

FMC sales treatments in Liberty Link soybeans

Trial ID: 15 FMCLIBERTY	Location: G-7 EAST END	Trial Year: 2015
Protocol ID: 15 FMCLIBERTY	Investigator: Dr. Mark M. Loux	
Project ID: 2015 FMC Sales Support	Study Director: Bryan Reeb	
	Sponsor Contact: Joe Reed, FMC	

**General Trial Information**

**Study Director:** Bryan Reeb  
**Investigator:** Dr. Mark M. Loux

**Latitude of LL Corner** °: 39.85802 N  
**Longitude of LL Corner** °: 83.67461 W

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

**Contacts**

**Study Director:** Bryan Reeb  
**Investigator:** Dr. Mark M. Loux

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** Credenz 3841 LL  
**Description:** Liberty Link

<b>Planting Rate, Unit:</b> 175000 S/A	<b>Planting Date:</b> 5-4-2015
<b>Depth, Unit:</b> 1 IN	<b>Planting Method:</b> PLANTD planted
<b>Row Spacing, Unit:</b> 15 IN	<b>Planting Equipment:</b> KINZE
<b>Soil Moisture:</b> GOOD good	<b>Emergence Date:</b> 5-11-2015
<b>Seed Bed:</b> MEDIUM medium	

**Pest Description**

**Pest 1 Type:** W **Code:** LAMPU Lamium purpureum  
**Common Name:** Purple deadnettel

**Pest 2 Type:** W **Code:** STEME Stellaria media  
**Common Name:** Common chickweed

**Pest 3 Type:** W **Code:** RANAB Ranunculus abortivus  
**Common Name:** Smallflower buttercup

**Pest 4 Type:** W **Code:** TAROF Taraxacum officinale  
**Common Name:** Common dandelion

**Pest 5 Type:** W **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed

**Pest 6 Type:** W **Code:** ERYRE Erysimum repandum  
**Common Name:** Bushy wallflower

**Pest 7 Type:** W **Code:** VERAG Veronica agrestis  
**Common Name:** Field speedwell

**Pest 8 Type:** W **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

**Site and Design**

<b>Treated Plot Width:</b> 10 FT	<b>Site Type:</b> FIELD field
<b>Treated Plot Length:</b> 30 FT	<b>Experimental Unit:</b> 1 PLOT plot
<b>Treated Plot Area:</b> 300 FT2	<b>Treatments:</b> 10
<b>Replications:</b> 3	<b>Tillage Type:</b> NOTILL no-till
	<b>Study Design:</b> RACOBBL Randomized Complete Block (RCB)

**Soil Description**

<b>Description Name:</b> G-7 East	<b>Texture:</b> SICL silty clay loam
<b>% OM:</b> 2.5	<b>Soil Name:</b> Crosby
<b>pH:</b> 6	<b>Fert. Level:</b> G good
<b>CEC:</b> 17.4	<b>Soil Drainage:</b> F fair

Application Description

	A	B
Application Date:	4-24-2015	5-28-2015
Appl. Start Time:	10:00 AM	8:50 AM
Appl. Stop Time:	10:30 AM	9:50 AM
Application Method:	SPRAY	SPRAY
Application Timing:	7 EPP	V2-V4
Application Placement:	BROSOI	BROFOL
Applied By:	REEB	BARCLAY
Air Temperature, Unit:	69 F	69 F
% Relative Humidity:	51	75
Wind Velocity, Unit:	6 MPH	2.5 MPH
Wind Direction:	N	E
Dew Presence (Y/N):	Y yes	
Soil Temperature, Unit:	41 F	66 F
Soil Moisture:	GOOD	DRY/MOIST
% Cloud Cover:	0	60
Next Moisture Occurred On:	4-25-2015	5-30-2015
Time to Next Moisture, Unit:	1 DAY	2 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		13 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LAMPU W	LAMPU W
Stage Majority, Percent:	65 100	
Diameter, Unit:	6 IN	
Height, Unit:	5 IN	
Height Minimum, Maximum:	3 6	
Density, Unit:	2.33 M2	
Pest 2 Code, Type, Scale:	STEME W	STEME W
Stage Majority, Percent:	65 100	
Diameter, Unit:	12 IN	
Height, Unit:	3 IN	
Height Minimum, Maximum:	1 4	
Density, Unit:	5.33 M2	
Pest 3 Code, Type, Scale:	RANAB W	RANAB W
Stage Majority, Percent:	65 100	
Diameter, Unit:	3 IN	
Height, Unit:	6 IN	
Height Minimum, Maximum:	4 7	
Density, Unit:	0.33 M2	
Pest 4 Code, Type, Scale:	TAROF W	TAROF W
Stage Majority, Percent:	65 100	
Diameter, Unit:	4 IN	
Height, Unit:	2 IN	
Height Minimum, Maximum:	1 3	
Density, Unit:	1.66 M2	
Pest 5 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	12 100	12 100
Stage Minimum, Percent:		12 100
Stage Maximum, Percent:		14 100
Diameter, Unit:	3 IN	
Height, Unit:	0.5 IN	4 IN
Height Minimum, Maximum:	0.5 1	4 8
Pest 6 Code, Type, Scale:	ERYRE W	ERYRE W
Density, Unit:	1.33 M2	
Pest 7 Code, Type, Scale:	VERAG W	VERAG W
Density, Unit:	2.66 M2	
Pest 8 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		12 100
Stage Minimum, Percent:		12 100
Stage Maximum, Percent:		14 100
Height, Unit:		30 IN
Height Minimum, Maximum:		1 4

**Application Equipment**

	<b>A</b>	<b>B</b>
<b>Appl. Equipment:</b>	6' BACKPACK	10' BACKPACK
<b>Equipment Type:</b>	BACCAI	BACCAI
<b>Operation Pressure, Unit:</b>	44 PSI	44 PSI
<b>Nozzle Type:</b>	AIXR	AIXR
<b>Nozzle Size:</b>	11015	11015
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN
<b>Nozzles/Row:</b>	4	6
<b>Boom Length, Unit:</b>	6.67 FT	10 FT
<b>Boom Height, Unit:</b>	20 IN	20 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER
<b>Spray Volume, Unit:</b>	15 gal/ac	15 gal/ac
<b>Mix Size, Unit:</b>	1 liters	2 liters
<b>Propellant:</b>	COMCO2	COMCO2

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 Project ID: 2015 FMC Sales Support Study Director: Bryan Reeb  
 Sponsor Contact: Joe Reed, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	SETFA
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Setaria faberi
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Giant foxtail
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	5-14-2015	5-14-2015	5-14-2015	5-14-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	20 20	20 20	20 20	20 20
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3	4
1	Authority XL	4 oz/a		A	7	EPP	100.0 a	100.0 a	100.0 a	78.3 a
1	2,4-D Ester	16 oz/a		A	7	EPP				
1	Roundup Power Max	32 oz/a		A	7	EPP				
1	N-pak ams	2.25 qt/a		A	7	EPP				
1	Anthem Maxx	2 oz/a		C		EPO v2-v4				
1	Liberty	29 oz/a		C		EPO v2-v4				
1	N-pak ams	2.25 qt/a		C		EPO v2-v4				
2	Authority MAXX	6.4 oz/a		A	7	EPP	100.0 a	95.0 a	100.0 a	73.3 a
2	2,4-D Ester	16 oz/a		A	7	EPP				
2	Roundup Power Max	32 oz/a		A	7	EPP				
2	N-pak ams	2.25 qt/a		A	7	EPP				
2	Anthem Maxx	2 oz/a		C		EPO v2-v4				
2	Liberty	29 oz/a		C		EPO v2-v4				
2	N-pak ams	2.25 qt/a		C		EPO v2-v4				
3	2,4-D Ester	16 oz/a		A	7	EPP	100.0 a	100.0 a	100.0 a	86.7 a
3	Roundup Power Max	32 oz/a		A	7	EPP				
3	N-pak ams	2.25 qt/a		A	7	EPP				
3	Authority XL	4 oz/a		B		ATPL				
3	Authority MAXX	3 oz/a		B		ATPL				
4	Authority MTZ	16 oz/a		A	7	EPP	100.0 a	99.9 a	100.0 a	64.1 ab
4	Aim	1 oz/a		A	7	EPP				
4	Roundup Power Max	32 oz/a		A	7	EPP				
4	N-pak ams	2.25 qt/a		A	7	EPP				
4	Marvel	7.25 oz/a		C		EPO v2-v4				
4	COC	0.6 qt/a		C		EPO v2-v4				

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Missing data estimates are included in columns: Yates=1,2,3,4,5,6,7,8,9,10,11,12  
 Could not calculate LSD (% mean diff) for columns 3 because error mean square = 0.

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	SETFA
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Setaria faberi
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Giant foxtail
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	5-14-2015	5-14-2015	5-14-2015	5-14-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	20 20	20 20	20 20	20 20
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1

Trt No. Name	Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3	4
5	Authority First	6.4 oz/a		A	7	EPP	100.0 a	96.7 a	100.0 a	76.7 a
5	2,4-D Ester	16 oz/a		A	7	EPP				
5	Roundup Power Max	32 oz/a		A	7	EPP				
5	N-pak ams	2.25 qt/a		A	7	EPP				
5	Liberty	29 oz/a		C		EPO v2-v4				
5	Cadet	0.6 oz/a		C		EPO v2-v4				
5	N-pak ams	2.25 qt/a		C		EPO v2-v4				
6	Metribuzin	5 oz/a		A	7	EPP	100.0 a	100.0 a	100.0 a	40.0 b
6	2,4-D Ester	16 oz/a		A	7	EPP				
6	Roundup Power Max	32 oz/a		A	7	EPP				
6	N-pak ams	2.25 qt/a		A	7	EPP				
6	Liberty	29 oz/a		C		EPO v2-v4				
6	N-pak ams	2.25 qt/a		C		EPO v2-v4				
7	OpTill	2 oz/a		A	7	EPP	100.0 a	100.0 a	100.0 a	80.0 a
7	Outlook	10 oz/a		A	7	EPP				
7	2,4-D Ester	16 oz/a		A	7	EPP				
7	Roundup Power Max	32 oz/a		A	7	EPP				
7	N-pak ams	2.25 qt/a		A	7	EPP				
7	Liberty	29 oz/a		C		EPO v2-v4				
7	N-pak ams	2.25 qt/a		C		EPO v2-v4				
8	Valor SX	3 oz/a		A	7	EPP	100.0 a	100.0 a	100.0 a	88.3 a
8	2,4-D Ester	16 oz/a		A	7	EPP				
8	Roundup Power Max	32 oz/a		A	7	EPP				
8	N-pak ams	2.25 qt/a		A	7	EPP				
8	Liberty	29 oz/a		C		EPO v2-v4				
8	N-pak ams	2.25 qt/a		C		EPO v2-v4				
9	Fierce	3 oz/a		A	7	EPP	98.3 b	100.0 a	100.0 a	73.3 a
9	2,4-D Ester	16 oz/a		A	7	EPP				
9	Roundup Power Max	32 oz/a		A	7	EPP				
9	N-pak ams	2.25 qt/a		A	7	EPP				
9	Liberty	29 oz/a		C		EPO v2-v4				
9	N-pak ams	2.25 qt/a		C		EPO v2-v4				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	LAMPU	STEME	RANAB	SETFA
Pest Scientific Name	Lamium purpure>	Stellaria media	Ranunculus abo>	Setaria faberi
Pest Name	Purple deadnet>	Common chickwe>	Smallflower bu>	Giant foxtail
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	5-14-2015	5-14-2015	5-14-2015	5-14-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	20 20	20 20	20 20	20 20
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1
Trt Treatment	Other Other	Appl Appl		
No. Name	Rate Rate	Unit Code	Description	
10 UTC		1		2
			0.0 c	0.0 b
				0.0 b
				0.0 c
LSD P=.05	1.62	5.98	.	27.17
Standard Deviation	0.94	3.47	0.00	15.77
CV	1.05	3.89	0.0	23.87
Grand Mean	89.83	89.16	90.00	66.07
Bartlett's X2	0.0	0.312	0.0	5.291
P(Bartlett's X2)	.	0.576	.	0.726
Skewness	-2.744*	-2.6946*	-2.7485*	-0.9645*
Kurtosis	5.9453*	5.7571*	5.9614*	0.4715
Replicate F	0.944	0.488	0.000	2.365
Replicate Prob(F)	0.4084	0.6223	1.0000	0.1241
Treatment F	3388.352	244.980	0.000	8.752
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	5	6	7	8
	1 Authority XL	4 oz/a		A	7	EPP	100.0 a	53.3 abc	98.3 a	50.0 bc
	1 2,4-D Ester	16 oz/a		A	7	EPP				
	1 Roundup Power Max	32 oz/a		A	7	EPP				
	1 N-pak ams	2.25 qt/a		A	7	EPP				
	1 Anthem Maxx	2 oz/a		C		EPO v2-v4				
	1 Liberty	29 oz/a		C		EPO v2-v4				
	1 N-pak ams	2.25 qt/a		C		EPO v2-v4				
	2 Authority MAXX	6.4 oz/a		A	7	EPP	100.0 a	51.7 bc	100.0 a	50.0 bc
	2 2,4-D Ester	16 oz/a		A	7	EPP				
	2 Roundup Power Max	32 oz/a		A	7	EPP				
	2 N-pak ams	2.25 qt/a		A	7	EPP				
	2 Anthem Maxx	2 oz/a		C		EPO v2-v4				
	2 Liberty	29 oz/a		C		EPO v2-v4				
	2 N-pak ams	2.25 qt/a		C		EPO v2-v4				
	3 2,4-D Ester	16 oz/a		A	7	EPP	100.0 a	78.3 a	90.0 a	63.3 ab
	3 Roundup Power Max	32 oz/a		A	7	EPP				
	3 N-pak ams	2.25 qt/a		A	7	EPP				
	3 Authority XL	4 oz/a		B		ATPL				
	3 Authority MAXX	3 oz/a		B		ATPL				
	4 Authority MTZ	16 oz/a		A	7	EPP	95.9 a	45.5 c	91.6 a	39.4 c
	4 Aim	1 oz/a		A	7	EPP				
	4 Roundup Power Max	32 oz/a		A	7	EPP				
	4 N-pak ams	2.25 qt/a		A	7	EPP				
	4 Marvel	7.25 oz/a		C		EPO v2-v4				
	4 COC	0.6 qt/a		C		EPO v2-v4				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	5-14-2015	5-20-2015	5-20-2015	5-27-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	20 20	26 26	26 26	33 33
Trt-Eval Interval	20 DA-A	26 DA-A	26 DA-A	33 DA-A
Plant-Eval Interval	10 DP-1	16 DP-1	16 DP-1	23 DP-1
Days After Emergence	3 DE-1	9 DE-1	9 DE-1	16 DE-1

Trt No. Name	Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	Description	5	6	7	8
5	Authority First	6.4 oz/a		A	7	EPP	96.7 a	53.3 abc	98.7 a	46.7 bc
5	2,4-D Ester	16 oz/a		A	7	EPP				
5	Roundup Power Max	32 oz/a		A	7	EPP				
5	N-pak ams	2.25 qt/a		A	7	EPP				
5	Liberty	29 oz/a		C		EPO v2-v4				
5	Cadet	0.6 oz/a		C		EPO v2-v4				
5	N-pak ams	2.25 qt/a		C		EPO v2-v4				
6	Metribuzin	5 oz/a		A	7	EPP	96.7 a	6.7 d	90.0 a	0.0 d
6	2,4-D Ester	16 oz/a		A	7	EPP				
6	Roundup Power Max	32 oz/a		A	7	EPP				
6	N-pak ams	2.25 qt/a		A	7	EPP				
6	Liberty	29 oz/a		C		EPO v2-v4				
6	N-pak ams	2.25 qt/a		C		EPO v2-v4				
7	OpTill	2 oz/a		A	7	EPP	100.0 a	71.7 ab	88.3 a	68.3 a
7	Outlook	10 oz/a		A	7	EPP				
7	2,4-D Ester	16 oz/a		A	7	EPP				
7	Roundup Power Max	32 oz/a		A	7	EPP				
7	N-pak ams	2.25 qt/a		A	7	EPP				
7	Liberty	29 oz/a		C		EPO v2-v4				
7	N-pak ams	2.25 qt/a		C		EPO v2-v4				
8	Valor SX	3 oz/a		A	7	EPP	100.0 a	56.7 abc	93.3 a	50.0 bc
8	2,4-D Ester	16 oz/a		A	7	EPP				
8	Roundup Power Max	32 oz/a		A	7	EPP				
8	N-pak ams	2.25 qt/a		A	7	EPP				
8	Liberty	29 oz/a		C		EPO v2-v4				
8	N-pak ams	2.25 qt/a		C		EPO v2-v4				
9	Fierce	3 oz/a		A	7	EPP	60.0 b	50.0 bc	50.0 b	46.7 bc
9	2,4-D Ester	16 oz/a		A	7	EPP				
9	Roundup Power Max	32 oz/a		A	7	EPP				
9	N-pak ams	2.25 qt/a		A	7	EPP				
9	Liberty	29 oz/a		C		EPO v2-v4				
9	N-pak ams	2.25 qt/a		C		EPO v2-v4				



## The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR	SETFA
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Setaria faberi
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	5-14-2015	5-20-2015	5-20-2015	5-27-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	20 20	26 26	26 26	33 33
Trt-Eval Interval	20 DA-A	26 DA-A	26 DA-A	33 DA-A
Plant-Eval Interval	10 DP-1	16 DP-1	16 DP-1	23 DP-1
Days After Emergence	3 DE-1	9 DE-1	9 DE-1	16 DE-1
Trt Treatment	Other	Other	Appl	Appl
No. Name	Rate	Rate	Unit	Code Description
10 UTC				5
	0.0 c	0.0 d	0.0 c	8
LSD P=.05	7.44	25.60	11.94	16.82
Standard Deviation	4.32	14.86	6.93	9.76
CV	5.08	31.81	8.66	23.55
Grand Mean	84.93	46.71	80.03	41.44
Bartlett's X2	0.809	5.286	12.594	2.12
P(Bartlett's X2)	0.847	0.727	0.05*	0.832
Skewness	-2.1379*	-0.3749	-1.8398*	-0.67
Kurtosis	3.392*	-0.6945	2.3311*	-0.2725
Replicate F	1.915	2.749	0.548	0.517
Replicate Prob(F)	0.1778	0.0924	0.5881	0.6054
Treatment F	167.416	8.502	62.190	17.194
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	9	10	11	12
	1 Authority XL	4 oz/a		A	7	EPP	91.7 a	4.0 bc	88.3 ab	97.7 a
	1 2,4-D Ester	16 oz/a		A	7	EPP				
	1 Roundup Power Max	32 oz/a		A	7	EPP				
	1 N-pak ams	2.25 qt/a		A	7	EPP				
	1 Anthem Maxx	2 oz/a		C		EPO v2-v4				
	1 Liberty	29 oz/a		C		EPO v2-v4				
	1 N-pak ams	2.25 qt/a		C		EPO v2-v4				
	2 Authority MAXX	6.4 oz/a		A	7	EPP	96.7 a	5.0 b	94.3 a	100.0 a
	2 2,4-D Ester	16 oz/a		A	7	EPP				
	2 Roundup Power Max	32 oz/a		A	7	EPP				
	2 N-pak ams	2.25 qt/a		A	7	EPP				
	2 Anthem Maxx	2 oz/a		C		EPO v2-v4				
	2 Liberty	29 oz/a		C		EPO v2-v4				
	2 N-pak ams	2.25 qt/a		C		EPO v2-v4				
	3 2,4-D Ester	16 oz/a		A	7	EPP	90.0 a	2.7 bcd	75.0 c	91.7 ab
	3 Roundup Power Max	32 oz/a		A	7	EPP				
	3 N-pak ams	2.25 qt/a		A	7	EPP				
	3 Authority XL	4 oz/a		B		ATPL				
	3 Authority MAXX	3 oz/a		B		ATPL				
	4 Authority MTZ	16 oz/a		A	7	EPP	82.6 ab	8.1 a	41.4 d	95.2 ab
	4 Aim	1 oz/a		A	7	EPP				
	4 Roundup Power Max	32 oz/a		A	7	EPP				
	4 N-pak ams	2.25 qt/a		A	7	EPP				
	4 Marvel	7.25 oz/a		C		EPO v2-v4				
	4 COC	0.6 qt/a		C		EPO v2-v4				

Pest Type	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	AMBTR
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed
Crop Code		GLXMA	
BBCH Scale		BSOY	
Crop Scientific Name		Glycine max	
Crop Name		Soybean	
Crop Variety		Credenz 3841 LL	
Description		LL	
Part Rated		PLANT C	
Rating Date	5-27-2015	6-9-2015	6-9-2015
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	33 33	46 12	46 12
Trt-Eval Interval	33 DA-A		
Plant-Eval Interval	23 DP-1	36 DP-1	36 DP-1
Days After Emergence	16 DE-1	29 DE-1	29 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	9	10	11	12
5	Authority First	6.4 oz/a		A	7	EPP	91.7 a	3.0 bcd	93.3 a	99.3 a
	5 2,4-D Ester	16 oz/a		A	7	EPP				
	5 Roundup Power Max	32 oz/a		A	7	EPP				
	5 N-pak ams	2.25 qt/a		A	7	EPP				
	5 Liberty	29 oz/a		C		EPO v2-v4				
	5 Cadet	0.6 oz/a		C		EPO v2-v4				
	5 N-pak ams	2.25 qt/a		C		EPO v2-v4				
6	Metribuzin	5 oz/a		A	7	EPP	81.7 ab	1.0 cd	88.3 ab	96.7 a
	6 2,4-D Ester	16 oz/a		A	7	EPP				
	6 Roundup Power Max	32 oz/a		A	7	EPP				
	6 N-pak ams	2.25 qt/a		A	7	EPP				
	6 Liberty	29 oz/a		C		EPO v2-v4				
	6 N-pak ams	2.25 qt/a		C		EPO v2-v4				
7	OpTill	2 oz/a		A	7	EPP	85.0 a	0.0 d	86.7 ab	96.7 a
	7 Outlook	10 oz/a		A	7	EPP				
	7 2,4-D Ester	16 oz/a		A	7	EPP				
	7 Roundup Power Max	32 oz/a		A	7	EPP				
	7 N-pak ams	2.25 qt/a		A	7	EPP				
	7 Liberty	29 oz/a		C		EPO v2-v4				
	7 N-pak ams	2.25 qt/a		C		EPO v2-v4				
8	Valor SX	3 oz/a		A	7	EPP	62.4 bc	1.3 cd	85.0 abc	100.0 a
	8 2,4-D Ester	16 oz/a		A	7	EPP				
	8 Roundup Power Max	32 oz/a		A	7	EPP				
	8 N-pak ams	2.25 qt/a		A	7	EPP				
	8 Liberty	29 oz/a		C		EPO v2-v4				
	8 N-pak ams	2.25 qt/a		C		EPO v2-v4				
9	Fierce	3 oz/a		A	7	EPP	43.3 c	0.0 d	78.3 bc	85.0 b
	9 2,4-D Ester	16 oz/a		A	7	EPP				
	9 Roundup Power Max	32 oz/a		A	7	EPP				
	9 N-pak ams	2.25 qt/a		A	7	EPP				
	9 Liberty	29 oz/a		C		EPO v2-v4				
	9 N-pak ams	2.25 qt/a		C		EPO v2-v4				

Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	SETFA	AMBTR	
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Crop Variety		Credeuz 3841 LL		
Description		LL		
Part Rated		PLANT C		
Rating Date	5-27-2015	6-9-2015	6-9-2015	6-9-2015
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	33 33	46 12	46 12	46 12
Trt-Eval Interval	33 DA-A			
Plant-Eval Interval	23 DP-1	36 DP-1	36 DP-1	36 DP-1
Days After Emergence	16 DE-1	29 DE-1	29 DE-1	29 DE-1
Trt Treatment	Other	Other	Appl	Appl
No. Name	Rate	Rate	Unit	Code
10 UTC				Description
	9	10	11	12
	0.0 d	0.0 d	0.0 e	0.0 c
LSD P=.05	21.23	3.03	11.07	10.26
Standard Deviation	12.26	1.76	6.42	5.95
CV	16.92	69.96	8.79	6.91
Grand Mean	72.50	2.51	73.08	86.22
Bartlett's X2	8.022	7.982	8.654	9.279
P(Bartlett's X2)	0.431	0.046*	0.278	0.158
Skewness	-1.3492*	1.0636*	-1.8187*	-2.5249*
Kurtosis	0.8897	-0.0293	2.3276*	5.1243*
Replicate F	0.006	0.152	2.137	0.887
Replicate Prob(F)	0.9943	0.8598	0.1486	0.4299
Treatment F	18.122	6.764	64.825	79.427
Treatment Prob(F)	0.0001	0.0004	0.0001	0.0001

FMC sales treatments in Liberty Link soybeans

Trial ID: 15 FMCLIBERTY	Location: G-7 EAST END	Trial Year: 2015
Protocol ID: 15 FMCLIBERTY	Investigator: Dr. Mark M. Loux	
Project ID: 2015 FMC Sales Support	Study Director: Bryan Reeb	
	Sponsor Contact: Joe Reed, FMC	

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

LAMPU, Lamium purpureum, = US  
STEME, Stellaria media, = US  
RANAB, Ranunculus abortivus, = US  
SETFA, Setaria faberi, = US  
AMBTR, Ambrosia trifida, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Part Rated

PLANT = plant

C = Crop is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

10 DP-1 = 1 GLXMA 5-4-2015

16 DP-1 = 1 GLXMA 5-4-2015

23 DP-1 = 1 GLXMA 5-4-2015

36 DP-1 = 1 GLXMA 5-4-2015