

Purdue Weed Science

FMC - Authority Programs in Enlist Soybean

Trial ID: 20S-MGS-SOY-06 Location: Lafayette Trial Year: 2020
 Protocol ID: 20S-MGS-SOY-06 Investigator (Creator): Dr. Bill Johnson
 Project ID: Study Director: Brent Mansfield
 Sponsor Contact: Nicholas Hustedde - FMC

General Trial Information

Study Director: Brent Mansfield **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor
Discipline: H herbicide
Trial Status: E established **Trial Reliability:** 1 usable data
ARM Trial Created On: 5/26/2020
Initiation Date: 5/24/2020

Trial Location

City: Lafayette **Country:** USA United States
State/Prov.: Indiana IN
Postal Code: 47909
Latitude of LL Corner °: 40.2715041 N
Longitude of LL Corner °: -86.8814403 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Role: STYDIR study director
Study Director: Brent Mansfield **Title:** Research Associate
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** brentmansfield@purdue.edu
City: West Lafayette, IN **Postal Code:** 47907
Role: INVEST investigator
Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** wgj@purdue.edu
City: West Lafayette, IN **Postal Code:** 47907
Role: SPONSR sponsor
Sponsor: Nicholas Hustedde - FMC

Crop Description

Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: 1/25/2021 **Stage Scale:** BBCH
Variety: Stine 32EA12
Attributes: Gly-R and 2,4-D-R
Planting Date: 5/24/2020 **Planting Rate:** 387790 S/ha
Depth: 4.5 cm
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 76 cm **Planting Equipment:** PP plot planter
Soil Temperature: 89 F **Soil Moisture:** SLIWET slightly wet, moist
Emergence Date: 5/28/2020

Pest Description

Pest 1 Type: W **Code:** AMATA **Amaranthus x tamariscinus** **Entry Date:** 1/25/2021
Common Name: Common waterhemp **Stage Scale:** BBCH
Pest 2 Type: W **Code:** SETFA **Setaria faberi** **Entry Date:** 1/25/2021
Common Name: Giant foxtail **Stage Scale:** BBCH

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 25 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 166.75 FT2 **Treatments:** 8 **Tillage Type:** NOTILL no-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: Starks-Fincastle complex
% Sand: 21 **% OM:** 2.2 **Texture:** SIL silt loam
% Silt: 54 **pH:** 6.8
% Clay: 25 **CEC:** 8.3

No.	Date	Moisture Total	Unit
1.	5/2/2020	0.025	CM
2.	5/3/2020	0.585	CM
3.	5/5/2020	0.481	CM
4.	5/6/2020	0.025	CM
5.	5/10/2020	0.101	CM
6.	5/14/2020	0.405	CM
7.	5/15/2020	0.279	CM
8.	5/17/2020	1.497	CM
9.	5/18/2020	0.914	CM
10.	5/19/2020	0.684	CM
11.	5/23/2020	0.178	CM
12.	5/27/2020	0.025	CM
13.	5/28/2020	0.331	CM
14.	6/4/2020	0.33	CM
15.	6/9/2020	0.787	CM
16.	6/20/2020	0.025	CM
17.	6/21/2020	0.075	CM
18.	6/22/2020	0.711	CM
19.	6/23/2020	0.203	CM
20.	6/27/2020	2.769	CM
21.	6/28/2020	0.229	CM
22.	6/29/2020	0.076	CM
23.	6/30/2020	1.829	CM
24.	7/10/2020	0.05	CM
25.	7/11/2020	0.914	CM
26.	7/12/2020	0.66	CM
27.	7/15/2020	0.127	CM
28.	7/16/2020	0.456	CM
29.	7/19/2020	0.051	CM
30.	7/21/2020	1.423	CM
31.	7/22/2020	0.329	CM
32.	7/23/2020	0.178	CM
33.	7/27/2020	1.295	CM
34.	7/30/2020	1.599	CM

Application Description		
	A	B
Application Date	5/26/2020	7/20/2020
Appl. Start Time	12:09 PM	2:30 PM
Appl. Stop Time	12:21 PM	3:00 PM
Interval to Prev. Appl.		55 DAYS
Application Method	SPRAY	SPRAY
Application Timing	A	B
Application Placement	BROFOL	BROFOL
Applied By	M. ZIMMER	B. MANSFIELD
Appl. Entry Date	1/25/2021	1/25/2021
Air Temperature Start, Stop	82, 82 F	81, 81 F
% Relative Humidity Start, Stop	62, 62	60, 60
Wind Velocity+Dir. Start	0.6 MPH, S	4 MPH, WNW
Wind Velocity+Dir. Max	0.6 MPH, S	7 MPH, WNW
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	81 F	79 F
Soil Moisture	NORMAL	NORMAL
% Cloud Cover	95	49

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-2	53
Stage Majority, Percent	00, -	64, -
Stage Minimum, Percent	00, -	60, -
Stage Maximum, Percent	00, -	65, -
Height Average	0 IN	20 IN
Height Minimum, Maximum	0, 0	16, 22

Pest Stage At Each Application		
	A	B
Pest 1 Code, Type, Scale	AMATA, W, BBCH	AMATA, W, BBCH
Stage Majority, Percent	0, -	16, -
Stage Minimum, Percent	0, -	12, -
Stage Maximum, Percent	0, -	18, -
Height Average	0 IN	0.5 IN
Height Minimum, Maximum	0, 0	0.25, 2
Density Average	0 FT2	1 FT2
Density Minimum, Maximum	0, 0	0, 5
Pest 2 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent	0, -	0, -
Stage Minimum, Percent	0, -	0, -
Stage Maximum, Percent	0, -	0, -
Height Average	0 IN	0 IN
Height Minimum, Maximum	0, 0	0, 0
Density Average	0 FT2	0 FT2
Density Minimum, Maximum	0, 0	0, 0

Application Equipment		
	A	B
Appl. Equipment	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR
Operation Pressure	27 PSI	45 PSI
Nozzle Model	XR8002	TT110015
Nozzle Type	FLAFXR	TEEJTU
Nozzle Spacing	20.0 IN	20.0 IN
Nozzles/Row	4.0	4.0
Boom Length	6.67 FT	6.67 FT
Boom Height	17.0 IN	38.0 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Overage	0 mL	0 mL
Mix Size	945.0 mL	945.0 mL
Propellant	COMCO2	COMCO2

Treatment Appl. Comments
Trt No Treatment Application Comment
 5 Anthem Maxx was tank mixed with Liberty and Enlist One for the postemergence application due to low weed emergence following the preemergence herbicide application.

Notes			
Context	Date	By	Notes
STATUS	5/26/2020	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	1/25/2021	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

Purdue Weed Science

FMC - Authority Programs in Enlist Soybean

Trial ID: 20S-MGS-SOY-06 Location: Lafayette Trial Year: 2020
 Protocol ID: 20S-MGS-SOY-06 Investigator (Creator): Dr. Bill Johnson
 Project ID: Study Director: Brent Mansfield
 Sponsor Contact: Nicholas Hustedde - FMC

Pest Type	C, GLXMA		C, GLXMA		W, Weed AMATA	W, Weed SETFA	C, GLXMA		W, Weed AMATA	
Pest Code	BSOY		BSOY		Amaranthus x ta>	Setaria faberi	BSOY		Amaranthus x ta>	
Pest Scientific Name	Glycine max		Glycine max		Common waterhemp	Giant foxtail	Glycine max		Common waterhemp	
Pest Name	Soybean		Soybean		C, GLXMA	C, GLXMA	Soybean		C, GLXMA	
Crop Type, Code	5/28/2020		6/16/2020		C, GLXMA	C, GLXMA	7/7/2020		C, GLXMA	
BBCH Scale	1		1		BSOY	BSOY	12		BSOY	
Crop Scientific Name	PLANT, C		PLANT, C		PLANT, P	PLANT, P	PLANT, C		PLANT, P	
Crop Name	PHYGEN		PHYGEN		CONTRO	CONTRO	PHYGEN		CONTRO	
Rating Date	% , 0, 100		% , 0, 100		% , 0, 100	% , 0, 100	% , 0, 100		% , 0, 100	
Rating Unit/Min/Max	1		1		1	1	1		1	
Number of Subsamples	B. Mansfield		B. Mansfield		B. Mansfield	B. Mansfield	B. Mansfield		B. Mansfield	
Assessed By	1/26/2021		1/25/2021		1/25/2021	1/25/2021	1/25/2021		1/25/2021	
Data Entry Date	4 DAE		21 DAA		21 DAA	21 DAA	42 DAA		42 DAA	
Rating Timing	2, 2		21, 21		21, 21	21, 21	42, 42		42, 42	
Days After First/Last Applic.	Trt-Eval Interval		21 DA-A		21 DA-A	21 DA-A	42 DA-A		42 DA-A	
Trt-Eval Interval	4 DP-1		23 DP-1		23 DP-1	23 DP-1	44 DP-1		44 DP-1	
Plant-Eval Interval	0 DE-1		19 DE-1		19 DE-1	19 DE-1	40 DE-1		40 DE-1	
Days After Emergence	1		2		3	4	5		6	
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code								
1 UNTREATED			0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2 AUTHORITY SUPREME	8 FL OZ/A	A	0.0 -	0.0 -	100.0 -	99.8 -	0.0 -	98.5 a		
LIBERTY	29 FL OZ/A	B								
ENLIST ONE	2 PT/A	B								
AMSOL	2.5 % V/V	B								
3 AUTHORITY EDGE	8 FL OZ/A	A	0.0 -	0.0 -	100.0 -	99.5 -	0.0 -	98.3 a		
LIBERTY	29 FL OZ/A	B								
ENLIST ONE	2 PT/A	B								
AMSOL	2.5 % V/V	B								
4 AUTHORITY EDGE	10 FL OZ/A	A	0.0 -	0.0 -	100.0 -	100.0 -	0.0 -	99.0 a		
LIBERTY	29 FL OZ/A	B								
ENLIST ONE	2 PT/A	B								
AMSOL	2.5 % V/V	B								
5 AUTHORITY EDGE	8 FL OZ/A	A	0.0 -	0.0 -	100.0 -	99.5 -	0.0 -	98.5 a		
LIBERTY	29 FL OZ/A	B								
ENLIST ONE	2 PT/A	B								
AMSOL	2.5 % V/V	B								
ANTHEM MAXX	2.50 FL OZ/A	B								
6 ZIDUA PRO	6 FL OZ/A	A	0.0 -	0.0 -	100.0 -	99.5 -	0.0 -	97.8 a		
LIBERTY	29 FL OZ/A	B								
ENLIST ONE	2 PT/A	B								
AMSOL	2.5 % V/V	B								
7 BOUNDARY	29 FL OZ/A	A	0.0 -	0.0 -	100.0 -	100.0 -	0.0 -	96.5 ab		
LIBERTY	29 FL OZ/A	B								
ENLIST ONE	2 PT/A	B								
AMSOL	2.5 % V/V	B								

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.
 Untreated treatment(s) 1 excluded from analysis.
 Could not calculate LSD (% mean diff) for columns 1,2,3,5,7,9,10,11,12,13,14,15 because error mean square = 0.
 ^Calculated from residual.

Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5	6
8	AUTHORITY FIRST	6.4 OZ/A	A	0.0 -	0.0 -	100.0 -	93.5 -	0.0 -	94.0 b
	LIBERTY	29 FL OZ/A	B						
	ENLIST ONE	2 PT/A	B						
	AMSOL	2.5 % V/V	B						
LSD P=.05				.	.	.	5.15	.	2.58
Standard Deviation				0.00	0.00	0.00	3.47	0.00	1.74
CV				0.0	0.0	0.0	3.51	0.0	1.78
Grand Mean				0.00	0.00	100.00	98.82	0.00	97.50
Levene's F^				.	.	.	1.565	.	0.796
Levene's Prob(F)				.	.	.	0.206	.	0.583
Rank X2				.	.	.	.	.	.
P(Rank X2)				.	.	.	.	.	.
Skewness^				.	.	.	-2.0832*	.	-0.3022
Kurtosis^				.	.	.	9.8223*	.	-0.5964
Replicate F				0.000	0.000	0.000	1.231	0.000	2.444
Replicate Prob(F)				1.0000	1.0000	1.0000	0.3274	1.0000	0.0973
Treatment F				0.000	0.000	0.000	1.849	0.000	4.001
Treatment Prob(F)				1.0000	1.0000	1.0000	0.1457	1.0000	0.0101

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^Calculated from residual.

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8	9	10	11	12
1	UNTREATED				0.0	1.035	0.6	0.0	0.0	0.0
2	AUTHORITY SUPREME LIBERTY ENLIST ONE AMSOL	8 FL OZ/A 29 FL OZ/A 2 PT/A 2.5 % V/V	A B B B		100.0 -	0.023 b	0.0 -	0.0 -	100.0 -	100.0 -
3	AUTHORITY EDGE LIBERTY ENLIST ONE AMSOL	8 FL OZ/A 29 FL OZ/A 2 PT/A 2.5 % V/V	A B B B		100.0 -	0.023 b	0.0 -	0.0 -	100.0 -	100.0 -
4	AUTHORITY EDGE LIBERTY ENLIST ONE AMSOL	10 FL OZ/A 29 FL OZ/A 2 PT/A 2.5 % V/V	A B B B		100.0 -	0.000 b	0.0 -	0.0 -	100.0 -	100.0 -
5	AUTHORITY EDGE LIBERTY ENLIST ONE AMSOL ANTHEM MAXX	8 FL OZ/A 29 FL OZ/A 2 PT/A 2.5 % V/V 2.50 FL OZ/A	A B B B B		100.0 -	0.045 b	0.0 -	0.0 -	100.0 -	100.0 -
6	ZIDUA PRO LIBERTY ENLIST ONE AMSOL	6 FL OZ/A 29 FL OZ/A 2 PT/A 2.5 % V/V	A B B B		100.0 -	0.045 b	0.0 -	0.0 -	100.0 -	100.0 -
7	BOUNDARY LIBERTY ENLIST ONE AMSOL	29 FL OZ/A 29 FL OZ/A 2 PT/A 2.5 % V/V	A B B B		100.0 -	0.045 b	0.0 -	0.0 -	100.0 -	100.0 -

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 1,2,3,5,7,9,10,11,12,13,14,15 because error mean square = 0.
^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	SETFA	AMATA	SETFA	AMATA	SETFA	AMATA		
Pest Scientific Name	Setaria faberi	Amaranthus x ta>	Setaria faberi	Amaranthus x ta>	Setaria faberi	Amaranthus x ta>		
Pest Name	Giant foxtail	Common waterhemp	Giant foxtail	Common waterhemp	Giant foxtail	Common waterhemp		
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA	C, GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Rating Date	7/7/2020	7/20/2020	7/20/2020	8/10/2020	8/10/2020	8/10/2020		
SE Group No.	14	15	16	17	17	18		
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLANT, C	PLANT, P	PLANT, P		
Rating Type	CONTRO	COUPLA	COUPLA	PHYGEN	CONTRO	CONTRO		
Rating Unit/Min/Max	%, 0, 100	/m2, -, -	/m2, -, -	%, 0, 100	%, 0, 100	%, 0, 100		
Number of Subsamples	1	1	1	1	1	1		
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield	B. Mansfield		
Data Entry Date	1/25/2021	1/25/2021	1/25/2021	1/25/2021	1/25/2021	1/25/2021		
Rating Timing	42 DAA	0 DAB	0 DAB	21 DAB	21 DAB	21 DAB		
Days After First/Last Applic.	42, 42	55, 55	55, 55	76, 21	76, 21	76, 21		
Trt-Eval Interval	42 DA-A	55 DA-A	55 DA-A	76 DA-A	76 DA-A	76 DA-A		
Plant-Eval Interval	44 DP-1	57 DP-1	57 DP-1	78 DP-1	78 DP-1	78 DP-1		
Days After Emergence	40 DE-1	53 DE-1	53 DE-1	74 DE-1	74 DE-1	74 DE-1		
Trt Treatment No. Name	Rate	Appl Code	7	8	9	10	11	12
8 AUTHORITY FIRST	6.4 OZ/A	A	100.0 -	0.180 a	0.0 -	0.0 -	100.0 -	100.0 -
LIBERTY	29 FL OZ/A	B						
ENLIST ONE	2 PT/A	B						
AMSOL	2.5 % V/V	B						
LSD P=.05	.	.	.	0.0871
Standard Deviation	0.00	0.0586	0.00	0.00	0.00	0.00	0.00	0.00
CV	0.0	114.03	0.0	0.0	0.0	0.0	0.0	0.0
Grand Mean	100.00	0.0514	0.00	0.00	0.00	100.00	100.00	100.00
Levene's F^	.	0.835
Levene's Prob(F)	.	0.556
Rank X2
P(Rank X2)
Skewness^	.	0.604
Kurtosis^	.	0.1965
Replicate F	0.000	0.673	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)	1.0000	0.5797	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F	0.000	4.065	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)	1.0000	0.0095	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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^Calculated from residual.

Pest Type		W, Weed	W, Weed
Pest Code		AMATA	SETFA
Pest Scientific Name		Amaranthus x ta>	Setaria faberi
Pest Name		Common waterhemp	Giant foxtail
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	8/31/2020	8/31/2020	8/31/2020
SE Group No.	19	19	20
Part Rated	PLANT, C	PLANT, P	PLANT, P
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield
Data Entry Date	1/25/2021	1/25/2021	1/25/2021
Rating Timing	42 DAB	42 DAB	42 DAB
Days After First/Last Applic.	97, 42	97, 42	97, 42
Trt-Eval Interval		97 DA-A	97 DA-A
Plant-Eval Interval	99 DP-1	99 DP-1	99 DP-1
Days After Emergence	95 DE-1	95 DE-1	95 DE-1
Trt No.	Treatment	Rate	Appl
	Name	Rate Unit	Code
			13
			14
			15
1	UNTREATED		0.0
2	AUTHORITY SUPREME	8 FL OZ/A A	0.0 -
	LIBERTY	29 FL OZ/A B	100.0 -
	ENLIST ONE	2 PT/A B	
	AMSOL	2.5 % V/V B	100.0 -
3	AUTHORITY EDGE	8 FL OZ/A A	0.0 -
	LIBERTY	29 FL OZ/A B	100.0 -
	ENLIST ONE	2 PT/A B	
	AMSOL	2.5 % V/V B	100.0 -
4	AUTHORITY EDGE	10 FL OZ/A A	0.0 -
	LIBERTY	29 FL OZ/A B	100.0 -
	ENLIST ONE	2 PT/A B	
	AMSOL	2.5 % V/V B	100.0 -
5	AUTHORITY EDGE	8 FL OZ/A A	0.0 -
	LIBERTY	29 FL OZ/A B	100.0 -
	ENLIST ONE	2 PT/A B	
	AMSOL	2.5 % V/V B	100.0 -
	ANTHEM MAXX	2.50 FL OZ/A B	
6	ZIDUA PRO	6 FL OZ/A A	0.0 -
	LIBERTY	29 FL OZ/A B	100.0 -
	ENLIST ONE	2 PT/A B	
	AMSOL	2.5 % V/V B	100.0 -
7	BOUNDARY	29 FL OZ/A A	0.0 -
	LIBERTY	29 FL OZ/A B	100.0 -
	ENLIST ONE	2 PT/A B	
	AMSOL	2.5 % V/V B	100.0 -

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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns 1,2,3,5,7,9,10,11,12,13,14,15 because error mean square = 0.

^Calculated from residual.

Pest Type		W, Weed	W, Weed
Pest Code		AMATA	SETFA
Pest Scientific Name		Amaranthus x ta>	Setaria faberi
Pest Name		Common waterhemp	Giant foxtail
Crop Type, Code	C, GLXMA	C, GLXMA	C, GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Rating Date	8/31/2020	8/31/2020	8/31/2020
SE Group No.	19	19	20
Part Rated	PLANT, C	PLANT, P	PLANT, P
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100
Number of Subsamples	1	1	1
Assessed By	B. Mansfield	B. Mansfield	B. Mansfield
Data Entry Date	1/25/2021	1/25/2021	1/25/2021
Rating Timing	42 DAB	42 DAB	42 DAB
Days After First/Last Applic.	97, 42	97, 42	97, 42
Trt-Eval Interval		97 DA-A	97 DA-A
Plant-Eval Interval	99 DP-1	99 DP-1	99 DP-1
Days After Emergence	95 DE-1	95 DE-1	95 DE-1
Trt No.	Treatment	Rate	Appl
	Name	Rate Unit	Code
8	AUTHORITY FIRST	6.4 OZ/A	A
	LIBERTY	29 FL OZ/A	B
	ENLIST ONE	2 PT/A	B
	AMSOL	2.5 % V/V	B
LSD P=.05			
Standard Deviation	0.00	0.00	0.00
CV	0.0	0.0	0.0
Grand Mean	0.00	100.00	100.00
Levene's F^	.	.	.
Levene's Prob(F)	.	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness^	.	.	.
Kurtosis^	.	.	.
Replicate F	0.000	0.000	0.000
Replicate Prob(F)	1.0000	1.0000	1.0000
Treatment F	0.000	0.000	0.000
Treatment Prob(F)	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.

Untreated treatment(s) 1 excluded from analysis.

Could not calculate LSD (% mean diff) for columns 1,2,3,5,7,9,10,11,12,13,14,15 because error mean square = 0.

^Calculated from residual.

Purdue Weed Science

FMC - Authority Programs in Enlist Soybean

Trial ID: 20S-MGS-SOY-06	Location: Lafayette	Trial Year: 2020
Protocol ID: 20S-MGS-SOY-06	Investigator (Creator): Dr. Bill Johnson	
Project ID:	Study Director: Brent Mansfield	
	Sponsor Contact: Nicholas Hustedde - FMC	

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMATA, Amaranthus x tamariscinus, Common waterhemp = US

SETFA, Setaria faberi, Giant foxtail = US

Crop Type Code

C = EPP0 species (Bayer) codes

GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLANT = plant

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

COUPLA = count - plant / emergence - objective

Rating Unit/Min/Max

%, 0, 100 = percent

/m2, , = per square meter

Plant-Eval Interval

4 DP-1 = 1 GLXMA 5/24/2020

23 DP-1 = 1 GLXMA 5/24/2020

44 DP-1 = 1 GLXMA 5/24/2020

57 DP-1 = 1 GLXMA 5/24/2020

78 DP-1 = 1 GLXMA 5/24/2020

99 DP-1 = 1 GLXMA 5/24/2020