

## Single and Sequential Herbicide Applications in Corn.

Project Code: 03-21N-W200 Location: Belleville Research Center

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA  
 Trial Status: Final Updated: 11-4-03

## Objective:

Evaluate various corn herbicide programs in single and sequential applications.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. XANST	cocklebur, common	Xanthium strumarium L.
3. AMATA	waterhemp, common	Amaranthus rudis Sauer
4. CHEAL	lambsquarters, common	Chenopodium album L.
5. ABUTH	velvetleaf	Abutilon theophrasti Medicus

Crop 1: ZEAMX corn, field Variety: Pioneer 33P69LL  
 Planting Method: Seeded Planting Date: 5-23-03  
 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, 2002

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

Soil Name: Ebbert % OM: 1.4 pH: 5.7 CEC: 14  
 Texture: Silt loam Fert. Level: P1: 97 LB/A, K: 291 LB/A

## APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-24-03	6-4-03	6-9-03	6-16-03	6-20-03	6-16-03
Time of Day:	15:00	14:00	16:30	14:30	11:30	14:30
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	1"W	1-3"W	3-4"W-1	8-10"CN	3-4"W-2
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	68 F	72 F	84 F	86 F	76 F	86 F
% Relative Humidity:	52	42	34	40	50	40
Wind Velocity, Unit:	0 MPH	5 MPH	3 MPH	5 MPH	5 MPH	5 MPH
Soil Moisture:	NORMAL	ABONOR	NORMAL	ABONOR	NORMAL	ABONOR

## CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V1	ZEAMX V1	ZEAMX V4	ZEAMX V4	ZEAMX V4
Height, Unit:	NA NA	3 IN	3 IN	6-8 IN	8 IN	6-8 IN

## WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:		SETFA	SETFA	SETFA		SETFA
Stage(leaves):		1-2	1-3	1-4		1-4
Height(inches):		0-1	0-2	1-3		1-3
Density:		Medium	Medium	Medium		Medium
Weed 2 Code:		XANST	XANST	XANST	XANST	XANST
Stage(leaves):		1-2	1-3	2-6	2-3	2-6
Height(inches):		0-1	1-3	2-5	1-3	2-5
Density:		High	High	High	High	High
Weed 3 Code:				AMATA		AMATA
Stage(leaves):				1-2		1-2
Height(inches):				1-2		1-2
Density:				Low		Low

<b>Weed 5 Code:</b>	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
<b>Stage(leaves):</b>	1-2	1-3	1-3	1-2	1-3
<b>Height(inches):</b>	0-1	0-2	1-3	1-3	1-3
<b>Density:</b>	Low	Low	Low	Low	Low

## APPLICATION EQUIPMENT

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

## NOTES:

Harvested Oct-29-03, (2) 30 inch rows by 27 ft.

Single and Sequential Herbicide Applications in Corn.

Project Code: 03-21N-W200 Location: Belleville Research Center

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Yield bu/A 10-29-03	ZEAMX Injury Percent 6-7-03	ZEAMX Injury Percent 6-23-03	ZEAMX Injury Percent 14 DAT	ZEAMX Injury Percent 28 DAT	SETFA Control Percent 6-7-03	SETFA Control Percent 6-23-03	SETFA Control Percent 14 DAT	SETFA Control Percent 28 DAT	XANST Control Percent 6-7-03	XANST Control Percent 6-23-03	XANST Control Percent 7-17-03
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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Yield	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control	
1	NONTREATED									21	0	0	0	0	0	0	0	0	0	0	0
2	BALANCE PRO	4	SC	0.0469	LB A/A	1.5	OZ/A	PRE	A	159	0	0	0	0	100	99	99	0			
2	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	3-4"W-2	F												
2	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-2	F												
2	AMS	100	DRY	3	LB A/A	3	LB/A	3-4"W-2	F												
3	BALANCE PRO	4	SC	0.0469	LB A/A	1.5	FL OZ/A	PRE	A	152	0	0	0	0	100	99	98	0			
3	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	F												
3	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F												
3	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F												
4	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A	124	0	0	0	0	100	99		43	60	50	
4	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A												
5	BALANCE PRO	4	SC	0.0938	LB A/A	3	FL OZ/A	PRE	A	157	0	0	0	0	100	99		93	87	73	
5	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	PRE	A												
6	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A	159	0	0	0	0	100	99		94	87	83	
6	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A												
6	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	PRE	A												
7	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	165	0	0	0	0	100	99	99	0			
7	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	3-4"W-2	F												
7	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-2	F												
7	AMS	100	DRY	3	LB A/A	3	LB/A	3-4"W-2	F												
8	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	145	0	0	0	0	100	99	99	0			
8	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	F												
8	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A	3-4"W-2	F												
8	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F												
8	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F												
9	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	1-3"W	C	149	0	0	0	0	98	98				88	
9	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	1-3"W	C												
9	AMS	100	DRY	3	LB A/A	3	LB/A	1-3"W	C												
10	DEFINE	4	SC	0.68	LB A/A	21.7	FL OZ/A	PRE	A	170	0	0	0	0	100	99	99	0			
10	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2	PT/A	3-4"W-2	F												
11	BALANCE PRO	4	SC	0.0703	LB A/A	2.25	FL OZ/A	PRE	A	169	0	0	0	0	100	99	96	0			
11	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	3-4"W-2	F												
11	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F												
11	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F												

Weed Code	ZEAMX					SETFA	SETFA	SETFA	SETFA	XANST	XANST	XANST
Crop Code	Yield	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	10-29-03	6-7-03	6-23-03	14 DAT	28 DAT	6-7-03	6-23-03	6-7-03	6-23-03	7-17-03	6-7-03	6-23-03
Rating Date	14 DA-A	30 DA-A	14 DAT	28 DAT	14 DA-A	30 DA-A	14 DAT	28 DAT	14 DA-A	30 DA-A	54 DA-A	
Trt-Eval Interval												

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code												
12	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	PRE	A	173	0	0	0	90	99	99	78				
12	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	F												
12	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	3-4"W-2	F												
12	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F												
12	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F												
13	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	3-4"W-1	D	151		0			99						
13	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	3-4"W-1	D												
13	AMS	100	DRY	3	LB A/A	3	LB/A	3-4"W-1	D												
14	FULTIME	4	SC	3.0	LB A/A	3	QT/A	1"W	B	160		0	0		99	99	94 95				
14	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	1"W	B												
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	1"W	B												
15	KEYSTONE	5.25	L	3.5	LB A/A	2.67	QT/A	PRE	A	172	0	0	0	100	99	96	85				
15	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-4"W-2	F												
15	CALLISTO	4	SC	0.0235	LB A/A	0.75	FL OZ/A	3-4"W-2	F												
15	AATREX	90	WG	0.25	LB A/A	4.44	OZ/A	3-4"W-2	F												
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-2	F												
15	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	3-4"W-2	F												
16	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A	166	0	0		100	99		93 92 87				
16	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A												
17	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	178	0	0	0	100	99	99	82				
17	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	8-10"CN	E												
17	AATREX	90	WG	0.5	LB A/A	8.9	OZ/A	8-10"CN	E												
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	8-10"CN	E												
17	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	8-10"CN	E												
18	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	169	0	0	0	100	99	99	85				
18	NORTHSTAR	47.4	WG	0.148	LB A/A	5.0	OZ/A	8-10"CN	E												
18	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	8-10"CN	E												
18	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	8-10"CN	E												
LSD (P=.05)										25.2	0.0	0.0	0.0	0.0	2.2	0.0	1.0	2.0	17.8	11.7	13.4
Replicate F										10.311	0.000	0.000	0.000	0.000	1.000	0.000	1.000	0.488	1.145	1.487	3.771
Replicate Prob(F)										0.0003	1.0000	1.0000	1.0000	1.0000	0.3806	1.0000	0.3816	0.6201	0.3328	0.2720	0.0536
Treatment F										16.130	0.000	0.000	0.000	0.000	1194.857	0.000	5502.640	1702.528	51.132	96.704	58.646
Treatment Prob(F)										0.0001	1.0000	1.0000	1.0000	1.0000	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

Weed Code	XANST	XANST	XANST	AMATA	AMATA	AMATA	CHEAL	CHEAL	CHEAL	ABUTH
Crop Code										
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date			8-12-03	6-7-03	6-23-03		6-7-03	6-23-03		
Trt-Eval Interval	14 DAT	28 DAT	57 DA-D	14 DA-A	30 DA-A	14 DAT	14 DA-A	30 DA-A	14 DAT	28 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	NONTREATED									0	0	0	0	0	0	0	0
2	BALANCE PRO	4	SC	0.0469	LB A/A	1.5	OZ/A	PRE	A	99	99	99	100		99	100	99
2	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	3-4"W-2	F								
2	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-2	F								
2	AMS	100	DRY	3	LB A/A	3	LB/A	3-4"W-2	F								
3	BALANCE PRO	4	SC	0.0469	LB A/A	1.5	FL OZ/A	PRE	A	93	90	90	100		99	100	99
3	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	F								
3	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F								
3	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F								
4	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A				100	99		100	99
4	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A								
5	BALANCE PRO	4	SC	0.0938	LB A/A	3	FL OZ/A	PRE	A				100	99		100	99
5	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	PRE	A								
6	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A				100	99		100	99
6	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A								
6	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	PRE	A								
7	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	99	97	96	100		99	100	99
7	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	3-4"W-2	F								
7	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-2	F								
7	AMS	100	DRY	3	LB A/A	3	LB/A	3-4"W-2	F								
8	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	95	92	80	100		99	100	99
8	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	F								
8	DISTINCT	70	WG	0.0875	LB A/A	2	OZ/A	3-4"W-2	F								
8	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F								
8	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F								
9	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	1-3"W	C	92	75				99		80
9	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	1-3"W	C								
9	AMS	100	DRY	3	LB A/A	3	LB/A	1-3"W	C								
10	DEFINE	4	SC	0.68	LB A/A	21.7	FL OZ/A	PRE	A	98	97	95	100		99	100	99
10	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2	PT/A	3-4"W-2	F								
11	BALANCE PRO	4	SC	0.0703	LB A/A	2.25	FL OZ/A	PRE	A	95	93	85	100		99	100	99
11	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	3-4"W-2	F								
11	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F								
11	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F								

Weed Code	XANST	XANST	XANST	AMATA	AMATA	AMATA	CHEAL	CHEAL	CHEAL	ABUTH
Crop Code										
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date			8-12-03	6-7-03	6-23-03		6-7-03	6-23-03		
Trt-Eval Interval	14 DAT	28 DAT	57 DA-D	14 DA-A	30 DA-A	14 DAT	14 DA-A	30 DA-A	14 DAT	28 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
12	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	PRE	A	95	95	95	100	99	100	99	93	
12	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	F									
12	DISTINCT	70	WG	0.175	LB A/A	4	OZ/A	3-4"W-2	F									
12	DESTINY MSO	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	F									
12	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	F									
13	AATREX	90	WG	1.5	LB A/A	1.67	LB/A	3-4"W-1	D	99		93		99		99		
13	LIBERTY	1.67	EC	0.418	LB A/A	32	FL OZ/A	3-4"W-1	D									
13	AMS	100	DRY	3	LB A/A	3	LB/A	3-4"W-1	D									
14	FULTIME	4	SC	3.0	LB A/A	3	QT/A	1"W	B	80				99	99		99	
14	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	1"W	B									
14	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	1"W	B									
15	KEYSTONE	5.25	L	3.5	LB A/A	2.67	QT/A	PRE	A	96	96	99	100	99	100	99	99	
15	HORNET	68.5	WG	0.128	LB A/A	3	OZ/A	3-4"W-2	F									
15	CALLISTO	4	SC	0.0235	LB A/A	0.75	FL OZ/A	3-4"W-2	F									
15	AATREX	90	WG	0.25	LB A/A	4.44	OZ/A	3-4"W-2	F									
15	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-2	F									
15	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	3-4"W-2	F									
16	LUMAX	3.94	L	2.46	LB A/A	2.5	QT/A	PRE	A				100	99		100	99	
16	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A									
17	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	99	96	99	100	99	100	99	99	
17	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	8-10"CN	E									
17	AATREX	90	WG	0.5	LB A/A	8.9	OZ/A	8-10"CN	E									
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	8-10"CN	E									
17	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	8-10"CN	E									
18	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	99	96	99	100	99	100	99	96	
18	NORTHSTAR	47.4	WG	0.148	LB A/A	5.0	OZ/A	8-10"CN	E									
18	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	8-10"CN	E									
18	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	8-10"CN	E									
LSD (P=.05)										5.0	3.7	3.3	0.0	0.0	0.0	0.0	0.0	5.1
Replicate F										0.534	1.489	4.633	0.000	0.000	0.000	0.000	0.000	1.570
Replicate Prob(F)										0.5927	0.2474	0.0209	1.0000	1.0000	1.0000	1.0000	1.0000	0.2305
Treatment F										225.003	475.513	605.948	0.000	0.000	0.000	0.000	0.000	267.548
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000	0.0001

Single and Sequential Herbicide Applications in Corn.

Project Code: 03-21N-W200      Location: Belleville Research Center

#### Trial Comments

1. Protocol: Bayer, Dow, Syngenta.
2. Ratings: CI 14 and 28 DA PRE; CI and WC prior to POST; WC 14, 28 and 56 DAT.
3. DA-A = days after PRE application. DAT = days after postemergence application.
4. Ratings on 6-7-03 are prior to most postemergence applications, the exception was the 1"W application, which was rated with the PRE applications.
5. Ratings on 6-23-03 at 30 DA-A were also 19 days after the 1"W application.
6. Ratings at 14 days after 1"W, 1-3"W, 3-4"W-1, 3-4"W-2 and 8-10"CN applications were on 6-18-03, 6-23-03, 6-30-03, 6-30-03 and 7-4-03, respectively.  
Ratings at 28 days after 1"W, 1-3"W, 3-4"W-1, 3-4"W-2 and 8-10"CN applications were on 7-2-03, 7-7-03, 7-14-03, 7-14-03 and 7-18-03, respectively.
7. DA-D = days after 3-4"W-1 application. On 8-12-03 all postemergence plots were rated the same day.