

# The Ohio State University

**Acuron XR and Acuron Flexi XR: Evaluation of weed control, crop tolerance, and yield - Medium/Fine soils <3% OM**

Trial ID: 20ACURONXR

Location:

Trial Year: 2020

Protocol ID: HBI002B4-2020US

Investigator: Dr. Mark M. Loux

Master Protocol ID:

Study Director: Dr. Mark M. Loux

Sponsor Contact: Dain Bruns, Syngenta

Conducted Under GEP: No

Trial Origin:

## General Trial Information

**Study Director:** Dr. Mark M. Loux

**Investigator:** Dr. Mark M. Loux

**Discipline:** H herbicide

**Trial Status:** E established

**Trial Status Date:** Apr-23-2020 10:40 AM

**ARM Trial Created On:** Mar-26-2020

**Initiation Date:** Apr-22-2020

**Last Changed By:** Dr. Mark M. Loux

**Trial Usage/Type:** 0 Research and Development

**Protocol Revision Number:** 1.0 **Protocol Revision Date:** Mar-26-2020

## 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 °:** 39.85935 N

**Longitude of LL Corner °:** -83.6739 W

**Altitude of LL Corner:** 1092.00 FT

**Conducted Under GLP:** No

**Conducted Under GEP:** No

## Objectives:

In a one-pass PRE system, does Acuron XR or Acuron Flexi XR provide better and/or longer residual weed control that results in higher yield than Corvus, Resicore, Surestart, Harness Max or Verdict?

In a two-pass system (including glyphosate in the POST treatment), does split applications of Acuron XR or Acuron Flexi XR provide better and/or longer residual weed control that results in higher yield than split applications of Resicore, Harness Max, or programs of Corvus followed by Capreno or Verdict followed by Status?

## Contacts

**Study Director:** Dr. Mark M. Loux

**Investigator:** Dr. Mark M. Loux

## Crop Description

**Crop 1:** C ZEAMD Zea mays indentata

Dent corn

**BBCH Scale:** BCOR

**Entry Date:** Apr-23-2020

**Stage Scale:** BBCH

**Variety:** Pioneer P1197AM

**Attributes:** Glyphosate and Glufosinate Resistant

**Seed Lot No:** B3PLY13085-N

**Seed Source:** Pioneer

**% Germination:** 95

**Planting Rate:** 32097 S/A

**Planting Date:** Apr-22-2020

**Depth:** 2 IN

**Planting Method:** PLANTD planted

**Rows per Plot:** 4

**Planting Equipment:** FPP finger pickup planter

**Row Spacing:** 30 IN

**Seed Bed:** MEDIUM medium

**Soil Moisture:** NORMAL normal, adequate

**Soil Temperature:** 54 F

**Emergence Date:** May-14-2020

**Harvest Date:** Oct-14-2020

**Moisture Meter:** Harvest Master

**Harvest Equipment:** Kincaid 8XP

**Harvested Width:** 5 FT

**% Standard Moisture:** 15.5

**Harvested Length:** 30 FT

**Weighing Equipment:** Harvest Master HM800

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 Master Protocol ID: Study Director: Dr. Mark M. Loux  
 Sponsor Contact: Dain Bruns, Syngenta  
 Trial Origin:

Conducted Under GEP: No

## Pest Description

**Pest 1 Type:** W **Code:** SETFA *Setaria faberi*  
**Common Name:** foxtail, giant **Entry Date:** Jun-9-2020

**Pest 2 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** ragweed, giant **Entry Date:** Jun-9-2020

**Pest 3 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** lambsquarters, common **Entry Date:** Jun-9-2020

**Pest 4 Type:** W **Code:** POLPE *Polygonum persicaria*  
**Common Name:** ladythumb **Entry Date:** Jun-22-2020

**Pest 5 Type:** W **Code:** AMARE *Amaranthus retroflexus*  
**Common Name:** pigweed, redroot **Entry Date:** Jun-22-2020

**Pest 6 Type:** W **Code:** ABUTH *Abutilon theophrasti*  
**Common Name:** velvetleaf **Entry Date:** Jun-22-2020

**Pest 7 Type:** W **Code:** IPOHE *Ipomoea hederacea*  
**Common Name:** ivy-leaf morning glory **Entry Date:** Jun-22-2020

## 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 FT<sup>2</sup> **Treatments:** 14 **Tillage Type:** CONTIL conventional-till  
**Replications:** 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

## Trial Initiation Comments:

Fall Chisel Plow, spring finishing tool with disc, field cultivator, drag harrow, and rolling basket

## Previous

**No. Crop Year**  
 1. GLXMA 2019

## 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:** 14.8 **Fert. Level:** G good  
**Soil Drainage:** G good

## Application Description

	A	B
<b>Application Date</b>	Apr-22-2020	Jun-9-2020
<b>Appl. Start Time</b>	3:00 PM	8:00 AM
<b>Appl. Stop Time</b>	3:30 PM	8:30 AM
<b>Interval to Prev. Appl.</b>		48 DAYS
<b>Application Method</b>	NONINC	SPRAY
<b>Application Timing</b>	PREPRE	POSPOS
<b>Application Placement</b>	BROSOI	BROFOL
<b>Applied By</b>	Dobbels	Ackley
<b>Appl. Entry Date</b>	Apr-23-2020	Jun-9-2020
<b>Air Temperature Start, Stop</b>	56 57 F	69 69 F
<b>% Relative Humidity Start, Stop</b>	38 38	64 64
<b>Wind Velocity+Dir. Start</b>	7 MPH S	8 MPH ESE
<b>Wind Velocity+Dir. Stop</b>	7 MPH S	8 MPH ESE
<b>Wind Velocity+Dir. Max</b>	7 MPH S	8 MPH ESE
<b>Wet Leaves (Y/N)</b>	N no	N no
<b>Soil Temperature</b>	54 F	68 F
<b>Soil Moisture</b>	NORMAL	DRY
<b>% Cloud Cover</b>	30	15
<b>Next Moisture Occurred On</b>	Apr-23-2020	Jun-9-2020
<b>Time to Next Moisture</b>	20 HR	9.5 HR
<b>Moisture 1 Week after Appl.</b>	1.24 IN	0.37 IN

## Crop Stage At Each Application

	A	B
<b>Crop 1 Code, BBCH Scale</b>	ZEAMD BCOR	ZEAMD BCOR
<b>Stage Majority, Percent</b>		16 100
<b>Height Average</b>		18 IN
<b>Height Minimum, Maximum</b>		16 20

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Study Director: Dr. Mark M. Loux

Master Protocol ID:

Sponsor Contact: Dain Bruns, Syngenta

Conducted Under GEP: No

Trial Origin:

## Pest Stage At Each Application

	A		B	
Pest 1 Code, Type, Scale	SETFA	W BBCH	SETFA	W BBCH
Stage Majority, Percent			12	80
Stage Minimum, Percent			11	10
Stage Maximum, Percent			13	10
Height Average			3	IN
Height Minimum, Maximum			1	3
Density Average			76	PLA/m2
Density Min, Max			28	136
Pest 2 Code, Type, Scale	AMBTR	W	AMBTR	W
Stage Majority, Percent			18	80
Stage Minimum, Percent			12	10
Stage Maximum, Percent			21	10
Height Average			6	IN
Height Minimum, Maximum			1	8
Density Average			8	PLA/m2
Density Min, Max			4	12
Pest 3 Code, Type, Scale	CHEAL	W	CHEAL	W
Stage Majority, Percent			14	80
Stage Minimum, Percent			12	20
Stage Maximum, Percent			14	80
Height Average			1.5	IN
Height Minimum, Maximum			1	2
Density Average			113	PLA/m2
Density Min, Max			16	172
Pest 4 Code, Type, Scale	POLPE	W	POLPE	W
Density Average			53	PLA/m2
Density Min, Max			0	192
Pest 5 Code, Type, Scale	AMARE	W	AMARE	W
Density Average			3	PLA/m2
Density Min, Max			0	12
Pest 6 Code, Type, Scale	ABUTH	W	ABUTH	W
Density Average			5	PLA/m2
Density Min, Max			0	20
Pest 7 Code, Type, Scale	IPOHE	W	IPOHE	W
Density Average			1	PLA/m2
Density Min, Max			0	8

## Application Equipment

	A		B	
Appl. Equipment	10 Foot	TTI	10'	AIXR
Equipment Type	BACCAI		BACCAI	
Operation Pressure	44	PSI	44	PSI
Nozzle Type	TTI		AIXR	
Nozzle Size	110015		110015	
Nozzle Spacing	18	IN	18	IN
Boom Length	10	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	2	L	2	L
Propellant	COMCO2		COMCO2	

Context Date By Notes

STATUS Mar-26-2020 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'S' during trial creation.

STATUS Apr-23-2020 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

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 Master Protocol ID: Study Director: Dr. Mark M. Loux  
 Sponsor Contact: Dain Bruns, Syngenta  
 Trial Origin:

Conducted Under GEP: No

### SE Definitions

	1.	2.	3.	4.	5.	6.
<b>Rating Timing</b>	1	2	3	4	5	6
<b>SE Name</b>	ZUSW001	ZUSX001	ZUSX052_C3	ZUSX003		
<b>SE Description</b>	%Control	%PHYTO- GENERAL	YIELD/A	%PHYTO- STUNTIN G		
<b>Part Rated</b>	PLANT	PLANT	GRAIN	PLANT		
<b>Rating Type</b>	CONTRO	PHYGEN	YIELD	PHYSTU		
<b>Rating Unit</b>	%	%	BU	%		
<b>Sample Size</b>	1 PLOT 1	PLOT FT2		1 PLOT		
<b>Collection Basis</b>	1 PLOT 1	PLOT 1	PLOT	1 PLOT		
<b>Reporting Basis</b>	1 PLOT 1	PLOT 1	A	1 PLOT		
<b>Calculation</b>	NC	NC	IN	NC		
<b>Number of Subsamples</b>			1			
<b>ARM Action Codes</b>			@YLDLBBUADM[1,2]			
<b>Pest ID Code</b>						
<b>Pest Code</b>						
<b>Pest Scientific Name</b>						
<b>Pest Name</b>						
<b>Crop ID Code</b>				1 ZEAMD	1 ZEAMD	1 ZEAMD
<b>BBCH Scale</b>				BCOR	BCOR	BCOR
<b>Crop Scientific Name</b>				Zea mays indentata	Zea mays indentata	Zea mays indentata
<b>Crop Name</b>				Dent corn	Dent corn	Dent corn
<b>Crop Variety</b>				Pioneer P1197AM	Pioneer P1197AM	Pioneer P1197AM
<b>Rating Date</b>				Oct-14-2020	Oct-14-2020	Oct-14-2020
<b>SE Name</b>				ZUSX052A	ZUSX052B	ZUSX052_C3
<b>SE Description</b>				Yield/A	Yield/A	Yield/A
<b>Part Rated</b>				GRAIN -	GRAIN -	GRAIN -
<b>Rating Type</b>				YIELD	CONMOI	YIELD
<b>Rating Unit</b>				LB	%	BU
<b>Calculation</b>				IN	NC	IN
<b>Sample Size</b>				150 FT2	1 PLOT	1 A
<b>Collection Basis</b>				1 PLOT	1 PLOT	1 PLOT
<b>Reporting Basis</b>				150 FT2	1 PLOT	1 A
<b>Number of Subsamples</b>				1	1	1
<b>Assessed By</b>						
<b>Data Entry Date</b>				Oct-14-2020	Oct-14-2020	
<b>Days After First/Last Applic.</b>				175 127	175 127	175 127
<b>Trt-Eval Interval</b>						
<b>Plant-Eval Interval</b>				175 DP-1	175 DP-1	175 DP-1
<b>Days After Emergence</b>				153 DE-1	153 DE-1	153 DE-1
<b>ARM Action Codes</b>						TY1
<b>Number of Decimals</b>				1	1	1

Trt Treatment No. Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	27*	28*	29*
1 UNTREATED CHECK					4.7 f	20.1 b-e	23.2 e
2 ACURON XR	42.5 oz ai/a	3 qt/a		A	48.9 ab	20.9 abc	237.3 ab
3 ACURON FLEXI XR	31.4 oz ai/a	2.5 qt/a		A	41.7 bc	20.5 a-d	203.6 bc
4 RESICORE 3.29 SC	33 oz ai/a	2.5 qt/a		A	36.5 cde	20.5 a-e	178.3 cd
5 HARNESS MAX 3.85 SC	36 oz ai/a	75 fl oz/a		A	39.6 cd	20.7 abc	192.5 c
6 SURESTART II 4.25 SC	21.3 oz ai/a	2.5 pt/a		A	29.5 e	19.8 de	144.8 d
7 CORVUS 2.63 SC	1.84 oz ai/a	5.6 fl oz/a		A	41.1 bcd	20.0 cde	201.6 bc
8 VERDICT 5.57 EC	10.4 oz ai/a	15 fl oz/a		A	32.3 de	19.6 e	159.3 cd
9 ACURON XR	21.3 oz ai/a	1.5 qt/a		A	53.5 a	21.0 ab	259.5 a
9 AMSOL	2.5 % v/v	2.5 % v/v		B			
9 ACURON XR	21.3 oz ai/a	1.5 qt/a		B			
9 ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B			

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 Master Protocol ID: Study Director: Dr. Mark M. Loux  
 Sponsor Contact: Dain Bruns, Syngenta  
 Trial Origin:

Conducted Under GEP: No

Pest ID Code			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop ID Code	1 ZEAMD	1 ZEAMD	1 ZEAMD
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays indentata	Zea mays indentata	Zea mays indentata
Crop Name	Dent corn	Dent corn	Dent corn
Crop Variety	Pioneer P1197AM	Pioneer P1197AM	Pioneer P1197AM
Rating Date	Oct-14-2020	Oct-14-2020	Oct-14-2020
SE Name	ZUSX052A	ZUSX052B	ZUSX052_C3
SE Description	Yield/A	Yield/A	YIELD/A
Part Rated	GRAIN -	GRAIN -	GRAIN -
Rating Type	YIELD	CONMOI	YIELD
Rating Unit	LB	%	BU
Calculation	IN	NC	IN
Sample Size	150 FT2	1 PLOT	1 A
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	150 FT2	1 PLOT	1 A
Number of Subsamples	1	1	1
Assessed By			
Data Entry Date	Oct-14-2020	Oct-14-2020	
Days After First/Last Applic.	175 127	175 127	175 127
Trt-Eval Interval			
Plant-Eval Interval	175 DP-1	175 DP-1	175 DP-1
Days After Emergence	153 DE-1	153 DE-1	153 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1

Trt No.	Treatment Name	Rate	Other	Other	Appl	27*	28*	29*
		Rate Unit	Rate	Rate Unit	Code			
10	ACURON FLEXI XR	15.7 oz ai/a	1.25 qt/a		A	53.3 a	21.2 a	257.7 a
10	AMSOL	2.5 % v/v	2.5 % v/v		B			
10	ACURON FLEXI XR	15.7 oz ai/a	1.25 qt/a		B			
10	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B			
11	RESICORE 3.29 SC	16.4 oz ai/a	1.25 qt/a		A	51.9 a	20.9 abc	251.9 a
11	AMSOL	2.5 % v/v	2.5 % v/v		B			
11	RESICORE 3.29 SC	16.4 oz ai/a	1.25 qt/a		B			
11	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B			
12	HARNESS MAX 3.85 SC	16.8 oz ai/a	35 fl oz/a		A	51.6 a	21.2 a	249.7 a
12	AMSOL	2.5 % v/v	2.5 % v/v		B			
12	HARNESS MAX 3.85 SC	19.3 oz ai/a	40 fl oz/a		B			
12	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B			
13	VERDICT 5.57 EC	10.4 oz ai/a	15 fl oz/a		A	49.1 ab	21.0 ab	238.1 ab
13	AMSOL	2.5 % v/v	2.5 % v/v		B			
13	STATUS 61.1 WG	1.83 oz ai/a	3 oz wt/a		B			
13	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B			

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 Sponsor Contact: Dain Bruns, Syngenta  
 Trial Origin:

Conducted Under GEP: No

Pest ID Code			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop ID Code	1 ZEAMD	1 ZEAMD	1 ZEAMD
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays indentata	Zea mays indentata	Zea mays indentata
Crop Name	Dent corn	Dent corn	Dent corn
Crop Variety	Pioneer P1197AM	Pioneer P1197AM	Pioneer P1197AM
Rating Date	Oct-14-2020	Oct-14-2020	Oct-14-2020
SE Name	ZUSX052A	ZUSX052B	ZUSX052_C3
SE Description	Yield/A	Yield/A	YIELD/A
Part Rated	GRAIN -	GRAIN -	GRAIN -
Rating Type	YIELD	CONMOI	YIELD
Rating Unit	LB	%	BU
Calculation	IN	NC	IN
Sample Size	150 FT2	1 PLOT	1 A
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	150 FT2	1 PLOT	1 A
Number of Subsamples	1	1	1
Assessed By			
Data Entry Date	Oct-14-2020	Oct-14-2020	
Days After First/Last Applic.	175 127	175 127	175 127
Trt-Eval Interval			
Plant-Eval Interval	175 DP-1	175 DP-1	175 DP-1
Days After Emergence	153 DE-1	153 DE-1	153 DE-1
ARM Action Codes			TY1
Number of Decimals	1	1	1

Trt Treatment No. Name	Rate Rate Unit	Other Other Rate Rate Unit Code	Appl	27*	28*	29*
14 CORVUS 2.63 SC	1.08 oz ai/a	3.3 fl oz/a	A	53.8 a	21.2 a	260.3 a
14 AMSOL	2.5 % v/v	2.5 % v/v	B			
14 CAPRENO 3.45 SC	1.29 oz ai/a	3 fl oz/a	B			
14 ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a	B			
14 SUPERB HC	0.5 % v/v	0.5 % v/v	B			
LSD P=.05				9.28	0.92	44.38
Standard Deviation				6.49	0.64	31.03
CV				15.46	3.13	15.2
Grand Mean				41.97	20.60	204.12
Levene's F				2.014	2.05	2.024
Levene's Prob(F)				0.044*	0.04*	0.043*
Rank X2				.	.	.
P(Rank X2)				.	.	.
Skewness				-1.3291*	-0.4203	-1.3718*
Kurtosis				1.288*	0.6835	1.4206*
Replicate F				3.161	2.170	3.357
Replicate Prob(F)				0.0352	0.1071	0.0284
Treatment F				17.295	2.913	17.504
Treatment Prob(F)				0.0001	0.0049	0.0001

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    Trial Origin:

Pest ID Code  
 Pest Code  
 Pest Scientific Name  
 Pest Name  
 Crop ID Code      1 ZEAMD  
 BBCH Scale      BCOR  
 Crop Scientific Name      Zea mays  
    indentata  
    Dent corn  
 Crop Name      Pioneer P1197AM  
 Crop Variety  
 Rating Date      Oct-14-2020  
 SE Name  
 SE Description  
 Part Rated      GRAIN -  
 Rating Type      WEITES  
 Rating Unit      LB  
 Calculation      IN  
 Sample Size      1 QT  
 Collection Basis      1 PLOT  
 Reporting Basis      1 PLOT  
 Number of Subsamples      1  
 Assessed By  
 Data Entry Date      Oct-14-2020  
 Days After First/Last Applic.      175 127  
 Trt-Eval Interval  
 Plant-Eval Interval      175 DP-1  
 Days After Emergence      153 DE-1  
 ARM Action Codes  
 Number of Decimals      1

Trt No.	Treatment Name	Rate	Other	Other	Appl	
		Rate	Rate	Rate	Unit	Code
						30*
1	UNTREATED CHECK					56.2 -
2	ACURON XR	42.5 oz ai/a	3 qt/a		A	57.0 -
3	ACURON FLEXI XR	31.4 oz ai/a	2.5 qt/a		A	55.7 -
4	RESICORE 3.29 SC	33 oz ai/a	2.5 qt/a		A	56.8 -
5	HARNESS MAX 3.85 SC	36 oz ai/a	75 fl oz/a		A	56.2 -
6	SURESTART II 4.25 SC	21.3 oz ai/a	2.5 pt/a		A	56.5 -
7	CORVUS 2.63 SC	1.84 oz ai/a	5.6 fl oz/a		A	56.1 -
8	VERDICT 5.57 EC	10.4 oz ai/a	15 fl oz/a		A	55.6 -
9	ACURON XR	21.3 oz ai/a	1.5 qt/a		A	57.1 -
9	AMSOL	2.5 % v/v	2.5 % v/v		B	
9	ACURON XR	21.3 oz ai/a	1.5 qt/a		B	
9	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B	

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Conducted Under GEP: No

Pest ID Code  
 Pest Code  
 Pest Scientific Name  
 Pest Name  
 Crop ID Code 1 ZEAMD  
 BBCH Scale BCOR  
 Crop Scientific Name Zea mays  
 indentata  
 Crop Name Dent corn  
 Crop Variety Pioneer P1197AM  
 Rating Date Oct-14-2020  
 SE Name  
 SE Description  
 Part Rated GRAIN -  
 Rating Type WEITES  
 Rating Unit LB  
 Calculation IN  
 Sample Size 1 QT  
 Collection Basis 1 PLOT  
 Reporting Basis 1 PLOT  
 Number of Subsamples 1  
 Assessed By  
 Data Entry Date Oct-14-2020  
 Days After First/Last Applic. 175 127  
 Trt-Eval Interval  
 Plant-Eval Interval 175 DP-1  
 Days After Emergence 153 DE-1  
 ARM Action Codes  
 Number of Decimals 1

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	
10	ACURON FLEXI XR	15.7 oz ai/a	1.25 qt/a		A	56.3 -
10	AMSOL	2.5 % v/v	2.5 % v/v		B	
10	ACURON FLEXI XR	15.7 oz ai/a	1.25 qt/a		B	
10	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B	
11	RESICORE 3.29 SC	16.4 oz ai/a	1.25 qt/a		A	56.8 -
11	AMSOL	2.5 % v/v	2.5 % v/v		B	
11	RESICORE 3.29 SC	16.4 oz ai/a	1.25 qt/a		B	
11	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B	
12	HARNESS MAX 3.85 SC	16.8 oz ai/a	35 fl oz/a		A	56.9 -
12	AMSOL	2.5 % v/v	2.5 % v/v		B	
12	HARNESS MAX 3.85 SC	19.3 oz ai/a	40 fl oz/a		B	
12	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B	
13	VERDICT 5.57 EC	10.4 oz ai/a	15 fl oz/a		A	57.0 -
13	AMSOL	2.5 % v/v	2.5 % v/v		B	
13	STATUS 61.1 WG	1.83 oz ai/a	3 oz wt/a		B	
13	ROUNDUP POWERMAX 4.5 SL	12.4 oz ae/a	22 fl oz/a		B	





# The Ohio State University

**Acuron XR and Acuron Flexi XR: Evaluation of weed control, crop tolerance, and yield - Medium/Fine soils <3% OM**

Trial ID: 20ACURONXR

Location:

Trial Year: 2020

Protocol ID: HB1002B4-2020US

Investigator: Dr. Mark M. Loux

Study Director: Dr. Mark M. Loux

Master Protocol ID:

Sponsor Contact: Dain Bruns, Syngenta

Conducted Under GEP: No

Trial Origin:

Crop ID Code

1, ZEAMD, BCOR, Zea mays indentata, Dent corn, Pioneer P1197AM = Glyphosate and Glufosinate Resistant

Part Rated

GRAIN = grain

Rating Type

YIELD = yield

CONMOI = content - moisture

WEITES = weight - test

Rating Unit

LB = pound

% = percent

BU = bushel

Calculation

IN = increase

NC = no calculation

FT2 = square foot

PLOT = total plot

A = acre

QT = quart

PLOT = total plot

FT2 = square foot

PLOT = total plot

A = acre

Plant-Eval Interval

175 DP-1 = 1 ZEAMD Apr-22-2020

ARM Action Codes

TY1 = 5.185714\*[27]\*(100-[28])/84.5