

Influence of Row Spacing on Weed Control in Liberty Link Soybean.

Project Code: 07-22-M120 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: 1-23-08

Objective:

To compare the efficacy of weed control programs in Liberty Link soybean with 15 and 30 inch soybean row spacings.

Weed Code	Common Name	Scientific Name
1.	SETFA giant foxtail	Setaria faberi
2.	AMATA common waterhemp	Amaranthus rudis
3.	CHEAL common lambsquarters	Chenopodium album
4.	IPOHE ivyleaf morningglory	Ipomoea hederacea

Crop 1: GLXMA soybean Variety: SG3578NLL
 Planting Method: Seeded Planting Date: 6-1-07
 Rate: 180000 S/A Depth: 1.25 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: ZEAMX, 2006
 Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Clarksdale % OM: 2.1 pH: 6.8 CEC: 10
 Texture: Silt loam Fert. Level: P1: 91 LB/A, K: 293 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G
Application Date:	6-1-07	6-22-07	6-30-07	7-3-07	7-11-07	7-27-07	
Time of Day:	12:00	7:00	6:15	8:15	19:00	7:00	Not applied
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	See comment
Application Timing:	PRE	21DAP	28DAP	32DAP	21DA-B	28DA-C	32DA-D
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	84 F	76 F	65 F	72 F	75 F	73 F	
% Relative Humidity:	60	74	92	76	56	80	
Wind Velocity, Unit:	5 MPH	2-4 MPH	0-2 MPH	0-2 MPH	1-3 MPH	0-2 MPH	
Dew Presence (Y/N):	N	N	Y	Y	N	Y	
Soil Temp., Unit:	78 F	77 F	70 F	66 F	78 F	75 F	
Soil Moisture:	NORMAL	BELNOR	ABONOR	ABONOR	NORMAL	NORMAL	
% Cloud Cover:	100	20	90	5	10	40	

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Crop 1 Code, Stage:	GLXMA NA	GLXMA V2-V3	GLXMA V4-V5	GLXMA V4-V6	GLXMA V8-R1	GLXMA R3	GLXMA NA
Height, Unit:	NA NA	3-7 IN	8-11 IN	8-12 IN	16-22 IN	34-36 IN	NA NA

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Weed 1 Code:		SETFA	SETFA	SETFA	SETFA	SETFA	
Stage (leaves):		1-4	3-7	3-8	1-5	3	
Height (inches):		1-4	2.5-7	3-11	1-4	4-8	
Density:		Medium	Medium	Medium	Medium	Low	
Weed 2 Code:		AMATA	AMATA	AMATA	AMATA	AMATA	
Stage (leaves):		1-8	Coty-12	Coty-18	2-4	6-10	
Height (inches):		1-4	0.5-12	0.5-15	2-4	6-18	
Density:		Medium	Medium	Medium	Medium	Low	
Weed 3 Code:		CHEAL	CHEAL	CHEAL	CHEAL		
Stage (leaves):		2-10	Coty-18	3-22	2-6		
Height (inches):		1-3	0.5-12	3-18	0.5-2.5		
Density:		Low	Low	Low	Low		
Weed 4 Code:		IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	
Stage (leaves):		2-5	Coty-7	Coty-8	Coty-5	Coty-2	
Height (inches):		1-2	1-6	2-6	1-5	1-2	
Density:		Low	Low	Low	Medium	Low	

APPLICATION EQUIPMENT

	A	B	C	D	E	F	G
Appl. Equipment:	CO2 Sprayer	CO2 Sprayer	CO2 Sprayer	CO2 Sprayer	CO2 Sprayer	CO2 Sprayer	CO2 Sprayer
Operating Pressure:	35 PSI	35 PSI	35 PSI	35 PSI	35 PSI	35 PSI	35 PSI
Nozzle Type:	Flat Fan	Flat Fan	Flat Fan	Flat Fan	Flat Fan	Flat Fan	Flat Fan
Nozzle Size:	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA

NOTES:

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Weed Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	Injury	Injury	Injury	Injury	Injury	Injury	Injury	Injury	Injury
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-22-07	6-29-07	7-2-07	7-7-07	7-10-07	7-14-07	7-18-07	7-25-07	8-3-07
Rating Date	0 DA-B	7 DA-B	-1 DA-D	7 DA-C	7 DA-D	14 DA-C	7 DA-E	14 DA-E	7 DA-F
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
1	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
1	NONTREATED																
2	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
2	NONTREATED																
3	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
3	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
3	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
3	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
4	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
4	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
4	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
4	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
5	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
5	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
5	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
5	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
6	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
6	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
6	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
6	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
7	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
7	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
7	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
7	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
8	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
8	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
8	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
8	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
9	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
9	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
9	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
9	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
10	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
10	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
10	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
10	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
11	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
11	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
11	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
11	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DA-B	E								
11	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								
12	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
12	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
12	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
12	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DA-B	E								
12	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								
13	15 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
13	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DAP	B								
13	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
13	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DA-B	E								
13	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								
14	30 INCH ROWS									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a
14	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DAP	B								
14	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
14	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DA-B	E								
14	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								

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Crop Code	Injury	Injury	Injury	Injury	Injury	Injury	Injury	Injury	Injury
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-22-07	6-29-07	7-2-07	7-7-07	7-10-07	7-14-07	7-18-07	7-25-07	8-3-07
Rating Date	0 DA-B	7 DA-B	-1 DA-D	7 DA-C	7 DA-D	14 DA-C	7 DA-E	14 DA-E	7 DA-F
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
15	15 INCH ROWS																		
15	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DAP	C		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
15	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C										
15	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DA-C	F										
15	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F										
16	30 INCH ROWS																		
16	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DAP	C		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
16	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C										
16	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DA-C	F										
16	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F										
17	15 INCH ROWS																		
17	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DAP	C		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
17	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C										
17	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DA-C	F										
17	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F										
18	30 INCH ROWS																		
18	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DAP	C		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
18	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C										
18	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DA-C	F										
18	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F										
19	15 INCH ROWS																		
19	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DAP	D		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
19	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D										
19	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DA-D	G										
19	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G										
20	30 INCH ROWS																		
20	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DAP	D		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
20	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D										
20	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DA-D	G										
20	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G										
21	15 INCH ROWS																		
21	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DAP	D		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
21	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D										
21	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DA-D	G										
21	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G										
22	30 INCH ROWS																		
22	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DAP	D		0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
22	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D										
22	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DA-D	G										
22	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G										
23	15 INCH ROWS										0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
23	NONTREATED																		
24	30 INCH ROWS										0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	
24	NONTREATED																		
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Replicate F										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-22-07	7-2-07	7-25-07	8-3-07	6-22-07	7-2-07	7-25-07	8-3-07
Rating Date	0 DA-B	-1 DA-D	14 DA-E	7 DA-F	0 DA-B	-1 DA-D	14 DA-E	7 DA-F
Trt-Eval Interval								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	15 INCH ROWS									0 d	0 g	0 d	0 d	0 c	0 f	0 d	0 c
1	NONTREATED																
2	30 INCH ROWS									0 d	0 g	0 d	0 d	0 c	0 f	0 d	0 c
2	NONTREATED																
3	15 INCH ROWS									63 ab	98 a	98 a	98 a	70 a	99 a	98 a	98 a
3	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
3	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
3	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
4	30 INCH ROWS									43 c	99 a	96 ab	96 ab	40 b	99 a	96 ab	96 a
4	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
4	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
4	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
5	15 INCH ROWS									73 a	53 cd	93 ab	93 ab	50 ab	25 e	89 abc	89 ab
5	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
5	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
5	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
6	30 INCH ROWS									53 bc	50 d	88 bc	88 bc	70 a	60 cd	98 a	98 a
6	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A								
6	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
6	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
7	15 INCH ROWS									0 d	97 a	94 ab	94 ab	53 ab	98 a	98 a	98 a
7	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
7	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
7	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
8	30 INCH ROWS									0 d	98 a	95 ab	95 ab	47 b	98 a	98 a	98 a
8	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
8	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
8	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
9	15 INCH ROWS									0 d	17 f	81 c	81 c	53 ab	33 e	83 c	83 b
9	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
9	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
9	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
10	30 INCH ROWS									7 d	33 e	96 ab	96 ab	60 ab	57 d	96 ab	96 a
10	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A								
10	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D								
10	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D								
11	15 INCH ROWS										99 a	99 a	99 a		99 a	99 a	99 a
11	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
11	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
11	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DA-B	E								
11	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								
12	30 INCH ROWS										99 a	99 a	99 a		98 a	98 a	98 a
12	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B								
12	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
12	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DA-B	E								
12	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								
13	15 INCH ROWS										99 a	99 a	99 a		99 a	99 a	99 a
13	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DAP	B								
13	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
13	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DA-B	E								
13	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								
14	30 INCH ROWS										98 a	99 a	99 a		99 a	99 a	99 a
14	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DAP	B								
14	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B								
14	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DA-B	E								
14	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E								

Influence of Row Spacing on Weed Control in Liberty Link Soybean.

Project Code: 07-22-M120 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA
Crop Code	Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-22-07	7-2-07	7-25-07	8-3-07	6-22-07	7-2-07	7-25-07	8-3-07
Rating Date	0 DA-B	-1 DA-D	14 DA-E	7 DA-F	0 DA-B	-1 DA-D	14 DA-E	7 DA-F
Trt-Eval Interval								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
15	15 INCH ROWS																	
15	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DAP	C		65 bc	98 a	99 a		68 bcd	98 a	96 a	
15	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C									
15	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DA-C	F									
15	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F									
16	30 INCH ROWS																	
16	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DAP	C		72 b	97 ab	98 ab		70 bc	85 bc	95 a	
16	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C									
16	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DA-C	F									
16	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F									
17	15 INCH ROWS																	
17	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DAP	C		70 b	98 ab	99 a		75 b	99 a	99 a	
17	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C									
17	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DA-C	F									
17	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F									
18	30 INCH ROWS																	
18	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DAP	C		70 b	97 ab	98 a		68 bcd	95 ab	99 a	
18	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C									
18	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DA-C	F									
18	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F									
19	15 INCH ROWS																	
19	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DAP	D			99 a	99 a			99 a	99 a	
19	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D									
19	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DA-D	G									
19	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G									
20	30 INCH ROWS																	
20	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DAP	D			97 ab	97 ab			98 a	98 a	
20	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D									
20	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DA-D	G									
20	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G									
21	15 INCH ROWS																	
21	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DAP	D			99 a	99 a			99 a	99 a	
21	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D									
21	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DA-D	G									
21	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G									
22	30 INCH ROWS																	
22	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DAP	D			98 a	98 a			98 a	98 a	
22	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D									
22	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DA-D	G									
22	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G									
23	15 INCH ROWS										0 d	0 g	0 d	0 d	0 c	0 f	0 d	0 c
23	NONTREATED																	
24	30 INCH ROWS										0 d	0 g	0 d	0 d	0 c	0 f	0 d	0 c
24	NONTREATED																	
LSD (P=.05)											18.4	14.1	10.3	10.3	21.8	11.7	11.4	11.0
Replicate F											0.639	0.606	6.145	6.178	0.893	0.066	4.763	3.065
Replicate Prob(F)											0.5375	0.5509	0.0043	0.0042	0.4268	0.9365	0.0132	0.0563
Treatment F											21.729	62.955	103.686	104.440	15.157	89.697	85.953	92.297
Treatment Prob(F)											0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Influence of Row Spacing on Weed Control in Liberty Link Soybean.

Project Code: 07-22-M120 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	CHEAL	CHEAL	CHEAL	CHEAL	IPOHE	IPOHE	IPOHE
Crop Code	Control	Control	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-22-07	7-2-07	7-25-07	8-3-07	7-2-07	7-25-07	8-3-07
Rating Date	0 DA-B	-1 DA-D	14 DA-E	7 DA-F	-1 DA-D	14 DA-E	7 DA-F
Trt-Eval Interval							

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code							
1	15 INCH ROWS									0 d	0 d	0 b	0 b	0 e	0 d	0 d
1	NONTREATED															
2	30 INCH ROWS									0 d	0 d	0 b	0 b	0 e	0 d	0 d
2	NONTREATED															
3	15 INCH ROWS									90 a	99 a	99 a	99 a	90 ab	73 b	73 b
3	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A							
3	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B							
3	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
4	30 INCH ROWS									70 ab	99 a	99 a	99 a	90 ab	50 c	50 c
4	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A							
4	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B							
4	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
5	15 INCH ROWS									90 a	90 a	99 a	99 a	10 e	96 a	96 a
5	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A							
5	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D							
5	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
6	30 INCH ROWS									73 ab	65 b	99 a	99 a	0 e	96 a	96 a
6	PROWL H2O	3.8	CS	1.43	lb ai/a	3	pt/a	PRE	A							
6	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D							
6	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
7	15 INCH ROWS									33 cd	99 a	99 a	99 a	97 a	98 a	98 a
7	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A							
7	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B							
7	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
8	30 INCH ROWS									45 bc	99 a	99 a	99 a	97 a	95 a	95 a
8	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A							
8	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B							
8	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
9	15 INCH ROWS									50 bc	50 c	99 a	99 a	0 e	99 a	99 a
9	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A							
9	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D							
9	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
10	30 INCH ROWS									40 bc	50 c	99 a	99 a	0 e	96 a	96 a
10	AUTHORITY FIRST	70	WG	0.175	lb ai/a	4	oz/a	PRE	A							
10	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	32DAP	D							
10	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
11	15 INCH ROWS										99 a	99 a	99 a	90 ab	97 a	97 a
11	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B							
11	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
11	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DA-B	E							
11	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E							
12	30 INCH ROWS										99 a	99 a	99 a	90 ab	97 a	97 a
12	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DAP	B							
12	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
12	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	21DA-B	E							
12	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E							
13	15 INCH ROWS										99 a	99 a	99 a	90 ab	99 a	99 a
13	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DAP	B							
13	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
13	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DA-B	E							
13	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E							
14	30 INCH ROWS										99 a	99 a	99 a	92 ab	98 a	98 a
14	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DAP	B							
14	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DAP	B							
14	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	21DA-B	E							
14	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	21DA-B	E							

Influence of Row Spacing on Weed Control in Liberty Link Soybean.

Project Code: 07-22-M120 Location: Belleville Research Center
 Investigator: Bryan Young

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	CHEAL	CHEAL	CHEAL	CHEAL	IPOHE	IPOHE	IPOHE
										Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
										6-22-07	7-2-07	7-25-07	8-3-07	7-2-07	7-25-07	8-3-07
										0 DA-B	-1 DA-D	14 DA-E	7 DA-F	-1 DA-D	14 DA-E	7 DA-F
15	15 INCH ROWS															
15	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DAP	C							
15	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C							
15	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DA-C	F							
15	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F							
16	30 INCH ROWS															
16	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DAP	C							
16	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C							
16	SP102000017385	2.3	SL	0.395	lb ai/a	22	fl oz/a	28DA-C	F							
16	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F							
17	15 INCH ROWS															
17	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DAP	C							
17	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C							
17	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DA-C	F							
17	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F							
18	30 INCH ROWS															
18	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DAP	C							
18	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DAP	C							
18	SP102000017385	2.3	SL	0.52	lb ai/a	29	fl oz/a	28DA-C	F							
18	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	28DA-C	F							
19	15 INCH ROWS															
19	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DAP	D							
19	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
19	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DA-D	G							
19	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G							
20	30 INCH ROWS															
20	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DAP	D							
20	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
20	SP102000017385	2.3	SL	0.77	lb ai/a	43	fl oz/a	32DA-D	G							
20	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G							
21	15 INCH ROWS															
21	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DAP	D							
21	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
21	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DA-D	G							
21	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G							
22	30 INCH ROWS															
22	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DAP	D							
22	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DAP	D							
22	LIBERTY	1.67	EC	0.78	lb ai/a	60	fl oz/a	32DA-D	G							
22	N-PAK AMS	100	LIQ	2.5	% v/v	2.5	% v/v	32DA-D	G							
23	15 INCH ROWS															
23	NONTREATED															
24	30 INCH ROWS															
24	NONTREATED															
LSD (P=.05)										34.2	10.2	0.0	0.0	11.4	10.4	10.5
Replicate F										1.123	0.770	0.000	0.000	0.714	5.098	4.406
Replicate Prob(F)										0.3511	0.4714	1.0000	1.0000	0.4959	0.0100	0.0178
Treatment F										9.518	126.898	0.000	0.000	115.919	104.629	103.377
Treatment Prob(F)										0.0001	0.0001	1.0000	1.0000	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: Bayer.
2. Following the PRE application only 0.08 inches of rainfall was recorded during the next 23 days, thus weed control on June 22, 2007 (prior to the POST treatment) was highly variable.
3. DA-B = Days after 21DAP application. DA-C = Days after 28DAP application. DA-D = Days after 32DAP application. DA-E = Days after 21DA-B application. DA-F = Days after 28DA-C application.
4. Crop reached R5 (crop destruct at R5) prior to the 32DA-D application (G), thus the last application could not be made.
5. Not harvested.