

# The Ohio State University

**FMC Soybean Residual Weed Control with Authority Supreme/Edge and Anthem Maxx**

Trial ID: 21FMCSOY Location: Trial Year: 2021  
 Protocol ID: USA-21-754 Investigator (Creator): Dr. Mark M. Loux  
 Project ID: USA-21-754 Study Director:  
 Sponsor Contact:

**Discipline:** H herbicide  
**Trial Status:** E established  
**ARM Trial Created On:** Mar-30-2021  
**Initiation Date:** May-15-2021

## Trial Location

**Address (Location):** 7721 South Charleston Pike  
**City:** South Charleston **Country:** USA United States  
**State/Prov.:** Ohio  
**Postal Code:** 45368

**Latitude of LL Corner °:** 39.85955 N  
**Longitude of LL Corner °:** -83.67562 W  
**Altitude of LL Corner:** 1030.00 FT

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

## Crop Description

**Crop 1:** C GLXMA Glycine max Soybean **BBCH Scale:** BSOY  
**Entry Date:** May-17-2021 **Stage Scale:** BBCH  
**Variety:** Pioneer P34T21SE  
**Attributes:** 2,4-D Choline, Glyphosate, Glufosinate Tol  
**Planting Date:** May-15-2021 **Planting Rate:** 175000 S/A  
**Depth:** 1.5 IN  
**Rows per Plot:** 8 **Planting Method:** PLANTD planted  
**Row Spacing:** 15 IN **Planting Equipment:** FE field equipment  
**Seed Bed:** MEDIUM medium  
**Soil Temperature:** 60 F **Soil Moisture:** NORMAL normal, adequate  
**Emergence Date:** Jun-1-2021

## Pest Description

**Pest 1 Type:** W **Code:** SETFA *Setaria faberi* **Entry Date:** May-17-2021  
**Common Name:** Giant foxtail **Stage Scale:** BBCH

**Pest 2 Type:** W **Code:** ECHCG *Echinochloa crus-galli* **Entry Date:** Jun-9-2021  
**Common Name:** Common barnyard grass **Stage Scale:** BBCH

**Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** Jun-9-2021  
**Common Name:** Giant ragweed **Stage Scale:** BBCH

## Site and Design

**Treated Plot Width:** 6.67 FT **Site Type:** FIELD field  
**Treated Plot Length:** 30 FT **Experimental Unit:** 1 PLOT plot  
**Treated Plot Area:** 200.1 FT<sup>2</sup> **Treatments:** 10 **Tillage Type:** CONTIL conventional-till  
**Replications:** 4 **Study Design:** RACOB L Randomized Complete Block (RCB)

## Previous

**No. Crop Year**  
 1. CORN 2020

## Soil Description

**Description Name:** G-6  
**% Sand:** 32 **% OM:** 2.2 **Texture:** SICL silty clay loam  
**% Silt:** 53 **pH:** 5.9 **Soil Name:** Kokomo  
**% Clay:** 15 **CEC:** 14 **Fert. Level:** G good  
 g o o d

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## Application Description

	A	B
Application Date	May-15-2021	Jun-8-2021
Appl. Start Time	3:23 PM	11:30 AM
Appl. Stop Time	4:30 AM	11:35 AM
Interval to Prev. Appl.		24 DAYS
Application Method	SPRAY	SPRAY
Application Timing	PRE	EPO
Application Placement	BROFOL	BROFOL
Applied By	ESSMAN	Dobbels
Appl. Entry Date	May-17-2021	Jun-9-2021
Air Temperature Start, Stop	72 72 F	78 78 F
% Relative Humidity Start, Stop	22 11	80 80
Wind Velocity+Dir. Start	5.2 MPH N	6 MPH SW
Wind Velocity+Dir. Stop	5.2 MPH N	6 MPH SW
Wind Velocity+Dir. Max	5.2 MPH N	6 MPH SW
Wet Leaves (Y/N)	N no	N no
Soil Temperature	63 F	74 F
Soil Moisture	NORMAL	NORMAL
Soil Surface Condition	MEDIUM	MEDIUM
% Cloud Cover	25	80
Next Moisture Occurred On	May-17-2021	Jun-9-2021
Time to Next Moisture	40.8 HR	1.0 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	0.79 IN	0.26 IN

## Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale	GLXMA	BSOY	GLXMA	BSOY
Days after Emergence	-17		7	
Stage Majority, Percent	00	100	13	100
Height Average			3	IN
Height Minimum, Maximum			2	3

## Pest Stage At Each Application

	A			B		
Pest 1 Code, Type, Scale	SETFA	W	BBCH	SETFA	W	BBCH
Stage Majority, Percent				13		90
Stage Minimum, Percent				12		10
Stage Maximum, Percent				13		90
Height Average				5		IN
Height Minimum, Maximum				4		6
Density Average				235		PLA/m2
Density Minimum, Maximum				198		325
Pest 2 Code, Type, Scale	ECHCG	W	BBCH	ECHCG	W	BBCH
Stage Majority, Percent				11		100
Height Average				1		IN
Height Minimum, Maximum				0.5		1
Density Average				75		PLA/m2
Density Minimum, Maximum				35		89
Pest 3 Code, Type, Scale	AMBTR	W	BBCH	AMBTR	W	BBCH
Stage Majority, Percent				6		60
Stage Minimum, Percent				12		10
Stage Maximum, Percent				18		10
Height Average				6		IN
Height Minimum, Maximum				4		8
Density Average				8		PLA/m2
Density Minimum, Maximum				6		12

## Application Equipment

	A		B	
Appl. Equipment	6' TTI		10' TTI	
Equipment Type	BACCAI		BACCAI	
Operation Pressure	44 PSI		44 PSI	
Nozzle Model	110015		110015	
Nozzle Type	TTI		TTI	
Nozzle Spacing	18 IN		18 IN	
Boom Length	6.67 FT		10 FT	
Boom Height	20 IN		20 IN	
Ground Speed	3 MPH		3 MPH	
Carrier	WATER		WATER	
Application Amount	15 GAL/AC		15 GAL/AC	
Mix Size	1 L		2 L	
Propellant	COMCO2		COMCO2	
Tank Mix (Y/N)			Y yes	

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    Sponsor Contact:

**Notes**

**Context**      **Date**      **By**      **Notes**  
 STATUS Mar-30-2021 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'S' during trial creation.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	AMARE	ABUTH	CONSS			
Pest Name	Giant foxtail	Giant common lambsqua>	ragweed	Redroot pigweed	velvetleaf	Morningglor y			
Crop Type, Code									
Crop Name									
Rating Date	Jun-10-2021	Jun-10-2021	Jun-10-2021	Jun-10-2021	Jun-10-2021	Jun-10-2021			
Part Rated									
Rating Type	COUNT	COUNT	COUNT	COUNT	COUNT	COUNT			
Rating Unit/Min/Max									
Number of Subsamples	1	1	1	1	1	1			
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021			
Rating Timing									
Days After First/Last Applic.	26 2	26 2	26 2	26 2	26 2	26 2			
Trt-Eval Interval	26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1	9 DE-1			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Rate	Appl	1*	2*	3*	4*	5*	6*	
No. Name	Rate	Unit	Code	dAS	dAL	dAA			
1 UTC				314 a	3 -	3 cd	1	2 a	0 -
2 Authority Supreme	0.26 lb ai/a	A		168 ab	2 -	1 d	0 -	1 a	1 -
3 Authority Supreme	0.228 lb ai/a	A		127 ab	4 -	2 d	0 -	1 ab	1 -
Metribuzin	0.234 lb ai/a	A							
4 Authority Supreme	0.211 lb ai/a	A		114 ab	4 -	1 d	0 -	0 b	0 -
Anthem Maxx	0.084 lb ai/a	B							
Enlist Duo	1.9 lb ai/a	B							
N Pak AMS	2.5 % v/v	B							
5 Boundary	1.47 lb ai/a	A		91 b	4 -	4 bcd	0 -	2 a	1 -
6 Zidua Pro	0.192 lb ai/a	A		174 ab	9 -	1 d	0 -	0 ab	1 -
7 Kyber	0.33 lb ai/a	A		104 b	5 -	0 d	0 -	0 ab	1 -
8 Anthem Maxx	0.134 lb ai/a	A		130 ab	4 -	10 abc	0 -	1 a	1 -
9 Warrant	1.13 lb ai/a	A		216 ab	3 -	35 a	0 -	1 ab	1 -
10 Dual II Magnum	1.24 lb ai/a	A		51 b	3 -	14 ab	0 -	1 a	1 -
LSD P=.05				89.8 - 144.6	5.9	2.6 - 23.3	.	1.1 - 1.4	1.4
Standard Deviation				3.2t	4.1	0.3t	0.0	2.6t	1.0
CV				27.23t	106.22	47.8t	0.0	52.08t	137.46
Levene's F^				0.952	0.619	0.899	.	0.335	0.676
Levene's Prob(F)				0.497	0.771	0.538	.	0.956	0.724
Skewness^				-0.0935	1.8709*	-0.2255	.	-0.3432	0.7888*
Kurtosis^				-0.7606	6.6425*	0.6313	.	-0.5455	0.2727
Replicate F				2.131	1.072	2.454	0.000	4.814	1.080
Replicate Prob(F)				0.1196	0.3775	0.0848	1.0000	0.0082	0.3742
Treatment F				3.273	0.990	9.107	0.000	3.649	0.528
Treatment Prob(F)				0.0081	0.4710	0.0001	1.0000	0.0043	0.8412

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Pest Type		W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	ECHCG	AMBTR	CHEAL		
Pest Name		Giant foxtail	Common barnyard>	Giant ragweed	Common Lambsqua>		
Crop Type, Code	C GLXMA						
Crop Name	Soybean						
Rating Date	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021		
Part Rated	PLANT -						
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	%VISUAL 0 100	% 0 100	% 0 100	% 0 100	% 0 100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021		
Rating Timing							
Days After First/Last Applic.	27 3	27 3	27 3	27 3	27 3		
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A		
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	10 DE-1	10 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl	7*	8*	9*	10*	11*
No. Name	Rate Unit Code						
1 UTC			0 -	0	0	0 d	0 e
2 Authority Supreme	0.26 lb ai/a A		0 -	48 bc	48 -	60 b	80 bc
3 Authority Supreme	0.228 lb ai/a A		0 -	53 bc	53 -	33 c	76 bc
Metribuzin	0.234 lb ai/a A						
4 Authority Supreme	0.211 lb ai/a A		16	88 a	68 -	80 a	100 a
Anthem Maxx	0.084 lb ai/a B						
Enlist Duo	1.9 lb ai/a B						
N Pak AMS	2.5 % v/v B						
5 Boundary	1.47 lb ai/a A		0 -	69 ab	69 -	45 bc	75 bc
6 Zidua Pro	0.192 lb ai/a A		0 -	49 bc	49 -	33 c	79 bc
7 Kyber	0.33 lb ai/a A		0 -	63 bc	63 -	50	88 ab
8 Anthem Maxx	0.134 lb ai/a A		0 -	59 bc	59 -	53 bc	70 bcd
9 Warrant	1.13 lb ai/a A		0 -	35 c	35 -	43 bc	53 d
10 Dual II Magnum	1.24 lb ai/a A		0 -	66 ab	66 -	53 bc	63 cd
LSD P=.05			.	18.6	25.8	16.7	15.9
Standard Deviation			0.0	12.7	17.7	11.5	10.9
CV			0.0	21.73	31.31	25.96	16.03
Levene's F^			.	2.543	0.699	2.105	0.982
Levene's Prob(F)			.	0.033*	0.689	0.071	0.475
Skewness^			.	-0.3969	-0.9394*	-0.1914	-0.3089
Kurtosis^			.	0.2602	2.229*	0.7081	0.7417
Replicate F			0.000	1.398	2.027	0.810	1.762
Replicate Prob(F)			1.0000	0.2676	0.1369	0.5009	0.1781
Treatment F			0.000	5.628	1.669	14.831	24.813
Treatment Prob(F)			1.0000	0.0004	0.1580	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMARE	ABUTH	CONSS	SETFA	ECHCG		
Pest Name	Redroot pigweed	velvetleaf	Morningglory	Giant foxtail	Common barnyard>		
Crop Type, Code				C GLXMA			
Crop Name				Soybean			
Rating Date	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-17-2021	Jun-17-2021		
Part Rated				PLANT -			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-25-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021		
Rating Timing							
Days After First/Last Applic.	27 3	27 3	27 3	33 9	33 9		
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	33 DA-A	33 DA-A		
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	16 DE-1	16 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate Unit Code	12*	13*	14*	15*	16*	17*
1 UTC		0 -	0 d	0 c	0 b	0 d	0 d
2 Authority Supreme	0.26 lb ai/a A	100 -	78 bc	80 b	1 b	49 b	49 b
3 Authority Supreme	0.228 lb ai/a A	100 -	84 abc	78 b	1 b	53 b	53 b
	Metribuzin 0.234 lb ai/a A						
4 Authority Supreme	0.211 lb ai/a A	100 -	100 a	100 a	9 a	100 a	100 a
	Anthem Maxx 0.084 lb ai/a B						
	Enlist Duo 1.9 lb ai/a B						
	N Pak AMS 2.5 % v/v B						
5 Boundary	1.47 lb ai/a A	100 -	78 bc	74 b	2 b	69 b	69 b
6 Zidua Pro	0.192 lb ai/a A	100 -	86 abc	83 b	1 b	54 b	54 b
7 Kyber	0.33 lb ai/a A	100 -	90 ab	69 b	2 b	49 b	49 b
8 Anthem Maxx	0.134 lb ai/a A	100 -	68 c	73 b	1 b	55 b	55 b
9 Warrant	1.13 lb ai/a A	100 -	80 bc	79 b	2 b	23 c	23 c
10 Dual II Magnum	1.24 lb ai/a A	100 -	78 bc	78 b	2 b	64 b	64 b
LSD P=.05		.	12.8	13.3	1.6	14.9	14.9
Standard Deviation		0.0	8.8	9.2	1.1	10.3	10.3
CV		0.0	11.95	12.88	55.11	20.04	20.04
Levene's F^		.	2.28	1.486	0.584	1.436	1.436
Levene's Prob(F)		.	0.044*	0.198	0.80	0.217	0.217
Skewness^		.	0.5332	0.047	-0.5617	-1.0501*	-1.0501*
Kurtosis^		.	0.2716	1.2712	4.0948*	2.8512*	2.8512*
Replicate F		0.000	2.663	0.166	1.152	0.729	0.729
Replicate Prob(F)		1.0000	0.0681	0.9181	0.3460	0.5435	0.5435
Treatment F		0.000	38.446	33.146	19.482	26.527	26.527
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	CONSS			
Pest Name	Giant ragweed	common lambsqua	> Redroot pigweed	velvetleaf	Morningglory			
Crop Type, Code						C GLXMA		
Crop Name						Soybean		
Rating Date	Jun-17-2021	Jun-17-2021	Jun-17-2021	Jun-17-2021	Jun-17-2021	Jun-26-2021		
Part Rated								
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYNEC		
Rating Unit/Min/Max	% 0	% 0 100	% 0 100	% 0	% 0 %	0 100		
Number of Subsamples	100	1	1	100	100	1		
Data Entry Date	Jun-21-2021	Jun-21-2021	Jun-25-2021	Jun-21-2021	Jun-21-2021	Jun-25-2021		
Rating Timing						35 DAPL		
Days After First/Last Applic.	33 9	33 9	33 9	33 9	33 9	42 18		
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	42 DA-A		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	25 DE-1		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl	18*	19*	20*	21*	22*	23*
No. Name	Unit	Code						
1 UTC			0 d	0	0 -	0 b	0 c	0 -
2 Authority Supreme	0.26 lb ai/a	A	61 bc	85 bc	100 -	89 a	88 ab	0 -
3 Authority Supreme	0.228 lb ai/a	A	45 c	80 bc	100 -	88 a	86 ab	0 -
Metribuzin	0.234 lb ai/a	A						
4 Authority Supreme	0.211 lb ai/a	A	93 a	100 a	100 -	100 a	100 a	15
Anthem Maxx	0.084 lb ai/a	B						
Enlist Duo	1.9 lb ai/a	B						
N Pak AMS	2.5 % v/v	B						
5 Boundary	1.47 lb ai/a	A	60 bc	80 bc	100 -	95 a	85 ab	0 -
6 Zidua Pro	0.192 lb ai/a	A	59 bc	81 bc	100 -	90 a	90 ab	0 -
7 Kyber	0.33 lb ai/a	A	68 b	91 ab	100 -	100 a	83 ab	0 -
8 Anthem Maxx	0.134 lb ai/a	A	65 b	71 cd	100 -	91 a	76 b	0 -
9 Warrant	1.13 lb ai/a	A	63 bc	64 d	100 -	90 a	99 a	0 -
10 Dual II Magnum	1.24 lb ai/a	A	61 bc	74 cd	100 -	90 a	85 ab	0 -
LSD P=.05			12.3	10.4	.	12.5	12.5	.
Standard Deviation			8.5	7.1	0.0	8.6	8.6	0.0
CV			14.83	8.83	0.0	10.34	10.85	0.0
Levene's F^			1.14	2.573	.	2.709	1.085	.
Levene's Prob(F)			0.367	0.031*	.	0.019*	0.402	.
Skewness^			-1.011*	0.6497	.	-0.1599	0.7994*	.
Kurtosis^			2.0837*	0.9036	.	-0.4387	0.3882	.
Replicate F			0.354	0.487	0.000	1.856	0.076	0.000
Replicate Prob(F)			0.7866	0.6942	1.0000	0.1609	0.9722	1.0000
Treatment F			30.114	9.137	0.000	47.273	44.695	0.000
Treatment Prob(F)			0.0001	0.0001	1.0000	0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE		
Pest Name	Giant foxtail	Common barnyard>	Giant ragweed	common lambsqua>	Redroot pigweed		
Crop Type, Code							
Crop Name							
Rating Date	Jun-25-2021	Jun-25-2021	Jun-25-2021	Jun-25-2021	Jun-25-2021		
Part Rated							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100		
Number of Subsamples	1	1	1	1	1		
Data Entry Date	Jun-25-2021	Jun-25-2021	Jun-25-2021	Jun-25-2021	Jun-25-2021		
Rating Timing							
Days After First/Last Applic.	41 17	41 17	41 17	41 17	41 17		
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A		
Days After Emergence	24 DE-1	24 DE-1	24 DE-1	24 DE-1	24 DE-1		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate	Appl Unit Code	24*	25*	26* dAL	27*	28*
1 UTC			0 c	0 d	0 b	0 e	0 -
2 Authority Supreme	0.26 lb ai/a	A	38 ab	30 bc	56 a	81 ab	100 -
3 Authority Supreme	0.228 lb ai/a	A	56 a	55 b	15 a	68 bc	100 -
Metribuzin	0.234 lb ai/a	A					
4 Authority Supreme	0.211 lb ai/a	A	100	95 a	100 a	100 a	100 -
Anthem Maxx	0.084 lb ai/a	B					
Enlist Duo	1.9 lb ai/a	B					
N Pak AMS	2.5 % v/v	B					
5 Boundary	1.47 lb ai/a	A	70 a	63 b	17 a	58 bc	100 -
6 Zidua Pro	0.192 lb ai/a	A	49 a	43 bc	18 a	83 ab	100 -
7 Kyber	0.33 lb ai/a	A	55 a	53 b	62 a	85 ab	100 -
8 Anthem Maxx	0.134 lb ai/a	A	60 a	50 b	50 a	48 cd	100 -
9 Warrant	1.13 lb ai/a	A	18 bc	18 cd	7 a	30 d	100 -
10 Dual II Magnum	1.24 lb ai/a	A	65 a	64 b	52 a	43 cd	100 -
LSD P=.05			24.7	23.3	53.2 - 87.2	19.6	.
Standard Deviation			16.9	16.1	0.6t	13.5	0.0
CV			37.11	34.32	43.64t	22.75	0.0
Levene's F^			0.789	1.575	2.219	1.304	.
Levene's Prob(F)			0.616	0.168	0.049*	0.276	.
Skewness^			-0.5354	-0.2365	-0.9704*	-0.6348	.
Kurtosis^			-0.4034	-0.7918	1.6047*	0.6716	.
Replicate F			1.665	0.943	0.179	0.488	0.000
Replicate Prob(F)			0.2010	0.4337	0.9098	0.6938	1.0000
Treatment F			7.567	10.848	3.884	19.982	0.000
Treatment Prob(F)			0.0001	0.0001	0.0029	0.0001	1.0000

# The Ohio State University

## FMC Soybean Residual Weed Control with Authority Supreme/Edge and Anthem Maxx

Trial ID: 21FMCSOY      Location:      Trial Year: 2021  
 Protocol ID: USA-21-754      Investigator (Creator): Dr. Mark M. Loux  
 Project ID: USA-21-754      Study Director:  
    Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	ABUTH	CONSS
Pest Name	velvetleaf	Morningglory
Crop Type, Code		
Crop Name		
Rating Date	Jun-25-2021	Jun-25-2021
Part Rated		
Rating Type	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100
Number of Subsamples	1	1
Data Entry Date	Jun-25-2021	Jun-25-2021
Rating Timing		
Days After First/Last Applic.	41 17	41 17
Trt-Eval Interval	42 DA-A	42 DA-A
Days After Emergence	24 DE-1	24 DE-1
Number of Decimals	0	0

  

Trt Treatment	Rate	Appl	29*	30*	31
No. Name	Rate Unit	Code			
1 UTC			0 c		0
2 Authority Supreme	0.26 lb ai/a A		75 ab		23 -
3 Authority Supreme	0.228 lb ai/a A		80 ab		75 -
Metribuzin	0.234 lb ai/a A				
4 Authority Supreme	0.211 lb ai/a A		100 a		75 -
Anthem Maxx	0.084 lb ai/a B				
Enlist Duo	1.9 lb ai/a B				
N Pak AMS	2.5 % v/v B				
5 Boundary	1.47 lb ai/a A		64 b		39 -
6 Zidua Pro	0.192 lb ai/a A		80 ab		17 -
7 Kyber	0.33 lb ai/a A		99 a		34 -
8 Anthem Maxx	0.134 lb ai/a A		70 b		6 -
9 Warrant	1.13 lb ai/a A		80 ab		19 -
10 Dual II Magnum	1.24 lb ai/a A		60 b		26 -
LSD P=.05			17.7		49.9 .
Standard Deviation			12.2		33.3 .
CV			17.28		93.12 .
Levene's F^			0.821		0.79 .
Levene's Prob(F)			0.602		0.618 .
Skewness^			-0.5453		-1.391* .
Kurtosis^			0.6437		2.9023* .
Replicate F			2.125		0.632
Replicate Prob(F)			0.1205		0.6051
Treatment F			21.071		2.181
Treatment Prob(F)			0.0001		0.0878



# The Ohio State University

**FMC Soybean Residual Weed Control with Authority Supreme/Edge and Anthem Maxx**

Trial ID: 21FMCSOY      Location:      Trial Year: 2021  
 Protocol ID: USA-21-754      Investigator (Creator): Dr. Mark M. Loux  
 Project ID: USA-21-754      Study Director:  
    Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US  
 AMBTR, Ambrosia trifida, Giant ragweed = US  
 CHEAL, Chenopodium album, common lambsquarters = US  
 AMARE, Amaranthus retroflexus, Redroot pigweed = US  
 ABUTH, Abutilon theophrasti, velvetleaf = US  
 CONSS, Convolvulus sp., Morningglory = US  
 ECHCG, Echinochloa crus-galli, Common barnyard grass = US

Crop Type, Code

C = EPPO species (Bayer) codes  
 GLXMA, BSOY, Glycine max, Soybean = US

Part Rated

PLANT = plant

Rating Type

COUNT = count  
 PHYGEN = phytotoxicity - general / injury  
 CONTRO = control / burndown or knockdown  
 PHYNEC = phytotoxicity - necrosis /burn

Rating Unit/Min/Max

%, 0, 100 = percent