

Weed Management in Liberty Link plus Roundup Ready Corn - 2.

Project Code: 06-2A-ME100 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: 11-22-06

Objective:

Compare the benefits of residual herbicides in Liberty Link and Roundup Ready corn systems.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	CYPES nutsedge, yellow	Cyperus esculentus L.
3.	XANST cocklebur, common	Xanthium strumarium L.
4.	ABUTH velvetleaf	Abutilon theophrasti Medicus
5.	AMBEL ragweed, common	Ambrosia artemisiifolia L.

Crop 1: ZEAMX corn, field Variety: 33K44
Planting Method: Seeded Planting Date: 5-23-06
Rate: 28000 S/A Depth: 1.5 IN
Row Spacing: 30 IN

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, 2005
Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 1.6 pH: 6.2 CEC: 7
Texture: Silt loam Fert. Level: P1: 93 LB/A, K: 448 LB/A

APPLICATION DESCRIPTION

	A	B
Application Date:	5-23-06	6-5-06
Time of Day:	19:30	12:00
Application Method:	Spray	Spray
Application Timing:	PRE	1-3"W
Applic. Placement:	BROSOI	BROFOL
Air Temp., Unit:	76 F	79 F
% Relative Humidity:	44	40
Wind Velocity, Unit:	2 MPH	3 MPH
Soil Moisture:	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V3
Height, Unit:	NA NA	5-7 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code:		SETFA
Stage (leaves):		1-4
Height (inches):		0.5-3
Density:		High
Weed 2 Code:		CYPES
Stage (leaves):		1-6
Height (inches):		0.5-4
Density:		High
Weed 3 Code:		XANST
Stage (leaves):		2-7
Height (inches):		1-2.5
Density:		High
Weed 4 Code:		ABUTH
Stage (leaves):		2-4
Height (inches):		0.5-2
Density:		Medium
Weed 5 Code:		AMBEL
Stage (leaves):		2-4
Height (inches):		0.5-2
Density:		Low

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

NOTES:

Weed Management in Liberty Link plus Roundup Ready Corn - 2.

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

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Moisture Yield Injury Injury Injury Injury
 Percent bu/A Percent Percent Percent Percent
 10-11-06 10-11-06 6-5-06 6-12-06 6-19-06 7-31-06
 13 DA-A 7 DA-B 14 DA-B 56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Moisture Percent	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent
1	NONTREATED									17.4	38	0	0	0	0
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	17.4	122	0	0	0	0
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
2	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
3	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	17.8	133	0	1	0	0
3	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
3	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
4	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	17.5	133	1	1	0	0
4	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
4	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
4	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
5	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	18.0	140	0	1	0	0
5	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
5	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
6	HARNESS XTRA	5.6	L	1.54	lb ai/a	1.1	qt/a	PRE	A	17.9	119	0	3	0	0
6	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
6	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
7	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	18.5	122	0	3	0	0
7	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
7	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
8	GUARDSMAN MAX	5	L	1.56	lb ai/a	2.5	pt/a	PRE	A	17.6	120	0	2	0	0
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
8	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
9	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	18.0	140	0	1	0	0
9	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
9	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
9	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
10	EPIC	58	WG	0.217	lb ai/a	6	oz/a	PRE	A	18.0	135	0	1	0	0
10	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
10	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
10	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
11	EPIC	58	WG	0.254	lb ai/a	7	oz/a	PRE	A	17.6	146	0	0	0	0
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
11	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
11	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
12	EPIC	58	WG	0.29	lb ai/a	8	oz/a	PRE	A	17.7	134	0	0	0	0
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
12	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
12	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
13	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	18.0	122	0	2	0	0
13	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A						
13	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
13	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
14	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A	18.2	137	0	1	0	0
14	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
14	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
15	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	18.2	131	0	0	0	0
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						
16	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	17.8	124	0	2	0	0
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						

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ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Moisture Yield Injury Injury Injury Injury
 Percent bu/A Percent Percent Percent Percent
 10-11-06 10-11-06 6-5-06 6-12-06 6-19-06 7-31-06
 13 DA-A 7 DA-B 14 DA-B 56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Moisture Percent	ZEAMX Yield bu/A	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent	ZEAMX Injury Percent
17	DEGREE XTRA	4	L	2	lb ai/a	2.0	qt/a	PRE	A	17.7	133	0	0	0	0
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						
18	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	17.7	134	0	2	0	0
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						
19	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	17.9	128	0	0	0	0
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
19	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						
20	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	17.7	153	0	0	0	0
20	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
20	BUCCANEER PLUS	3	SL	0.56	lb ae/a	24	fl oz/a	1-3"	W B						
20	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	1-3"	W B						
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						
LSD (P=.05)										0.75	29.4	0.6	1.2	0.0	0.0
Replicate F										4.420	4.595	0.974	8.512	0.000	0.000
Replicate Prob(F)										0.0188	0.0163	0.3872	0.0009	1.0000	1.0000
Treatment F										1.088	4.900	0.974	5.680	0.000	0.000
Treatment Prob(F)										0.3994	0.0001	0.5092	0.0001	1.0000	1.0000

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Weed Code								SETFA	SETFA	SETFA	SETFA	CYPES	CYPES	CYPES	CYPES	
Crop Code								Control	Control	Control	Control	Control	Control	Control	Control	
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Unit								6-5-06	6-19-06	7-3-06	7-31-06	6-5-06	6-19-06	7-3-06	7-31-06	
Rating Date								13 DA-A	14 DA-B	28 DA-B	56 DA-B	13 DA-A	14 DA-B	28 DA-B	56 DA-B	
Trt-Eval Interval																
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
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	57	98	94	89	60	78	87
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
2	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
3	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	65	98	94	92	65	82	83
3	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
3	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
4	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	94	99	97	95	87	78	83
4	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
4	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
4	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
5	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	75	99	98	96	70	87	90
5	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B							
5	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
6	HARNESS XTRA	5.6	L	1.54	lb ai/a	1.1	qt/a	PRE	A	97	99	99	98	96	94	95
6	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B							
6	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
7	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	96	99	99	99	88	95	96
7	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B							
7	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
8	GUARDSMAN MAX	5	L	1.56	lb ai/a	2.5	pt/a	PRE	A	97	99	98	99	93	96	97
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B							
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B							
8	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B							
9	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	96	99	98	96	78	85	87
9	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
9	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B							
9	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B							
10	EPIC	58	WG	0.217	lb ai/a	6	oz/a	PRE	A	97	99	98	98	83	83	89
10	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
10	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B							
10	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B							
11	EPIC	58	WG	0.254	lb ai/a	7	oz/a	PRE	A	98	99	99	98	80	77	85
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
11	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B							
11	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B							
12	EPIC	58	WG	0.29	lb ai/a	8	oz/a	PRE	A	99	99	99	99	95	85	91
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A							
12	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B							
12	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B							
13	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	99	99	96	99	93	85	92
13	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A							
13	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B							
13	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B							
14	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A	99	99	99	94	96	87	93
14	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B							
14	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B							
15	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	98	99	99	99	94	87	94
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B							
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B							
16	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	98	99	99	99	93	84	92
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B							
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B							

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								SETFA	SETFA	SETFA	SETFA	CYPES	CYPES	CYPES	CYPES		
								Control	Control	Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent		
								6-5-06	6-19-06	7-3-06	7-31-06	6-5-06	6-19-06	7-3-06	7-31-06		
								13 DA-A	14 DA-B	28 DA-B	56 DA-B	13 DA-A	14 DA-B	28 DA-B	56 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
17	DEGREE XTRA	4	L	2	lb ai/a	2.0	qt/a	PRE	A	98	99	98	98	93	87	93	95
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B								
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B								
18	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	53	98	94	93	47	78	87	92
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B								
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B								
19	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	57	98	97	92	53	82	88	99
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B								
19	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B								
20	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	83	98	96	94	83	85	93	99
20	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
20	BUCCANEER PLUS	3	SL	0.56	lb ae/a	24	fl oz/a	1-3"	W B								
20	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	1-3"	W B								
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B								
LSD (P=.05)								7.5	0.6	3.1	2.3	10.1	8.5	7.9	3.6		
Replicate F								0.630	2.871	3.257	2.888	3.067	0.428	0.339	0.663		
Replicate Prob(F)								0.5382	0.0690	0.0495	0.0680	0.0586	0.6547	0.7143	0.5209		
Treatment F								94.868	11984.426	413.138	698.666	44.197	43.852	55.184	294.886		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

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 Investigator: Bryan Young

Weed Code								XANST	XANST	XANST	XANST	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code								Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit								6-5-06	6-19-06	7-3-06	7-31-06	6-5-06	6-19-06	7-3-06	7-31-06
Rating Date								13 DA-A	14 DA-B	28 DA-B	56 DA-B	13 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt-Eval Interval															
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
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	10	95	96	86	73	98
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
2	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
3	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	33	95	96	93	90	99
3	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
3	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
4	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	75	95	93	91	95	99
4	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
4	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
4	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
5	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	0	97	96	95	93	99
5	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
5	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
6	HARNESS XTRA	5.6	L	1.54	lb ai/a	1.1	qt/a	PRE	A	85	97	97	95	85	99
6	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
6	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
7	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	80	97	97	92	90	99
7	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
7	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
8	GUARDSMAN MAX	5	L	1.56	lb ai/a	2.5	pt/a	PRE	A	87	97	97	95	78	99
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B						
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B						
8	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B						
9	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	87	97	97	93	87	99
9	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
9	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
9	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
10	EPIC	58	WG	0.217	lb ai/a	6	oz/a	PRE	A	82	96	97	96	92	98
10	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
10	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
10	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
11	EPIC	58	WG	0.254	lb ai/a	7	oz/a	PRE	A	85	96	96	94	99	99
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
11	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
11	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
12	EPIC	58	WG	0.29	lb ai/a	8	oz/a	PRE	A	86	96	96	95	97	99
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
12	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
12	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
13	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	93	96	95	97	99	98
13	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A						
13	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
13	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
14	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A	93	96	96	95	94	99
14	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B						
14	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B						
15	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	94	95	95	92	97	99
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						
16	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	72	95	96	95	77	98
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B						
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B						

Weed Management in Liberty Link plus Roundup Ready Corn - 2.

Project Code: 06-2A-ME100 Location: Belleville Research Center
 Investigator: Bryan Young

							XANST	XANST	XANST	XANST	ABUTH	ABUTH	ABUTH	ABUTH		
							Control	Control	Control	Control	Control	Control	Control	Control	Control	
							Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
							6-5-06	6-19-06	7-3-06	7-31-06	6-5-06	6-19-06	7-3-06	7-31-06		
							13 DA-A	14 DA-B	28 DA-B	56 DA-B	13 DA-A	14 DA-B	28 DA-B	56 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate Unit	Grow Stg	Appl Code								
17	DEGREE XTRA	4	L	2	lb ai/a	2.0 qt/a	PRE	A	77	96	96	92	80	99	98	99
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	1-3"W	B								
17	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	1-3"W	B								
18	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0 fl oz/a	PRE	A	3	96	96	94	77	99	99	99
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	1-3"W	B								
18	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	1-3"W	B								
19	BALANCE PRO	4	SC	0.047	lb ai/a	1.5 fl oz/a	PRE	A	33	96	96	95	78	98	97	99
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	1-3"W	B								
19	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	1-3"W	B								
20	AATREX	90	WG	1.0	lb ai/a	1.11 lb/a	PRE	A	85	97	98	95	83	99	98	99
20	PRINCEP	90	WG	1.0	lb ai/a	1.11 lb/a	PRE	A								
20	BUCCANEER PLUS	3	SL	0.56	lb ae/a	24 fl oz/a	1-3"W	B								
20	DISTINCT	70	WG	0.131	lb ai/a	3 oz/a	1-3"W	B								
20	AMS	100	DRY	2.0	% w/w	17 lb/100 gal	1-3"W	B								
LSD (P=.05)							13.3	1.8	1.9	2.5	11.2	0.9	1.2	0.0		
Replicate F							1.854	1.587	1.534	0.457	1.393	10.849	11.731	0.000		
Replicate Prob(F)							0.1709	0.2178	0.2288	0.6364	0.2609	0.0002	0.0001	1.0000		
Treatment F							55.995	1189.824	1028.492	580.894	29.396	5020.843	2559.408	0.000		
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	1.0000		

Weed Management in Liberty Link plus Roundup Ready Corn - 2.

Project Code: 06-2A-ME100 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	6-19-06	7-3-06	7-31-06
Trt-Eval Interval	14 DA-B	28 DA-B	56 DA-B

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	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	99	99	99
2	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
2	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
3	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	99	98	99
3	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
3	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
4	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	99	99	99
4	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
4	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
4	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
5	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	99	99	99
5	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
5	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B			
5	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
6	HARNESS XTRA	5.6	L	1.54	lb ai/a	1.1	qt/a	PRE	A	99	99	99
6	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
6	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B			
6	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
7	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	99	99	99
7	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
7	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B			
7	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
8	GUARDSMAN MAX	5	L	1.56	lb ai/a	2.5	pt/a	PRE	A	99	99	99
8	LIBERTY	1.67	EC	0.417	lb ai/a	32	fl oz/a	1-3"	W B			
8	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	1-3"	W B			
8	AMS	100	DRY	3.0	lb ai/a	3	lb/a	1-3"	W B			
9	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	99	99	99
9	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
9	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B			
9	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B			
10	EPIC	58	WG	0.217	lb ai/a	6	oz/a	PRE	A	99	99	99
10	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
10	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B			
10	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B			
11	EPIC	58	WG	0.254	lb ai/a	7	oz/a	PRE	A	99	99	99
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
11	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B			
11	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B			
12	EPIC	58	WG	0.29	lb ai/a	8	oz/a	PRE	A	99	99	99
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
12	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B			
12	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B			
13	EPIC	58	WG	0.181	lb ai/a	5	oz/a	PRE	A	99	99	99
13	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A			
13	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B			
13	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B			
14	VOLLEY ATZ	5.25	L	2.3	lb ai/a	1.75	qt/a	PRE	A	99	99	99
14	BUCCANEER PLUS	3	SL	0.75	lb ae/a	32	fl oz/a	1-3"	W B			
14	ARRAY	100	DRY	1.08	% w/w	9	lb/100 gal	1-3"	W B			
15	STALWART XTRA	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	99	98	99
15	ROUNDUP ORIG MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B			
15	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B			
16	DEGREE XTRA	4	L	1.5	lb ai/a	1.5	qt/a	PRE	A	99	98	99
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"	W B			
16	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"	W B			

Weed Management in Liberty Link plus Roundup Ready Corn - 2.

Project Code: 06-2A-ME100 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	AMBEL	AMBEL	AMBEL
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	6-19-06	7-3-06	7-31-06
Trt-Eval Interval	14 DA-B	28 DA-B	56 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
17	DEGREE XTRA	4	L	2	lb ai/a	2.0	qt/a	PRE	A	99	98	99
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"W	B			
17	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"W	B			
18	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	99	99	99
18	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"W	B			
18	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"W	B			
19	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A	99	99	99
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	1-3"W	B			
19	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"W	B			
20	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A	99	99	99
20	PRINCEP	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A			
20	BUCCANEER PLUS	3	SL	0.56	lb ae/a	24	fl oz/a	1-3"W	B			
20	DISTINCT	70	WG	0.131	lb ai/a	3	oz/a	1-3"W	B			
20	AMS	100	DRY	2.0	% w/w	17	lb/100 gal	1-3"W	B			
LSD (P=.05)										0.3	1.3	0.2
Replicate F										0.487	2.026	1.000
Replicate Prob(F)										0.6181	0.1459	0.3774
Treatment F										42944.082	2252.227	88178.743
Treatment Prob(F)										0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Bayer (DR1), Tenkoz (Rosen's), Sipcam, Monsanto, BASF.
2. CI/WC 14 DA PRE and CI/WC prior to POST; CI 7 DA POST; CI/WC 14, 28 + 56 DA POST.
3. Yield.
4. DA-A = Days after PRE application. DA-B = Days after 1-3"W application.
Ratings on 6-5-06 were also prior to the postemergence application.
5. Harvested 10-11-06, (2) 30 inch rows by 25 ft.