

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

General Trial Information

Investigator: Dr. Mark M. Loux

Discipline: H herbicide
 Trial Status: E established
 Trial Status Date: May-14-2020 11:35 AM Last Changed By: Dr. Mark M. Loux
 ARM Trial Created On: Mar-27-2020 Trial Usage/Type: 0 Research and Development
 Initiation Date: May-13-2020 Protocol Revision Number: 1.0 Protocol Revision Date: Mar-27-2020

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 °: 39.85794 N
 Longitude of LL Corner °: -83.66996 W
 Altitude of LL Corner: 1098.00 FT

Conducted Under GLP: No
 Conducted Under GEP: No

Objectives:

Does A23372A (premix) provide greater weed control and crop safety than current Syngenta or competitor residual herbicides in conventional till soybeans?

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C GLXMA Glycine max Soybean BBCH Scale: BSOY
 Entry Date: May-14-2020 Stage Scale: BBCH
 Variety: Pioneer 33A24X
 Attributes: GLYPHOSATE-R,AUXIN-R
 Seed Lot No: B3GRA13059-00-1207 Seed Source: Illinois
 % Germination: 90 Planting Rate: 160000 S/A
 Planting Date: May-13-2020
 Depth: 2 IN Planting Method: PLANTD planted
 Rows per Plot: 8 Planting Equipment: FE field equipment
 Row Spacing: 15 IN Seed Bed: MEDIUM medium
 Soil Temperature: 62 F Soil Moisture: NORMAL normal, adequate
 Emergence Date: May-25-2020 Plant Arrangement: ROW

Pest Description

Pest 1 Type: W Code: AMBTR Ambrosia trifida
 Common Name: ragweed, giant Entry Date: Jun-25-2020
 Pest 2 Type: W Code: SETFA Setaria faberi
 Common Name: foxtail, giant Entry Date: Jun-25-2020
 Pest 3 Type: W Code: ECHCG Echinochloa crus-galli
 Common Name: barnyardgrass Entry Date: Jun-25-2020
 Pest 4 Type: W Code: AMARE Amaranthus retroflexus
 Common Name: pigweed, redroot Entry Date: Jun-25-2020
 Pest 5 Type: W Code: CHEAL Chenopodium album
 Common Name: lambsquarters, common Entry Date: Jun-25-2020
 Pest 6 Type: W Code: ABUTH Abutilon theophrasti
 Common Name: velvetleaf Entry Date: Jun-25-2020
 Pest 7 Type: W Code: SIDSP Sida spinosa
 Common Name: sida, prickly Entry Date: Jun-25-2020

Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 300 FT2 Treatments: 10 Tillage Type: CONV
 Replications: 4 Study Design: RACOB L Randomized Complete Block (RCB)

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Trial Initiation Comments:

Spring disc followed by 1 pass finishing tool at time of planting.

Previous

No. Crop Year
 1. ZEAMX 2019

Soil Description

Description Name: Big E
 % Sand: 44 % OM: 3.1 Texture: L loam
 % Silt: 45 pH: 6.6 Soil Name: Kokomo
 % Clay: 11 CEC: 15.2 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date	May-13-2020	Jun-24-2020
Appl. Start Time	3:00 PM	8:00 AM
Appl. Stop Time	3:30 PM	8:30 AM
Interval to Prev. Appl.		42 DAYS
Application Method	NONINC	NONINC
Application Timing	PREPRE	POSPOS
Application Placement	BROSOI	BROFOL
Applied By	Ackley and Essman	Kimmet
Appl. Entry Date	May-14-2020	Jun-25-2020
Air Temperature Start, Stop	64 64 F	66 66 F
% Relative Humidity Start, Stop	32 32	80 80
Wind Velocity+Dir. Start	10 MPH SE	8 MPH W
Wind Velocity+Dir. Stop	10 MPH SE	8 MPH W
Wind Velocity+Dir. Max	11 MPH SE	8 MPH W
Wet Leaves (Y/N)	N no	Y yes
Soil Temperature	62 F	69 F
Soil Moisture	NORMAL	SLIWET
% Cloud Cover	25	30
Next Moisture Occurred On	May-14-2020	Jun-25-2020
Time to Next Moisture	14 HR	1 DAY
Moisture 1 Week after Appl.	2.52 IN	0.09 IN

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY
Stage Scale Used	BBCH	BBCH
Stage Majority, Percent		14 100
Height Average		8 IN
Height Minimum, Maximum		6 10

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Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	AMBTR W	AMBTR W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	8	IN
Height Minimum, Maximum	4	16
Density Average	54	PLA/m2
Density Min, Max	36	56
Pest 2 Code, Type, Scale	SETFA W	SETFA W
Stage Majority, Percent	18	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	6	IN
Height Minimum, Maximum	4	8
Density Average	250	PLA/m2
Density Min, Max	160	270
Pest 3 Code, Type, Scale	ECHCG W	ECHCG W
Stage Majority, Percent	17	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	6	IN
Height Minimum, Maximum	2	10
Density Average	160	PLA/m2
Density Min, Max	80	200
Pest 4 Code, Type, Scale	AMARE W	AMARE W
Stage Majority, Percent	16	90
Stage Minimum, Percent	14	
Stage Maximum, Percent	18	
Height Average	3	IN
Height Minimum, Maximum	2	6
Density Average	58	PLA/m2
Density Min, Max	0	180
Pest 5 Code, Type, Scale	CHEAL W	CHEAL W
Stage Majority, Percent	17	80
Stage Minimum, Percent	16	
Stage Maximum, Percent	19	
Height Average	4	IN
Height Minimum, Maximum	2	6
Density Average	66	PLA/m2
Density Min, Max	8	168
Pest 6 Code, Type, Scale	ABUTH W	ABUTH W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	18	
Height Average	4	IN
Height Minimum, Maximum	2	6
Density Average	1	PLA/m2
Density Min, Max	0	4
Pest 7 Code, Type, Scale	SIDSP W	SIDSP W
Stage Majority, Percent	17	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	4	IN
Height Minimum, Maximum	2	6
Density Average	74	PLA/m2
Density Min, Max	16	120

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Application Equipment

	A	B
Appl. Equipment	6' TTI	10' TTI
Equipment Type	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI
Nozzle Type	TTI	TTI
Nozzle Size	1110015	110015
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

Context Date By Notes
 STATUS Mar-27-2020 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'S' during trial creation.
 STATUS May-14-2020 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.

Pest ID Code	2 W Weed	3 W Weed	1 W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Scientific Name	Setaria faberi	Echinochloa crus-ga>	Ambrosia trifida
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	1*	2*	3*
1 UNTREATED CHECK				0 e	0 d	0 e
2 A23372A	24.8 oz ai/a	3 pt/a	A	91 ab	86 ab	38 bc
2 INTACT	0.5 % v/v	0.5 % v/v	B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
3 A23372A	29 oz ai/a	3.5 pt/a	A	90 ab	84 ab	60 a
3 INTACT	0.5 % v/v	0.5 % v/v	B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
4 A23372A	34.7 oz ai/a	4.2 pt/a	A	91 ab	86 ab	61 a
4 INTACT	0.5 % v/v	0.5 % v/v	B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			

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Conducted Under GEP: No

Pest ID Code	2 W Weed	3 W Weed	1 W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Scientific Name	Setaria faberi	Echinochloa crus-ga>	Ambrosia trifida
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	1*	2*	3*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A		95 a	93 a	13 de
5	INTACT	0.5 % v/v	0.5 % v/v		B				
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A		89 abc	85 ab	25 cd
6	INTACT	0.5 % v/v	0.5 % v/v		B				
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A		59 d	49 c	63 a
7	INTACT	0.5 % v/v	0.5 % v/v		B				
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A		75 c	69 bc	58 ab
8	INTACT	0.5 % v/v	0.5 % v/v		B				
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A		83 abc	76 ab	39 bc
9	INTACT	0.5 % v/v	0.5 % v/v		B				
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				

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 Sponsor Contact:
 Trial Origin: P public institution trial

Conducted Under GEP: No

Pest ID Code	2 W Weed	3 W Weed	1 W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Scientific Name	Setaria faberi	Echinochloa crus-ga>	Ambrosia trifida
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	1*	2*	3*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a	A	80 bc	71 b	25 cd
10 INTACT	0.5 % v/v	0.5 % v/v	B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
LSD P=.05				13.8	20.4	20.6
Standard Deviation				9.5	14.0	14.2
CV				12.66	20.08	37.35
Grand Mean				75.2	69.9	38.0
Levene's F				2.09	2.139	0.651
Levene's Prob(F)				0.063	0.057	0.745
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness				-1.9669*	-1.728*	-0.0256
Kurtosis				2.8554*	1.8924*	-1.1769
Replicate F				0.073	0.494	1.324
Replicate Prob(F)				0.9741	0.6893	0.2871
Treatment F				35.762	15.449	9.794
Treatment Prob(F)				0.0001	0.0001	0.0001

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	5 W Weed	4 W Weed	6 W Weed
Pest ID Code	CHEAL	AMARE	ABUTH
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium album	Amaranthus retrofle>	Abutilon theophrasti
Pest Name	lambsquarters, comm>	pigweed, redroot	velvetleaf
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
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SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
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Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Other	Other	Appl	4*	5*	6*
No. Name	Rate Unit	Rate	Rate	Unit Code			
1 UNTREATED CHECK						0 c	0 c
2 A23372A	24.8 oz ai/a	3 pt/a		A	100 a	99 a	90 a
2 INTACT	0.5 % v/v	0.5 % v/v		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
3 A23372A	29 oz ai/a	3.5 pt/a		A	100 a	100 a	95 a
3 INTACT	0.5 % v/v	0.5 % v/v		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	100 a	98 a	95 a
4 INTACT	0.5 % v/v	0.5 % v/v		B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

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Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	5 W Weed	4 W Weed	6 W Weed
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium album	Amaranthus retrofl>	Abutilon theophrasti
Pest Name	lambsquarters, comm>	pigweed, redroot	velvetleaf
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	4*	5*	6*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	84 b	84 b	52 b
5	INTACT	0.5 % v/v	0.5 % v/v		B			
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	100 a	100 a	80 a
6	INTACT	0.5 % v/v	0.5 % v/v		B			
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	100 a	93 a	98 a
7	INTACT	0.5 % v/v	0.5 % v/v		B			
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	100 a	100 a	95 a
8	INTACT	0.5 % v/v	0.5 % v/v		B			
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	100 a	100 a	100 a
9	INTACT	0.5 % v/v	0.5 % v/v		B			
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Trial Origin: P public institution trial

Conducted Under GEP: No

Pest ID Code	5 W Weed	4 W Weed	6 W Weed
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium album	Amaranthus retroflus	Abutilon theophrasti
Pest Name	lambsquarters, comm>	pigweed, redroot	velvetleaf
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jun-22-2020	Jun-22-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-23-2020	Jun-23-2020	Jun-23-2020
Days After First/Last Applic.	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	4*	5*	6*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a		A	90 ab	99 a	85 a
10 INTACT	0.5 % v/v	0.5 % v/v		B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
LSD P=.05					10.1	7.9	23.5
Standard Deviation					7.0	5.4	16.2
CV					7.98	6.22	20.26
Grand Mean					87.4	87.1	79.7
Levene's F					4.576	0.745	1.253
Levene's Prob(F)					0.001*	0.665	0.303
Rank X2					.	.	.
P(Rank X2)					.	.	.
Skewness					-2.4659*	-2.5183*	-1.5947*
Kurtosis					4.649*	4.9218*	1.2772
Replicate F					0.341	1.063	1.730
Replicate Prob(F)					0.7960	0.3819	0.1854
Treatment F					79.988	131.046	14.369
Treatment Prob(F)					0.0001	0.0001	0.0001

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

Pest ID Code	7 W Weed			2 W Weed
Pest Code	SIDSP			SETFA
Pest Scientific Name	Sida spinosa			Setaria faberi
Pest Name	sida, prickly			foxtail, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jul-1-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSX001	ZUSX001	ZUSW001
SE Description	%Control	%Phyto-General	%Phyto-General	%Control
Part Rated	PLANT -	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Calculation	NC	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jul-1-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	40 40	49 7	55 13	55 13
Trt-Eval Interval	40 DA-A	7 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	40 DP-1	49 DP-1	55 DP-1	55 DP-1
Days After Emergence	28 DE-1	37 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Other	Other	Appl	7*	8*	9*	10*
No. Name	Rate Unit	Rate	Rate	Unit Code				
1 UNTREATED CHECK					0 c	0 b	0 b	0 b
2 A23372A	24.8 oz ai/a	3 pt/a		A	95 a	2 a	2 a	99 a
2 INTACT	0.5 % v/v	0.5 % v/v		B				
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B				
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
3 A23372A	29 oz ai/a	3.5 pt/a		A	80 ab	2 a	2 a	99 a
3 INTACT	0.5 % v/v	0.5 % v/v		B				
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B				
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	96 a	2 a	2 a	100 a
4 INTACT	0.5 % v/v	0.5 % v/v		B				
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B				
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	7 W Weed			2 W Weed
Pest Code	SIDSP			SETFA
Pest Scientific Name	Sida spinosa			Setaria faberi
Pest Name	sida, prickly			foxtail, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jul-1-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSX001	ZUSX001	ZUSW001
SE Description	%Control	%Phyto-General	%Phyto-General	%Control
Part Rated	PLANT -	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Calculation	NC	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jul-1-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	40 40	49 7	55 13	55 13
Trt-Eval Interval	40 DA-A	7 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	40 DP-1	49 DP-1	55 DP-1	55 DP-1
Days After Emergence	28 DE-1	37 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Code	7*	8*	9*	10*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	69 b	2 a	2 a	99 a
5	INTACT	0.5 % v/v	0.5 % v/v		B				
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	90 ab	2 a	2 a	100 a
6	INTACT	0.5 % v/v	0.5 % v/v		B				
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	80 ab	2 a	2 a	100 a
7	INTACT	0.5 % v/v	0.5 % v/v		B				
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	92 a	2 a	2 a	100 a
8	INTACT	0.5 % v/v	0.5 % v/v		B				
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	96 a	2 a	2 a	100 a
9	INTACT	0.5 % v/v	0.5 % v/v		B				
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Trial Origin: P public institution trial

Conducted Under GEP: No

Pest ID Code	7 W Weed			2 W Weed
Pest Code	SIDSP			SETFA
Pest Scientific Name	Sida spinosa			Setaria faberi
Pest Name	sida, prickly			foxtail, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jun-22-2020	Jul-1-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSX001	ZUSX001	ZUSW001
SE Description	%Control	%Phyto-General	%Phyto-General	%Control
Part Rated	PLANT -	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Calculation	NC	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-23-2020	Jul-1-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	40 40	49 7	55 13	55 13
Trt-Eval Interval	40 DA-A	7 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	40 DP-1	49 DP-1	55 DP-1	55 DP-1
Days After Emergence	28 DE-1	37 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	7*	8*	9*	10*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a	A	76 ab	2 a	2 a	100 a
10 INTACT	0.5 % v/v	0.5 % v/v	B				
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B				
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B				
LSD P=.05				22.3	.	.	1.1
Standard Deviation				15.3	0.0	0.0	0.7
CV				19.74	0.0	0.0	0.83
Grand Mean				77.6	1.8	1.8	89.5
Levene's F				1.70	0.00	0.00	0.535
Levene's Prob(F)				0.136	.	.	0.838
Rank X2				.	.	.	.
P(Rank X2)				.	.	.	.
Skewness				-1.5735*	-2.7717*	-2.7717*	-2.7687*
Kurtosis				1.4711	5.9791*	5.9791*	5.9687*
Replicate F				3.031	0.000	0.000	1.367
Replicate Prob(F)				0.0480	1.0000	1.0000	0.2739
Treatment F				14.115	0.000	0.000	7136.840
Treatment Prob(F)				0.0001	1.0000	1.0000	0.0001

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

Pest ID Code	3 W Weed	1 W Weed	5 W Weed
Pest Code	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Echinochloa crus-ga>	Ambrosia trifida	Chenopodium album
Pest Name	barnyardgrass	ragweed, giant	lambsquarters, comm>
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Unit Code	11*	12*	13*	
1 UNTREATED CHECK					0 c	0 e	0 b
2 A23372A	24.8 oz ai/a	3 pt/a	A	100 a	90 bcd	100 a	
2 INTACT	0.5 % v/v	0.5 % v/v	B				
2 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B				
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B				
3 A23372A	29 oz ai/a	3.5 pt/a	A	100 a	95 a	100 a	
3 INTACT	0.5 % v/v	0.5 % v/v	B				
3 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B				
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B				
4 A23372A	34.7 oz ai/a	4.2 pt/a	A	100 a	93 ab	100 a	
4 INTACT	0.5 % v/v	0.5 % v/v	B				
4 CLASS ACT RIDION	1 % v/v	1 % v/v	B				
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B				
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B				

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	3 W Weed	1 W Weed	5 W Weed
Pest Code	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Echinochloa crus-ga>	Ambrosia trifida	Chenopodium album
Pest Name	barnyardgrass	ragweed, giant lambsquarters, comm>	
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	100 a	86 d	100 a
5	INTACT	0.5 % v/v	0.5 % v/v		B			
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	100 a	88 cd	100 a
6	INTACT	0.5 % v/v	0.5 % v/v		B			
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	100 a	96 a	100 a
7	INTACT	0.5 % v/v	0.5 % v/v		B			
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	100 a	93 ab	100 a
8	INTACT	0.5 % v/v	0.5 % v/v		B			
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	100 b	91 abc	100 a
9	INTACT	0.5 % v/v	0.5 % v/v		B			
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Trial Origin: P public institution trial

Conducted Under GEP: No

Pest ID Code	3 W Weed	1 W Weed	5 W Weed
Pest Code	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Echinochloa crus-ga>	Ambrosia trifida	Chenopodium album
Pest Name	barnyardgrass	ragweed, giant lambsquarters, comm>	
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	11*	12*	13*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a	A	100 a	86 d	100 a
10 INTACT	0.5 % v/v	0.5 % v/v	B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
LSD P=.05				0.5	4.8	.
Standard Deviation				0.3	3.3	0.0
CV				0.35	4.07	0.0
Grand Mean				90.0	81.9	90.0
Levene's F				1.00	1.673	0.00
Levene's Prob(F)				0.461	0.14	.
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness				-2.7712*	-2.6368*	-2.7717*
Kurtosis				5.9772*	5.5161*	5.9791*
Replicate F				1.000	2.453	0.000
Replicate Prob(F)				0.4079	0.0849	1.0000
Treatment F				39956.560	302.238	0.000
Treatment Prob(F)				0.0001	0.0001	1.0000

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

	4 W Weed	6 W Weed	7 W Weed
Pest ID Code	AMARE	ABUTH	SIDSP
Pest Code	AMARE	ABUTH	SIDSP
Pest Scientific Name	Amaranthus retrofle>	Abutilon theophrasti	Sida spinosa
Pest Name	pigweed, redroot	velvetleaf	sida, prickly
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Other	Other	Appl	14*	15*	16*
No. Name	Rate Unit	Rate	Rate Unit	Code			
1 UNTREATED CHECK						0 b	0 b
2 A23372A	24.8 oz ai/a	3 pt/a		A	100 a	100 a	100 a
2 INTACT	0.5 % v/v	0.5 % v/v		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
3 A23372A	29 oz ai/a	3.5 pt/a		A	100 a	100 a	96 a
3 INTACT	0.5 % v/v	0.5 % v/v		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	100 a	99 a	99 a
4 INTACT	0.5 % v/v	0.5 % v/v		B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	4 W Weed	6 W Weed	7 W Weed
Pest Code	AMARE	ABUTH	SIDSP
Pest Scientific Name	Amaranthus retrofl>	Abutilon theophrasti	Sida spinosa
Pest Name	pigweed, redroot	velvetleaf	sida, prickly
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	14*	15*	16*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	100 a	95 a	90 a
5	INTACT	0.5 % v/v	0.5 % v/v		B			
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	100 a	96 a	91 a
6	INTACT	0.5 % v/v	0.5 % v/v		B			
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	100 a	100 a	100 a
7	INTACT	0.5 % v/v	0.5 % v/v		B			
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	100 a	100 a	99 a
8	INTACT	0.5 % v/v	0.5 % v/v		B			
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	100 a	100 a	96 a
9	INTACT	0.5 % v/v	0.5 % v/v		B			
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	4 W Weed	6 W Weed	7 W Weed
Pest Code	AMARE	ABUTH	SIDSP
Pest Scientific Name	Amaranthus retrofl.	Abutilon theophrasti	Sida spinosa
Pest Name	pigweed, redroot	velvetleaf	sida, prickly
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-7-2020	Jul-7-2020	Jul-7-2020
Days After First/Last Applic.	55 13	55 13	55 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	55 DP-1	55 DP-1	55 DP-1
Days After Emergence	43 DE-1	43 DE-1	43 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	14*	15*	16*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a		A	100 a	100 a	88 a
10 INTACT	0.5 % v/v	0.5 % v/v		B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
LSD P=.05						5.9	12.6
Standard Deviation					0.0	4.1	8.7
CV					0.0	4.57	10.1
Grand Mean					90.0	89.0	85.9
Levene's F					0.00	0.838	0.909
Levene's Prob(F)					.	0.588	0.53
Rank X2					.	.	.
P(Rank X2)					.	.	.
Skewness					-2.7717*	-2.6934*	-2.4238*
Kurtosis					5.9791*	5.675*	4.6191*
Replicate F					0.000	0.804	0.385
Replicate Prob(F)					1.0000	0.5024	0.7648
Treatment F					0.000	236.799	49.426
Treatment Prob(F)					1.0000	0.0001	0.0001

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

Pest ID Code	2 W Weed	3 W Weed	1 W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Scientific Name	Setaria faberi	Echinochloa crus-ga>	Ambrosia trifida
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 26	68 26	68 26
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Other	Other	Appl	17*	18*	19*
No. Name	Rate Unit	Rate	Rate	Unit Code			
1 UNTREATED CHECK					0 c	0 c	0 c
2 A23372A	24.8 oz ai/a	3 pt/a		A	99 a	96 b	98 ab
2 INTACT	0.5 % v/v	0.5 % v/v		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
3 A23372A	29 oz ai/a	3.5 pt/a		A	99 a	99 ab	100 a
3 INTACT	0.5 % v/v	0.5 % v/v		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	99 a	99 ab	100 a
4 INTACT	0.5 % v/v	0.5 % v/v		B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	2 W Weed	3 W Weed	1 W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Scientific Name	Setaria faberi	Echinochloa crus-ga>	Ambrosia trifida
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 26	68 26	68 26
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	17*	18*	19*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	96 b	97 b	97 b
5	INTACT	0.5 % v/v	0.5 % v/v		B			
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	98 ab	98 ab	98 ab
6	INTACT	0.5 % v/v	0.5 % v/v		B			
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	100 a	100 a	100 ab
7	INTACT	0.5 % v/v	0.5 % v/v		B			
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	98 ab	97 ab	100 ab
8	INTACT	0.5 % v/v	0.5 % v/v		B			
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	99 a	98 ab	100 ab
9	INTACT	0.5 % v/v	0.5 % v/v		B			
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	2 W Weed	3 W Weed	1 W Weed
Pest Code	SETFA	ECHCG	AMBTR
Pest Scientific Name	Setaria faberi	Echinochloa crus-ga>	Ambrosia trifida
Pest Name	foxtail, giant	barnyardgrass	ragweed, giant
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 26	68 26	68 26
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	17*	18*	19*
10	PREFIX [F]	21.1 oz ai/a	32 fl oz/a		A	97 ab	97 ab	98 ab
10	INTACT	0.5 % v/v	0.5 % v/v		B			
10	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
10	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
10	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
LSD P=.05						2.6	2.8	2.5
Standard Deviation						1.8	2.0	1.7
CV						2.05	2.23	1.94
Grand Mean						88.4	88.0	89.0
Levene's F						0.629	0.615	4.235
Levene's Prob(F)						0.763	0.774	0.001*
Rank X2						.	.	.
P(Rank X2)						.	.	.
Skewness						-2.7506*	-2.7454*	-2.7536*
Kurtosis						5.9064*	5.8891*	5.9162*
Replicate F						1.436	2.728	0.547
Replicate Prob(F)						0.2542	0.0636	0.6543
Treatment F						1178.708	997.848	1310.338
Treatment Prob(F)						0.0001	0.0001	0.0001

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

	5 W Weed	4 W Weed	6 W Weed
Pest ID Code	CHEAL	AMARE	ABUTH
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium album	Amaranthus retrofle>	Abutilon theophrasti
Pest Name	lambsquarters, comm>	pigweed, redroot	velvetleaf
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 26	68 26	68 26
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Other	Other	Appl	20*	21*	22*
No. Name	Rate Unit	Rate	Rate	Unit Code			
1 UNTREATED CHECK					0 b	0 b	0 c
2 A23372A	24.8 oz ai/a	3 pt/a		A	100 a	100 a	100 a
2 INTACT	0.5 % v/v	0.5 % v/v		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
3 A23372A	29 oz ai/a	3.5 pt/a		A	100 a	100 a	100 a
3 INTACT	0.5 % v/v	0.5 % v/v		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	100 a	100 a	100 a
4 INTACT	0.5 % v/v	0.5 % v/v		B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	5 W Weed	4 W Weed	6 W Weed
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium album	Amaranthus retrofl>	Abutilon theophrasti
Pest Name	lambsquarters, comm>	pigweed, redroot	velvetleaf
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 26	68 26	68 26
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Appl Code	20*	21*	22*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	100 a	100 a	92 b
5	INTACT	0.5 % v/v	0.5 % v/v		B			
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	100 a	100 a	100 a
6	INTACT	0.5 % v/v	0.5 % v/v		B			
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	100 a	100 a	100 a
7	INTACT	0.5 % v/v	0.5 % v/v		B			
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	100 a	100 a	99 a
8	INTACT	0.5 % v/v	0.5 % v/v		B			
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	100 a	100 a	100 a
9	INTACT	0.5 % v/v	0.5 % v/v		B			
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Trial Origin: P public institution trial

Conducted Under GEP: No

Pest ID Code	5 W Weed	4 W Weed	6 W Weed
Pest Code	CHEAL	AMARE	ABUTH
Pest Scientific Name	Chenopodium album	Amaranthus retroflus	Abutilon theophrasti
Pest Name	lambsquarters, comm>	pigweed, redroot	velvetleaf
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Jul-20-2020	Jul-20-2020
Days After First/Last Applic.	68 26	68 26	68 26
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B
Plant-Eval Interval	68 DP-1	68 DP-1	68 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	20*	21*	22*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a	A	100 a	100 a	100 a
10 INTACT	0.5 % v/v	0.5 % v/v	B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
LSD P=.05	.	.	.			3.8
Standard Deviation	0.0	0.0	0.0			2.6
CV	0.0	0.0	0.0			2.96
Grand Mean	90.0	90.0	90.0			89.1
Levene's F	0.00	0.00	0.00			26.824
Levene's Prob(F)	.	.	.			0.001*
Rank X2	.	.	.			.
P(Rank X2)	.	.	.			.
Skewness	-2.7717*	-2.7717*	-2.7717*			-2.7131*
Kurtosis	5.9791*	5.9791*	5.9791*			5.7569*
Replicate F	0.000	0.000	0.000			1.372
Replicate Prob(F)	1.0000	1.0000	1.0000			0.2724
Treatment F	0.000	0.000	0.000			566.073
Treatment Prob(F)	1.0000	1.0000	1.0000			0.0001

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

Pest ID Code	7 W Weed	2 W Weed	3 W Weed
Pest Code	SIDSP	SETFA	ECHCG
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa crus-ga>
Pest Name	sida, prickly	foxtail, giant	barnyardgrass
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	68 26	85 43	85 43
Trt-Eval Interval	26 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	68 DP-1	85 DP-1	85 DP-1
Days After Emergence	56 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Other	Other	Appl	23*	24*	25*
No. Name	Rate Unit	Rate	Rate	Unit Code			
1 UNTREATED CHECK					0 c	0 b	0 b
2 A23372A	24.8 oz ai/a	3 pt/a		A	100 a	100 a	100 a
2 INTACT	0.5 % v/v	0.5 % v/v		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
3 A23372A	29 oz ai/a	3.5 pt/a		A	100 a	100 a	99 a
3 INTACT	0.5 % v/v	0.5 % v/v		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	99 a	100 a	100 a
4 INTACT	0.5 % v/v	0.5 % v/v		B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	7 W Weed	2 W Weed	3 W Weed
Pest Code	SIDSP	SETFA	ECHCG
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa crus-ga>
Pest Name	sida, prickly	foxtail, giant	barnyardgrass
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	68 26	85 43	85 43
Trt-Eval Interval	26 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	68 DP-1	85 DP-1	85 DP-1
Days After Emergence	56 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	23*	24*	25*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A		96 a	100 a	100 a
5	INTACT	0.5 % v/v	0.5 % v/v		B				
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A		96 a	100 a	96 a
6	INTACT	0.5 % v/v	0.5 % v/v		B				
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A		100 a	100 a	100 a
7	INTACT	0.5 % v/v	0.5 % v/v		B				
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A		98 a	100 a	98 a
8	INTACT	0.5 % v/v	0.5 % v/v		B				
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A		100 a	100 a	99 a
9	INTACT	0.5 % v/v	0.5 % v/v		B				
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B				
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B				
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B				

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	7 W Weed	2 W Weed	3 W Weed
Pest Code	SIDSP	SETFA	ECHCG
Pest Scientific Name	Sida spinosa	Setaria faberi	Echinochloa crus-ga>
Pest Name	sida, prickly	foxtail, giant	barnyardgrass
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Jul-20-2020	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jul-20-2020	Aug-6-2020	Aug-6-2020
Days After First/Last Applic.	68 26	85 43	85 43
Trt-Eval Interval	26 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	68 DP-1	85 DP-1	85 DP-1
Days After Emergence	56 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	23*	24*	25*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a	A	91 b	100 a	99 a
10 INTACT	0.5 % v/v	0.5 % v/v	B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
LSD P=.05				4.8	.	4.1
Standard Deviation				3.3	0.0	2.8
CV				3.79	0.0	3.15
Grand Mean				88.1	90.0	89.0
Levene's F				1.254	0.00	0.86
Levene's Prob(F)				0.301	.	0.57
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness				-2.6795*	-2.7717*	-2.7301*
Kurtosis				5.6422*	5.9791*	5.8253*
Replicate F				2.711	0.000	1.611
Replicate Prob(F)				0.0648	1.0000	0.2099
Treatment F				346.250	0.000	497.072
Treatment Prob(F)				0.0001	1.0000	0.0001

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

	1 W Weed	5 W Weed	4 W Weed
Pest ID Code	1 W Weed	5 W Weed	4 W Weed
Pest Code	AMBTR	CHEAL	AMARE
Pest Scientific Name	Ambrosia trifida	Chenopodium album	Amaranthus retrofle>
Pest Name	ragweed, giant	lambsquarters, comm>	pigweed, redroot
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Aug-6-2020		
Days After First/Last Applic.	85 43	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Other	Other	Appl	26*	27*	28*
No. Name	Rate Unit	Rate	Rate Unit	Code			
1 UNTREATED CHECK					0 b	0 b	0 b
2 A23372A	24.8 oz ai/a	3 pt/a		A	100 a	100 a	100 a
2 INTACT	0.5 % v/v	0.5 % v/v		B			
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
3 A23372A	29 oz ai/a	3.5 pt/a		A	100 a	100 a	100 a
3 INTACT	0.5 % v/v	0.5 % v/v		B			
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	100 a	100 a	100 a
4 INTACT	0.5 % v/v	0.5 % v/v		B			
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	1 W Weed	5 W Weed	4 W Weed
Pest Code	AMBTR	CHEAL	AMARE
Pest Scientific Name	Ambrosia trifida	Chenopodium album	Amaranthus retrofle>
Pest Name	ragweed, giant	lambsquarters, comm>	pigweed, redroot
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Aug-6-2020		
Days After First/Last Applic.	85 43	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	26*	27*	28*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A	100 a	100 a	100 a
	5 INTACT	0.5 % v/v	0.5 % v/v		B			
	5 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
	5 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
	5 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A	100 a	100 a	100 a
	6 INTACT	0.5 % v/v	0.5 % v/v		B			
	6 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
	6 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
	6 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A	100 a	100 a	100 a
	7 INTACT	0.5 % v/v	0.5 % v/v		B			
	7 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
	7 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
	7 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A	100 a	100 a	100 a
	8 INTACT	0.5 % v/v	0.5 % v/v		B			
	8 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
	8 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
	8 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A	100 a	100 a	100 a
	9 INTACT	0.5 % v/v	0.5 % v/v		B			
	9 CLASS ACT RIDION	1 % v/v	1 % v/v		B			
	9 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
	9 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact: Trial Origin: P public institution trial

Conducted Under GEP: No

Pest ID Code	1 W Weed	5 W Weed	4 W Weed
Pest Code	AMBTR	CHEAL	AMARE
Pest Scientific Name	Ambrosia trifida	Chenopodium album	Amaranthus retrofle>
Pest Name	ragweed, giant	lambsquarters, comm>	pigweed, redroot
Crop ID Code	1 GLXMA	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Aug-6-2020	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001	ZUSW001
SE Description	%Control	%Control	%Control
Part Rated	PLANT -	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Calculation	NC	NC	NC
Sample Size	1 PLOT	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Aug-6-2020		
Days After First/Last Applic.	85 43	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit	Appl Code	26*	27*	28*
10 PREFIX [F]	21.1 oz ai/a	32 fl oz/a	A	100 a	100 a	100 a
10 INTACT	0.5 % v/v	0.5 % v/v	B			
10 CLASS ACT RIDION	1 % v/v	1 % v/v	B			
10 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a	B			
10 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a	B			
LSD P=.05				.	.	.
Standard Deviation				0.0	0.0	0.0
CV				0.0	0.0	0.0
Grand Mean				90.0	90.0	90.0
Levene's F				0.00	0.00	0.00
Levene's Prob(F)				.	.	.
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness				-2.7717*	-2.7717*	-2.7717*
Kurtosis				5.9791*	5.9791*	5.9791*
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

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020 Location: Bruns Dain FS Trial Year: 2020
 Protocol ID: HSM050B4-2020US Investigator: Dr. Mark M. Loux
 Master Protocol ID: Study Director:
 Sponsor Contact:
 Conducted Under GEP: No Trial Origin: P public institution trial

Pest ID Code	6 W Weed	7 W Weed
Pest Code	ABUTH	SIDSP
Pest Scientific Name	Abutilon theophrasti	Sida spinosa
Pest Name	velvetleaf	sida, prickly
Crop ID Code	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001
SE Description	%Control	%Control
Part Rated	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Calculation	NC	NC
Sample Size	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT
Number of Subsamples	1	1
Data Entry Date		Aug-6-2020
Days After First/Last Applic.	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1
Number of Decimals	0	0

Trt Treatment	Rate	Other	Other	Appl	29*	30*
No. Name	Rate Unit	Rate	Rate Unit	Code		
1 UNTREATED CHECK					0 b	0 b
2 A23372A	24.8 oz ai/a	3 pt/a		A	100 a	100 a
2 INTACT	0.5 % v/v	0.5 % v/v		B		
2 CLASS ACT RIDION	1 % v/v	1 % v/v		B		
2 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B		
2 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B		
3 A23372A	29 oz ai/a	3.5 pt/a		A	100 a	100 a
3 INTACT	0.5 % v/v	0.5 % v/v		B		
3 CLASS ACT RIDION	1 % v/v	1 % v/v		B		
3 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B		
3 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B		
4 A23372A	34.7 oz ai/a	4.2 pt/a		A	100 a	100 a
4 INTACT	0.5 % v/v	0.5 % v/v		B		
4 CLASS ACT RIDION	1 % v/v	1 % v/v		B		
4 TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B		
4 ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B		

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	6 W Weed	7 W Weed
Pest Code	ABUTH	SIDSP
Pest Scientific Name	Abutilon theophrasti	Sida spinosa
Pest Name	velvetleaf	sida, prickly
Crop ID Code	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001
SE Description	%Control	%Control
Part Rated	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Calculation	NC	NC
Sample Size	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT
Number of Subsamples	1	1
Data Entry Date		Aug-6-2020
Days After First/Last Applic.	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	29*	30*
5	BOUNDARY 6.5 EC	23.4 oz ai/a	1.8 pt/a		A		100 a	100 a
5	INTACT	0.5 % v/v	0.5 % v/v		B			
5	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
5	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
5	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
6	BROADAXE XC 7 EC	21.8 oz ai/a	25 fl oz/a		A		100 a	100 a
6	INTACT	0.5 % v/v	0.5 % v/v		B			
6	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
6	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
6	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
7	SONIC 70 DF	4.5 oz ai/a	6.45 oz wt/a		A		100 a	100 a
7	INTACT	0.5 % v/v	0.5 % v/v		B			
7	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
7	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
7	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
8	FIERCE XLT 62.41 WG	2.8 oz ai/a	4.5 oz wt/a		A		100 a	100 a
8	INTACT	0.5 % v/v	0.5 % v/v		B			
8	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
8	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
8	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			
9	ZIDUA PRO 4.09 SC	3.07 oz ai/a	6 fl oz/a		A		100 a	100 a
9	INTACT	0.5 % v/v	0.5 % v/v		B			
9	CLASS ACT RIDION	1 % v/v	1 % v/v		B			
9	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B			
9	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B			

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code	6 W Weed	7 W Weed
Pest Code	ABUTH	SIDSP
Pest Scientific Name	Abutilon theophrasti	Sida spinosa
Pest Name	velvetleaf	sida, prickly
Crop ID Code	1 GLXMA	1 GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Crop Variety	Pioneer 33A24X	Pioneer 33A24X
Rating Date	Aug-6-2020	Aug-6-2020
SE Name	ZUSW001	ZUSW001
SE Description	%Control	%Control
Part Rated	PLANT -	PLANT -
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Calculation	NC	NC
Sample Size	1 PLOT	1 PLOT
Collection Basis	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT
Number of Subsamples	1	1
Data Entry Date		Aug-6-2020
Days After First/Last Applic.	85 43	85 43
Trt-Eval Interval	43 DA-B	43 DA-B
Plant-Eval Interval	85 DP-1	85 DP-1
Days After Emergence	73 DE-1	73 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Other	Other	Appl	29*	30*
		Rate Unit	Rate	Rate Unit	Code		
10	PREFIX [F]	21.1 oz ai/a	32 fl oz/a		A	100 a	100 a
10	INTACT	0.5 % v/v	0.5 % v/v		B		
10	CLASS ACT RIDION	1 % v/v	1 % v/v		B		
10	TAVIUM PLUS VAPORGRIP TECH	27.5 oz ae/a	3.53 pt/a		B		
10	ROUNDUP POWERMAX 4.5 SL	18 oz ae/a	32 fl oz/a		B		

LSD P=.05	.	.
Standard Deviation	0.0	0.0
CV	0.0	0.0
Grand Mean	90.0	90.0
Levene's F	0.00	0.00
Levene's Prob(F)	.	.
Rank X2	.	.
P(Rank X2)	.	.
Skewness	-2.7717*	-2.7717*
Kurtosis	5.9791*	5.9791*
Replicate F	0.000	0.000
Replicate Prob(F)	1.0000	1.0000
Treatment F	0.000	0.000
Treatment Prob(F)	1.0000	1.0000

The Ohio State University

S-MOC + Metribuzin + Cloransulam Efficacy and Crop Safety in Soybean (University - medium soil)

Trial ID: USNK0H4052020

Location: Bruns Dain FS

Trial Year: 2020

Protocol ID: HSM050B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director:

Sponsor Contact:

Conducted Under GEP: No

Trial Origin: P public institution trial

Pest ID Code

2, W, Weed, SETFA, Setaria faberi, foxtail, giant, = 2, W, Weed, SETFA, Setaria faberi, foxtail, giant,
 3, W, Weed, ECHCG, Echinochloa crus-galli, barnyardgrass, = 3, W, Weed, ECHCG, Echinochloa crus-galli, barnyardgrass,
 1, W, Weed, AMBTR, Ambrosia trifida, ragweed, giant, = 1, W, Weed, AMBTR, Ambrosia trifida, ragweed, giant,
 5, W, Weed, CHEAL, Chenopodium album, lambsquarters, common, = 5, W, Weed, CHEAL, Chenopodium album, lambsquarters, common,
 4, W, Weed, AMARE, Amaranthus retroflexus, pigweed, redroot, = 4, W, Weed, AMARE, Amaranthus retroflexus, pigweed, redroot,
 6, W, Weed, ABUTH, Abutilon theophrasti, velvetleaf, = 6, W, Weed, ABUTH, Abutilon theophrasti, velvetleaf,
 7, W, Weed, SIDSP, Sida spinosa, sida, prickly, = 7, W, Weed, SIDSP, Sida spinosa, sida, prickly,

Crop ID Code

1, GLXMA, BSOY, Glycine max, Soybean, Pioneer 33A24X = GLYPHOSATE-R,AUXIN-R

Part Rated

PLANT = plant

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Calculation

NC = no calculation

PLOT = total plot

PLOT = total plot

PLOT = total plot

Plant-Eval Interval

40 DP-1 = 1 GLXMA May-13-2020

49 DP-1 = 1 GLXMA May-13-2020

55 DP-1 = 1 GLXMA May-13-2020

68 DP-1 = 1 GLXMA May-13-2020

85 DP-1 = 1 GLXMA May-13-2020