

Project Code: 04-51E-S120 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: 9-1-04

Objective:  
Evaluate postemergence herbicide programs for control of broadleaf weeds.

Weed Code	Common Name	Scientific Name
1. GGGAN	grasses, annual	
2. AMBTR	ragweed, giant	Ambrosia trifida L.
3. XANST	cocklebur, common	Xanthium strumarium L.
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. SETFA	foxtail, giant	Setaria faberi Herrm.
6. PANDI	panicum, fall	Panicum dichotomiflorum Michx.

Crop 1: ZEAMX corn, field Variety: P33P69 LL  
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: 27 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: Weir % OM: 2.2 pH: 6.7 CEC: 11  
Texture: Silt loam Fert. Level: P1: 90 LB/A, K: 409 LB/A

#### APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	5-13-04	6-1-04	6-1-04	6-1-04	6-5-04	6-7-04
Time of Day:	10:00	15:00	15:00	15:00	10:00	12:00
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	1-3"W-1	1-3"W-2	3-4"W-1	3-4"W-2	4-8"W
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	71 F	84 F	84 F	84 F	69 F	80 F
% Relative Humidity:	96	32	32	32	95	74
Wind Velocity, Unit:	3 MPH	12 MPH	12 MPH	12 MPH	3 MPH	5 MPH
Soil Moisture:	NORMAL	ABONOR	ABONOR	ABONOR	NORMAL	NORMAL

#### CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V4	ZEAMX V4	ZEAMX V4	ZEAMX V4	ZEAMX V4-V5
Height, Unit:	NA NA	6-8 IN	6-8 IN	6-8 IN	6-8 IN	6-12 IN

#### WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Code:		GGGAN		GGGAN		
Stage(leaves):		4-6		4-6		
Height(inches):		2-4		2-4		
Density:		Low		Low		
Weed 2 Code:		AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Stage(leaves):		6-8	6-8	6-8	6-8	6-10
Height(inches):		2-5	2-5	2-5	4-8	3-8
Density:		Medium	Medium	Medium	Medium	High
Weed 3 Code:		XANST	XANST	XANST	XANST	XANST
Stage(leaves):		4-6	4-8	4-6	2-8	3-8
Height(inches):		2-4	2-4	2-4	1-6	1-4
Density:		Medium	High	Medium	High	Medium
Weed 4 Code:		AMATA		AMATA	AMATA	AMATA
Stage(leaves):		4-6		4-6	3-6	6-8
Height(inches):		1-2		1-2	1-2	1-2
Density:		High		High	Medium	High

#### 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:

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Weed Control in Liberty Link Corn.

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	GGGAN Control Percent	GGGAN Control Percent	GGGAN Control Percent	GGGAN Control Percent	GGGAN Control Percent	AMBTR Control Percent	AMBTR Control Percent	AMBTR Control Percent	AMBTR Control Percent	AMBTR Control Percent
						5-27-04	6-14-04	6-15-04	6-21-04	5-27-04	6-15-04	6-21-04	28 DAT	56 DAT	5-27-04	6-15-04	6-21-04	28 DAT	56 DAT
						14 DA-A	7 DA-F	14 DA-B	14 DA-F	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 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	0	0
2	BALANCE PRO	4	SC	0.047	LB A/A	1.5	FL OZ/A	PRE	A	0	0	0	96	99	99	98	96	85	98
2	LIBERTY	1.67	EC	0.417	LB A/A	32	FL OZ/A	3-4"W-2	E										
2	AATREX	90	WG	0.5	LB A/A	0.56	LB/A	3-4"W-2	E										
2	AMS	100	DRY	3.0	LB A/A	3	LB/A	3-4"W-2	E										
3	BALANCE PRO	4	SC	0.047	LB A/A	1.5	FL OZ/A	PRE	A	0	0	0	98	99	99	98	98	85	97
3	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	E										
3	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	E										
3	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	E										
4	BALANCE PRO	4	SC	0.047	LB A/A	1.5	FL OZ/A	PRE	A	0	0	0	98	99	99	98	99	80	98
4	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	E										
4	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-2	E										
4	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	E										
4	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	E										
5	BALANCE PRO	4	SC	0.078	LB A/A	2.5	FL OZ/A	PRE	A	0	0	0	98	99	99	99	98	98	97
5	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A										
6	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A	0	0	0	98	99	99	99	98	98	96
6	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A										
6	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A										
7	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	0	0	0	99	99	99	98	98	0	98
7	LIBERTY	1.67	EC	0.417	LB A/A	32	FL OZ/A	3-4"W-2	E										
7	AATREX	90	WG	0.5	LB A/A	0.56	LB/A	3-4"W-2	E										
7	AMS	100	DRY	3.0	LB A/A	3	LB/A	3-4"W-2	E										
8	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	0	0	0	99	99	99	98	99	0	96
8	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	E										
8	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-2	E										
8	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	E										
8	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	E										
9	LIBERTY	1.67	EC	0.417	LB A/A	32	FL OZ/A	1-3"W-1	B				99	99	98	96		99	98
9	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	1-3"W-1	B										
9	AMS	100	DRY	3.0	LB A/A	3	LB/A	1-3"W-1	B										
10	DEFINE	4	SC	0.68	LB A/A	21.7	FL OZ/A	PRE	A	0	6	0	99	99	99	98	98	0	99
10	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	3-4"W-2	E										
11	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A	0	5	0	99	99	99	98	96	95	99
11	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	3-4"W-2	E										
12	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D				98	99	98	97		96	93
12	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-1	D										
12	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-1	D										
12	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-1	D										

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Weed Code										GGGAN	GGGAN	GGGAN	GGGAN	GGGAN	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code																			
Rating Data Type										ZEAMX	ZEAMX	ZEAMX	ZEAMX						
Rating Unit										Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control	Control
Rating Date										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Trt-Eval Interval										5-27-04	6-14-04	6-15-04	6-21-04	5-27-04	6-15-04	6-21-04	5-27-04	6-15-04	6-21-04
										14 DA-A	7 DA-F	14 DA-B	14 DA-F	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	14 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code														
13	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D					98	98	95	83		99	98	97	95	
13	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-1	D														
13	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-1	D														
13	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-1	D														
13	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-1	D														
14	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	1-3"W-1	B					99	99	98	98		95	93	93	85	
14	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	1-3"W-1	B														
14	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	1-3"W-1	B														
15	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	1-3"W-1	B					99	99	98	93		99	99	98	97	
15	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	1-3"W-1	B														
15	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	1-3"W-1	B														
15	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	1-3"W-1	B														
15	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	1-3"W-1	B														
16	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	0	0	0	99	99	99	99	99	0	97	95	95	93	
16	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	1-3"W-2	C														
16	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	1-3"W-2	C														
16	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	1-3"W-2	C														
16	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	1-3"W-2	C														
17	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	0	0	0	99	99	99	98	98	99	99	98	97	97	
17	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-2	E														
17	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-2	E														
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-2	E														
17	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	3-4"W-2	E														
18	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	7	7	1	99	99	99	98	98	0	99	99	98	97
18	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F														
19	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	8	8	1	99	99	99	98	98	0	99	99	98	97
19	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F														
19	CALLISTO	4	SC	0.0156	LB A/A	0.5	FL OZ/A	4-8"W	F														
20	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	8	8	3	99	99	99	98	98	0	99	99	98	95
20	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F														
20	CALLISTO	4	SC	0.0234	LB A/A	0.75	FL OZ/A	4-8"W	F														
21	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	9	9	3	99	99	99	98	96	0	99	99	98	97
21	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F														
21	CALLISTO	4	SC	0.0312	LB A/A	1.0	FL OZ/A	4-8"W	F														
22	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D					99	99	98	97		97	96	93	93	
22	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-1	D														
22	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-1	D														
22	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	3-4"W-1	D														
23	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D					98	98	98	98		97	96	93	90	
23	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-1	D														
23	SOY-STIK (MSO)	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-1	D														

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	GGGAN Control Percent	GGGAN Control Percent	GGGAN Control Percent	GGGAN Control Percent	GGGAN Control Percent	AMBTR Control Percent	AMBTR Control Percent	AMBTR Control Percent	AMBTR Control Percent	AMBTR Control Percent	
						5-27-04	6-14-04	6-15-04	6-21-04	5-27-04	6-15-04	6-21-04	6-21-04	28 DAT	56 DAT	14 DA-A	14 DA-B	14 DA-F	28 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code											
24	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D											
24	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-1	D											
24	BASE	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-1	D											
LSD (P=.05)						0.0	3.6	1.4	0.7	1.9	0.7	0.9	1.8	8.0	8.2	1.3	2.2	2.5	11.4	
Replicate F						0.000	1.900	0.959	1.960	5.339	2.482	0.317	0.252	0.096	3.469	3.023	4.546	4.804	2.167	
Replicate Prob(F)						1.0000	0.2295	0.3910	0.1527	0.0104	0.0949	0.7300	0.7783	0.9082	0.0441	0.0586	0.0159	0.0128	0.1263	
Treatment F						0.000	0.700	42.950	12.513	1388.084	7041.918	3986.076	1040.531	51.071	275.999	1809.083	646.599	519.920	24.061	
Treatment Prob(F)						1.0000	0.5855	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code				XANST	XANST	XANST	XANST	XANST	AMATA	AMATA	AMATA	AMATA	AMATA	
Crop Code				Control	Control	Control	Control	Control	Control	Control	Control	Control	Control	
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit				5-27-04	6-15-04	6-21-04	28 DAT	56 DAT	5-27-04	6-15-04	6-21-04	28 DAT	56 DAT	
Rating Date				14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	
Trt-Eval Interval				14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 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
2	BALANCE PRO	4	SC	0.047	LB A/A	1.5	FL OZ/A	PRE	A	67	98	97	94	84
2	LIBERTY	1.67	EC	0.417	LB A/A	32	FL OZ/A	3-4"W-2	E					
2	AATREX	90	WG	0.5	LB A/A	0.56	LB/A	3-4"W-2	E					
2	AMS	100	DRY	3.0	LB A/A	3	LB/A	3-4"W-2	E					
3	BALANCE PRO	4	SC	0.047	LB A/A	1.5	FL OZ/A	PRE	A	75	94	89	73	57
3	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	E					
3	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	E					
3	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	E					
4	BALANCE PRO	4	SC	0.047	LB A/A	1.5	FL OZ/A	PRE	A	75	97	91	83	73
4	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	E					
4	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-2	E					
4	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	E					
4	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	E					
5	BALANCE PRO	4	SC	0.078	LB A/A	2.5	FL OZ/A	PRE	A	93	94	83	94	63
5	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A					
6	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A	89	93	73	93	65
6	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A					
6	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	PRE	A					
7	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	0	98	97	97	94
7	LIBERTY	1.67	EC	0.417	LB A/A	32	FL OZ/A	3-4"W-2	E					
7	AATREX	90	WG	0.5	LB A/A	0.56	LB/A	3-4"W-2	E					
7	AMS	100	DRY	3.0	LB A/A	3	LB/A	3-4"W-2	E					
8	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	0	97	93	85	77
8	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-2	E					
8	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-2	E					
8	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-2	E					
8	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-2	E					
9	LIBERTY	1.67	EC	0.417	LB A/A	32	FL OZ/A	1-3"W-1	B		99	98	98	96
9	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	1-3"W-1	B		99	99	99	99
9	AMS	100	DRY	3.0	LB A/A	3	LB/A	1-3"W-1	B					
10	DEFINE	4	SC	0.68	LB A/A	21.7	FL OZ/A	PRE	A	0	99	99	98	98
10	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	3-4"W-2	E					
11	BALANCE PRO	4	SC	0.07	LB A/A	2.25	FL OZ/A	PRE	A	73	98	98	97	96
11	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	3-4"W-2	E					
12	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D		94	83	73	62
12	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-1	D					
12	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-1	D					
12	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-1	D					

Weed Control in Liberty Link Corn.

Project Code: 04-51E-S120 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code				XANST	XANST	XANST	XANST	XANST	AMATA	AMATA	AMATA	AMATA	AMATA					
Crop Code				Control	Control	Control	Control	Control	Control	Control	Control	Control	Control					
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
Rating Unit				5-27-04	6-15-04	6-21-04	28 DAT	56 DAT	5-27-04	6-15-04	6-21-04	28 DAT	56 DAT					
Rating Date				14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT					
Trt-Eval Interval				14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT	14 DA-A	14 DA-B	14 DA-F	28 DAT	56 DAT					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
13	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D			99	99	98	96		99	99
13	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	3-4"W-1	D									
13	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-1	D									
13	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-1	D									
13	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	3-4"W-1	D									
14	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	1-3"W-1	B			93	93	77	53		0	0
14	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	1-3"W-1	B								0	0
14	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	1-3"W-1	B									
15	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	1-3"W-1	B			98	98	97	94		99	99
15	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	1-3"W-1	B									
15	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	1-3"W-1	B									
15	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	1-3"W-1	B									
15	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	1-3"W-1	B									
16	DEFINE	4	SC	0.375	LB A/A	12	FL OZ/A	PRE	A	0	95	87	63	57	99	99	99	96
16	EQUIP	32	WG	0.03	LB A/A	1.5	OZ/A	1-3"W-2	C									
16	CALLISTO	4	SC	0.047	LB A/A	1.5	FL OZ/A	1-3"W-2	C									
16	MSO CONCENTRATE	100	LIQ	1.5	PT/A	1.5	PT/A	1-3"W-2	C									
16	28% UAN	100	LIQ	1.5	QT/A	1.5	QT/A	1-3"W-2	C									
17	BICEP II MAGNUM	5.5	L	2.9	LB A/A	2.1	QT/A	PRE	A	87	98	98	97	96	99	99	99	98
17	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-2	E									
17	AATREX	90	WG	1.0	LB A/A	1.11	LB/A	3-4"W-2	E									
17	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-2	E									
17	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	3-4"W-2	E									
18	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	99	99	98	95	99	99	99	98
18	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F									
19	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	99	99	98	98	99	99	99	98
19	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F									
19	CALLISTO	4	SC	0.0156	LB A/A	0.5	FL OZ/A	4-8"W	F									
20	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	99	99	98	97	99	99	99	99
20	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F									
20	CALLISTO	4	SC	0.0234	LB A/A	0.75	FL OZ/A	4-8"W	F									
21	DEFINE	4	SC	0.312	LB A/A	10	FL OZ/A	PRE	A	0	99	99	98	98	99	99	99	99
21	BUCTRIL+ATRAZINE	3	L	0.75	LB A/A	2.0	PT/A	4-8"W	F									
21	CALLISTO	4	SC	0.0312	LB A/A	1.0	FL OZ/A	4-8"W	F									
22	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D			95	90	75	58		99	99
22	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-1	D									
22	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-1	D									
22	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	3-4"W-1	D									
23	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D			96	90	80	73		99	99
23	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-1	D									
23	SOY-STIK (MSO)	100	LIQ	1.5	PT/A	1.5	PT/A	3-4"W-1	D									

Weed Control in Liberty Link Corn.

Project Code: 04-51E-S120 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	XANST	AMATA	AMATA	AMATA	AMATA	AMATA
						Control	Control	Control	Control	Control	Control	Control	Control	Control	Control
						Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
						5-27-04	6-15-04	6-21-04	28 DAT	56 DAT	5-27-04	6-15-04	6-21-04	28 DAT	56 DAT
						14 DA-A	14 DA-B	14 DA-F			14 DA-A	14 DA-B	14 DA-F		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
24	OPTION	35	WG	0.0328	LB A/A	1.5	OZ/A	3-4"W-1	D						
24	CALLISTO	4	SC	0.094	LB A/A	3.0	FL OZ/A	3-4"W-1	D	98	94	90	92	99	99
24	BASE	100	LIQ	1.0	% V/V	1	% V/V	3-4"W-1	D						
LSD (P=.05)						13.1	3.6	9.3	9.8	21.8	0.0	0.8	0.8	2.0	1.2
Replicate F						0.899	4.683	2.656	0.095	2.982	0.000	0.741	0.741	1.337	6.202
Replicate Prob(F)						0.4177	0.0142	0.0812	0.9098	0.0608	1.0000	0.4826	0.4826	0.2730	0.0042
Treatment F						82.748	251.257	38.746	37.463	9.424	0.000	9598.445	9598.445	1555.672	4366.745
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Bayer, Van Diest Supply Co.
2. Ratings: CI and WC 7, 14 and 28 DAT, WC 56 DAT; CI at 7 DAT only for application "F".
3. DA-A = Days after PRE application and prior to any postemergence applications.  
 DA-F = Days after 4-8"W application.  
 DA-B = Days after the 1-3"W-1, 1-3"W-2, and 3-4"W-1 applications.  
 Ratings on 6-15-04 were 14 days after the 1-3"W-1, 1-3"W-2, and 3-4"W-1 applications.  
 Ratings on 6-15-04 were also 10 days after the 3-4"W-2 applications, 8 days after the 4-8"W application, and 33 days after the PRE application (for PRE only treatments).  
 Ratings on 6-21-04 were 14 days after the 4-8"W application.  
 Ratings on 6-21-04 were also 20 days after the 1-3"W-1, 1-3"W-2, and 3-4"W-1 applications, 16 days after the 3-4"W-2 application, and 39 days after the PRE application (for PRE only treatments).  
 DAT = Days after treatment.  
 Ratings at 28 DAT were on 6-15-04 for the PRE only treatments (33 DAT), 6-29-04 for the 1-3"W-1, 1-3"W-2, and 3-4"W-1 applications, on 7-2-04 for the 3-4"W-2 application, and on 7-5-04 for the 4-8"W application.  
 Ratings at 56 DAT were on 6-29-04 for the PRE only treatments (47 DAT), 7-27-04 for the 1-3"W-1, 1-3"W-2, and 3-4"W-1 applications, on 7-30-04 for the 3-4"W-2 application, and on 8-2-04 for the 4-8"W application.
4. GGGAN = Annual grasses including SETFA and PANDI.