

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021	
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean		
Master Protocol ID:	Study Director: Ryan Lins		
	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

Reps: 4 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment		Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction	Amt Product to Measure	Diluent	Rep			
	Name													1	2	3	4
1	CHK	UNTREATED CHECK									X		-	101	209	308	412
2	HERB	BICEP II MAGNUM	660 gA/L	SC		2470 g ai/ha	1.6 qt/a			1 A	X	40.01 mL/mx	1460.0 mL	102	202	311	403
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1386.7 mL				
	ADJ	NIS		SL		0.25 % v/v	0.25 % v/v			1 B	X	3.75 mL/mx					
	HERB	ACURON GT	514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a			1 B	X	46.97 mL/mx					
3	HERB	LEXAR EZ 3.7 ZC	443.8 gA/L	ZC		1870 g ai/ha	1.8 qt/a			1 A	X	45.05 mL/mx	1455.0 mL	103	208	309	406
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1386.7 mL				
	ADJ	NIS		SL		0.25 % v/v	0.25 % v/v			1 B	X	3.75 mL/mx					
	HERB	ACURON GT	514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a			1 B	X	46.97 mL/mx					
4	HERB	SURESTART II 4.25 SC	509.26 gA/L	SC		1040 g ai/ha	1.75 pt/a			1 A	X	21.83 mL/mx	1478.2 mL	104	206	305	407
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1386.7 mL				
	ADJ	NIS		SL		0.25 % v/v	0.25 % v/v			1 B	X	3.75 mL/mx					
	HERB	ACURON GT	514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a			1 B	X	46.97 mL/mx					
5	HERB	HARNESS XTRA 5.6L	672 gA/L	SC		2830 g ai/ha	1.8 qt/a			1 A	X	45.02 mL/mx	1455.0 mL	105	210	304	411
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1386.7 mL				
	ADJ	NIS		SL		0.25 % v/v	0.25 % v/v			1 B	X	3.75 mL/mx					
	HERB	ACURON GT	514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a			1 B	X	46.97 mL/mx					
6	HERB	VERDICT 5.57 EC	667 gA/L	EC		682 g ai/ha	14 fl oz/a			1 A	X	10.93 mL/mx	1489.1 mL	106	203	307	401
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1386.7 mL				
	ADJ	NIS		SL		0.25 % v/v	0.25 % v/v			1 B	X	3.75 mL/mx					
	HERB	ACURON GT	514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a			1 B	X	46.97 mL/mx					
7	HERB	SURESTART II 4.25 SC	509.26 gA/L	SC		1040 g ai/ha	1.75 pt/a			1 A	X	21.83 mL/mx	1478.2 mL	107	201	302	402
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1385.5 mL				
	HERB	RESICORE 3.29 SC	394.4 gA/L	SC		1150 g ai/ha	1.25 qt/a			1 B	X	31.17 mL/mx					
	HERB	ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL		1050 g ae/ha	26.6 fl oz/a			1 B	X	20.79 mL/mx					
8	HERB	HARNESS XTRA 5.6L	672 gA/L	SC		2830 g ai/ha	1.8 qt/a			1 A	X	45.02 mL/mx	1455.0 mL	108	212	312	408
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1414.3 mL				
	HERB	LAUDIS 3.5 SC	420 gA/L	SC		92.1 g ai/ha	3 fl oz/a			1 B	X	2.344 mL/mx					
	HERB	ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL		1050 g ae/ha	26.6 fl oz/a			1 B	X	20.79 mL/mx					
9	HERB	VERDICT 5.57 EC	667 gA/L	EC		487 g ai/ha	10 fl oz/a			1 A	X	7.806 mL/mx	1492.2 mL	109	207	301	405
	ADJ	AMSOL		SL		5.85 l/ha	2.5 qt/a			1 B	X	62.54 mL/mx	1402.6 mL				
	HERB	ARMEZON PRO	642.5 gA/L	EC		845 g ai/ha	18 fl oz/a			1 B	X	14.06 mL/mx					
	HERB	ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL		1050 g ae/ha	26.6 fl oz/a			1 B	X	20.79 mL/mx					
10	HERB	ACURON XR	424.57 gA/L	ZC		3470 g ai/ha	3.5 qt/a			1 A	X	87.37 mL/mx	1412.6 mL	110	211	303	409

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Trt No.	Treatment		Form Conc	Form Unit	Form Type	Rate Rate	Other Rate	Other Unit	Min #	Appl Code	Crop Destruction	Amt Product to Measure	Diluent	Rep				
	Type	Name												1	2	3	4	
11	HERB	ACURON XR	424.57	gA/L	ZC	2980	g ai/ha	3	qt/a	1	A	X	75.04	mL/mx	111	205	310	410
12	HERB	HARNESS MAX 3.85 SC	462	gA/L	SC	2530	g ai/ha	75	fl oz/a	1	A	X	58.54	mL/mx	112	204	306	404

Sort Order: Treatment

Trial Comments

A = PRE
 B = POST (V3-V4)

NIS = INDUCE (HELENA)

****SUPERB HC WAS NOT INCLUDED IN TRT 8 POST**

BICEP II MAGNUM = ATRAZINE (3.1 LBS/GAL) + S-METOLACHLOR (2.4 LBS/GAL)
LEXAR EZ = S-METOLACHLOR (1.74 LBS/GAL) + MESOTRIONE (0.224 LBS/GAL) + ATRAZINE (1.74 LBS/GAL)
SURESTART = ACETOCHLOR (3.75 LBS/GAL) + CLOPYRALID (0.38 LBS/GAL) + FLUMETSULAM (0.12 LBS/GAL)
HARNESS XTRA = ACETOCHLOR (3.1 LBS/GAL) + ATRAZINE (2.5 LBS/GAL)
VERDICT = SAFLUFENACIL (0.57 LBS/GAL) + DIMETHENAMID-P (5.0 LBS/GAL)
ARMEZON PRO = TOPRAMEZONE (0.1 LBS/GAL) + DIMETHENAMID-P (5.25 LBS/GAL)
HARNESS MAX = ACETOCHLOR (3.52 LBS/GAL) + MESOTRIONE (0.33 LBS/GAL)
ACURON GT = MESOTRIONE (0.20 LBS/GAL) + BICYCLOPYRONE (0.09 LBS/GAL) + GLYPHOSATE (2.0 LBS/GAL) + S-METOLACHLOR (2.0 LBS/GAL)
ACURON XR = MESOTRIONE (0.23 LBS/GAL) + BICYCLOPYRONE (0.05 LBS AI/GAL) + ATRAZINE (0.86 LBS/GAL) + S-METOLACHLOR (2.41 LBS/GAL)
RESICORE = ACETOCHLOR (2.8 LBS/GAL) + MESOTRIONE (0.30 LBS/GAL) + CLOPYRALID (0.19 LBS/GAL)

HARVEST MOISTURE: 15.67%
 YIELDS ADJUSTED TO 15.5%

SUMMARY:

- 1) NO SIGNIFICANT CROP INJURY WAS OBSERVED FROM ANY PRE TREATMENT.
- 2) PRE APPLICATIONS OF HARNESS XTRA, SURESTART, AND VERDICT WERE LESS EFFECTIVE ON WILD RADISH THAN OTHER PRE'S.
- 3) PRE APPLICATIONS OF ACURON XR @ 3.5 QT/A PROVIDED THE BEST EARLY SEASON ANNUAL GRASS CONTROL.
- 4) POST APPLICATIONS OF ACURON GT CAUSED FIELD CORN STUNTING AND CHLOROSIS BUT INJURY WAS TRANSIENT.
- 5) WEED CONTROL RATINGS ON OBTAINED ON MAY 13 (45 DAP) INDICATED THE FOLLOWING:

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Trial Year: 2021

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Master Protocol ID:

Study Director: Ryan Lins

Sponsor Contact: Mark Kitt

Conducted Under GEP: No

Trial Origin: P public institution trial

- A) PALMER AMARANTH CONTROL WAS > 90% WITH ALL TREATMENTS EXCEPT HARNESS XTRA (PRE) FB ROUNDUP + LAUDIS (POST) = 88% CONTROL AND HARNESS MAX (PRE) = 66% CONTROL.
- B) WILD RADISH CONTROL WAS > 87% WITH ALL TREATMENTS EXCEPT FOR HARNESS XTRA (PRE) FB ROUNDUP + LAUDIS (POST) = 69% CONTROL; VERDICT (PRE) FB ROUNDUP + ARMEZON PRO (POST) = 76% CONTROL; ACURON XR (PRE) = 72-75% CONTROL; AND HARNESS MAX (PRE) = 64% CONTROL.
- C) ANNUAL GRASS CONTROL WAS 90+% WITH ALL TREATMENTS EXCEPT FOR SURESTART (PRE) FB RESICORE + ROUNDUP (POST) = 80% CONTROL; HARNESS XTRA (PRE) FB ROUNDUP + LAUDIS (POST) = 78% CONTROL; ACURON XR (PRE) = 71-79% CONTROL; AND HARNESS MAX (PRE) = 49% CONTROL.
- 6) ALL HERBICIDE TREATED PLOTS HAD SIGNIFICANTLY HIGHER YIELDS THAN THE NTC.
- 7) LEXAR EZ (PRE) FB ACURON GT (POST) (TRT #3) RESULTED IN SIGNIFICANTLY LOWER YIELDS THAN 6 OTHER TREATMENTS.

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 Master Protocol ID: Study Director: Ryan Lins
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 Conducted Under GEP: No Trial Origin: P public institution trial

General Trial Information

Study Director: Ryan Lins **Title:** _____
Investigator: Henry McLean **Title:** _____

Discipline: H herbicide
Trial Status: E established
Trial Status Date: Feb-15-21 2:24 PM **Last Export Date:** _____ **Trial Reliability:** _____
ARM Trial Created On: Feb-15-21 **Last Changed By:** Eric P. Prostko
Initiation Date: Feb-15-21 **Trial Usage/Type:** 0 Research and Development
Completion Date: Sep-15-21 **Planned Completion Date:** _____ **Interim Data Due:** _____
Protocol Revision Number: 1.0 **Protocol Revision Date:** Feb-15-21

Test Facility: _____
GEP Accreditation Number: _____
GEP Accreditation Link: _____

Trial Location

Address (Location): UGA Ponder Reseach Site
City: Ty Ty **Country:** USA United States
State/Prov.: Georgia **Region:** _____
Postal Code: 31789 **Climate Zone:** _____

Upper Left: _____ **Upper Right:** _____
Latitude of LL Corner °: 31.50614 N **Lower Right:** _____
Longitude of LL Corner °: -83.66012 W
GPS Accuracy of LL Corner: _____
Altitude of LL Corner: _____
Angle y-axis to North °: _____

Directions:

Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Other Trial ID:** CN-07-21
Study Rules: _____

No.	Guideline	Description
1.		

Objectives:

- Are there differences in weed control, crop safety and yield among treatments containing Acuron GT, Acuron XR brands and other competitive products?

Conclusions:

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 Conducted Under GEP: No Trial Origin: P public institution trial

Contacts	
<p>Role: STYDIR study director</p> <p>Study Director: Ryan Lins</p> <p>Organization: Syngenta</p> <p>Address 1: 2000 Country Rd. 121 NE</p> <p>Address 2: _____</p> <p>Country: USA United States</p> <p>City: Rochester, MN</p> <p>Role: INVEST investigator</p> <p>Investigator: Henry McLean</p> <p>Organization: Syngenta</p> <p>Address 1: 4032 Roundtop Circle</p> <p>Address 2: _____</p> <p>Country: USA United States</p> <p>City: Perry, GA</p> <p>Role: SPONSR sponsor</p> <p>Sponsor: Mark Kitt</p> <p>Organization: Syngenta</p> <p>Address 1: 410 Swing Rd.</p> <p>Address 2: _____</p> <p>Country: USA United States</p> <p>City: Greensboro, NC</p> <p>Role: COOPER cooperater</p> <p>Cooperator: Dr. Eric Prostko</p> <p>Organization: University of Georgia</p> <p>Address 1: 2360 Rainwater Rd.(mail)</p> <p>Address 2: 4604 Research Way(shipping)</p> <p>Country: USA United States</p> <p>City: Tifton</p> <p>Role: _____</p> <p>Contact Name 5: _____</p> <p>Organization: _____</p> <p>Address 1: _____</p> <p>Address 2: _____</p> <p>Country: _____</p> <p>City: _____</p>	<p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: 507-775-6683 Mobile No.: 507-251-5524</p> <p>E-mail: ryan.lins@syngenta.com</p> <p>State/Prov: _____ Postal Code: 55906</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: 478-987-5916 Mobile No.: 478-244-3860</p> <p>E-mail: henry.mclean@syngenta.com</p> <p>State/Prov: _____ Postal Code: 31069</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: _____ Mobile No.: 816-206-9137</p> <p>E-mail: mark.kitt@syngenta.com</p> <p>State/Prov: _____ Postal Code: 27409</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: _____ Mobile No.: 2293921034</p> <p>E-mail: eprostko@uga.edu</p> <p>State/Prov: GA Postal Code: 31793</p> <p>Title: _____</p> <p>Org. Type: _____</p> <p>Phone No.: _____ Mobile No.: _____</p> <p>E-mail: _____</p> <p>State/Prov: _____ Postal Code: _____</p>

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Crop Description

Crop 1: C ZEAMD Zea mays indentata Dent corn **BBCH Scale:** BCOR
Entry Date: Mar-29-21 **Stage Scale:** BBCH
Variety: DKC-6208
Attributes: GLYPHOSATE-R
Seed Lot No: _____ **Seed Source:** _____
% Germination: _____ **1000 Grain Weight:** _____

Perennial Age: _____
Nursery Date: _____ **Planting Rate:** 50 S/ROWm
Planting Date: Mar-29-21 **Planting Density:** 36300 S/A
Depth: 2 IN **Planting Method:** _____
Rows per Plot: 2 **Planting Equipment:** VP vacuum planter
Row Spacing: 36 IN **Seed Bed:** _____
Spacing within Row: _____ **Soil Moisture:** EXCELL excellent
Soil Temperature: _____

Emergence Date: _____ **Plant Arrangement:** _____

Harvest Date: _____ **Plant Shape:** _____
Moisture Meter: _____ **Harvest Equipment:** _____
% Standard Moisture: 15.5 **Harvested Width:** 6 FT
Weighing Equipment: _____ **Harvested Length:** 25 FT

Pest Description

Pest 1 Type: W **Code:** AMAPA *Amaranthus palmeri* **Entry Date:** Apr-13-21
Common Name: Palmer amaranth **Stage Scale:** BBCH
Attributes: _____ **Artificial Population:** N

Establishment Date: _____ **Stage at Establishment:** _____
Establishment Rate: _____
Concentration: _____
Establishment Method/Description: _____
Crop: _____ **Stage at Infestation:** _____

Pest 2 Type: W **Code:** RAPRA *Raphanus raphanistrum* **Entry Date:** Apr-13-21
Common Name: Wild radish **Stage Scale:** BBCH
Attributes: _____ **Artificial Population:** N

Establishment Date: _____ **Stage at Establishment:** _____
Establishment Rate: _____
Concentration: _____
Establishment Method/Description: _____
Crop: _____ **Stage at Infestation:** _____

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Trial ID: USS10H3022021 Location: McLean Henry FS Trial Year: 2021
 Protocol ID: HBI008A4-2021US Investigator (Creator): Henry McLean
 Master Protocol ID: Study Director: Ryan Lins
 Sponsor Contact: Mark Kitt
 Conducted Under GEP: No Trial Origin: P public institution trial

<p>Pest 3 Type: W Code: GGGAN Annual grasses Common Name: Annual grasses Attributes: _____</p> <p>Establishment Date: _____ Establishment Rate: _____ Concentration: _____ Establishment Method/Description: _____ Crop: _____ Stage at Infestation: _____</p> <p>Pest 4 Type: W Code: ARHHY Arachis hypogaea Common Name: Groundnut Attributes: VOLUNTEER PEANUT</p> <p>Establishment Date: _____ Establishment Rate: _____ Concentration: _____ Establishment Method/Description: _____ Crop: _____ Stage at Infestation: _____</p> <p>Pest 5 Type: W Code: CYPES Cyperus esculentus Common Name: Yellow nutsedge Attributes: _____</p> <p>Establishment Date: _____ Establishment Rate: _____ Concentration: _____ Establishment Method/Description: _____ Crop: _____ Stage at Infestation: _____</p> <p>Pest 6 Type: W Code: IPOLA Ipomoea lacunosa Common Name: pitted morning glory Attributes: _____</p> <p>Establishment Date: _____ Establishment Rate: _____ Concentration: _____ Establishment Method/Description: _____ Crop: _____ Stage at Infestation: _____</p>	<p style="text-align: right;">Entry Date: Apr-13-21 Stage Scale: BBCH Artificial Population: N</p> <p style="text-align: right;">Stage at Establishment: _____</p> <p style="text-align: right;">Entry Date: Apr-13-21 Stage Scale: BBCH Artificial Population: N</p> <p style="text-align: right;">Stage at Establishment: _____</p> <p style="text-align: right;">Entry Date: Apr-19-21 Stage Scale: BBCH Artificial Population: _</p> <p style="text-align: right;">Stage at Establishment: _____</p> <p style="text-align: right;">Entry Date: Apr-19-21 Stage Scale: BBCH Artificial Population: _</p> <p style="text-align: right;">Stage at Establishment: _____</p>
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Site and Design

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Treated Plot Width: 6 FT **Total Plot Width:** 6 FT **Site Type:** FIELD field
Treated Plot Length: 25 FT **Total Plot Length:** 25 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 150.0 FT2 **Treatments:** 12 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)
% Slope: _____

Trial Initiation Comments:

No.	Previous Crop	Previous Pest Type	Previous Pest	Previous Pesticides	Year
1.	ARRHY				2020

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix
1.										

Comment:

Field Prep./Maintenance:

800 LBS/A 5-15-30 PREPLANT;
 127-0-0-16 (S) SIDEDRESS ON APRIL 19 AND APRIL 29
 AXILO BMZ (MICRO-NUTRIENTS) @ 2 LBS/A ON APRIL 20

Soil Description

Description Name: _____
% Sand: 94 **% OM:** 0.6 **Texture:** SAND
% Silt: 4 **pH:** 6.0 **Soil Name:** TIFTON
% Clay: 2 **CEC:** 2.6 **Fert. Level:** _
Soil Drainage: G good
Analyzed By: _____

Additional Measured Elements

Date	Element	Quantity	Unit

Weather Conditions

Overall Moisture Conditions: _____
Closest Weather Station: UGA TY TY STATION **Distance:** 0.5 MI

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No.	Date	Time	Moisture Total	Unit	Precipitation	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Min % Relative Humidity	Max % Relative Humidity	Avg % Relative Humidity	Min Wind	Max Wind	Avg Wind	Unit	% Cloud Cover	Avg Shortwave Radiation	Unit	Avg Soil Tem	
1.	Mar-28-21		0.1	IN																		
2.	Mar-31-21		0.6	IN																		
3.	Mar-31-21		0.8	IN																		
4.	Apr-7-21		0.5	IN																		
5.	Apr-9-21		0.27	IN																		
6.	Apr-10-21		0.05	IN																		
7.	Apr-11-21		0.08	IN																		
8.	Apr-17-21		0.1	IN																		
9.	Apr-18-21		0.01	IN																		
10.	Apr-20-21		0.35	IN																		
11.	Apr-24-21		6	IN																		
12.	May-3-21		0.1	IN																		
13.	May-4-21		1.15	IN																		
14.	May-11-21		0.5	IN																		
15.	May-11-21		0.15	IN																		
16.	May-12-21		0.6	IN																		

Comment:
 IRRIGATION/RAINFALL TYPE;

MARCH 31 (0.6"), APRIL 7, APRIL 20, MAY 11 (0.5') = LATERAL MOVE IRRIGATION
 MARCH 31 (0.8"), APRIL 9, APRIL 10, APRIL 11, APRIL 17, APRIL 18, APRIL 24, MAY 3, MAY 4, MAY 11 (0.15'), MAY 12 = RAINFALL

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Application Description

	A	B
Application Date	Mar-29-21	Apr-19-21
Appl. Start Time	2:00 PM	7:00 AM
Appl. Stop Time	2:30 PM	7:30 AM
Application Method	NONINC	NONINC
Application Timing	PREPRE	POSPOS
Application Placement	BROSOI	BROFOL
Applied By	EPP	EPP
Appl. Entry Date	Mar-29-21	Apr-19-21
Air Temperature Start, Stop	68, 68 F	56, 56 F
% Relative Humidity Start, Stop	36, 36	74, 74
Wind Velocity+Dir. Start	4 MPH,	2 MPH,
Wind Velocity+Dir. Stop	4 MPH,	2 MPH,
Wind Velocity+Dir. Max	,	,
Wet Leaves (Y/N)	N, no	Y, yes
Soil Temperature	78 F	62 F
Soil Moisture	OPTIMUM	OPTIMUM
% Cloud Cover	0	15
Next Moisture Occurred On		
Time to Next Moisture		
Moisture 1 Week after Appl.		

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	ZEAMD, BCOR	ZEAMD, BCOR
Stage Majority, Percent	,	14,
Stage Minimum, Percent	,	13,
Stage Maximum, Percent	,	,
Diameter Average		
Diameter Minimum, Maximum	,	,
Height Average		7 IN
Height Minimum, Maximum	,	,
Density Average		
Density Minimum, Maximum	,	,
Total Canopy Height		
Treated Canopy Height		
Treated Leaf Wall Area		
Treated LWA Formula		
Treated LWA per Plot		
Total Leaf Wall Area		
Total LWA Formula		
Tree/Crop Row Volume (m3/ha)		
Coverage		

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	AMAPA, W, BBCH	AMAPA, W, BBCH
Stage Majority, Percent	,	,
Stage Minimum, Percent	,	,
Stage Maximum, Percent	,	,
Diameter Average		
Diameter Minimum, Maximum	,	,
Height Average		
Height Minimum, Maximum	,	,

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Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021 Location: McLean Henry FS Trial Year: 2021
 Protocol ID: HBI008A4-2021US Investigator (Creator): Henry McLean
 Master Protocol ID: Study Director: Ryan Lins
 Sponsor Contact: Mark Kitt

Conducted Under GEP: No Trial Origin: P public institution trial

Density Average		
Density Minimum, Maximum	,	,
Crop Part Attacked, Code	,	,
Pest 2 Code, Type, Scale	RAPRA, W, BBCH	RAPRA, W, BBCH
Stage Majority, Percent	,	,
Stage Minimum, Percent	,	,
Stage Maximum, Percent	,	,
Diameter Average		
Diameter Minimum, Maximum	,	,
Height Average		2 IN
Height Minimum, Maximum	,	,
Density Average		
Density Minimum, Maximum	,	,
Crop Part Attacked, Code	,	,
Pest 3 Code, Type, Scale	GGGAN, W, BBCH	GGGAN, W, BBCH
Stage Majority, Percent	,	,
Stage Minimum, Percent	,	,
Stage Maximum, Percent	,	,
Diameter Average		
Diameter Minimum, Maximum	,	,
Height Average		1 IN
Height Minimum, Maximum	,	,
Density Average		
Density Minimum, Maximum	,	,
Crop Part Attacked, Code	,	,
Pest 4 Code, Type, Scale	ARHHY, W, BBCH	ARHHY, W, BBCH
Stage Majority, Percent	,	,
Stage Minimum, Percent	,	,
Stage Maximum, Percent	,	,
Diameter Average		
Diameter Minimum, Maximum	,	,

University of Georgia

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Height Average			
Height Minimum, Maximum	,	,	
Density Average			
Density Minimum, Maximum	,	,	
Crop Part Attacked, Code	,	,	
Pest 5 Code, Type, Scale	CYPES, W, BBCH	CYPES, W, BBCH	
Stage Majority, Percent	,	,	
Stage Minimum, Percent	,	,	
Stage Maximum, Percent	,	,	
Diameter Average			
Diameter Minimum, Maximum	,	,	
Height Average		5 IN	
Height Minimum, Maximum	,	,	
Density Average			
Density Minimum, Maximum	,	,	
Crop Part Attacked, Code	,	,	
Pest 6 Code, Type, Scale	IPOLA, W, BBCH	IPOLA, W, BBCH	
Stage Majority, Percent	,	,	
Stage Minimum, Percent	,	,	
Stage Maximum, Percent	,	,	
Diameter Average			
Diameter Minimum, Maximum	,	,	
Height Average		2 IN	
Height Minimum, Maximum	,	,	
Density Average			
Density Minimum, Maximum	,	,	
Crop Part Attacked, Code	,	,	

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Application Equipment

	A	B
Appl. Equipment		
Equipment Type	BACCAI	BACCAI
Operation Pressure	35 PSI	35 PSI
Nozzle Model	11002	11002
Nozzle Type	AIXR	AIXR
Nozzle TradeName		
Nozzle Tip Size, Color	,	,
Nozzle Spacing	20.0 IN	20.0 IN
Nozzles/Row		
Band Width		
% Coverage		
Row Sides Applied		
Concentration Factor		
Boom ID		
Boom Length	60.0 IN	60.0 IN
Boom Height	20.0 IN	20.0 IN
Ground Speed	3.5 MPH	3.5 KPH
Carrier	WATER	WATER
Water Hardness (ppm CaCO3)		
Application Amount	15 GAL/AC	15 GAL/AC
Mix Overage		
Mix Size	1.5 L	1.5 L
Spray pH		
Propellant	COMCO2	COMCO2
Tank Mix (Y/N)	,	,

Treatment Appl. Comments

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Notes			
Context	Date	By	Notes
STATUS	Feb-15-21	Henry McLean	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Feb-15-21	Henry McLean	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

Deviations

No. 1: Date: _____ By: _____

Deviations:

Reasons:

SE Definitions			
	1.	2.	3.
Rating Timing	1	2	3
SE Name	ZUSW001	ZUSX001	ZUSX052_C3
SE Description	%CONTR OL	%PHYTO - GENERA L	YIELD/A
Part Rated	PLANT,	PLANT,	GRAIN,
Rating Type	CONTRO	PHYGEN	YIELD
Rating Unit/Min/Max	%, ,	%, ,	BU, ,
Sample Size	1 PLOT	1 PLOT	FT2
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Reporting Basis	1 PLOT	1 PLOT	1 A
Calculation	NC	NC	IN
Number of Subsamples			1
ARM Action Codes			@YLDLBBUADM[1,2]
Pest Type, Code	,	,	,
Crop Type, Code	,	,	,
No. Task Comment	1. _____		

Instructions:
CROPS: Corn (ZEAMD) – One regionally popular GT Hybrid

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TARGETS: Difficult to control and/or GLY-R weeds (Primary: AMAPA, AMATA, AMBTR. Secondary: CHEAL, IPOSS, KCHSC, SASKR, ECHCG)

OBJECTIVES:

- Are there differences in weed control, crop safety and yield among treatments containing Acuron GT, Acuron XR brands and other competitive products?

SPECIAL PROTOCOL TASKS:

- If possible, irrigate trial for PRE herbicide activation if no activating rainfall occurs or is expected 5-7 days after application
- Use a GT hybrid with large market share in your area
- Use appropriate buffer rows (minimum 10 ft) around the trial for yield
- Place in area with very high weed density
- If the soil is coarse, contact your Syngenta representative for rate adjustments

ADDITIONAL DATA REQUIREMENTS:

- **Crop:** At all applications – growth stage (BBCH) and height. At establishment - variety, attributes (including AI traits), and planting date, method, rate, equipment, depth, and row spacing
- **Pest - Weed:** growth stage range (BBCH or number of leaves) and height required at each application, density, attributes (identify AI resistance), natural/artificial population
- **Application Time Weather:** beginning/ending temps (air and soil), %RH, wind details; wet leaves (Y/N); soil moisture; cloud cover.
- **Applications via Liquids:** spray volume, nozzle/type and screens, spray pressure, ground speed, boom height, carrier, propellant
- **Soil** - sand:silt:clay, %OM, pH, CEC, and soil texture
- **Trial Rainfall and Irrigation:** overall moisture conditions, closest weather station, and rainfall/irrigation data from planting to 4 weeks after application.

EXPERIMENTAL DESIGN AND PLOT DIMENSIONS:

- RCB
- 4 replications
- Plot size: Appropriate for assessments, please use 4-8 border rows around the trial

TREATMENT DETAILS:

- Water Volume: 15- 20 GPA
- Coarse to ultra-coarse droplets are necessary. Nozzle type must be recorded in the NOZZLE DESCRIPTION field, located in the APPLICATION tab.

Application Timing:

A = PREEMERGENCE

B = POSTEMERGENCE (V2 or 3-4" corn height)

FORMULATION OBSERVATIONS:

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Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

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● Please inform the Syngenta contact if any abnormal characteristics, such as excessive settling, separation, nozzle clogging due to particulate matter, etc. are observed with any of the products as soon as possible by e-mail or phone.

MAINTENANCE DETAILS:

● Please maintain trial appropriately for yield

ASSESSMENT TIMING SUMMARY:

Schedule assessments as follows: DA-B is days after B (POST) application.

Evaluation 1: At B application - CONTROL, PHYGEN

Evaluation 2: 7 DA-B (+/-2) - PHYGEN

Evaluation 3: 28 DA-B (+/-3) - PHYGEN, CONTROL and PHOTOS of most representative replication

Evaluation 4: 56 DA-B (+/-3) - CONTROL, PHOTOS of most representative replication

Evaluation 5: Yield (adjusted to 15.5% moisture)

If severe injury (>15%) is observed, please inform Syngenta contact.

ASSESSMENT DETAILS:

*Use "SE" description attached to the protocol to help standardize evaluations.

PHYGEN, General Phytotoxicity (%/plot) (ZUSX001): Visually assess crop injury (%) due to the treatment (ignoring any environmental stress affect) at the time of the assessment. PHYGEN represents an overall phytotoxicity assessment and could include necrosis, chlorosis, stunting, epinasty, etc. PHYGEN ratings range from 0 to 100%, with the untreated check (or running check) representing 0% PHYGEN and complete death representing 100% PHYGEN. Compare the treated crop to the untreated check (or running check) in each replicate. If no phytotoxicity is observed, record data as zeroes in ARM for each requested assessment date. Describe any symptomology in the comments section.

WEED CONTROL (%/Plot), (ZUSW001): Visually assess % weed control due to the treatment for each weed species independently. Identify genus and species of each weed. Document known resistant types in the pest description tab in the Attributes field even if only a small percentage is resistant. Compare the treated plots to the untreated check (or running check) within each replicate to determine % weed control. Ratings range from 100% being complete control and 0% representing weed populations/growth similar to what is observed in the untreated check. Only assess species present at a sufficient density/consistency for reliable ratings.

YIELD (BU/A): corn yield at maturity adjusted to 15.5% moisture.

PHOTOS

● Photos should be compiled by the Syngenta trial manager (including photos from cooperators) and preferentially attached to the DAT file for cloud export. Additional training will be provided in 2021, with supporting BioTeam documentation saved to the "G" drive folder named "2021-Herbicide-PRT-Photos". Use of the G drive for photo storage is being phased out.

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REPORT DATA BY: Weed control, crop safety and yield by 12/15/2021 with 1/15/2022 exception

OTHER NOTES:**CROP DESTRUCT:**

Plots, and/or harvested material from plots, from this trial must be destroyed to ensure that no plant material enters the food or feed system. Any exception can only be granted, in writing, from Syngenta Crop Protection.

SAFETY AND STEWARDSHIP OF TEST SUBSTANCES IN THIS PROTOCOL

- Research and development protocols include unregistered Test Substances (or product uses) which may have incomplete health and safety profiles.
- Organizations and individuals conducting or participating in experiments with these Test Substances are expected to be properly trained and licensed and have policies in place to ensure participant safety, environmental safety and compliance with local, State and Federal regulations.
- The best available source of safety hazard information, and protective measures, associated with these test substances can be found on the Safety Data Sheet (SDS), which is sent with the Test Substance. Where available on the SDS, these measures should be followed. At a minimum, Syngenta recommends that research participants (mixers, handlers, applicators, and those reentering the treated area within 24 hours of application) wear personal protective equipment (PPE), which includes chemical resistant clothing (e.g. gloves, footwear, goggles, coveralls, hat, etc.) as appropriate for the activity to prevent contact exposure -- and a respirator using NIOSH approved P100/OV/AG cartridges.
- Contact your Syngenta representative should you have any questions.

DESIGN CODES:

Scientists should order these products directly from Starlims.

Bicep II Magnum = A9560D
Lexar EZ = A17622G
Acuron GT = A23011C
Acuron XR = A22668C
AMSOL = CA323U
Induce NIS = CA4944A
Superb HC = CA4832A

Recommend University cooperator provide competitive products.

Verdict = A18468A
Armezon Pro = A21898A
Resicore = A22062A
Roundup PowerMax = A13270M
Harness Xtra 5.6 = A12742A
Harness Max = A22681A
Surestart II = A21601A

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Laudis = A19642A

Geographic Area/Environmental Considerations:

Cropping Considerations:

Data to Collect:

Statistical Analysis:

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Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

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Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

Pest Code																		
Crop ID Code																		
Rating Date																		
Rating Type																		
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl #	Crop Code	1, ZEAMD Apr-14-21 Injury	AMAPA Apr-14-21 Control	RAPRA Apr-14-21 Control	GGGAN Apr-14-21 Control	1, ZEAMD Apr-19-21 Injury	AMAPA Apr-19-21 Control	RAPRA Apr-19-21 Control	GGGAN Apr-19-21 Control
											1	2	3	4	5	6	7	8
1	CHK UNTREATED CHECK									X	0.0 a	0.0 b	0.0 h	0.0 d	0.0 a	0.0 b	0.0 f	0.0 e
2	HERB BICEP II MAGNUM	660 gA/L		SC	2470 g ai/ha	1.6 qt/a		1	A	X	0.0 a	99.0 a	85.0 bc	85.0 bc	0.0 a	99.0 a	92.0 a	70.0 cd
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X								
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X								
3	HERB LEXAR EZ 3.7 ZC	443.8 gA/L		ZC	1870 g ai/ha	1.8 qt/a		1	A	X	0.0 a	99.0 a	83.8 bcd	77.5 c	0.0 a	99.0 a	96.8 a	61.3 d
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X								
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X								
4	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X	0.0 a	99.0 a	72.5 ef	92.5 ab	1.3 a	99.0 a	67.5 bc	80.0 bc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X								
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X								
5	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X	0.0 a	99.0 a	77.5 de	90.0 ab	0.0 a	99.0 a	72.5 b	77.5 bc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X								
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X								
6	HERB VERDICT 5.57 EC	667 gA/L		EC	682 g ai/ha	14 fl oz/a		1	A	X	0.0 a	99.0 a	67.5 f	91.3 ab	0.0 a	99.0 a	58.8 d	83.8 ab
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X								
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X								
7	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X	0.0 a	99.0 a	66.3 f	85.0 bc	1.3 a	99.0 a	68.8 bc	78.8 bc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	HERB RESICORE 3.29 SC	394.4 gA/L		SC	1150 g ai/ha	1.25 qt/a		1	B	X								
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X								
8	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X	0.0 a	99.0 a	81.3 cd	93.8 a	0.0 a	99.0 a	65.0 cd	76.3 bc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X								
	HERB LAUDIS 3.5 SC	420 gA/L		SC	92.1 g ai/ha	3 fl oz/a		1	B	X								
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X								

Means followed by same letter or symbol do not significantly differ (P=, 10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,2,6,11,12,17 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

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										1, ZEAMD Apr-14-21 Injury	AMAPA Apr-14-21 Control	RAPRA Apr-14-21 Control	GGGAN Apr-14-21 Control	1, ZEAMD Apr-19-21 Injury	AMAPA Apr-19-21 Control	RAPRA Apr-19-21 Control	GGGAN Apr-19-21 Control	
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction	1	2	3	4	5	6	7	8
9	HERB VERDICT 5.57 EC ADJ AMSOL	667 gA/L	EC	SL	487 g ai/ha 5.85 l/ha	10 fl oz/a 2.5 qt/a		1	A	X	0.0 a	99.0 a	57.5 g	85.0 bc	0.0 a	99.0 a	47.5 e	76.3 bc
	HERB ARMEZON PRO	642.5 gA/L	EC	SL	845 g ai/ha	18 fl oz/a		1	B	X								
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL	SL	1050 g ae/ha	26.6 fl oz/a		1	B	X								
10	HERB ACURON XR	424.57 gA/L	ZC	SL	3470 g ai/ha	3.5 qt/a		1	A	X	0.0 a	99.0 a	94.5 a	97.0 a	0.0 a	99.0 a	99.0 a	92.3 a
11	HERB ACURON XR	424.57 gA/L	ZC	SL	2980 g ai/ha	3 qt/a		1	A	X	0.0 a	99.0 a	92.5 a	91.0 ab	0.0 a	99.0 a	94.5 a	82.5 ab
12	HERB HARNESS MAX 3.85 SC	462 gA/L	SC	SL	2530 g ai/ha	75 fl oz/a		1	A	X	0.0 a	99.0 a	90.0 ab	96.0 a	1.3 a	99.0 a	95.5 a	83.8 ab
LSD P=.10											.	.	6.68	8.52	1.48	.	7.34	10.53
Standard Deviation											0.00	0.00	5.58	7.12	1.24	0.00	6.13	8.80
CV											0.0	0.0	7.72	8.68	395.94	0.0	8.58	12.25
Grand Mean											0.00	90.75	72.35	82.00	0.31	90.75	71.48	71.85
Bartlett's X2^											.	.	11.204	28.347	42.099	.	38.148	11.653
P(Bartlett's X2)											.	.	0.426	0.003*	0.00*	.	0.00*	0.39

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,2,6,11,12,17 because error mean square = 0.
 ^Calculated from residual.

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	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

Pest Code																			
Crop ID Code																			
Rating Date																			
Rating Type																			
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl #	Crop Code	Crop Destruction	9	10	11	12	13	14	15	16
1	CHK UNTREATED CHECK									X		0.0 f	0.0 e	0.0 a	0.0 b	0.0 e	0.0 d	0.0 d	0.0 c
2	HERB BICEP II MAGNUM	660 gA/L		SC	2470 g ai/ha	1.6 qt/a		1	A	X		10.0 cde	10.0 b	0.0 a	99.0 a	97.0 a	99.0 a	5.0 cd	2.5 bc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X									
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X									
3	HERB LEXAR EZ 3.7 ZC	443.8 gA/L		ZC	1870 g ai/ha	1.8 qt/a		1	A	X		11.3 bcd	7.5 bc	0.0 a	99.0 a	94.5 abc	98.0 a	6.3 c	5.0 ab
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X									
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X									
4	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X		20.0 a	10.0 b	0.0 a	99.0 a	98.0 a	99.0 a	21.3 a	2.5 bc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X									
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X									
5	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X		8.8 de	13.8 a	0.0 a	99.0 a	95.8 ab	98.0 a	0.0 d	7.5 a
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X									
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X									
6	HERB VERDICT 5.57 EC	667 gA/L		EC	682 g ai/ha	14 fl oz/a		1	A	X		13.8 b	10.0 b	0.0 a	99.0 a	99.0 a	99.0 a	12.5 b	3.8 b
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X									
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X									
7	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X		13.8 b	5.0 cd	0.0 a	99.0 a	95.8 ab	99.0 a	6.3 c	0.0 c
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	HERB RESICORE 3.29 SC	394.4 gA/L		SC	1150 g ai/ha	1.25 qt/a		1	B	X									
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X									
8	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X		7.5 e	2.5 de	0.0 a	99.0 a	90.0 c	96.0 a	0.0 d	0.0 c
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X									
	HERB LAUDIS 3.5 SC	420 gA/L		SC	92.1 g ai/ha	3 fl oz/a		1	B	X									
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X									

Means followed by same letter or symbol do not significantly differ (P=, 10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,2,6,11,12,17 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USS10H3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

Pest Code																		
Crop ID Code																		
Rating Date																		
Rating Type																		
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl #	Crop Code	9	10	11	12	13	14	15	16
9	HERB VERDICT 5.57 EC ADJ AMSOL	667 gA/L		EC	487 g ai/ha	10 fl oz/a		1	A	X	12.5 bc	3.8 d	0.0 a	99.0 a	97.0 a	99.0 a	12.5 b	0.0 c
	HERB ARMEZON PRO	642.5 gA/L		EC	845 g ai/ha	18 fl oz/a		1	B	X								
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X								
10	HERB ACURON XR	424.57 gA/L		ZC	3470 g ai/ha	3.5 qt/a		1	A	X	8.8 de	2.5 de	0.0 a	99.0 a	92.3 bc	94.5 a	2.5 cd	0.0 c
11	HERB ACURON XR	424.57 gA/L		ZC	2980 g ai/ha	3 qt/a		1	A	X	8.8 de	2.5 de	0.0 a	99.0 a	90.0 c	87.3 b	1.3 cd	0.0 c
12	HERB HARNESS MAX 3.85 SC	462 gA/L		SC	2530 g ai/ha	75 fl oz/a		1	A	X	8.8 de	5.0 cd	0.0 a	99.0 a	85.0 d	68.8 c	2.5 cd	0.0 c
LSD P=.10												3.46	3.20	.	4.65	5.06	5.16	3.13
Standard Deviation												2.89	2.67	0.00	0.00	3.89	4.23	4.31
CV												28.02	44.21	0.0	0.0	4.51	4.89	73.85
Grand Mean												10.31	6.04	0.00	90.75	86.19	86.46	5.83
Bartlett's X2^												8.616	55.56	.	23.955	45.01	20.647	37.963
P(Bartlett's X2)												0.657	0.00*	.	0.013*	0.00*	0.037*	0.00*

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 ^Calculated from residual.

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021	
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean		
Master Protocol ID:	Study Director: Ryan Lins		
	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

Pest Code												1, ZEAMD	AMAPA	RAPRA	GGGAN	1, ZEAMD	1, ZEAMD
Crop ID Code												May-13-21	May-13-21	May-13-21	May-13-21	Sep-7-21	Sep-7-21
Rating Date												Necrosis	Control	Control	Control	LBS/PLOT	YIELD
Rating Type												17	18	19	20	21	22
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl #	Crop Code	Crop Destruction						
1	CHK UNTREATED CHECK										X	0.0 a	0.0 e	0.0 d	0.0 d	40.3 d	208.3 d
2	HERB BICEP II MAGNUM	660 gA/L		SC	2470 g ai/ha	1.6 qt/a		1	A	X		0.0 a	98.0 ab	91.3 a	92.3 a	49.3 ab	254.9 ab
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X							
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X							
3	HERB LEXAR EZ 3.7 ZC	443.8 gA/L		ZC	1870 g ai/ha	1.8 qt/a		1	A	X		0.0 a	99.0 a	87.5 a	93.5 a	46.0 c	238.1 c
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X							
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X							
4	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X		0.0 a	96.8 ab	88.8 a	90.0 a	49.3 ab	254.9 ab
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X							
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X							
5	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X		0.0 a	99.0 a	91.3 a	95.0 a	48.0 abc	248.4 abc
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X							
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X							
6	HERB VERDICT 5.57 EC	667 gA/L		EC	682 g ai/ha	14 fl oz/a		1	A	X		0.0 a	98.0 ab	88.8 a	93.5 a	50.0 a	258.8 a
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v		1	B	X							
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a		1	B	X							
7	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X		0.0 a	92.0 bc	90.0 a	80.0 b	50.3 a	260.1 a
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	HERB RESICORE 3.29 SC	394.4 gA/L		SC	1150 g ai/ha	1.25 qt/a		1	B	X							
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X							
8	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X		0.0 a	87.5 c	68.8 bc	77.5 b	50.3 a	260.1 a
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X							
	HERB LAUDIS 3.5 SC	420 gA/L		SC	92.1 g ai/ha	3 fl oz/a		1	B	X							
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X							

Means followed by same letter or symbol do not significantly differ (P= .10, LSD).
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 Could not calculate LSD (% mean diff) for columns 1,2,6,11,12,17 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

										1, ZEAMD May-13-21 Necrosis	AMAPA May-13-21 Control	RAPRA May-13-21 Control	GGGAN May-13-21 Control	1, ZEAMD Sep-7-21 LBS/PLOT	1, ZEAMD Sep-7-21 YIELD	
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction	17	18	19	20	21	22
9	HERB VERDICT 5.57 EC ADJ AMSOL	667 gA/L		EC SL	487 g ai/ha 5.85 l/ha	10 fl oz/a 2.5 qt/a			1 A 1 B	X X	0.0 a	98.0 ab	76.3 b	97.0 a	47.3 bc	244.5 bc
	HERB ARMEZON PRO HERB ROUNDUP POWERMAX 4.5 SL	642.5 gA/L 540 gAE/L		EC SL	845 g ai/ha 1050 g ae/ha	18 fl oz/a 26.6 fl oz/a			1 B 1 B	X X						
10	HERB ACURON XR	424.57 gA/L		ZC	3470 g ai/ha	3.5 qt/a			1 A	X	0.0 a	95.8 ab	75.0 b	78.5 b	46.8 bc	241.9 bc
11	HERB ACURON XR	424.57 gA/L		ZC	2980 g ai/ha	3 qt/a			1 A	X	0.0 a	96.0 ab	72.5 b	71.3 b	48.3 abc	249.7 abc
12	HERB HARNESS MAX 3.85 SC	462 gA/L		SC	2530 g ai/ha	75 fl oz/a			1 A	X	0.0 a	66.3 d	63.8 c	48.8 c	49.0 ab	253.6 ab
LSD P=.10											.	6.45	7.51	9.61	2.53	13.11
Standard Deviation											0.00	5.39	6.28	8.03	2.12	10.96
CV											0.0	6.3	8.43	10.5	4.42	4.42
Grand Mean											0.00	85.52	74.48	76.44	47.88	247.77
Bartlett's X2^											.	33.17	24.01	18.638	13.45	13.45
P(Bartlett's X2)											.	0.00*	0.013*	0.068	0.265	0.265

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 Could not calculate LSD (% mean diff) for columns 1,2,6,11,12,17 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

Randomized Complete Block (RCB) AOV For 1 ZEAMD Apr-14-21 Injury (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	33	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For AMAPA Apr-14-21 Control (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For RAPRA Apr-14-21 Control (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	29690.979167			
Replicate	3	183.729167	61.243056	1.965	0.1384
Treatment	11	28478.729167	2588.975379	83.067	0.0001
Error	33	1028.520833	31.167298		

Randomized Complete Block (RCB) AOV For GGGAN Apr-14-21 Control (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	32502.000000			
Replicate	3	144.333333	48.111111	0.949	0.4283
Treatment	11	30684.500000	2789.500000	55.018	0.0001
Error	33	1673.166667	50.702020		

Randomized Complete Block (RCB) AOV For 1 ZEAMD Apr-19-21 Injury (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	70.312500			
Replicate	3	5.729167	1.909722	1.247	0.3083
Treatment	11	14.062500	1.278409	0.835	0.6077
Error	33	50.520833	1.530934		

Randomized Complete Block (RCB) AOV For AMAPA Apr-19-21 Control (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For RAPRA Apr-19-21 Control (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36593.979167			
Replicate	3	6.229167	2.076389	0.055	0.9826
Treatment	11	35346.729167	3213.339015	85.446	0.0001
Error	33	1241.020833	37.606692		

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

Randomized Complete Block (RCB) AOV For GGGAN Apr-19-21 Control (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	28025.979167			
Replicate	3	367.562500	122.520833	1.582	0.2123
Treatment	11	25102.729167	2282.066288	29.467	0.0001
Error	33	2555.687500	77.445076		

Randomized Complete Block (RCB) AOV For 1 ZEAMD Apr-30-21 Stunting (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	1320.312500			
Replicate	3	55.729167	18.576389	2.225	0.1037
Treatment	11	989.062500	89.914773	10.769	0.0001
Error	33	275.520833	8.349116		

Randomized Complete Block (RCB) AOV For 1 ZEAMD Apr-30-21 Chlorosis (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	997.916667			
Replicate	3	2.083333	0.694444	0.097	0.9609
Treatment	11	760.416667	69.128788	9.690	0.0001
Error	33	235.416667	7.133838		

Randomized Complete Block (RCB) AOV For 1 ZEAMD Apr-30-21 Necrosis (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	33	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For AMAPA Apr-30-21 Control (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	35937.000000			
Replicate	3	0.000000	0.000000	0.000	1.0000
Treatment	11	35937.000000	3267.000000	0.000	1.0000
Error	33	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For RAPRA Apr-30-21 Control (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	33685.312500			
Replicate	3	46.229167	15.409722	1.019	0.3967
Treatment	11	33140.062500	3012.732955	199.231	0.0001
Error	33	499.020833	15.121843		

Randomized Complete Block (RCB) AOV For GGGAN Apr-30-21 Control (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36627.916667			
Replicate	3	46.250000	15.416667	0.862	0.4705
Treatment	11	35991.416667	3271.946970	182.930	0.0001
Error	33	590.250000	17.886364		

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

Randomized Complete Block (RCB) AOV For 1 ZEAMD May-13-21 Stunt (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	2616.666667			
Replicate	3	112.500000	37.500000	2.020	0.1301
Treatment	11	1891.666667	171.969697	9.265	0.0001
Error	33	612.500000	18.560606		

Randomized Complete Block (RCB) AOV For 1 ZEAMD May-13-21 Chlorosis (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	524.479167			
Replicate	3	18.229167	6.076389	0.889	0.4569
Treatment	11	280.729167	25.520833	3.734	0.0016
Error	33	225.520833	6.833965		

Randomized Complete Block (RCB) AOV For 1 ZEAMD May-13-21 Necrosis (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	11	0.000000000000	0.000000000000	0.000	1.0000
Error	33	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For AMAPA May-13-21 Control (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36661.979167			
Replicate	3	95.729167	31.909722	1.100	0.3631
Treatment	11	35608.729167	3237.157197	111.565	0.0001
Error	33	957.520833	29.015783		

Randomized Complete Block (RCB) AOV For RAPRA May-13-21 Control (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	29711.979167			
Replicate	3	80.729167	26.909722	0.683	0.5689
Treatment	11	28330.729167	2575.520833	65.352	0.0001
Error	33	1300.520833	39.409722		

Randomized Complete Block (RCB) AOV For GGGAN May-13-21 Control (Data Column 20)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	36631.812500			
Replicate	3	753.229167	251.076389	3.895	0.0173
Treatment	11	33751.562500	3068.323864	47.604	0.0001
Error	33	2127.020833	64.455177		

Randomized Complete Block (RCB) AOV For 1 ZEAMD Sep-7-21 LBS/PLOT (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	513.250000			
Replicate	3	28.083333	9.361111	2.088	0.1206
Treatment	11	337.250000	30.659091	6.840	0.0001
Error	33	147.916667	4.482323		

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021 Location: McLean Henry FS Trial Year: 2021
 Protocol ID: HBI008A4-2021US Investigator (Creator): Henry McLean
 Master Protocol ID: Study Director: Ryan Lins
 Sponsor Contact: Mark Kitt
 Conducted Under GEP: No Trial Origin: P public institution trial

Randomized Complete Block (RCB) AOV For 1 ZEAMD Sep-7-21 YIELD (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	47	13746.651136			
Replicate	3	752.171040	250.723680	2.088	0.1206
Treatment	11	9032.748359	821.158942	6.840	0.0001
Error	33	3961.731737	120.052477		

Crop ID Code

1, ZEAMD, BCOR, Zea mays indentata, Dent corn, DKC-6208 = GLYPHOSATE-R

Rating Type

Stunt = stunting

YIELD = yield

ARM Action Codes

TY1 = 5.17528149*[21]

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

										1, ZEAMD Apr-14-21 Injury	AMAPA Apr-14-21 Control	RAPRA Apr-14-21 Control	GGGAN Apr-14-21 Control	1, ZEAMD Apr-19-21 Injury	AMAPA Apr-19-21 Control	RAPRA Apr-19-21 Control		
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction Plot	1	2	3	4	5	6	7	
7	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X	107	0.0	99.0	60.0	90.0	0.0	99.0	60.0
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X	201	0.0	99.0	65.0	85.0	0.0	99.0	75.0
	HERB RESICORE 3.29 SC	394.4 gA/L		SC	1150 g ai/ha	1.25 qt/a		1	B	X	302	0.0	99.0	65.0	85.0	0.0	99.0	65.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X	402	0.0	99.0	75.0	80.0	5.0	99.0	75.0
											Mean =	0.0	99.0	66.3	85.0	1.3	99.0	68.8
8	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X	108	0.0	99.0	80.0	90.0	0.0	99.0	65.0
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X	212	0.0	99.0	85.0	95.0	0.0	99.0	65.0
	HERB LAUDIS 3.5 SC	420 gA/L		SC	92.1 g ai/ha	3 fl oz/a		1	B	X	312	0.0	99.0	85.0	95.0	0.0	99.0	65.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X	408	0.0	99.0	75.0	95.0	0.0	99.0	65.0
											Mean =	0.0	99.0	81.3	93.8	0.0	99.0	65.0
9	HERB VERDICT 5.57 EC	667 gA/L		EC	487 g ai/ha	10 fl oz/a		1	A	X	109	0.0	99.0	50.0	85.0	0.0	99.0	50.0
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X	207	0.0	99.0	50.0	95.0	0.0	99.0	40.0
	HERB ARMEZON PRO	642.5 gA/L		EC	845 g ai/ha	18 fl oz/a		1	B	X	301	0.0	99.0	65.0	65.0	0.0	99.0	50.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X	405	0.0	99.0	65.0	95.0	0.0	99.0	50.0
											Mean =	0.0	99.0	57.5	85.0	0.0	99.0	47.5
10	HERB ACURON XR	424.57 gA/L		ZC	3470 g ai/ha	3.5 qt/a		1	A	X	110	0.0	99.0	85.0	95.0	0.0	99.0	99.0
											211	0.0	99.0	99.0	99.0	0.0	99.0	99.0
											303	0.0	99.0	95.0	95.0	0.0	99.0	99.0
											409	0.0	99.0	99.0	99.0	0.0	99.0	99.0
											Mean =	0.0	99.0	94.5	97.0	0.0	99.0	99.0
11	HERB ACURON XR	424.57 gA/L		ZC	2980 g ai/ha	3 qt/a		1	A	X	111	0.0	99.0	95.0	90.0	0.0	99.0	99.0
											205	0.0	99.0	90.0	85.0	0.0	99.0	95.0
											310	0.0	99.0	90.0	90.0	0.0	99.0	99.0
											410	0.0	99.0	95.0	99.0	0.0	99.0	85.0
											Mean =	0.0	99.0	92.5	91.0	0.0	99.0	94.5
12	HERB HARNESS MAX 3.85 SC	462 gA/L		SC	2530 g ai/ha	75 fl oz/a		1	A	X	112	0.0	99.0	95.0	95.0	0.0	99.0	99.0
											204	0.0	99.0	85.0	95.0	0.0	99.0	99.0
											306	0.0	99.0	95.0	99.0	0.0	99.0	99.0
											404	0.0	99.0	85.0	95.0	5.0	99.0	85.0
											Mean =	0.0	99.0	90.0	96.0	1.3	99.0	95.5

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021	
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean		
Master Protocol ID:	Study Director: Ryan Lins		
	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

										GGGAN	1, ZEAMD	1, ZEAMD	1, ZEAMD	AMAPA	RAPRA	GGGAN	
										Apr-19-21	Apr-30-21	Apr-30-21	Apr-30-21	Apr-30-21	Apr-30-21	Apr-30-21	
										Control	Stunting	Chlorosis	Necrosis	Control	Control	Control	
Rating Date										8	9	10	11	12	13	14	
Rating Type																	
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction Plot							
7	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a		1	A	X	107	65.0	10.0	5.0	0.0	99.0	95.0
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X	201	75.0	15.0	5.0	0.0	99.0	90.0
	HERB RESICORE 3.29 SC	394.4 gA/L		SC	1150 g ai/ha	1.25 qt/a		1	B	X	302	90.0	10.0	5.0	0.0	99.0	99.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X	402	85.0	20.0	5.0	0.0	99.0	99.0
											Mean =	78.8	13.8	5.0	0.0	99.0	95.8
8	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a		1	A	X	108	85.0	5.0	0.0	0.0	99.0	95.0
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X	212	70.0	5.0	5.0	0.0	99.0	85.0
	HERB LAUDIS 3.5 SC	420 gA/L		SC	92.1 g ai/ha	3 fl oz/a		1	B	X	312	75.0	10.0	5.0	0.0	99.0	85.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X	408	75.0	10.0	0.0	0.0	99.0	95.0
											Mean =	76.3	7.5	2.5	0.0	99.0	90.0
9	HERB VERDICT 5.57 EC	667 gA/L		EC	487 g ai/ha	10 fl oz/a		1	A	X	109	75.0	15.0	5.0	0.0	99.0	99.0
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a		1	B	X	207	80.0	10.0	0.0	0.0	99.0	95.0
	HERB ARMEZON PRO	642.5 gA/L		EC	845 g ai/ha	18 fl oz/a		1	B	X	301	65.0	10.0	5.0	0.0	99.0	95.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a		1	B	X	405	85.0	15.0	5.0	0.0	99.0	99.0
											Mean =	76.3	12.5	3.8	0.0	99.0	97.0
10	HERB ACURON XR	424.57 gA/L		ZC	3470 g ai/ha	3.5 qt/a		1	A	X	110	85.0	5.0	5.0	0.0	99.0	95.0
											211	90.0	10.0	5.0	0.0	99.0	90.0
											303	95.0	10.0	0.0	0.0	99.0	85.0
											409	99.0	10.0	0.0	0.0	99.0	99.0
											Mean =	92.3	8.8	2.5	0.0	99.0	92.3
11	HERB ACURON XR	424.57 gA/L		ZC	2980 g ai/ha	3 qt/a		1	A	X	111	85.0	10.0	5.0	0.0	99.0	85.0
											205	85.0	10.0	5.0	0.0	99.0	95.0
											310	65.0	5.0	0.0	0.0	99.0	85.0
											410	95.0	10.0	0.0	0.0	99.0	95.0
											Mean =	82.5	8.8	2.5	0.0	99.0	90.0
12	HERB HARNESS MAX 3.85 SC	462 gA/L		SC	2530 g ai/ha	75 fl oz/a		1	A	X	112	90.0	5.0	5.0	0.0	99.0	85.0
											204	75.0	10.0	5.0	0.0	99.0	85.0
											306	95.0	5.0	5.0	0.0	99.0	85.0
											404	75.0	15.0	5.0	0.0	99.0	85.0
											Mean =	83.8	8.8	5.0	0.0	99.0	85.0

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USS10H3022021	Location: McLean Henry FS	Trial Year: 2021
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean	
Master Protocol ID:	Study Director: Ryan Lins	
	Sponsor Contact: Mark Kitt	
Conducted Under GEP: No	Trial Origin: P public institution trial	

										1, ZEAMD May-13-21 Stunt	1, ZEAMD May-13-21 Chlorosis	1, ZEAMD May-13-21 Necrosis	AMAPA May-13-21 Control	RAPRA May-13-21 Control	GGGAN May-13-21 Control	1, ZEAMD Sep-7-21 LBS/PLOT	
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction Plot	15	16	17	18	19	20	21
1	CHK UNTREATED CHECK									X	101	209	308	412	Mean =		
											0.0	0.0	0.0	0.0	0.0	0.0	45.0
											0.0	0.0	0.0	0.0	0.0	0.0	39.0
											0.0	0.0	0.0	0.0	0.0	0.0	37.0
											0.0	0.0	0.0	0.0	0.0	0.0	40.0
											0.0	0.0	0.0	0.0	0.0	0.0	40.3
2	HERB BICEP II MAGNUM	660 gA/L	SC		2470 g ai/ha	1.6 qt/a		1	A	X	102	ADJ AMSOL	202	ADJ NIS	311	HERB ACURON GT	403
					5.85 l/ha	2.5 qt/a		1	B	X	202		202				
					0.25 % v/v	0.25 % v/v		1	B	X	311		311				
		514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a		1	B	X	403		403				
											10.0	0.0	0.0	99.0	90.0	85.0	50.0
											0.0	0.0	0.0	95.0	85.0	95.0	50.0
											0.0	5.0	0.0	99.0	95.0	99.0	46.0
											10.0	5.0	0.0	99.0	95.0	90.0	51.0
											5.0	2.5	0.0	98.0	91.3	92.3	49.3
3	HERB LEXAR EZ 3.7 ZC	443.8 gA/L	ZC		1870 g ai/ha	1.8 qt/a		1	A	X	103	ADJ AMSOL	208	ADJ NIS	309	HERB ACURON GT	406
					5.85 l/ha	2.5 qt/a		1	B	X	208		208				
					0.25 % v/v	0.25 % v/v		1	B	X	309		309				
		514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a		1	B	X	406		406				
											10.0	5.0	0.0	99.0	85.0	95.0	49.0
											10.0	5.0	0.0	99.0	85.0	85.0	42.0
											0.0	10.0	0.0	99.0	95.0	99.0	46.0
											5.0	0.0	0.0	99.0	85.0	95.0	47.0
											6.3	5.0	0.0	99.0	87.5	93.5	46.0
4	HERB SURESTART II 4.25 SC	509.26 gA/L	SC		1040 g ai/ha	1.75 pt/a		1	A	X	104	ADJ AMSOL	206	ADJ NIS	305	HERB ACURON GT	407
					5.85 l/ha	2.5 qt/a		1	B	X	206		206				
					0.25 % v/v	0.25 % v/v		1	B	X	305		305				
		514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a		1	B	X	407		407				
											25.0	0.0	0.0	90.0	90.0	90.0	52.0
											20.0	0.0	0.0	99.0	85.0	85.0	48.0
											20.0	0.0	0.0	99.0	90.0	90.0	48.0
											20.0	10.0	0.0	99.0	90.0	95.0	49.0
											21.3	2.5	0.0	96.8	88.8	90.0	49.3
5	HERB HARNESS XTRA 5.6L	672 gA/L	SC		2830 g ai/ha	1.8 qt/a		1	A	X	105	ADJ AMSOL	210	ADJ NIS	304	HERB ACURON GT	411
					5.85 l/ha	2.5 qt/a		1	B	X	210		210				
					0.25 % v/v	0.25 % v/v		1	B	X	304		304				
		514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a		1	B	X	411		411				
											0.0	10.0	0.0	99.0	95.0	95.0	48.0
											0.0	0.0	0.0	99.0	85.0	95.0	47.0
											0.0	10.0	0.0	99.0	90.0	95.0	49.0
											0.0	10.0	0.0	99.0	95.0	95.0	48.0
											0.0	7.5	0.0	99.0	91.3	95.0	48.0
6	HERB VERDICT 5.57 EC	667 gA/L	EC		682 g ai/ha	14 fl oz/a		1	A	X	106	ADJ AMSOL	203	ADJ NIS	307	HERB ACURON GT	401
					5.85 l/ha	2.5 qt/a		1	B	X	203		203				
					0.25 % v/v	0.25 % v/v		1	B	X	307		307				
		514.35 gA/L	ZC		2260 g ai/ha	3.75 pt/a		1	B	X	401		401				
											15.0	5.0	0.0	99.0	90.0	95.0	48.0
											10.0	5.0	0.0	95.0	85.0	85.0	51.0
											20.0	5.0	0.0	99.0	90.0	95.0	48.0
											5.0	0.0	0.0	99.0	90.0	99.0	53.0
											12.5	3.8	0.0	98.0	88.8	93.5	50.0

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021	
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean		
Master Protocol ID:	Study Director: Ryan Lins		
	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

										1, ZEAMD May-13-21 Stunt	1, ZEAMD May-13-21 Chlorosis	1, ZEAMD May-13-21 Necrosis	AMAPA May-13-21 Control	RAPRA May-13-21 Control	GGGAN May-13-21 Control	1, ZEAMD Sep-7-21 LBS/PLOT		
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction Plot	15	16	17	18	19	20	21	
7	HERB SURESTART II 4.25 SC	509.26 gA/L	SC	1040 g ai/ha	1.75 pt/a			1	A	X	107	15.0	0.0	0.0	99.0	85.0	75.0	51.0
	ADJ AMSOL		SL	5.85 l/ha	2.5 qt/a			1	B	X	201	0.0	0.0	0.0	85.0	90.0	75.0	52.0
	HERB RESICORE 3.29 SC	394.4 gA/L	SC	1150 g ai/ha	1.25 qt/a			1	B	X	302	5.0	0.0	0.0	85.0	90.0	85.0	50.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL	1050 g ae/ha	26.6 fl oz/a			1	B	X	402	5.0	0.0	0.0	99.0	95.0	85.0	48.0
	Mean =											6.3	0.0	0.0	92.0	90.0	80.0	50.3
8	HERB HARNESS XTRA 5.6L	672 gA/L	SC	2830 g ai/ha	1.8 qt/a			1	A	X	108	0.0	0.0	0.0	85.0	75.0	85.0	51.0
	ADJ AMSOL		SL	5.85 l/ha	2.5 qt/a			1	B	X	212	0.0	0.0	0.0	95.0	65.0	65.0	50.0
	HERB LAUDIS 3.5 SC	420 gA/L	SC	92.1 g ai/ha	3 fl oz/a			1	B	X	312	0.0	0.0	0.0	80.0	65.0	65.0	50.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL	1050 g ae/ha	26.6 fl oz/a			1	B	X	408	0.0	0.0	0.0	90.0	70.0	95.0	50.0
	Mean =											0.0	0.0	0.0	87.5	68.8	77.5	50.3
9	HERB VERDICT 5.57 EC	667 gA/L	EC	487 g ai/ha	10 fl oz/a			1	A	X	109	20.0	0.0	0.0	99.0	80.0	99.0	48.0
	ADJ AMSOL		SL	5.85 l/ha	2.5 qt/a			1	B	X	207	15.0	0.0	0.0	99.0	65.0	95.0	48.0
	HERB ARMEZON PRO	642.5 gA/L	EC	845 g ai/ha	18 fl oz/a			1	B	X	301	5.0	0.0	0.0	95.0	80.0	99.0	45.0
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L	SL	1050 g ae/ha	26.6 fl oz/a			1	B	X	405	10.0	0.0	0.0	99.0	80.0	95.0	48.0
	Mean =											12.5	0.0	0.0	98.0	76.3	97.0	47.3
10	HERB ACURON XR	424.57 gA/L	ZC	3470 g ai/ha	3.5 qt/a			1	A	X	110	0.0	0.0	0.0	90.0	65.0	65.0	49.0
											211	10.0	0.0	0.0	95.0	85.0	75.0	41.0
											303	0.0	0.0	0.0	99.0	65.0	75.0	49.0
											409	0.0	0.0	0.0	99.0	85.0	99.0	48.0
	Mean =											2.5	0.0	0.0	95.8	75.0	78.5	46.8
11	HERB ACURON XR	424.57 gA/L	ZC	2980 g ai/ha	3 qt/a			1	A	X	111	5.0	0.0	0.0	99.0	65.0	50.0	46.0
											205	0.0	0.0	0.0	95.0	90.0	75.0	49.0
											310	0.0	0.0	0.0	95.0	65.0	75.0	49.0
											410	0.0	0.0	0.0	95.0	70.0	85.0	49.0
	Mean =											1.3	0.0	0.0	96.0	72.5	71.3	48.3
12	HERB HARNESS MAX 3.85 SC	462 gA/L	SC	2530 g ai/ha	75 fl oz/a			1	A	X	112	0.0	0.0	0.0	60.0	60.0	40.0	49.0
											204	0.0	0.0	0.0	50.0	65.0	40.0	49.0
											306	0.0	0.0	0.0	80.0	65.0	65.0	48.0
											404	10.0	0.0	0.0	75.0	65.0	50.0	50.0
	Mean =											2.5	0.0	0.0	66.3	63.8	48.8	49.0

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021	Location: McLean Henry FS	Trial Year: 2021	
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean		
Master Protocol ID:	Study Director: Ryan Lins		
	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

										1, ZEAMD Sep-7-21 YIELD	
Trt No.	Treatment Type	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction Plot	
1	CHK UNTREATED CHECK									X	101 209 308 412 Mean = 208.3
2	HERB BICEP II MAGNUM	660 gA/L		SC	2470 g ai/ha	1.6 qt/a			1 A	X	102
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a			1 B	X	202
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v			1 B	X	311
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a			1 B	X	403
											Mean = 254.9
3	HERB LEXAR EZ 3.7 ZC	443.8 gA/L		ZC	1870 g ai/ha	1.8 qt/a			1 A	X	103
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a			1 B	X	208
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v			1 B	X	309
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a			1 B	X	406
											Mean = 238.1
4	HERB SURESTART II 4.25 SC	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a			1 A	X	104
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a			1 B	X	206
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v			1 B	X	305
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a			1 B	X	407
											Mean = 254.9
5	HERB HARNESS XTRA 5.6L	672 gA/L		SC	2830 g ai/ha	1.8 qt/a			1 A	X	105
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a			1 B	X	210
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v			1 B	X	304
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a			1 B	X	411
											Mean = 248.4
6	HERB VERDICT 5.57 EC	667 gA/L		EC	682 g ai/ha	14 fl oz/a			1 A	X	106
	ADJ AMSOL			SL	5.85 l/ha	2.5 qt/a			1 B	X	203
	ADJ NIS			SL	0.25 % v/v	0.25 % v/v			1 B	X	307
	HERB ACURON GT	514.35 gA/L		ZC	2260 g ai/ha	3.75 pt/a			1 B	X	401
											Mean = 258.8

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USS10H3022021	Location: McLean Henry FS	Trial Year: 2021	
Protocol ID: HBI008A4-2021US	Investigator (Creator): Henry McLean		
Master Protocol ID:	Study Director: Ryan Lins		
	Sponsor Contact: Mark Kitt		
Conducted Under GEP: No	Trial Origin: P public institution trial		

Pest Code											1, ZEAMD Sep-7-21 YIELD	
Crop ID Code												
Rating Date												
Rating Type												
Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Min #	Appl Code	Crop Destruction Plot		
7	HERB SURESTART II 4.25 SC ADJ AMSOL	509.26 gA/L		SC	1040 g ai/ha	1.75 pt/a			1 A	X	107	263.9
	HERB RESICORE 3.29 SC	394.4 gA/L		SC	1150 g ai/ha	1.25 qt/a			1 B	X	201	269.1
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a			1 B	X	302	258.8
											402	248.4
											Mean =	260.1
8	HERB HARNESS XTRA 5.6L ADJ AMSOL	672 gA/L		SC	2830 g ai/ha	1.8 qt/a			1 A	X	108	263.9
	HERB LAUDIS 3.5 SC	420 gA/L		SC	92.1 g ai/ha	3 fl oz/a			1 B	X	212	258.8
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a			1 B	X	312	258.8
											408	258.8
											Mean =	260.1
9	HERB VERDICT 5.57 EC ADJ AMSOL	667 gA/L		EC	487 g ai/ha	10 fl oz/a			1 A	X	109	248.4
	HERB ARMEZON PRO	642.5 gA/L		EC	845 g ai/ha	18 fl oz/a			1 B	X	207	248.4
	HERB ROUNDUP POWERMAX 4.5 SL	540 gAE/L		SL	1050 g ae/ha	26.6 fl oz/a			1 B	X	301	232.9
											405	248.4
											Mean =	244.5
10	HERB ACURON XR	424.57 gA/L		ZC	3470 g ai/ha	3.5 qt/a			1 A	X	110	253.6
											211	212.2
											303	253.6
											409	248.4
											Mean =	241.9
11	HERB ACURON XR	424.57 gA/L		ZC	2980 g ai/ha	3 qt/a			1 A	X	111	238.1
											205	253.6
											310	253.6
											410	253.6
											Mean =	249.7
12	HERB HARNESS MAX 3.85 SC	462 gA/L		SC	2530 g ai/ha	75 fl oz/a			1 A	X	112	253.6
											204	253.6
											306	248.4
											404	258.8
											Mean =	253.6

University of Georgia

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University CN-07-21

Trial ID: USSIOH3022021 Location: McLean Henry FS Trial Year: 2021
Protocol ID: HBI008A4-2021US Investigator (Creator): Henry McLean
Master Protocol ID: Study Director: Ryan Lins
Sponsor Contact: Mark Kitt
Conducted Under GEP: No Trial Origin: P public institution trial

Crop ID Code

1, ZEAMD, BCOR, Zea mays indentata, Dent corn, DKC-6208 = GLYPHOSATE-R

Rating Type

Stunt = stunting

YIELD = yield

ARM Action Codes

TY1 = 5.17528149*[21]