C			48
17	DESTINY MSO	100 LIQ		1.5 pt/a	1.5 pt/a			3-4"W	C			
17	28% UAN	100 LIQ		1.5 qt/a	1.5 qt/a			3-4"W	C			

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Weed Code				SETFA	SETFA	SETFA	AMBTR	AMBTR	AMBTR						
Crop Code				Control	Control	Control	Control	Control	Control						
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent						
Rating Unit				06-03-05	07-01-05	07-19-05	06-03-05	07-01-05	07-19-05						
Rating Date				28 DA-A	56 DA-A	56 DA-C	28 DA-A	56 DA-A	56 DA-C						
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
18	DEFINE	4	SC	0.375	lb ai/a	12	fl oz/a	PRE	A	98	98	98	91	93	93
18	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	3-4"W	C						
18	DISTINCT	70	WG	0.175	lb ai/a	4	oz/a	3-4"W	C						
18	DESTINY MSO	100	LIQ	1.5	pt/a	1.5	pt/a	3-4"W	C						
18	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	3-4"W	C						
19	DEFINE	4	SC	0.68	lb ai/a	21.7	fl oz/a	PRE	A	97	81	81	98	89	89
19	BUCTRIL+ATRAZINE	3	L	0.75	lb ai/a	2	pt/a	3-4"W	C						
20	BALANCE PRO	4	SC	0.07	lb ai/a	2.25	fl oz/a	PRE	A	85	56	58	99	98	98
20	BUCTRIL+ATRAZINE	3	L	0.75	lb ai/a	2	pt/a	3-4"W	C						
LSD (P=.05)										9.5	22.6	22.5	20.6	20.6	22.7
Replicate F										1.992	4.351	4.413	8.178	5.396	4.732
Replicate Prob(F)										0.1504	0.0199	0.0189	0.0011	0.0087	0.0146
Treatment F										44.196	8.777	8.781	10.891	21.503	17.722
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code	AMATA	AMATA	AMATA	CYPES	CYPES	IPOSS	IPOSS
Crop Code							
Rating Data Type	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	06-03-05	07-01-05	07-19-05	07-01-05	07-19-05	07-01-05	07-19-05
Trt-Eval Interval	28 DA-A	56 DA-A	56 DA-C	56 DA-A	56 DA-C	56 DA-A	56 DA-C

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	
2	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a	PRE	A			99	99	99	89	89	98	98
2	DISTINCT	70 WG		0.175 lb ai/a	4 oz/a	12"CN	D									
2	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v	12"CN	D									
2	AMS	100 DRY		2.5 lb/a	2.5 lb/a	12"CN	D									
3	GUARDSMAN MAX	5 L		2.5 lb ai/a	4 pt/a	PRE	A			99	99	99	74	75	83	83
3	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a	PRE	A									
4	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A			99	99	99	74	75	98	98
4	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A									
4	LIGHTNING	70 WG		0.056 lb ai/a	1.28 oz/a	12"CN	D									
4	DISTINCT	70 WG		0.0875 lb ai/a	2 oz/a	12"CN	D									
4	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	12"CN	D									
4	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v	12"CN	D									
4	AMS	100 DRY		2.5 lb/a	2.5 lb/a	12"CN	D									
5	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A			99	99	99	86	86	98	98
5	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A									
5	CELEBRITY PLUS	70 WG		0.206 lb ai/a	4.7 oz/a	12"CN	D									
5	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	12"CN	D									
5	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v	12"CN	D									
5	AMS	100 DRY		2.5 lb/a	2.5 lb/a	12"CN	D									
6	FULTIME	4 SC		3.0 lb ai/a	3 qt/a	V1	B			99	99	99	70	70	49	49
6	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a	V1	B									
6	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v	V1	B									
7	KEYSTONE	5.25 L		3.5 lb ai/a	2.67 qt/a	PRE	A			99	99	99	42	40	50	45
7	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a	PRE	A									
8	KEYSTONE	5.25 L		3.5 lb ai/a	2.67 qt/a	PRE	A			99	99	99	55	47	97	96
8	HORNET	68.5 WG		0.128 lb ai/a	3 oz/a	12"CN	D									
8	AATREX	90 WG		0.25 lb ai/a	4.44 oz/a	12"CN	D									
8	CALLISTO	4 SC		0.023 lb ai/a	0.75 fl oz/a	12"CN	D									
8	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v	12"CN	D									
8	AMS	100 DRY		2.5 lb/a	2.5 lb/a	12"CN	D									
9	LEXAR	3.7 L		2.78 lb ai/a	3 qt/a	PRE	A			99	99	99	84	84	62	58
10	LUMAX	3.94 L		2.46 lb ai/a	2.5 qt/a	PRE	A			99	99	99	85	85	80	78
10	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A									
11	BICEP II MAGNUM	5.5 L		2.9 lb ai/a	2.1 qt/a	PRE	A			99	99	99	96	96	98	98
11	CALLISTO	4 SC		0.094 lb ai/a	3 fl oz/a	12"CN	D									
11	AATREX	90 WG		0.5 lb ai/a	0.556 lb/a	12"CN	D									
11	PRIME OIL COC	100 LIQ		1.0 % v/v	1 % v/v	12"CN	D									
11	28% UAN	100 LIQ		2.0 % v/v	2 % v/v	12"CN	D									
12	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a	PRE	A			99	99	99	92	92	92	92
12	PRINCEP	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A									
12	LEXAR	3.7 L		1.39 lb ai/a	1.5 qt/a	V1	B									
12	ACTIVATOR 90	100 LIQ		0.25 % v/v	0.25 % v/v	V1	B									
13	RADIUS	4 SC		0.656 lb ai/a	21 fl oz/a	PRE	A			99	99	99	15	15	55	55
14	RADIUS	4 SC		0.56 lb ai/a	18 fl oz/a	PRE	A			99	98	96	50	50	87	87
15	RADIUS	4 SC		0.56 lb ai/a	18 fl oz/a	PRE	A			99	99	99	68	68	72	72
15	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A									
16	BALANCE PRO	4 SC		0.07 lb ai/a	2.25 fl oz/a	PRE	A			99	99	99	27	23	67	67
16	DEFINE	4 SC		0.375 lb ai/a	12 fl oz/a	PRE	A									
16	AATREX	90 WG		1.0 lb ai/a	1.11 lb/a	PRE	A									
17	BALANCE PRO	4 SC		0.047 lb ai/a	1.5 fl oz/a	PRE	A			94	63	63	73	73	87	84
17	OPTION	35 WG		0.0328 lb ai/a	1.5 oz/a	3-4"W	C									
17	DESTINY MSO	100 LIQ		1.5 pt/a	1.5 pt/a	3-4"W	C									
17	28% UAN	100 LIQ		1.5 qt/a	1.5 qt/a	3-4"W	C									

Weed Management for Conventional Corn.

Project Code: 05-24B-E100 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	CYPES	CYPES	IPOSS	IPOSS
Crop Code							
Rating Data Type	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date	06-03-05	07-01-05	07-19-05	07-01-05	07-19-05	07-01-05	07-19-05
Trt-Eval Interval	28 DA-A	56 DA-A	56 DA-C	56 DA-A	56 DA-C	56 DA-A	56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
18	DEFINE	4	SC	0.375	lb ai/a	12	fl oz/a	PRE	A	99	93	93	84	84	92	93
18	OPTION	35	WG	0.0328	lb ai/a	1.5	oz/a	3-4"W	C							
18	DISTINCT	70	WG	0.175	lb ai/a	4	oz/a	3-4"W	C							
18	DESTINY MSO	100	LIQ	1.5	pt/a	1.5	pt/a	3-4"W	C							
18	28% UAN	100	LIQ	1.5	qt/a	1.5	qt/a	3-4"W	C							
19	DEFINE	4	SC	0.68	lb ai/a	21.7	fl oz/a	PRE	A	99	99	99	58	53	93	90
19	BUCTRIL+ATRAZINE	3	L	0.75	lb ai/a	2	pt/a	3-4"W	C							
20	BALANCE PRO	4	SC	0.07	lb ai/a	2.25	fl oz/a	PRE	A	99	99	98	52	52	94	94
20	BUCTRIL+ATRAZINE	3	L	0.75	lb ai/a	2	pt/a	3-4"W	C							
LSD (P=.05)										1.4	9.2	9.3	31.6	30.1	27.4	28.4
Replicate F										1.762	0.995	0.844	3.416	4.196	7.504	8.129
Replicate Prob(F)										0.1854	0.3790	0.4378	0.0432	0.0226	0.0018	0.0012
Treatment F										2120.590	51.442	50.461	5.743	6.656	6.705	6.379
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: BASF, Dow, Syngenta, Bayer.
2. Ratings: CI 14 DA "A" and 7 DA POST; CI for all treatments at 26-44 DAT.  
 WC 28 and 56 DA "A" and/or 45-59 DAT.
3. Yield if possible.
4. Ratings on 5-20-05 at 14 days after PRE application were also 4 days after V1 application and prior to 3-4"W and 12"CN applications.  
 Ratings on 5-23-05 at 7 days after V1 application were also 17 days after PRE application and prior to 3-4"W and 12"CN applications.  
 Ratings on 5-31-05 at 7 days after 3-4"W application were also 25 and 15 days after PRE and V1 applications, respectively, and prior to 12"CN application.  
 Ratings on 6-7-05 at 7 days after 12"CN application were also 32, 22, and 14 days after PRE, V1, and 3-4"W applications, respectively.  
 Ratings on 6-3-05 at 28 days after PRE application were also 18, 10, and 3 days after V1, 3-4"W, and 12"CN applications, respectively.  
 Ratings on 6-13-05 at 28 days after V1 application were also 38, 20, and 13 days after PRE, 3-4"W, and 12"CN applications, respectively.  
 Ratings on 6-21-05 at 28 days after 3-4"W application were also 46, 36, and 21 days after PRE, V1, and 12"CN applications, respectively.  
 Ratings on 6-28-05 at 28 days after 12"CN application were also 53, 43, and 35 days after PRE, V1, and 3-4"W applications, respectively.  
 Ratings on 7-1-05 at 56 days after PRE application were also 46, 38, and 31 days after V1, 3-4"W, and 12"CN applications, respectively.  
 Ratings on 7-19-05 at 56 days after 3-4"W application were also 74, 64, and 49 days after PRE, V1, and 12"CN applications, respectively.
5. Harvested 10-14-05, (2) 30 inch rows by 25 ft.