

Weed Management in Liberty Link plus Roundup Ready Corn - 1.

Project Code: 06-50W-M100 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: 12-4-06

Objective:

Compare herbicide programs 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.	ABUTH velvetleaf	Abutilon theophrasti Medicus
4.	AMBTR ragweed, giant	Ambrosia trifida L.
5.	AMATA waterhemp, common	Amaranthus rudis Sauer

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: 27 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 50 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 2.2 pH: 6.3 CEC: 11
Texture: Silt loam Fert. Level: P1: 67 LB/A, K: 376 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-24-06	6-8-06	6-8-06
Time of Day:	9:00	9:00	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	1-3"W	V2-V4
Applic. Placement:	BROSOI	BROFOL	BROFOL
Air Temp., Unit:	70 F	74 F	74 F
% Relative Humidity:	94	86	86
Wind Velocity, Unit:	4 MPH	2-3 MPH	2-3 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V3	ZEAMX V3
Height, Unit:	NA NA	6-8 IN	6-8 IN

WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

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

NOTES:

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Trt	Treatment	Form	Form	Rate	Rate	Prod	Prod	Grow	Appl						
No.	Name	Conc	Type	Unit	Unit	Rate	Unit	Stg	Code	ZEAMX Moisture Percent 10-12-06	ZEAMX Yield bu/A 10-12-06	SETFA Control Percent 6-6-06 14 DAP	SETFA Control Percent 6-22-06 14 DAPO	SETFA Control Percent 7-6-06 28 DAPO	SETFA Control Percent 8-3-06 56 DAPO
1	NONTREATED									16.0	72	0	0	0	0
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	16.2	190	35	98	98	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	16.8	198	65	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	16.8	193	96	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	16.6	205	48	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	17.1	208	93	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	16.9	199	94	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	16.8	202	96	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	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	16.5	203	99	98	98	98
9	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A						
9	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A						
10	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	16.5	196	83	99	98	98
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C						
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
11	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	17.2	202	96	99	99	99
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C						
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
12	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	16.7	188	97	99	99	99
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C						
12	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C						
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
13	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	16.9	196	96	99	99	98
13	ACCENT	75	WG	0.0211	lb ai/a	0.45	oz/a	V2-V4	C						
13	HARMONY GT	50	SG	0.00156	lb ai/a	0.05	oz/a	V2-V4	C						
13	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C						
13	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C						
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C						
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
14	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	17.2	200	93	99	98	99
14	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	V2-V4	C						
14	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C						
14	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C						
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C						
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
15	HARNESS XTRA	6	L	1.88	lb ai/a	2.5	pt/a	PRE	A	17.1	202	97	99	99	99
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C						
15	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Moisture Percent 10-12-06	ZEAMX Yield bu/A 10-12-06	SETFA Control Percent 6-6-06 14 DAP	SETFA Control Percent 6-22-06 14 DAPO	SETFA Control Percent 7-6-06 28 DAPO	SETFA Control Percent 8-3-06 56 DAPO
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	16.9	193	0	99	98	98
16	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	16.8	193	0	99	99	99
17	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C						
17	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	V2-V4	C						
17	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
18	CINCH ATZ	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	16.1	193	97	98	98	98
19	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	16.7	200	97	99	98	98
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A						
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C						
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	V2-V4	C						
19	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
20	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	16.9	202	96	99	99	98
20	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A						
20	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C						
20	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C						
LSD (P=.05)										0.80	18.4	6.3	0.4	0.8	0.9
Replicate F										6.297	4.740	0.309	0.241	3.709	0.755
Replicate Prob(F)										0.0043	0.0145	0.7364	0.7874	0.0338	0.4768
Treatment F										1.428	19.808	271.180	21164.863	6617.734	5087.276
Treatment Prob(F)										0.1714	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code						CYPES	CYPES	CYPES	CYPES	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						6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06	7-6-06	8-3-06
Rating Date						14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO	28 DAPO	56 DAPO
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
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	27	92	89	89
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	43	95	95	96
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	60	92	92	92
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	35	96	94	92
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	72	95	96	96
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	88	99	99	98
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	93	98	98	98
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	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	96	85	86	83
9	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A				
9	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A				
10	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	83	96	96	95
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
11	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	70	97	96	95
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
12	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	62	95	96	96
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
12	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C				
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
13	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	70	95	95	94
13	ACCENT	75	WG	0.0211	lb ai/a	0.45	oz/a	V2-V4	C				
13	HARMONY GT	50	SG	0.00156	lb ai/a	0.05	oz/a	V2-V4	C				
13	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C				
13	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C				
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
14	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	50	95	89	88
14	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	V2-V4	C				
14	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C				
14	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C				
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C				
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
15	HARNESS XTRA	6	L	1.88	lb ai/a	2.5	pt/a	PRE	A	82	97	97	97
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
15	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				

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Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		CYPES	CYPES	CYPES	CYPES	ABUTH	ABUTH	ABUTH	ABUTH	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	
										6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06	
										14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO	
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	0	95	94	94	0	98	98	98			
16	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C											
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	0	94	96	96	0	99	99	99			
17	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C											
17	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	V2-V4	C											
17	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C											
18	CINCH ATZ	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	88	90	94	94	96	92	83	82			
19	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	80	98	98	97	92	98	98	98			
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A											
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C											
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	V2-V4	C											
19	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C											
20	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	90	96	95	95	97	98	98	98			
20	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A											
20	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C											
20	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C											
LSD (P=.05)										14.6	4.3	5.5	6.4	6.3	1.2	1.5	2.4			
Replicate F										4.794	1.127	1.802	0.124	1.872	0.271	0.146	0.852			
Replicate Prob(F)										0.0139	0.3345	0.1788	0.8836	0.1677	0.7641	0.8649	0.4346			
Treatment F										39.685	203.233	123.174	91.265	232.646	2627.569	1819.339	690.223			
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001			

Weed Management in Liberty Link plus Roundup Ready Corn - 1.

Project Code: 06-50W-M100 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	AMATA
Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06
14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO
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
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	38	99	98	93
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	63	98	98	97
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	87	98	98	98
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	60	99	98	98
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	88	99	97	96
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	90	99	99	97
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	93	98	98	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	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	96	98	98	96
9	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A				
9	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A				
10	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	85	99	97	97
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
11	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	90	98	98	96
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
12	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	90	98	97	95
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A				
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
12	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C				
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
13	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	85	98	98	97
13	ACCENT	75	WG	0.0211	lb ai/a	0.45	oz/a	V2-V4	C				
13	HARMONY GT	50	SG	0.00156	lb ai/a	0.05	oz/a	V2-V4	C				
13	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C				
13	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C				
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C				
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
14	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	87	99	99	97
14	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	V2-V4	C				
14	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C				
14	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C				
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C				
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				
15	HARNESS XTRA	6	L	1.88	lb ai/a	2.5	pt/a	PRE	A	83	98	98	96
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C				
15	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C				

Weed Management in Liberty Link plus Roundup Ready Corn - 1.

Project Code: 06-50W-M100 Location: Belleville Research Center
 Investigator: Bryan Young

								AMBTR	AMBTR	AMBTR	AMBTR	AMATA	AMATA	AMATA	AMATA		
								Control	Control	Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent	Percent			
								6-6-06	6-22-06	7-6-06	8-3-06	6-6-06	6-22-06	7-6-06	8-3-06		
								14 DAP	14 DAPO	28 DAPO	56 DAPO	14 DAP	14 DAPO	28 DAPO	56 DAPO		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	0	99	98	96	0	98	96	96
16	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C								
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	0	99	99	98	0	99	99	99
17	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C								
17	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	V2-V4	C								
17	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C								
18	CINCH ATZ	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	92	94	91	90	99	99	99	99
19	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	92	99	98	96	98	99	99	99
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A								
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C								
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	V2-V4	C								
19	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C								
20	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	90	98	97	96	99	99	99	98
20	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A								
20	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C								
20	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C								
LSD (P=.05)								9.4	1.6	3.7	4.3	3.4	0.6	1.4	1.6		
Replicate F								3.384	0.637	0.678	0.436	0.873	4.750	1.605	0.241		
Replicate Prob(F)								0.0444	0.5342	0.5138	0.6498	0.4259	0.0144	0.2142	0.7874		
Treatment F								102.543	1499.346	280.514	208.690	935.871	11603.918	2100.947	1620.331		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Weed Management in Liberty Link plus Roundup Ready Corn - 1.

Project Code: 06-50W-M100 Location: Belleville Research Center
 Investigator: Bryan Young

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

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Injury Injury Injury Injury Injury
 Percent Percent Percent Percent Percent
 6-6-06 6-15-06 6-22-06 7-6-06 8-3-06
 14 DAP 7 DAPO 14 DAPO 28 DAPO 56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Injury Percent 6-6-06 14 DAP	ZEAMX Injury Percent 6-15-06 7 DAPO	ZEAMX Injury Percent 6-22-06 14 DAPO	ZEAMX Injury Percent 7-6-06 28 DAPO	ZEAMX Injury Percent 8-3-06 56 DAPO
1	NONTREATED									0	0	0	0	0
2	BALANCE PRO	4	SC	0.0312	lb ai/a	1.0	fl oz/a	PRE	A	0	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	0	0	0	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	0	0	0	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	0	0	0	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	0	0	0	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	0	0	0	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	0	0	0	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	DPX-E9636	25	WG	0.0234	lb ai/a	1.5	oz/a	PRE	A	0	0	0	0	0
9	BALANCE PRO	4	SC	0.047	lb ai/a	1.5	fl oz/a	PRE	A					
9	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A					
10	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	0	0	0	0	0
10	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C					
10	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
11	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	0	0	0	0	0
11	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
11	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C					
11	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
12	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	0	3	0	0	0
12	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
12	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C					
12	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C					
12	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
13	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	0	1	0	0	0
13	ACCENT	75	WG	0.0211	lb ai/a	0.45	oz/a	V2-V4	C					
13	HARMONY GT	50	SG	0.00156	lb ai/a	0.05	oz/a	V2-V4	C					
13	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C					
13	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C					
13	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C					
13	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
14	CINCH ATZ	5.5	L	1.44	lb ai/a	1.05	qt/a	PRE	A	0	3	0	0	0
14	STEADFAST	75	WG	0.035	lb ai/a	0.75	oz/a	V2-V4	C					
14	CALLISTO	4	SC	0.047	lb ai/a	1.5	fl oz/a	V2-V4	C					
14	AATREX	90	WG	0.5	lb ai/a	8.9	oz/a	V2-V4	C					
14	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	V2-V4	C					
14	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
15	HARNESS XTRA	6	L	1.88	lb ai/a	2.5	pt/a	PRE	A	0	0	0	0	0
15	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C					
15	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					

Weed Management in Liberty Link plus Roundup Ready Corn - 1.

Project Code: 06-50W-M100 Location: Belleville Research Center
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Weed Code
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 Trt-Eval Interval

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX
 Injury Injury Injury Injury Injury
 Percent Percent Percent Percent Percent
 6-6-06 6-15-06 6-22-06 7-6-06 8-3-06
 14 DAP 7 DAPO 14 DAPO 28 DAPO 56 DAPO

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Injury Percent 6-6-06 14 DAP	ZEAMX Injury Percent 6-15-06 7 DAPO	ZEAMX Injury Percent 6-22-06 14 DAPO	ZEAMX Injury Percent 7-6-06 28 DAPO	ZEAMX Injury Percent 8-3-06 56 DAPO
16	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	0	0	0	0	0
16	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
17	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C	0	0	0	0	0
17	DPX-E9636	25	WG	0.0156	lb ai/a	1	oz/a	V2-V4	C					
17	AATREX	90	WG	0.75	lb ai/a	0.83	lb/a	V2-V4	C					
17	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
18	CINCH ATZ	5.5	L	2.9	lb ai/a	2.1	qt/a	PRE	A	0	0	0	0	0
19	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	0	0	0	0	0
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	PRE	A					
19	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C					
19	AATREX	90	WG	1.0	lb ai/a	1.11	lb/a	V2-V4	C					
19	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
20	DPX-E9636	25	WG	0.0156	lb ai/a	1.0	oz/a	PRE	A	0	0	0	0	0
20	AATREX	90	WG	1.5	lb ai/a	1.67	lb/a	PRE	A					
20	ROUNDUP W-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	C					
20	AMS	100	DRY	2.0	lb ai/a	2	lb/a	V2-V4	C					
LSD (P=.05)										0.0	0.5	0.0	0.0	0.0
Replicate F										0.000	1.430	0.000	0.000	0.000
Replicate Prob(F)										1.0000	0.2519	1.0000	1.0000	1.0000
Treatment F										0.000	28.161	0.000	0.000	0.000
Treatment Prob(F)										1.0000	0.0001	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: DuPont, Bayer (DR1).
2. Ratings: CI/WC 14 DAP and CI/WC prior to POST; CI 7 DA POST; CI/WC 14, 28 + 56 DA POST.
3. Yield.
4. DAP = Days after planting. DAPO = Days after postemergence application.
 Ratings at 14 DAP were also 2 days prior to the postemergence applications.
 Ratings at 7, 14, 28 and 56 DAPO were 7, 14, 28 and 56 days after both the 1-3"W and V2-V4 applications (applied the same day).
5. On 6-5-06 CYPES pressure was not uniform across all plots.
6. Harvested 10-12-06, (2) 30 inch row by 24 ft.