

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

<p>Trial Status: F one-year/final Initiation Date: 5-31-16 Completion Date: 8-30-16</p>	Trial Location
<p>City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221</p>	

Objectives:
Compare preemergence weed control from Fierce, Fierce XLT, and Authority Elite in a Liberty Link soybean system.

Contacts	
<p>Study Director: Karla Gage, Ph.D. Organization: Southern Illinois University Carbondale Address: 1205 Lincoln Drive MC 4415 City+State/Prov: Carbondale, IL Postal Code: 62901 Country: USA</p>	<p>Title: Assistant Professor of Weed Science Phone No.: 618-453-7679 E-mail: kgage@siu.edu</p>

Crop Description	
<p>Crop 1: GLXMA Glycine max Soybean Variety: P37T09L BBCH Scale: BSOY Description: LL</p>	<p>Planting Date: 5-31-16 Planting Method: SEEDED</p>
<p>Planting Rate, Unit: 140000 S/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN</p>	

Pest Description	
<p>Pest 1 Type: W Code: PANDI Panicum dichotomiflorum Michx. Common Name: panicum, fall</p>	
<p>Pest 2 Type: W Code: AMBTR Ambrosia trifida L. Common Name: ragweed, giant</p>	
<p>Pest 3 Type: W Code: ABUTH Abutilon theophrasti Medik. Common Name: velvetleaf</p>	
<p>Pest 4 Type: W Code: AMATA Amaranthus rudis Sauer Common Name: waterhemp, common</p>	

Site and Design							
<p>Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 30 FT Total Plot Length: 30 FT</p>	<p>Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)</p>						
<p>Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block</p>							
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">No.</th> <th style="width: 75%;">Previous Crop</th> <th style="width: 20%;">Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ZEAMD</td> <td>2015</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	ZEAMD	2015
No.	Previous Crop	Year					
1.	ZEAMD	2015					

Maintenance	
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Description										
<p>Description Name: 01_2013 % OM: 2.5 Texture: SIL silt loam pH: 6 Soil Name: Winfield CEC: 6</p>										
Additional Measured Elements										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Element</th> <th style="width: 35%;">Quantity</th> <th style="width: 50%;">Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>58</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>286</td> <td>lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	58	lb/A	K	286	lb/A
Element	Quantity	Unit								
P1	58	lb/A								
K	286	lb/A								

Moisture and Weather Conditions	
<p>Overall Moisture Conditions: NORMAL Closest Weather Station: ICN - Belleville IL</p>	<p>Distance, Unit: 0.5 MI</p>

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-16					7	DAY	32	75	F
2.	4-6-16	0.49	IN	RAIN	rain	1	DAY			
3.	4-8-16					7	DAY	28	71	F
4.	4-10-16	0.97	IN	RAIN	rain	2	DAY			
5.	4-15-16					7	DAY	48	81	F
6.	4-20-16	0.45	IN	RAIN	rain	3	DAY			
7.	4-22-16					7	DAY	47	85	F
8.	4-26-16	1.74	IN	RAIN	rain	2	DAY			
9.	4-29-16					7	DAY	46	75	F
10.	4-29-16	1.94	IN	RAIN	rain	2	DAY			
11.	5-4-16	0.02	IN	RAIN	rain	1	DAY			
12.	5-6-16					7	DAY	44	87	F
13.	5-7-16	0.07	IN	RAIN	rain	1	DAY			
14.	5-9-16	2.12	IN	RAIN	rain	5	DAY			
15.	5-13-16					7	DAY	41	76	F
16.	5-16-16	1.06	IN	RAIN	rain	2	DAY			
17.	5-20-16					7	DAY	51	83	F
18.	5-20-16	0.06	IN	RAIN	rain	1	DAY			
19.	5-25-16	0.68	IN	RAIN	rain	3	DAY			
20.	5-27-16					7	DAY	62	88	F
21.	5-31-16	0.03	IN	RAIN	rain	2	DAY			
22.	6-3-16					7	DAY	55	89	F
23.	6-3-16	0.01	IN	RAIN	rain	1	DAY			
24.	6-4-16	0.72	IN	RAIN	rain	1	DAY			
25.	6-10-16					7	DAY	65	96	F
26.	6-13-16	0.03	IN	RAIN	rain	1	DAY			
27.	6-17-16					7	DAY	67	97	F
28.	6-21-16	0.01	IN	RAIN	rain	1	DAY			
29.	6-24-16					7	DAY	57	95	F
30.	6-25-16	0.02	IN	RAIN	rain	1	DAY			
31.	6-30-16	0.03	IN	RAIN	rain	1	DAY			
32.	7-1-16					7	DAY	60	91	F
33.	7-1-16	2.26	IN	RAIN	rain	4	DAY			
34.	7-6-16	0.32	IN	RAIN	rain	3	DAY			
35.	7-8-16					7	DAY	67	93	F
36.	7-13-16	0.49	IN	RAIN	rain	2	DAY			
37.	7-15-16					7	DAY	68	93	F
38.	7-17-16	0.02	IN	RAIN	rain	1	DAY			
39.	7-19-16	1.47	IN	RAIN	rain	2	DAY			
40.	7-25-16	0.1	IN	RAIN	rain	1	DAY			
41.	7-29-16					7	DAY	69	91	F
42.	7-31-16	0.52	IN	RAIN	rain	3	DAY			
43.	8-3-16	0.75	IN	RAIN	rain	1	DAY			
44.	8-5-16					7	DAY	66	93	F
45.	8-5-16	0.06	IN	RAIN	rain	1	DAY			
46.	8-12-16					7	DAY	68	91	F
47.	8-12-16	4.85	IN	RAIN	rain	5	DAY			
48.	8-19-16					7	DAY	57	93	F
49.	8-23-16	0.02	IN	RAIN	rain	1	DAY			
50.	8-30-16	0.03	IN	RAIN	rain	1	DAY			

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Comment:

Rainfall was recorded on station and provided by Illinois Climate Network.
 Air temperature was recorded at Scott Air Force Base 2.5 miles north and provided by NOAA's National Centers for Environmental Information.
 Air temperatures given are summarized as weekly high and low, detailed weather data is available on request.

Application Description

	A	B	C
Application Date:	6-1-16	6-22-16	7-5-16
Appl. Start Time:	7:40	8:00	12:50
Appl. Stop Time:	8:00	8:25	13:10
Application Method:	Spray	Spray	Spray
Application Timing:	PRE	21DAP	35DAP
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	MCG	KNW	MCG
Air Temperature, Unit:	82 F	82 F	88 F
% Relative Humidity:	67	82	65
Wind Velocity, Unit:	2 MPH	3 MPH	3 MPH
Wind Direction:	W	SSW	SW
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	73 F	80 F	77 F
Soil Moisture:	NORMAL	BELNOR	ABONOR
% Cloud Cover:	25	80	50
Next Moisture Occurred On:	6-4-16	6-30-16	7-6-16
Time to Next Moisture, Unit:	3 DAY	8 DAY	20 HR

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	V2	V5
Stage Minimum, Percent:		V1	V4
Stage Maximum, Percent:		V2	V5
Height, Unit:		4 IN	10 IN
Height Minimum, Maximum:		3 4	7 10

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Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	NA	3	NA
Stage Minimum, Percent:		2	
Stage Maximum, Percent:		4	
Height, Unit:		2 IN	
Height Minimum, Maximum:		1 3	
Density, Unit:		3 FT2	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	6	COTY
Stage Minimum, Percent:		4	COTY
Stage Maximum, Percent:		8	2
Height, Unit:		3 IN	0.5 IN
Height Minimum, Maximum:		2 4	0.5 1.5
Density, Unit:		3 FT2	0.01 FT2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	NA	4	COTY
Stage Minimum, Percent:		1	COTY
Stage Maximum, Percent:		5	4
Height, Unit:		3 IN	0.5 IN
Height Minimum, Maximum:		1 5	0.5 4.5
Density, Unit:		0.5 FT2	3 FT2
Pest 4 Code, Type, Scale:	AMATA W	AMATA W	AMATA W
Stage Majority, Percent:	NA	4	5
Stage Minimum, Percent:		2	4
Stage Maximum, Percent:		6	7
Height, Unit:		1 IN	2 IN
Height Minimum, Maximum:		0.5 3	1 4
Density, Unit:		1 FT2	1 FT2

Application Equipment			
	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA 6-15-16 Injury Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	NONTREATED							0
2	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B	
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C	
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C	
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C	
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C	
3	AUTHORITY ELITE	7	SC	1.37 lb ai/a	25 fl oz/a		PRE A	0 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B	
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C	
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C	
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C	
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C	
4	FIERCE	76	WG	0.143 lb ai/a	3 oz/a		PRE A	0 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B	
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C	
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C	
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C	
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C	
5	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a		PRE A	4 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B	
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C	
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C	
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C	
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C	
6	FIERCE XLT	62.41	WG	0.156 lb ai/a	4 oz/a		PRE A	2 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B	
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C	
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C	
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C	
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C	
7	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE A	0 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B	
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C	
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C	
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C	
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

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Pest Code									GLXMA
Crop Code									6-15-16
Rating Date									Injury
Rating Type									Percent
Rating Unit									14 DA-A
Rating Timing									
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
8	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE	A
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	21DAP	B
	AMS	100	SG	2	% w/w	2.5	lb/a	21DAP	B
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	35DAP	C
	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a	35DAP	C
	AMS	100	SG	2	% w/w	2.5	lb/a	35DAP	C
	NIS	100	SL	0.25	% v/v	0.25	% v/v	35DAP	C
LSD P=.05									2.0
Standard Deviation									1.3
CV									149.38
Replicate F									0.415
Replicate Prob(F)									0.7450
Treatment F									5.488
Treatment Prob(F)									0.0046

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI
							6-22-16 Control Percent 0 DA-B 21 DA-A	6-29-16 Control Percent 7 DA-B	7-5-16 Control Percent 0 DAC 13 DA-B	7-26-16 Control Percent 21 DA-C	8-2-16 Control Percent 28 DA-C	8-16-16 Control Percent 42 DA-C	8-30-16 Control Percent 56 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code					
1	NONTREATED								0	0	0	0	0
2	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B		68 b	60 b	99 a	99 a	99 a
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
3	AUTHORITY ELITE	7	SC	1.37 lb ai/a	25 fl oz/a		PRE A		98 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
4	FIERCE	76	WG	0.143 lb ai/a	3 oz/a		PRE A		84 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
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	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
5	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a		PRE A		79 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
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	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
6	FIERCE XLT	62.41	WG	0.156 lb ai/a	4 oz/a		PRE A		86 a	99 a	98 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
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	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
7	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE A		98 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
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	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						

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Pest Code							PANDI	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI
Crop Code							6-22-16	6-29-16	7-5-16	7-26-16	8-2-16	8-16-16	8-30-16
Rating Date							Control	Control	Control	Control	Control	Control	Control
Rating Type							Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit							0 DA-B	7 DA-B	13 DA-B	21 DA-C	28 DA-C	42 DA-C	56 DA-C
Rating Timing							21 DA-A	7 DA-B	13 DA-B	21 DA-C	28 DA-C	42 DA-C	56 DA-C
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code			
8	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	78 a	98 a	98 a
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		21DAP	B			
	AMS	100	SG	2	% w/w	2.5	lb/a		21DAP	B			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		35DAP	C			
	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a		35DAP	C			
	AMS	100	SG	2	% w/w	2.5	lb/a		35DAP	C			
	NIS	100	SL	0.25	% v/v	0.25	% v/v		35DAP	C			
LSD P=.05							16.1	3.3	8.4	0.3	.	.	.
Standard Deviation							10.7	2.2	5.7	0.2	0.0	0.0	0.0
CV							12.31	2.35	6.11	0.19	0.0	0.0	0.0
Replicate F							1.519	0.264	0.853	1.000	0.000	0.000	0.000
Replicate Prob(F)							0.2503	0.8504	0.4831	0.4155	1.0000	1.0000	1.0000
Treatment F							2.796	112.902	26.347	1.000	0.000	0.000	0.000
Treatment Prob(F)							0.0560	0.0001	0.0001	0.4552	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	
							6-22-16 Control Percent 0 DA-B 21 DA-A	6-29-16 Control Percent 7 DA-B	7-5-16 Control Percent 0 DAC 13 DA-B	7-26-16 Control Percent 21 DA-C	8-2-16 Control Percent 28 DA-C	8-16-16 Control Percent 42 DA-C	8-30-16 Control Percent 56 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	21DAP B		96 c	96 ab	92 c	95 c
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	29 fl oz/a	21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a	2.5 lb/a	6 fl oz/a	35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	6 fl oz/a	35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	0.25 % v/v	35DAP C					
3	AUTHORITY ELITE	7	SC	1.37 lb ai/a	25 fl oz/a	2.5 lb/a	25 fl oz/a	PRE A		0 c	95 c	98 a	96 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	29 fl oz/a	21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a	2.5 lb/a	6 fl oz/a	35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	6 fl oz/a	35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	0.25 % v/v	35DAP C					
4	FIERCE	76	WG	0.143 lb ai/a	3 oz/a	2.5 lb/a	3 oz/a	PRE A		44 b	98 ab	99 a	98 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	29 fl oz/a	21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a	2.5 lb/a	6 fl oz/a	35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	6 fl oz/a	35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	0.25 % v/v	35DAP C					
5	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a	2.5 lb/a	3.75 oz/a	PRE A		54 b	98 ab	99 a	98 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	29 fl oz/a	21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a	2.5 lb/a	6 fl oz/a	35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	6 fl oz/a	35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	0.25 % v/v	35DAP C					
6	FIERCE XLT	62.41	WG	0.156 lb ai/a	4 oz/a	2.5 lb/a	4 oz/a	PRE A		80 a	98 ab	99 a	98 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	29 fl oz/a	21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a	2.5 lb/a	6 fl oz/a	35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	6 fl oz/a	35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	0.25 % v/v	35DAP C					
7	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a	2.5 lb/a	2 pt/a	PRE A		0 c	96 bc	95 b	95 b
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	29 fl oz/a	21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2.5 lb/a	29 fl oz/a	35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a	2.5 lb/a	6 fl oz/a	35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a	2.5 lb/a	6 fl oz/a	35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	0.25 % v/v	35DAP C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Crop Code							6-22-16	6-29-16	7-5-16	7-26-16	8-2-16	8-16-16	8-30-16
Rating Date							Control	Control	Control	Control	Control	Control	Control
Rating Type							Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit							0 DA-B	0 DA-B	0 DAC	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Rating Timing							21 DA-A	7 DA-B	13 DA-B	21 DA-C	28 DA-C	42 DA-C	56 DA-C
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Other Rate	Growth Stage	Appl Code			
8	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	81 a	98 a	98 a
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		21DAP	B			
	AMS	100	SG	2	% w/w	2.5	lb/a		21DAP	B			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		35DAP	C			
	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a		35DAP	C			
	AMS	100	SG	2	% w/w	2.5	lb/a		35DAP	C			
	NIS	100	SL	0.25	% v/v	0.25	% v/v		35DAP	C			
LSD P=.05							19.2	1.9	2.6	1.7	1.3	1.6	1.6
Standard Deviation							12.7	1.3	1.7	1.1	0.8	1.0	1.0
CV							29.54	1.34	1.77	1.16	0.86	1.07	1.07
Replicate F							0.308	0.078	1.234	0.798	2.983	2.718	2.718
Replicate Prob(F)							0.8191	0.9713	0.3266	0.5109	0.0587	0.0751	0.0751
Treatment F							32.703	4.285	2.912	15.462	11.400	3.325	3.325
Treatment Prob(F)							0.0001	0.0074	0.0365	0.0001	0.0001	0.0221	0.0221

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
							6-22-16 Control Percent 0 DA-B 21 DA-A	6-29-16 Control Percent 7 DA-B	7-5-16 Control Percent 0 DAC 13 DA-B	7-26-16 Control Percent 21 DA-C	8-2-16 Control Percent 28 DA-C	8-16-16 Control Percent 42 DA-C	8-30-16 Control Percent 56 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	NONTREATED									0	0	0	0
2	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			21DAP B		96 c	95 c	98 b	99 a
	AMS	100	SG	2 % w/w	2.5 lb/a			21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a			35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a			35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v			35DAP C					
3	AUTHORITY ELITE	7	SC	1.37 lb ai/a	25 fl oz/a			PRE A		20 d	96 c	96 abc	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a			21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a			35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a			35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v			35DAP C					
4	FIERCE	76	WG	0.143 lb ai/a	3 oz/a			PRE A		43 c	98 ab	99 ab	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a			21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a			35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a			35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v			35DAP C					
5	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a			PRE A		68 b	98 ab	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a			21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a			35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a			35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v			35DAP C					
6	FIERCE XLT	62.41	WG	0.156 lb ai/a	4 oz/a			PRE A		90 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a			21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a			35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a			35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v			35DAP C					
7	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a			PRE A		73 b	97 bc	95 bc	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			21DAP B					
	AMS	100	SG	2 % w/w	2.5 lb/a			21DAP B					
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a			35DAP C					
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a			35DAP C					
	AMS	100	SG	2 % w/w	2.5 lb/a			35DAP C					
	NIS	100	SL	0.25 % v/v	0.25 % v/v			35DAP C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH				
Crop Code							6-22-16	6-29-16	7-5-16	7-26-16	8-2-16	8-16-16	8-30-16				
Rating Date							Control	Control	Control	Control	Control	Control	Control				
Rating Type							Percent	Percent	Percent	Percent	Percent	Percent	Percent				
Rating Unit							0 DA-B	0 DA-B	0 DAC	0 DA-C	0 DA-C	0 DA-C	0 DA-C				
Rating Timing							21 DA-A	7 DA-B	13 DA-B	21 DA-C	28 DA-C	42 DA-C	56 DA-C				
Trt-Eval Interval																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code							
8	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	90 a	99 a	98 ab	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		21DAP	B							
	AMS	100	SG	2	% w/w	2.5	lb/a		21DAP	B							
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		35DAP	C							
	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a		35DAP	C							
	AMS	100	SG	2	% w/w	2.5	lb/a		35DAP	C							
	NIS	100	SL	0.25	% v/v	0.25	% v/v		35DAP	C							
	LSD P=.05										12.5	1.5	3.3	0.6	0.3	.	.
	Standard Deviation										8.3	1.0	2.2	0.4	0.2	0.0	0.0
	CV										12.99	1.05	2.29	0.39	0.19	0.0	0.0
	Replicate F										1.194	1.636	0.961	0.243	1.000	0.000	0.000
	Replicate Prob(F)										0.3455	0.2162	0.4326	0.8650	0.4155	1.0000	1.0000
	Treatment F										44.709	6.636	2.755	6.081	1.000	0.000	0.000
	Treatment Prob(F)										0.0001	0.0008	0.0444	0.0013	0.4552	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
							6-22-16	6-29-16	7-5-16	7-26-16	8-2-16	8-16-16	8-30-16
							Control	Control	Control	Control	Control	Control	Control
							Percent	Percent	Percent	Percent	Percent	Percent	Percent
							0 DA-B	0 DA-B	0 DAC	0 DAC	0 DAC	0 DAC	0 DAC
							21 DA-A	7 DA-B	13 DA-B	21 DA-C	28 DA-C	42 DA-C	56 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code					
1	NONTREATED								0	0	0	0	0
2	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B			96 b	90 b	97 b	98 a
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
3	AUTHORITY ELITE	7	SC	1.37 lb ai/a	25 fl oz/a		PRE A		99 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
4	FIERCE	76	WG	0.143 lb ai/a	3 oz/a		PRE A		97 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
5	FIERCE	76	WG	0.178 lb ai/a	3.75 oz/a		PRE A		98 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
6	FIERCE XLT	62.41	WG	0.156 lb ai/a	4 oz/a		PRE A		97 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						
7	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE A		99 a	99 a	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		21DAP B						
	AMS	100	SG	2 % w/w	2.5 lb/a		21DAP B						
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a		35DAP C						
	SELECT MAX	0.97	EC	0.0455 lb ai/a	6 fl oz/a		35DAP C						
	AMS	100	SG	2 % w/w	2.5 lb/a		35DAP C						
	NIS	100	SL	0.25 % v/v	0.25 % v/v		35DAP C						

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
 Investigator: Karla L. Gage, Ph.D.

Pest Code							AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code							6-22-16	6-29-16	7-5-16	7-26-16	8-2-16	8-16-16	8-30-16
Rating Date							Control	Control	Control	Control	Control	Control	Control
Rating Type							Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit							0 DA-B	0 DA-B	0 DAC	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Rating Timing							21 DA-A	7 DA-B	13 DA-B	21 DA-C	28 DA-C	42 DA-C	56 DA-C
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code			
8	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	99 a	99 a	99 a
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		21DAP	B			
	AMS	100	SG	2	% w/w	2.5	lb/a		21DAP	B			
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a		35DAP	C			
	SELECT MAX	0.97	EC	0.0455	lb ai/a	6	fl oz/a		35DAP	C			
	AMS	100	SG	2	% w/w	2.5	lb/a		35DAP	C			
	NIS	100	SL	0.25	% v/v	0.25	% v/v		35DAP	C			
LSD P=.05							2.3	1.3	2.1	1.4	1.1	0.3	0.3
Standard Deviation							1.5	0.9	1.4	1.0	0.8	0.2	0.2
CV							1.52	0.88	1.46	0.96	0.76	0.19	0.19
Replicate F							0.567	0.889	1.000	1.000	1.000	1.000	1.000
Replicate Prob(F)							0.6454	0.4657	0.4155	0.4155	0.4155	0.4155	0.4155
Treatment F							1.946	5.635	21.491	3.947	1.000	1.000	1.000
Treatment Prob(F)							0.1459	0.0019	0.0001	0.0108	0.4552	0.4552	0.4552

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 23,27,31,28,32 because error mean square = 0.

Weed Control in Liberty Link Soybean with Fierce, Fierce XLT or Authority Elite.

Trial ID: 16-1-ME40 Location: Belleville Res. Center Trial Year: 2016
Investigator: Karla L. Gage, Ph.D.

Trial Comments

1. Protocol: Valent (6405).
2. Ratings:
CI 14 DA-A.
WC 21 DA-A prior to B; 14 DA-B prior to C; 21, 28, 42, and 56 DA-C.
Rate burndown and residual control separately if there is any significant lack of control for either following POST applications, else if good control just note if escapes are new emergence.
3. Yield not requested.
4. Rate before spray applications B and C.
5. Liberty applications, spray in the day.
6. Photos not requested.
7. Rainfall following the PRE application A was 0.73 inch over 2 days beginning 3 days later.
Rainfall following the 21DAP application B was 2.61 inch over 9 days beginning 8 days later.
Rainfall following the 35DAP application C was 0.32 over 3 days beginning 20 hours later.
8. Ratings on 6-29-16 at 7 DA-B were not requested but were made to evaluate burndown of weeds, there was no new emergence at this rating date.
Ratings on 7-5-16 at 13 DA-B for ABUTH and AMATA that are lower than the 7 DA-B rating are new emergence, not recovery of sprayed plants.
On 7-26-16 at 21 DA-C soybeans in treatment 2 have not yet canopied, 10-20% stunt/delay versus the other treated plots
On 8-2-16 soybean canopy is very dense and any remaining AMBTR plants are now lying down, thus AMBTR control increased from the previous rating.
On 8-16-16 at 42 DA-C weed control is almost complete in all plots.
On 8-30-16 at 56 DA-C there is no change in weed control from the 42 DA-C rating.
9. Not harvested.