Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Protocol ID: HBI008A4-2020US Location: Trial Year: 2020 Investigator: Dr. Mark M. Loux Study Director: Sponsor Contact: Master Protocol ID: Trial Origin:

Conducted Under GEP: No

**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 10:58 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 Charlesont Country: USA United States State/Prov.: Ohio Postal Code: 45368

Latitude of LL Corner °: 39.85939 Ν Lonaitude of LL Corner °: -83.67415 W Altitude of LL Corner: 1092.00 FT

Conducted Under GLP: No Conducted Under GEP: No

**Objectives:** 

• Are there differences in weed control, crop safety and yield among treatments containing Acuron GT and other competitive products?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 | t                            |                       |
| Seed Lot No: B3PLY13085-N                        |                              |                       |
| % 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                               |                              |                       |
| Soil Temperature: 54 F                           |                              |                       |
| Emergence Date: May-14-2020                      |                              |                       |
| Harvest Date: Oct-14-2020                        | Harvest Equipment: Kincaid 8 | 3XP                   |
| Moisture Meter: Harvest Master                   | Harvested Width: 5 FT        |                       |
| % Standard Moisture: 15.5                        | Harvested Length: 30 FT      |                       |
| Weighing Equipment: Harvest Master HM800         | _                            |                       |

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| Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University<br>Trial ID: 20ACURONGT Location: Trial Year: 2020<br>Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux  |
|--|
| Master Protocol ID: Study Director:<br>Sponsor Contact:  |
|  |
| Crop Stage At Each Application   |
| Crop 1 Code, BBCH ScaleZEAMD BCOR ZEAMD BCORStage Scale UsedBBCHBBCHStage Majority, Percent1590Stage Minimum, Percent1410Stage Maximum, Percent1590Height Average15INHeight Minimum, Maximum1216   |
| Pest Stage At Each Application   |
| A B   Pest 1 Code, Type, Scale SETFA W SETFA W BBCH   Stage Majority, Percent 12 90   Stage Minimum, Percent 11 10   Stage Maximum, Percent 12 90   Height Average 3 IN   Height Minimum, Maximum 1 3   Density Average 42 PLA/m2  |
| Density Min, Max   20   80     Pest 2 Code, Type, Scale   AMBTR W AMBTR W BBCH     Stage Majority, Percent   18   60     Stage Maximum, Percent   12   20     Stage Maximum, Percent   18   60     Height Average   6   IN     Height Minimum, Maximum   1   8     Density Average   16   PLA/m2 |
| Density Min, Max1224Pest 3 Code, Type, ScaleCHEAL WCHEAL W BBCHStage Majority, Percent1480Stage Maximum, Percent1210Stage Maximum, Percent1480Height Average2INHeight Minimum, Maximum12Density Average74PLA/m2Density Min Max4888   |
| Pest 4 Code, Type, Scale   ABUTH W   ABUTH W   BBCH     Stage Majority, Percent   12   100     Height Average   1   IN     Height Minimum, Maximum   0.5     Density Average   2   PLA/m2     Density Min, Max   0   8   |
| Pest 5 Code, Type, ScaleIPOHE WIPOHE W BBCHStage Majority, Percent1090Stage Minimum, Percent1090Stage Maximum, Percent1210Height Average1INHeight Minimum, Maximum0.51Density Average0.25PLA/m2Density Min, Max02  |
| Pest 6 Čode, Type, ScaleSIDSP WSIDSP WDensity Average3PLA/m2Density Min, Max15Pest 7 Code, Type, ScaleAMARE WAMARE WDensity Average4PLA/m2Density Min, Max012  |
| Application Equipment  |
| ABAppl. Equipment10 Foot TTI10' AIXREquipment TypeBACCAIBACCAIOperation Pressure44PSINozzle TypeTTIAIXRNozzle Size110015110015Nozzle Spacing18 IN18 INBoom Length10 FT10 FTBoom Height20 IN20 INGround Speed3 MPH3 MPHCarrierWATERWATERApplication Amount 15GAL/AC 15GAL/AC 15GAL/AC             |
| Propellant COMCO2 COMCO2   |

|   |  |  |   |   |   | JILY   |  |  |
|---|--|--|---|---|---|--|--|--|
| Acuron GT:<br>Trial ID: 2<br>Protocol ID: H<br>Master Protocol ID:<br>Conducted Under GEP: N  | Evaluatio<br>20ACURON<br>1BI008A4-2                      | n of weed<br>GT<br>020US<br>Sp                           | control, cro<br>Locati<br>Investiga<br>Study Direc<br>onsor Conta<br>Trial Orig | op tolerance and<br>on:<br>tor: Dr. Mark M. L<br>tor:<br>act:<br>gin:                       | l <b>yield in a two p</b><br>Trial Year: :<br>.oux  | <b>ass systen</b><br>2020                                    | ı - Mid and South Un   | iversity   |
| Context Date<br>STATUS Mar-26-2020 Dr<br>STATUS Mar-26-2020 Dr<br>STATUS Apr-23-2020 Dr<br>STATUS Apr-23-2020 Dr  | By<br>Mark M. L<br>Mark M. L<br>Mark M. L<br>Mark M. L   | oux Automa<br>oux Automa<br>oux Automa<br>oux Automa     | atically adde<br>atically adde<br>atically adde<br>atically adde                | d by ARM: Trial<br>d by ARM: Trial<br>d by ARM: Trial<br>d by ARM: Trial<br>d by ARM: Trial | Notes<br>Status updated to<br>Status updated to<br>Status updated to<br>Status updated to | 'S' during tr<br>'S' during tr<br>'E' when In<br>'E' when Pl | ial creation.<br>ial creation.<br>itiation Date entered.<br>anting Date entered. |  |
| SE Definitions  |  | •  | •   |   | _   |  | _  |  |
| Rating Timing<br>SE Name<br>SE Description  | 1.<br>1<br>ZUSW001<br>%CONTR<br>OL                       | 2<br>ZUSX003<br>%PHYTO-<br>STUNTIN<br>G                  | 3<br>ZUSX001<br>%PHYTO-<br>GENERAL  | 4<br>ZUSX052_C3<br>YIELD/A  | 5.<br>1<br>ZUSW001<br>%Control  | 6.<br>2<br>ZUSX001<br>%PHYTO-<br>GENERAL                     | 7.<br>3<br>ZUSX052_C3<br>YIELD/A   | 8.<br>4<br>ZUSX003<br>%PHYTO-<br>STUNTIN                 |
| Part Rated<br>Rating Type<br>Rating Unit<br>Sample Size<br>Collection Basis<br>Reporting Basis<br>Calculation<br>Number of Subsamples<br>ARM Action Codes | PLANT<br>CONTRO<br>%<br>1 PLOT<br>1 PLOT<br>1 PLOT<br>NC | PLANT<br>PHYSTU<br>%<br>1 PLOT<br>1 PLOT<br>1 PLOT<br>NC | PLANT<br>PHYGEN<br>%<br>1 PLOT<br>1 PLOT<br>1 PLOT<br>NC                        | GRAIN<br>YIELD<br>BU<br>FT2<br>1 PLOT<br>1 A<br>IN<br>1<br>@YLDLBBUADI                      | PLANT<br>CONTRO<br>%<br>1 PLOT<br>1 PLOT<br>1 PLOT<br>NC                                  | PLANT<br>PHYGEN<br>%<br>1 PLOT<br>1 PLOT<br>1 PLOT<br>NC     | GRAIN<br>YIELD<br>BU<br>FT2<br>1 PLOT<br>1 A<br>IN<br>1<br>@YLDLBBUADM[1,2       | PLANT<br>PHYSTU<br>%<br>1 PLOT<br>1 PLOT<br>1 PLOT<br>NC |

## Instructions:

**<u>CROPS</u>**: Corn (ZEAMD) – One regionally popular GT Hybrid

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

## CRITICAL PROTOCOL TASKS:

- If possible, irrigate trial for 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
- Work with ASR/TDL and University cooperator to add 3 treatments as "local standards"

## 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 <u>required</u> 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

## TREATMENT DETAILS:

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

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020

Trial ID: 20ACURONGT Protocol ID: HBI008A4-2020US Master Protocol ID:

Location: Investigator: Dr. Mark M. Loux Study Director: Sponsor Contact: Trial Origin:

Conducted Under GEP: No

located in the APPLICATION tab.

• Recently sourced (<2 years) NPAK AMS, may be used instead of AMSOL liquid AMS.

## **Application Timing:**

A = PREEMERGENCE B = POSTEMERGENCE (V4-5 or 11" corn height)

## FORMULATION OBSERVATIONS:

• 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 (4-8 border rows, CRW protection, etc.)

## 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, PHYSTU (following directions in assessment details), 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): 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.

**PHYSTU**, Stunting Phytotoxicity (%/Plot), (ZUSX003): Assess stunting due to the treatment (ignoring any environmental stress affect) at the time of the assessment. Determine the % growth reduction (by visual estimates or measurements) of the plant/plot as compared to the growth of the largest plant/plot found in the replicate (which is not necessarily the untreated check which can be shortened by pest competition). Dead plants are 100% PHYSTU (and not a missing value). The largest plant/plot found in the replicate is rated as 0% PHYSTU.

**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.

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020 Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux

Master Protocol ID: Conducted Under GEP: No

**PHOTOS** - Photos should be sent to Syngenta contact as appropriate. .Photos should be compiled by the Syngenta trial manager (including photos from cooperators), labeled, and saved in the "G" drive folder named "2020-Herbicide-PRT-Photos". Instructions for photo taking and labeling can be found on the "Bioteam Image Capture Instructions.docx" and "2020 Syngenta Field Trial Photo Instructions - Plot.docx" file in that folder. Save your photos under the pertinent subfolder for the protocol and create a subfolder for the trial manager name.

## REPORT DATA BY: Weed control, crop safety and yield by 12/1/2020

Study Director: Sponsor Contact:

Trial Origin:

## 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.

### DESIGN CODES:

Scientists should order these products directly from Starlims. Acuron GT = A23011C Lexar EZ = A17622G

**<u>CROPS</u>**: Roundup Ready Corn

## TARGETS:

Grasses and small seeded broadleaf weed

• Target a location with heavy weed pressure (AMATU; AMAPA; and IPOSS) where multiple weed flushes will be possible throughout the season

## CRITICAL PROTOCOL TASKS:

• Must control all weeds prior to trial establishment - suggest a tillage pass 1-2 days prior to PRE application to ensure all emerged weeds are controlled

- Irrigation if possible 1 to 2 days after each application for residual activation
- Apply a minimum of 0.5" of water if irrigating

## ADDITIONAL DATA REQUIREMENTS:

• Crop - Corn: growth stage range (BBCH or number of leaves) and height required at each application

• Pest - Weed: growth stage range (BBCH or number of leaves) and height <u>required</u> 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 PRE application to completion of trial.

## EXPERIMENTAL DESIGN AND PLOT DIMENSIONS:

- RCB
- 4 replications
- Plot size: 300 Sq.Ft

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020

Investigator: Dr. Mark M. Loux

Study Director: Sponsor Contact:

Trial Origin:

Trial ID: 20ACURONGT Protocol ID: HBI008A4-2020US Master Protocol ID:

Conducted Under GEP: No

## • 10 ft X 30 ft treated area.

## TREATMENT DETAILS:

• Water Volume: 15 - 20 GPA

• Nozzle type/droplet size at discretion of scientist. Nozzle type must be recorded in the NOZZLE DESCRIPTION field, located in the APPLICATION tab.

## **Application Timing:**

A = PREEMERGENCE B = POSTEMERGENCE V4 to V5 corn or 11 inch corn height, whichever comes first.

## FORMULATION OBSERVATIONS:

• Please inform the protocol sponsor (Kitt) or FPC (Cully) 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 email or phone.

## MAINTENANCE DETAILS:

• Each treatment is a stand-alone treatment and will be expected to have broad spectrum weed control in corn

## ASSESSMENT TIMING SUMMARY:

Schedule assessments as follows: (DA-B = Days After POST Treatment)

Evaluation 1: At Application B timing - CONTROL, PHYGEN Evaluation 2: 7 DA-B (+/-2) - PHYGEN Evaluation 3: 28 BA-B (+/-3) - CONTROL, PHYGEN Evaluation 4: At Harvest - CONTROL Evaluation 5: Yield converted to Bu/A

## ASSESSMENT DETAILS:

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

**PHYGEN**, General Phytotoxicity (%/plot): 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 Bicep II Magnum PRE fb Halex GT POST treatment 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.

**PHYSTU**, Stunting Phytotoxicity (%/Plot), (ZUSX003): Assess stunting due to the treatment (ignoring any environmental stress affect) at the time of the assessment. Determine the % growth reduction (by visual estimates or measurements) of the plant/plot as compared to the growth of the largest plant/plot found in the replicate (which is not necessarily the untreated check which can be shortened by pest competition). Dead plants are 100% PHYSTU (and not a missing value). The largest plant/plot found in the replicate is rated as 0% PHYSTU.

**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.

Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020 Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux

Protocol ID: HBI008A4-2020U Master Protocol ID: Location: Investigator: Dr. Mark M. Loux Study Director: Sponsor Contact: Trial Origin:

Conducted Under GEP: No

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), labeled, and saved in the "G" drive folder named "2020-Herbicide-PRT-Photos". Instructions for photo taking and labeling can be found on the "Bioteam Image Capture Instructions.docx" and "2020 Syngenta Field Trial Photo Instructions - Plot.docx" file in that folder. Save your photos under the pertinent subfolder for the protocol and create a subfolder for the trial manager name.

REPORT DATA BY: Evaluations 1-3: 10/9/2020, Evaluations 4-5: 12/15/2020

## 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.

## DESIGN CODES:

Syngenta scientists should order these products directly from Starlims: A22668C - Acuron XR A22760C - Acuron Flexi XR

| 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 mavs indentata | Zea mavs indentata | Zea mavs 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              | CONMO              | 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                  |
| Data Entry Date               |                |                   | Oct-19-2020        | Oct-19-2020        |                    |
| 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                 | Rate Ot        | her Other Appl    |                    |                    |                    |
| No. Name                      | Rate Unit Ra   | te Rate Unit Code | 18*                | 19*                | 20*                |
|                               |                |                   |                    |                    |                    |
| 1 UNTREATED CHECK             |                |                   | 4 2 c              | 20.4 h             | 20.6 c             |
| 2 BICEP II MAGNUM             | 35 3 oz ai/a   | 16.ot/a A         | 49.4 b             | 20.4 b<br>21.8 a   | 237.0 b            |
| AMSOI                         | 2.5% v/v       | 2.5% v/v B        | 10.110             | 21.0 4             | 201.0 0            |
| NIS                           | 0.25 % v/v = 0 | 25% v/v B         |                    |                    |                    |
| ACURON GT                     | 32.3 oz ai/a 3 | .75 pt/a B        |                    |                    |                    |
|                               |                |                   |                    |                    |                    |

# ARM 2020.1 AOV Means Table F The Ohio State University Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020 Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux Protocol ID: Study Director: Sponsor Contact: Under GEP: No Trial Origin: Master Protocol ID: Conducted Under GEP: No Pest ID Code

| Pest Code<br>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<br>Crop Variety         |              |                         |         | Dent com<br>Diopoor D1107AM | Dent com<br>Dieneer D1107AM | Dent com<br>Dieneer D1107AM |
| Rating Date                       |              |                         |         | Oct-14-2020                 | Oct-14-2020                 | Oct_14_2020                 |
| SE Name                           |              |                         |         | 7115X0524                   | 7USX052B                    | 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                           |
| Data Entry Date                   |              |                         |         | Oct-19-2020                 | Oct-19-2020                 | 475 407                     |
| Days After First/Last Applic.     |              |                         |         | 175 127                     | 175 127                     | 1/5 12/                     |
| Plant Eval Interval               |              |                         |         | 175 DD 1                    | 175 DD 1                    | 175 DD 1                    |
| Plant-Eval Interval               |              |                         |         | 173 DP-1<br>153 DE 1        | 173 DP-1<br>153 DE 1        | 173 DP-1<br>153 DE 1        |
| ARM Action Codes                  |              |                         |         | 155 DL-1                    | 135 DE-1                    | 135 DL-1<br>TV1             |
| Number of Decimals                |              |                         |         | 1                           | 1                           | 1                           |
| Trt Treatment                     | Pata         | Other Other             | Appl    | · ·                         |                             |                             |
| No. Name                          | Rate Unit    | Rate Rate Un            | it Code | e 18*                       | 19*                         | 20*                         |
| 3 LEXAR EZ 3.7 ZC                 | 26.7 oz ai/a | 1.8 gt/a                | A       | 54.7 a                      | 21.2 a                      | 264.5 a                     |
| AMSOL                             | 2.5 % v/v    | 2.5 % v/v               | В       | •                           |                             |                             |
| NIS                               | 0.25 % v/v   | 0.25 % v/v              | В       |                             |                             |                             |
| ACURON GT                         | 32.3 oz ai/a | 3.75 pt/a               | В       |                             |                             |                             |
| 4 SURESTART II 4.25 SC            | 14.8 oz ai/a | 1.75 pt/a               | А       | 55.0 a                      | 21.3 a                      | 265.4 a                     |
| AMSOL                             | 2.5 % v/v    | 2.5 % v/v               | В       |                             |                             |                             |
| NIS                               | 0.25 % v/v   | 0.25 % v/v              | В       |                             |                             |                             |
| ACURON GT                         | 32.3 oz ai/a | 3.75 pt/a               | В       |                             |                             |                             |
| 5 HARNESS XTRA 5.6L               | 40.4 oz ai/a | 1.8 qt/a                | A       | 50.8 ab                     | 21.3 a                      | 245.6 ab                    |
| AMSOL                             | 2.5 % V/V    | 2.5 % V/V               | В       |                             |                             |                             |
|                                   |              | 0.25 % V/V<br>2.75 pt/o | Б       |                             |                             |                             |
| 6 VERDICT 5 57 EC                 | 97 oz ai/a   | 14 fl oz/a              | Δ       | 54 5 a                      | 215 a                       | 262 T a                     |
| AMSOL                             | 25% v/v      | 25% v/v                 | B       | 0 <del>4</del> .0 a         | 21.0 a                      | 202.1 a                     |
| NIS                               | 0.25 % v/v   | 0.25% v/v               | B       |                             |                             |                             |
| ACURON GT                         | 32.3 oz ai/a | 3.75 pt/a               | B       |                             |                             |                             |
| 7 SURESTART II 4.25 SC            | 14.8 oz ai/a | 1.75 pt/a               | А       | 55.5 a                      | 21.7 a                      | 266.3 a                     |
| AMSOL                             | 2.5 % v/v    | 2.5 % v/v               | В       |                             |                             |                             |
| RESICORE 3.29 SC                  | 16.4 oz ai/a | 1.25 qt/a               | В       |                             |                             |                             |
| ROUNDUP POWERMAX 5.5 SL           | 18.3 oz ai/a | 26.6 fl oz/a            | В       |                             |                             |                             |
| 8 HARNESS XTRA 5.6L               | 40.4 oz ai/a | 1.8 qt/a                | Α       | 53.8 ab                     | 21.3 a                      | 259.9 ab                    |
| AMSOL                             | 2.5 % v/v    | 2.5 % v/v               | В       |                             |                             |                             |
| LAUDIS 3.5 SC                     | 1.31 oz ai/a | 3 fl oz/a               | В       |                             |                             |                             |
| ROUNDUP POWERMAX 5.5 SL           | 18.3 oz al/a | 26.6 fl oz/a            | В       |                             |                             |                             |
|                                   | 0.5 % V/V    | 0.5 % V/V               | B       | 51.2 ob                     | 21.2 a                      | 262.2 0                     |
|                                   | 9.7 0Z al/a  | 14 II 02/a              | A       | 54.5 ab                     | 21.Za                       | 202.2 a                     |
|                                   | 2.5 % 0/0    | 2.5 % V/V               | B       |                             |                             |                             |
| ROUNDUP POWERMAX 5.5.SL           | 18.3 oz ai/a | 26 6 fl oz/a            | B       |                             |                             |                             |
| 10 CORVUS 2.63 SC                 | 1.1 oz ai/a  | 3.33 fl oz/a            | Ă       | 53.0 ab                     | 21.3 a                      | 255.9 ab                    |
| AMSOL                             | 2.5% v/v     | 2.5% v/v                | В       |                             | 2.10 4                      | 20010 445                   |
| DIFLEXX DUO 1.53 SC               | 6.1 oz ai/a  | 32 fl oz/a              | В       |                             |                             |                             |
| ROUNDUP POWERMAX 5.5 SL           | 18.3 oz ae/a | 26.6 fl oz/a            | В       |                             |                             |                             |
| 11 CORVUS 2.63 SC                 | 1.1 oz ai/a  | 3.33 fl oz/a            | А       | 53.4 ab                     | 21.6 a                      | 256.8 ab                    |
| AMSOL                             | 2.5 % v/v    | 2.5 % v/v               | В       |                             |                             |                             |
| HARNESS MAX 3.85 SC               | 19.3 oz ai/a | 40 fl oz/a              | В       |                             |                             |                             |
| ROUNDUP POWERMAX 5.5 SL           | 18.3 oz ae/a | 26.6 fl oz/a            | В       |                             |                             |                             |

# Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020 Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux Protocol ID: Study Director: Sponsor Contact: Under GEP: No Trial Origin: Master Protocol ID: Conducted Under GEP: No

| Pest ID 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                        |
| Sample Size                      |                |                |         | 150 FT2            | 1 PLOT             | 1 A                       |
| Collection Basis                 |                |                |         | 1 PLUI             | 1 PLOT             | 1 PLOT                    |
| Reporting Basis                  |                |                |         | 150 FIZ            | I PLOT             | I A                       |
| Number of Subsamples             |                |                |         | Oct 10 2020        | Oct 10 2020        | I                         |
| Data Entry Date                  |                |                |         | 175 127            | 175 127            | 175 197                   |
| Trt Eval Interval                |                |                |         | 175 127            | 175 127            | 175 127                   |
| 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                 |                |                |         | ICO DE 1           | 100 DE 1           | TY1                       |
| Number of Decimals               |                |                |         | 1                  | 1                  |                           |
| Trt Treatment                    | Rate           | Other Other    | Appl    |                    |                    |                           |
| No. Name                         | Rate Unit      | Rate Rate Un   | it Code | 18*                | 19*                | 20*                       |
| 12 BALANCE FLEXX 2 SC            | 1 oz ai/a      | 4 fl oz/a      | Α       | 55.5 a             | 21.3 a             | 268.3 a                   |
| AMSOL                            | 2.5 % v/v      | 2.5 % v/v      | В       |                    |                    |                           |
| HARNESS MAX 3.85 SC              | 19.3 oz ai/a   | 40 fl oz/a     | В       |                    |                    |                           |
| ROUNDUP POWERMAX 5.5 S           | L 18.3 oz ae/a | 1 26.6 fl oz/a | В       |                    |                    |                           |
| LSD P=.05                        |                |                |         | 5.00               | 0.71               | 23.16                     |
| Standard Deviation               |                |                |         | 3.47               | 0.49               | 16.10                     |
| CV                               |                |                |         | 7.02               | 2.32               | 6.74                      |
| Grand Mean                       |                |                |         | 49.50              | 21.31              | 238.77                    |
| Levene's F                       |                |                |         | 0.747              | 0.242              | 0.72                      |
| Levene's Prob(F)                 |                |                |         | 0.687              | 0.992              | 0.712                     |
| Rank X2                          |                |                |         | •                  | •                  | •                         |
| P(Rank X2)                       |                |                |         |                    |                    |                           |
| Skewness                         |                |                |         | -2.6842*           | -0.908*            | -2.7315*                  |
| Kurtosis                         |                |                |         | 6.5424*            | 3.6446*            | 6.7192*                   |
| Replicate F                      |                |                |         | 7 000              | 15 500             | 6 659                     |
|                                  |                |                |         | (.8/3              | 10.000             | 0.0.0.0                   |
| Replicate Prob(F)                |                |                |         | 0.0004             | 0.0001             | 0.0012                    |
| Replicate Prob(F)<br>Treatment F |                |                |         | 0.0004<br>68.689   | 0.0001             | 0.003<br>0.0012<br>74.153 |

ARM 2020.1 AOV Means Table Pa The Ohio State University Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020 Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux Protocol ID: Study Director: Sponsor Contact: Under GEP: No Trial Origin:

Master Protocol ID:

Conducted Under GEP: No

| Pest ID Code<br>Pest Code<br>Pest Scientific Name<br>Pest Name<br>Crop ID Code<br>BBCH Scale<br>Crop Scientific Name<br>Crop Variety<br>Rating Date<br>SE Name   |   |  |                  | 1 ZEAMD<br>BCOR<br>Zea mays indentata<br>Dent corn<br>Pioneer P1197AM<br>Oct-14-2020 |
|--|---|--|------------------|--|
| SE Description<br>Part Rated<br>Rating Type<br>Rating Unit<br>Calculation<br>Sample Size<br>Collection Basis<br>Reporting Basis<br>Number of Subsamples<br>Data Entry Date<br>Days After First/Last Applic.<br>Trt-Eval Interval |   |  |                  | GRAIN -<br>WEITES<br>LBS<br>1 QT<br>1 PLOT<br>1 BU<br>1<br>Oct-19-2020<br>175 127    |
| Plant-Eval Interval<br>Days After Emergence<br>ARM Action Codes<br>Number of Decimals  |   |  |                  | 175 DP-1<br>153 DE-1<br>1  |
| Trt Treatment<br>No. Name  | Rate<br>Rate Unit                                       | Other Other<br>Rate Rate Ur                      | Appl<br>nit Code | 21*  |
| 1 UNTREATED CHECK<br>2 BICEP II MAGNUM<br>AMSOL<br>NIS<br>ACURON GT  | 35.3 oz ai/a<br>2.5 % v/v<br>0.25 % v/v<br>32.3 oz ai/a | 1.6 qt/a<br>2.5 % v/v<br>0.25 % v/v<br>3.75 pt/a | A<br>B<br>B<br>B | 55.1 c<br>56.9 ab  |

# ARM 2020.1 AOV Means Table Pa The Ohio State University Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Location: Trial Year: 2020 Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux Protocol ID: Study Director: Sponsor Contact: Under GEP: No Trial Origin: Master Protocol ID: Conducted Under GEP: No

| Pest ID Code                       |              |                        |      |                    |
|------------------------------------|--------------|------------------------|------|--------------------|
| Pest Code<br>Post 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<br>SE Description          |              |                        |      |                    |
| Part Rated                         |              |                        |      | GRAIN -            |
| Rating Type                        |              |                        |      | WEITES             |
| Rating Unit                        |              |                        |      | LBS                |
| Calculation                        |              |                        |      | IN                 |
| Sample Size                        |              |                        |      | 1 QT               |
| Collection Basis                   |              |                        |      | 1 PLOT             |
| Reporting Basis                    |              |                        |      | 1 BU               |
| Number of Subsamples               |              |                        |      | Oct 10 2020        |
| Davs After First/Last Applic       |              |                        |      | 175 127            |
| Trt-Eval Interval                  |              |                        |      | 110 121            |
| Plant-Eval Interval                |              |                        |      | 175 DP-1           |
| Days After Emergence               |              |                        |      | 153 DE-1           |
| ARM Action Codes                   |              |                        |      |                    |
| Number of Decimals                 |              |                        |      | 1                  |
| Trt Treatment                      | Rate         | Other Other            | Appl |                    |
| No. Name                           | Rate Unit    | Rate Rate Unit         | Code | 21*                |
| 3 LEXAR EZ 3.7 ZC                  | 26.7 oz ai/a | 1.8 qt/a               | A    | 56.5 ab            |
| AMSOL                              | 2.5 % v/v    | 2.5 % v/v              | В    |                    |
|                                    | 0.25 % V/V   | 0.25 % V/V             | В    |                    |
| ACORON GT<br>A SURESTART ILA 25 SC | 1/ 8 oz ai/a | 3.75 pt/a<br>1 75 pt/a |      | 56 6 ab            |
| AMSOL                              | 25% v/v      | 25% v/v                | B    | 50.0 ab            |
| NIS                                | 0.25 % v/v   | 0.25 % v/v             | B    |                    |
| ACURON GT                          | 32.3 oz ai/a | 3.75 pt/a              | В    |                    |
| 5 HARNESS XTRA 5.6L                | 40.4 oz ai/a | 1.8 qt/a               | А    | 57.1 ab            |
| AMSOL                              | 2.5 % v/v    | 2.5 % v/v              | В    |                    |
| NIS                                | 0.25 % v/v   | 0.25 % v/v             | B    |                    |
|                                    | 32.3 oz al/a | 3.75 pt/a              | B    |                    |
| 6 VERDICT 5.57 EC                  | 9.7 0Z al/a  | 14 II 02/a             | A    | de c.oc            |
| NIS                                | 2.5% V/V     | 0.25% v/v              | B    |                    |
| ACURON GT                          | 32 3 oz ai/a | 3 75 pt/a              | B    |                    |
| 7 SURESTART II 4.25 SC             | 14.8 oz ai/a | 1.75 pt/a              | Ā    | 56.4 b             |
| AMSOL                              | 2.5 % v/v    | 2.5 % v/v              | В    |                    |
| RESICORE 3.29 SC                   | 16.4 oz ai/a | 1.25 qt/a              | В    |                    |
| ROUNDUP POWERMAX 5.5 SL            | 18.3 oz ai/a | 26.6 fl oz/a           | В    |                    |
| 8 HARNESS XTRA 5.6L                | 40.4 oz ai/a | 1.8 qt/a               | A    | 56.5 ab            |
|                                    | 2.5 % V/V    | 2.5 % V/V              | В    |                    |
|                                    | 1.31 0Z al/a | 3 II 02/a              | Б    |                    |
| SUPERB HC                          | 0.502 a / a  | 0.5 % v/v              | B    |                    |
| 9 VERDICT 5.57 EC                  | 9.7 oz ai/a  | 14 fl oz/a             | Ă    | 57.3 a             |
| AMSOL                              | 2.5 % v/v    | 2.5 % v/v              | В    |                    |
| ARMEZON PRO                        | 13.4 oz ai/a | 20 fl oz/a             | В    |                    |
| ROUNDUP POWERMAX 5.5 SL            | 18.3 oz ai/a | 26.6 fl oz/a           | В    |                    |
| 10 CORVUS 2.63 SC                  | 1.1 oz ai/a  | 3.33 fl oz/a           | A    | 56.9 ab            |
| AMSOL                              | 2.5 % v/v    | 2.5 % v/v              | В    |                    |
|                                    | 0.1 OZ AI/A  | 32 11 0Z/a             | Б    |                    |
|                                    | 1 1 0Z ae/a  | 20.0 II 02/8           |      | 56 7 ob            |
| AMSOI                              | 25% v/v      | 2.5% v/v               | B    | 50.7 dD            |
| HARNESS MAX 3 85 SC                | 19.3 oz ai/a | 40 fl oz/a             | B    |                    |
| ROUNDUP POWERMAX 5.5 SL            | 18.3 oz ae/a | 26.6 fl oz/a           | Ē    |                    |

| veed control, crop tolerance and y | ield in a two pass system   | - Mid and South University   |
|------------------------------------|---|--|
| Location:                          | Trial Year: 2020  | -  |
| S Investigator: Dr. Mark M. Lou    | XL  |  |
| Study Director:                    |   |  |
| Sponsor Contact:                   |   |  |
| Trial Origin:                      |   |  |
| U U                                |   |  |
|                                    |   |  |
|                                    | eed control, crop tolerance and y<br>Location:<br>Investigator: Dr. Mark M. Lou<br>Study Director:<br>Sponsor Contact:<br>Trial Origin: | eed control, crop tolerance and yield in a two pass system<br>Location: Trial Year: 2020<br>Investigator: Dr. Mark M. Loux<br>Study Director:<br>Sponsor Contact:<br>Trial Origin: |

| 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                   |              |              |           | LBS                |
| Calculation                   |              |              |           | IN                 |
| Sample Size                   |              |              |           | 1 QT               |
| Collection Basis              |              |              |           | 1 PLOT             |
| Reporting Basis               |              |              |           | 1 BU               |
| Number of Subsamples          |              |              |           | 1                  |
| Data Entry Date               |              |              |           | Oct-19-2020        |
| 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 Treatment                 | Rate         | Other Other  | Appl      |                    |
| No. Name                      | Rate Unit    | Rate Rate    | Unit Code | e 21*              |
| 12 BALANCE FLEXX 2 SC         | 1 oz ai/a    | 4 fl oz/a    | A A       | 57.2 ab            |
| AMSOL                         | 2.5 % v/v    | 2.5 % v/v    | В         |                    |
| HARNESS MAX 3.85 SC           | 19.3 oz ai/a | 40 fl oz/a   | a B       |                    |
| ROUNDUP POWERMAX 5.5 SL       | 18.3 oz ae/a | 26.6 fl oz/a | а В       |                    |
| LSD P=.05                     |              |              |           | 0.80               |
| Standard Deviation            |              |              |           | 0.56               |
| CV                            |              |              |           | 0.98               |
| Grand Mean                    |              |              |           | 56.62              |
| Levene's F                    |              |              |           | 1.205              |
| Levene's Prob(F)              |              |              |           | 0.319              |
| Rank X2                       |              |              |           |                    |
| P(Rank X2)                    |              |              |           |                    |
| Skewness                      |              |              |           | -0.4058            |
| Kurtosis                      |              |              |           | 0.0597             |
|                               |              |              |           |                    |
| Replicate F                   |              |              |           | 2.909              |
| Replicate Prob(F)             |              |              |           | 0.0491             |
| Treatment F                   |              |              |           | 4.253              |
| Treatment Prob(F)             |              |              |           | 0.0006             |
| · ·                           |              |              |           |                    |

ARM 2020.1 AOV Means Table P **The Ohio State University** Acuron GT: Evaluation of weed control, crop tolerance and yield in a two pass system - Mid and South University Trial ID: 20ACURONGT Protocol ID: HBI008A4-2020US Protocol ID: HBI008A4-2020US Investigator: Dr. Mark M. Loux Study Director: Sponsor Contact: Trial Origin: Master Protocol ID: Conducted Under GEP: No

<u>Crop ID Code</u> 1, ZEAMD, BCOR, Zea mays indentata, Dent corn, Pioneer P1197AM = Glyphosate and Glufosinate Resistant Part Rated GRAIN = grain <u>Rating Type</u> YIELD = yield CONMOI = content - moisture WEITES = weight - test Defined by the 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 BU = bushel Plant-Eval Interval 175 DP-1 = 1 ZEAMD Apr-22-2020 <u>ARM Action Codes</u> TY1 = 5.185714\*[18]\*(100-[19])/84.5