

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

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 Name | Form Conc | Form Type | Description | Rate | Appl Unit | Appl Code | Appl Timing | Amt Product to Measure | Diluent | Rep | | | |
|---------|-------------------|-----------|-----------|-------------|------|-----------|-----------|-------------|------------------------|-----------|-----|-----|-----|-----|
| | | | | | | | | | | | 1 | 2 | 3 | 4 |
| 1 | Assure II 0.88 EC | 0.88 | EC | Ammonium s | 7.17 | fl oz/a | A | EPOST | 5.602 mL/mx | 1479.4 mL | 101 | 204 | 307 | 401 |
| | COC | 100 | SL | COC | 1 | % v/v | A | EPOST | 15.0 mL/mx | | | | | |
| 2 | Liberty 280 SL | 280 | SL | Ammonium s | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1441.4 mL | 102 | 205 | 303 | 408 |
| | AMS | 100 | D | | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 3 | Cheetah 2.34 SL | 2.34 | SL | Ammonium s | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1441.4 mL | 103 | 209 | 302 | 403 |
| | AMS | 100 | D | | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 4 | Interline 2.34 SL | 2.34 | SL | Ammonium s | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1441.4 mL | 104 | 201 | 306 | 407 |
| | AMS | 100 | D | | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 5 | Liberty 280 SL | 280 | SL | Ammonium s | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1420.8 mL | 105 | 202 | 309 | 405 |
| | Assure II 0.88 EC | 0.88 | EC | Ammonium s | 7.17 | fl oz/a | A | EPOST | 5.602 mL/mx | | | | | |
| | COC | 100 | SL | COC | 1 | % v/v | A | EPOST | 15.0 mL/mx | | | | | |
| | AMS | 100 | D | Ammonium s | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 6 | Cheetah 2.34 SL | 2.34 | SL | Ammonium s | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1420.8 mL | 106 | 208 | 304 | 402 |
| | Assure II 0.88 EC | 0.88 | EC | Ammonium s | 7.17 | fl oz/a | A | EPOST | 5.602 mL/mx | | | | | |
| | COC | 100 | SL | COC | 1 | % v/v | A | EPOST | 15.0 mL/mx | | | | | |
| | AMS | 100 | D | Ammonium s | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 7 | Interline 2.34 SL | 2.34 | SL | Ammonium s | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1420.8 mL | 107 | 206 | 301 | 409 |
| | Assure II 0.88 EC | 0.88 | EC | Ammonium s | 7.17 | fl oz/a | A | EPOST | 5.602 mL/mx | | | | | |
| | COC | 100 | SL | COC | 1 | % v/v | A | EPOST | 15.0 mL/mx | | | | | |
| | AMS | 100 | D | Ammonium s | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 8 | AMV5233D | 2.57 | SL | | 29 | fl oz/a | A | EPOST | 22.66 mL/mx | 1426.4 mL | 108 | 207 | 308 | 406 |
| | COC | 100 | SL | COC | 1 | % v/v | A | EPOST | 15.0 mL/mx | | | | | |
| | AMS | 100 | D | Ammonium s | 3 | lb/a | A | EPOST | 35.95 g/mx | | | | | |
| 9 | NTC | | | | | | | | - | 109 | 203 | 305 | 404 | |

Sort Order: Replicate 1

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
Protocol ID: 23HD108US Location: Trial Year: 2023
Project ID: 108 Project ID 2: Project ID 3:
Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
Investigator:

Trial Comments

COC = PRIME OIL

AGRASS = NON-UNIFORM MIXTURE OF CRABGRASS, TX PANICUM, GOOSGRASS, CROWFOOTGRASS, AND SANDBUR.

SUMMARY:

- 1) SOYBEAN INJURY (STUNTING, CHLOROSS, NECROSIS) WAS 8% OR LESS WITH ALL TREATMENTS.
- 2) AT 15 DAT, PALMER AMARANTH CONTROL WITH ALL POST GLUFOSINATE TREATMENTS WAS SIMILAR BUT LESS THAN OPTIMUM (64-66% CONTROL).
- 3) ASSURE II TANK-MIXED WITH DIFFERENT GLUFOSINATE FORMULATIONS IMPROVED GRASS CONTROL (~15-19%) IN COMPARISON TO GLUFOSINATE APPLIED ALONE.
- 4) HOWEVER, ANNUAL GRASS CONTROL WITH GLUFOSINATE + ASSURE II TANK-MIXTURES WAS LESS EFFECTIVE COMPARED TO ASSURE II ALONE EXCEPT FOR INTERLINE + ASSURE AND AMV5233D.

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

General Trial Information

Study Director: Rich Zollinger **Title:** _____
Investigator: _____ **Title:** _____

Discipline: H herbicide
Status: E established

ARM Trial Created On: Mar-24-23 **Meets All Objectives:** _ **Reliability:** _____
Initiation Date: _____ **Planned Completion Date:** _____ **Interim Data Due:** _____
Completion Date: _____ **Last Possible Tour Visit:** _____

Trial Location

City: _____ **Country:** USA United States
State/Prov.: _____ **County:** _____
Postal Code: _____ **Climate Zone:** _____

Latitude of LL Corner °: _____ -
Longitude of LL Corner °: _____ -
GPS Accuracy of LL Corner: _____ -
Altitude of LL Corner: _____ -
Angle y-axis to North °: _____

Directions:

Keywords:

Regulations

Test Facility: _____
GEP Accreditation Number: _____
GEP Accreditation Link: _____
Certificate Expiration: _____
Conducted Under GLP: No **Official Trial ID:** _____
Conducted Under GEP: No **Official Protocol ID:** _____
Study Rules: _____

| No. | Destroyed? | Crop No. | Crop Code | Crop Stage | Part Destroyed | Explanation | Method | Destruction Date | Verified By |
|-----|------------|----------|-----------|------------|----------------|-------------|--------|------------------|-------------|
| 1. | | | | | | | | | |

| No. | Guideline | Discipline | Description |
|-----|-----------|------------|-------------|
| 1. | | | |

| No. | Permit Number | Permit Description |
|-----|---------------|--------------------|
| 1. | | |

Objectives:

Evaluate AMV5233D vs. Liberty and generic glufosinate + Assure II.

Materials and Methods

Results:

Conclusions:

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| Contacts | |
|---|--|
| <p>Role: STYDIR study director Study Director: Rich Zollinger Organization: Amvac Chemical Co Address 1: _____ Address 2: _____ Country: _____ City: _____</p> | <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: 509-209-0324 E-mail: richardz@amvac.com State/Prov: _____ Postal Code: _____</p> |
| <p>Role: INVEST investigator Investigator: _____ Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p> | <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> |
| <p>Role: SPONSR sponsor Sponsor: Greg Armel, Ph.D. Organization: Amvac Address 1: 1508 Jeremy Lane Address 2: _____ Country: USA United States City: Rocky Mount</p> | <p>Title: Product Development Manager, Southe Org. Type: _____ Phone No.: _____ Mobile No.: 984-800-3750 E-mail: GregoryA@amvac.com State/Prov: NC Postal Code: 27803</p> |
| <p>Role: COOPER cooperator Cooperator: _____ Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p> | <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> |
| <p>Contact Name 5: _____ Organization: _____ Address 1: _____ Address 2: _____ Country: _____ City: _____</p> | <p>Title: _____ Org. Type: _____ Phone No.: _____ Mobile No.: _____ E-mail: _____ State/Prov: _____ Postal Code: _____</p> |

| Crop Description | | |
|---|--|---|
| <p>Crop 1: C GLXMA Glycine max Entry Date: Apr-10-23 Variety: PIONEER Attributes: P53T90E</p> | <p style="text-align: center;">Soybean</p> <p>Stage Scale: BBCH Maturity Group: V</p> | <p style="text-align: center;">BBCH Scale: BSOY</p> |
| <p>Seed Shape: _____ Perennial Age: _____</p> | <p>Seed Size: 3340 S/LB Perennial Height: _____</p> | |
| <p>Nursery Date: _____ Planting Date: Apr-18-23 Depth: 1 IN Rows per Plot: 3 Row Spacing: 15 IN Spacing within Row: _____ Soil Temperature: _____</p> | <p>Planting Rate: 110000 S/A Planting Method: DRILLE drilled Planting Equipment: DD disc drill Seed Bed: SMOOTH smooth Soil Moisture: GOOD good</p> | |
| <p>Emergence Date: _____</p> | <p>Harvest Date: _____ Moisture Meter: _____ % Standard Moisture: _____ Weighing Equipment: _____</p> | <p>Harvest Equipment: _____ Harvested Width: _____ Harvested Length: _____</p> |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

Pest Description

Pest 1 Type: W Code: AMAPA Amaranthus palmeri Entry Date: Mar-24-23
 Common Name: Palmer amaranth Stage Scale: BBCH
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

Pest 2 Type: W Code: AGRASS Entry Date: Mar-24-23
 Common Name: CRAB/CROW/GOOSE/TX PAN/SANDBUR Stage Scale: BBCH
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

Pest 3 Type: W Code: _____ Entry Date: _____
 Common Name: _____ Stage Scale: _____
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

Pest 4 Type: W Code: _____ Entry Date: _____
 Common Name: _____ Stage Scale: _____
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

Pest 5 Type: W Code: _____ Entry Date: _____
 Common Name: _____ Stage Scale: _____
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

Pest 6 Type: W Code: _____ Entry Date: _____
 Common Name: _____ Stage Scale: _____
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

Pest 7 Type: W Code: _____ Entry Date: _____
 Common Name: _____ Stage Scale: _____
 Attributes: _____ Artificial Population: _
 Establishment Date: _____ Time: _____ Stage at Establishment: _____
 Establishment Rate: _____
 Concentration: _____
 Establishment Method/Description: _____
 Crop: _____ Stage at Infestation: _____

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

Application Description

| | |
|--|-----------|
| | A |
| Date | May-7-23 |
| Start Time | |
| Stop Time | 2:00 PM |
| Standard | |
| Method | BROADC |
| Timing | PRE |
| Placement | BROFOL |
| Mixed/Prepared By | EP |
| Applied By | EP |
| Entry Date | Sep-19-23 |
| Air Temperature Start, Stop | , 81 F |
| % Relative Humidity Start, Stop | 49, |
| Wind Velocity+Dir. Start | 2 MPH, |
| Wind Velocity+Dir. Stop | |
| Wind Velocity+Dir. Max | |
| Wet Leaves (Y/N) | N, no |
| Soil Temperature | 90 F |
| Soil Temperature Depth | |
| Soil Moisture | DRY |
| Soil Surface Condition | |
| % Ground Cover | |
| % Cloud Cover | 30 |
| First Moisture Occurred On | |
| Time to First Moisture | |
| Amount of First Moisture | |
| Moisture 1 Week Before Appl. | |
| Moisture 6 Hours after Appl. | |
| Moisture 24 Hours after Appl. | |
| Moisture 1 Week after Appl. | |
| Problems with Application? | |

Comment:

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

Crop Stage At Each Application

| | A |
|----------------------------------|-------------|
| Crop 1 Code, BBCH Scale | GLXMA, BSOY |
| Days after Emergence | |
| Stage Majority, Percent | V1, |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | 4 IN |
| Height Minimum, Maximum | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |

Pest Stage At Each Application

| | A |
|----------------------------------|-----------------|
| Pest 1 Code, Type, Scale | AMAPA, W, BBCH |
| Establishment Interval | |
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | 2 IN |
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |
| Pest 2 Code, Type, Scale | AGRASS, W, BBCH |
| Establishment Interval | |
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | 2 IN |
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |
| Pest 3 Code, Type, Scale | , W, |
| Establishment Interval | |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| | |
|---------------------------|------|
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | |
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |
| Pest 4 Code, Type, Scale | , W, |
| Establishment Interval | |
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | |
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |
| Pest 5 Code, Type, Scale | , W, |
| Establishment Interval | |
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | |
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |
| Pest 6 Code, Type, Scale | , W, |
| Establishment Interval | |
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| | |
|---------------------------|------|
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |
| Pest 7 Code, Type, Scale | , W, |
| Establishment Interval | |
| Stage Majority, Percent | |
| Stage Minimum, Percent | |
| Stage Maximum, Percent | |
| | |
| Diameter Average | |
| Diameter Minimum, Maximum | |
| Height Average | |
| Height Minimum, Maximum | |
| Relative Density | |
| Density Average | |
| Density Minimum, Maximum | |
| Coverage | |
| Crop Part Attacked, Code | |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

Application Equipment

| | A |
|----------------------------|---------------|
| Equipment Name | FOLIAR |
| Equipment Type | BACCAI |
| Operation Pressure | 36 PSI |
| Nozzle Model | |
| Nozzle Type | TEEJTU |
| Nozzle TradeName | AIXR |
| Nozzle Tip Size, Color | 11002, YELLOW |
| Nozzle Spacing | 20 IN |
| Nozzles/Row | |
| Nozzle Count | |
| Band Width | |
| Spray Swath | |
| % Coverage | |
| Boom ID | |
| Boom Length | 60.0 IN |
| Boom Height | 20.0 IN |
| Ground Speed | 3.5 MPH |
| Carrier | WATER |
| Water Hardness (ppm CaCO3) | |
| Application Amount | 15 GAL/AC |
| Mix Overage | |
| Mix Size | 1.5 L |
| Spray pH | |
| Propellant | COMCO2 |
| Tank Mix (Y/N) | |

Equipment Comment:

Treatment Appl. Comments

Trt No Treatment Application Comment

Notes

| Context | Date | By | Notes |
|---------|-----------|---------------|--|
| STATUS | Mar-13-23 | Gregory Armel | Automatically added by ARM: Trial Status updated to 'S' during trial creation. |
| STATUS | Mar-13-23 | Gregory Armel | Automatically added by ARM: Status changed to: E: changed by (XAVARG). |

Deviations

No. 1: Date: _____ By: _____
 Deviations:
 Reasons:

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

SE Definitions

| | |
|-----------------------|----|
| | 1. |
| Rating Timing | |
| SE Name | |
| SE Description | |
| Part Rated | |
| Rating Type | |
| Rating Unit/Min/Max | |
| Sample Size | |
| Collection Basis | |
| Reporting Basis | |
| Number of Subsamples | |
| Untreated Rating Type | |
| ARM Action Codes | |
| Pest Type, Code | |
| Crop Type, Code | |
| Required | |

No. Task Comment

1. ____

Instructions:

****University will not claim ownership to any Intellectual Property involving use of sponsor-provided materials.**

****Generate ARM .dat trial file only from this ARM .prt protocol file - Do not generate .dat files from non-ARM protocol versions (Word or pdf files).**

Requires placement in some arid locations to get data on low humidity.

1. Establish trial in no-till or conventional till locations with grass and broadleaf weed species.
2. Crop: Non-crop
3. Target species: Grass and broadleaf weed species.
4. Weed size: 2 to 4 inches tall.
5. GPA: 15-20.
6. Use a spray nozzle which produces medium to coarse size droplets (approximate VMD range of 240 to 400 microns). Do not use TeeJet AI, AIXR, TTI nozzles, air induction nozzles or any spray tips that produce very coarse (VC), extremely coarse (XC), or ultra coarse (UC) spray droplets. Choose nozzles that deliver 15-20 gpa.
7. Record the following information in Protocol Description tabs/sections:
 - Application details: Date, time, sprayer type, GPA, PSI, nozzle type and orifice size.
 - Crop/Weed Information: Crop and weed stage & height. Identify all weeds to exact species.
 - Environmental Conditions: Air and soil temp, wind speed & direction, humidity, % cloud cover.
 - Soil Characteristics: Soil type/texture, pH, CEC, OM, etc.
 - Deviations: Please describe deviations, errors and variables that may influence crop tolerance or weed control.
 - Record % Enlist soybean injury as PHYGEN at 10 and 20 DA A.
 - Record % weed control as CONTRO at 10 and 20 DA A.
 - Photographs: Take only 1 set of photos of the 1st rep at any of the evaluation timings only if visible injury occurs.
 - Yield: Not required.
9. Provide validated DAT final report by Sept 10, 2023

Yield Required: _

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
Protocol ID: 23HD108US Location: Trial Year: 2023
Project ID: 108 Project ID 2: Project ID 3:
Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
Investigator:

Geographic Area/Environmental Considerations:

Cropping Considerations:

Data to Collect:

Statistical Analysis:

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| Rating Date | Part Rated | Rating Type | Rating Unit/Min/Max | Crop Type, Code | BBCH Scale | Crop Scientific Name | Crop Name | Trt-Eval Interval | Plant-Eval Interval | Pest Name | May-15-23 PLANT, C Stunting %, 0, 100 C, GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 | May-15-23 PLANT, C Chlorosis %, 0, 100 C, GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 | May-15-23 Necrosis %, 0, 100 C, GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 | May-15-23 Control %, 0, 100 8 DA-A 27 DP-1 Amapa | May-15-23 Control %, 0, 100 8 DA-A 27 DP-1 Agrass | May-22-23 Necrosis %, 0, 100 Glyma 15 DA-A 34 DP-1 | May-22-23 Control %, 0, 100 15 DA-A 34 DP-1 Amapa | May-22-23 Control %, 0, 100 15 DA-A 34 DP-1 Agrass |
|--------------------|--|---------------------------------------|---------------------|-------------------|---|-----------------------------|------------------|----------------------------------|---------------------|-----------|---|--|---|---|--|---|--|---|
| Trt No. | Treatment Name | Form Conc | Form Type | Description | Rate | Unit | Appl Code | Appl Timing | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| 1 | Assure II 0.88 EC COC | .88 EC 100 SL | EC | Ammonium s COC | 7.17 fl oz/a 1 % v/v | oz/a v/v | A A | EPOST EPOST | 0 d | 0 b | 0.0 - | 0.0 c | 97.0 a | 0.0 - | 0.0 b | 97.0 a | | |
| 2 | Liberty 280 SL AMS | 280 SL 100 D | SL | Ammonium s | 29 fl oz/a 3 lb/a | oz/a lb/a | A A | EPOST EPOST | 8 a | 5 a | 0.0 - | 99.0 a | 95.0 a | 0.0 - | 65.0 a | 65.0 c | | |
| 3 | Cheetah 2.34 SL AMS | 2.34 SL 100 D | SL | Ammonium s | 29 fl oz/a 3 lb/a | oz/a lb/a | A A | EPOST EPOST | 4 bc | 5 a | 0.0 - | 94.8 b | 81.0 b | 0.0 - | 64.3 a | 60.0 c | | |
| 4 | Interline 2.34 SL AMS | 2.34 SL 100 D | SL | Ammonium s | 29 fl oz/a 3 lb/a | oz/a lb/a | A A | EPOST EPOST | 1 cd | 5 a | 0.0 - | 94.8 b | 72.5 c | 0.0 - | 66.3 a | 62.5 c | | |
| 5 | Liberty 280 SL Assure II 0.88 EC COC AMS | 280 SL 0.88 EC 100 SL 100 D | SL | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | oz/a oz/a v/v lb/a | A A A A | EPOST EPOST EPOST EPOST | 5 ab | 5 a | 0.0 - | 99.0 a | 99.0 a | 0.0 - | 63.8 a | 83.8 b | | |
| 6 | Cheetah 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | SL | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | oz/a oz/a v/v lb/a | A A A A | EPOST EPOST EPOST EPOST | 5 ab | 5 a | 0.0 - | 95.0 b | 96.0 a | 0.0 - | 65.0 a | 77.5 b | | |
| 7 | Interline 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | SL | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | oz/a oz/a v/v lb/a | A A A A | EPOST EPOST EPOST EPOST | 5 ab | 5 a | 0.0 - | 97.0 ab | 98.0 a | 0.0 - | 63.8 a | 87.5 ab | | |
| 8 | AMV5233D COC AMS | 2.57 SL 100 SL 100 D | SL | COC Ammonium s | 29 fl oz/a 1 % v/v 3 lb/a | oz/a v/v lb/a | A A A | EPOST EPOST EPOST | 3 bcd | 5 a | 0.0 - | 97.0 ab | 95.0 a | 0.0 - | 65.0 a | 87.5 ab | | |
| 9 | NTC | | | | | | | | 0 d | 0 b | 0.0 - | 0.0 c | 0.0 d | 0.0 - | 0.0 b | 0.0 d | | |
| LSD P=.10 | | | | | | | | | 3.7 | . | . | 2.55 | 6.89 | . | 4.31 | 10.79 | | |
| Standard Deviation | | | | | | | | | 3.0 | 0.0 | 0.00 | 2.10 | 5.69 | 0.00 | 3.56 | 8.92 | | |
| CV | | | | | | | | | 91.0 | 0.0 | 0.0 | 2.8 | 6.98 | 0.0 | 7.07 | 12.94 | | |
| Grand Mean | | | | | | | | | 3.3 | 3.9 | 0.00 | 75.17 | 81.50 | 0.00 | 50.33 | 68.97 | | |

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.
 Missing data estimates are included in columns: Average=12
 Could not calculate LSD (% mean diff) for columns 2,3,6,10 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| | | | | May-30-23 | May-30-23 | May-30-23 | May-30-23 |
|--------------------|--|---------------------------------------|-----------------------|---|-----------------------------|----------------------------------|--------------------------------------|
| | | | | Stunting %, 0, 100 | Necrosis %, 0, 100 | Control %, 0, 100 | Control %, 0, 100 |
| | | | | Glyma 23 DA-A 42 DP-1 | Glyma 23 DA-A 42 DP-1 | 23 DA-A 42 DP-1 Amapa | 23 DA-A 42 DP-1 Agrass |
| Rating Date | Part Rated | Rating Type | Rating Unit/Min/Max | | | | |
| Crop Type, Code | BBCH Scale | Crop Scientific Name | Crop Name | | | | |
| Trt-Eval Interval | Plant-Eval Interval | Pest Name | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type Description | Rate Rate Unit | Appl Code | Appl Timing | |
| 1 | Assure II 0.88 EC COC | .88 EC 100 SL | Ammonium s COC | 7.17 fl oz/a 1 % v/v | A A | EPOST EPOST | 0.0 b 99.0 a |
| 2 | Liberty 280 SL AMS | 280 SL 100 D | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST EPOST | 0.0 b 63.8 ab 71.3 cd |
| 3 | Cheetah 2.34 SL AMS | 2.34 SL 100 D | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST EPOST | 0.0 b 66.3 ab 68.8 d |
| 4 | Interline 2.34 SL AMS | 2.34 SL 100 D | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST EPOST | 0.0 b 67.5 a 68.8 d |
| 5 | Liberty 280 SL Assure II 0.88 EC COC AMS | 280 SL 0.88 EC 100 SL 100 D | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST EPOST EPOST EPOST | 5.0 a 0.0 - 62.5 b 86.3 b |
| 6 | Cheetah 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST EPOST EPOST EPOST | 1.3 b 0.0 - 63.8 ab 80.0 bc |
| 7 | Interline 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST EPOST EPOST EPOST | 0.0 b 0.0 - 65.0 ab 87.5 b |
| 8 | AMV5233D COC AMS | 2.57 SL 100 SL 100 D | COC Ammonium s | 29 fl oz/a 1 % v/v 3 lb/a | A A A | EPOST EPOST EPOST | 0.0 b 0.0 - 63.8 ab 83.8 b |
| 9 | NTC | | | | | | 0.0 b 0.0 - 0.0 c 0.0 e |
| LSD P=.10 | | | | 1.93 | . | 4.43 | 9.03 |
| Standard Deviation | | | | 1.60 | 0.00 | 3.66 | 7.45 |
| CV | | | | 229.78 | 0.0 | 7.29 | 10.4 |
| Grand Mean | | | | 0.69 | 0.00 | 50.28 | 71.69 |

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.
 Missing data estimates are included in columns: Average=12
 Could not calculate LSD (% mean diff) for columns 2,3,6,10 because error mean square = 0.
 ^Calculated from residual.

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

Randomized Complete Block (RCB) AOV For May-15-23 PLANT C Stunting % 0 100 C GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 (Data Column 1)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|-------|---------|
| Total | 35 | 450.000000 | | | |
| Replicate | 3 | 16.666667 | 5.555556 | 0.604 | 0.6189 |
| Treatment | 8 | 212.500000 | 26.562500 | 2.887 | 0.0210 |
| Error | 24 | 220.833333 | 9.201389 | | |

Randomized Complete Block (RCB) AOV For May-15-23 PLANT C Chlorosis % 0 100 C GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 (Data Column 2)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|-------|---------|
| Total | 35 | 155.555556 | | | |
| Replicate | 3 | 0.000000 | 0.000000 | 0.000 | 1.0000 |
| Treatment | 8 | 155.555556 | 19.444444 | 0.000 | 1.0000 |
| Error | 24 | 0.000000 | 0.000000 | | |

Randomized Complete Block (RCB) AOV For May-15-23 Necrosis % 0 100 C GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 (Data Column 3)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|----------------|-------|---------|
| Total | 35 | 0.000000000000 | | | |
| Replicate | 3 | 0.000000000000 | 0.000000000000 | 0.000 | 1.0000 |
| Treatment | 8 | 0.000000000000 | 0.000000000000 | 0.000 | 1.0000 |
| Error | 24 | 0.000000000000 | 0.000000000000 | | |

Randomized Complete Block (RCB) AOV For May-15-23 Control % 0 100 8 DA-A 27 DP-1 Amapa (Data Column 4)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|----------|---------|
| Total | 35 | 58313.000000 | | | |
| Replicate | 3 | 7.222222 | 2.407407 | 0.544 | 0.6571 |
| Treatment | 8 | 58199.500000 | 7274.937500 | 1642.850 | 0.0001 |
| Error | 24 | 106.277778 | 4.428241 | | |

Randomized Complete Block (RCB) AOV For May-15-23 Control % 0 100 8 DA-A 27 DP-1 Agrass (Data Column 5)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|---------|---------|
| Total | 35 | 33415.000000 | | | |
| Replicate | 3 | 169.222222 | 56.407407 | 1.741 | 0.1855 |
| Treatment | 8 | 32468.000000 | 4058.500000 | 125.234 | 0.0001 |
| Error | 24 | 777.777778 | 32.407407 | | |

Randomized Complete Block (RCB) AOV For May-22-23 Necrosis % 0 100 Glyma 15 DA-A 34 DP-1 (Data Column 6)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|----------------|-------|---------|
| Total | 35 | 0.000000000000 | | | |
| Replicate | 3 | 0.000000000000 | 0.000000000000 | 0.000 | 1.0000 |
| Treatment | 8 | 0.000000000000 | 0.000000000000 | 0.000 | 1.0000 |
| Error | 24 | 0.000000000000 | 0.000000000000 | | |

Randomized Complete Block (RCB) AOV For May-22-23 Control % 0 100 15 DA-A 34 DP-1 Amapa (Data Column 7)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|---------|---------|
| Total | 35 | 26440.000000 | | | |
| Replicate | 3 | 58.666667 | 19.555556 | 1.542 | 0.2293 |
| Treatment | 8 | 26077.000000 | 3259.625000 | 257.057 | 0.0001 |
| Error | 24 | 304.333333 | 12.680556 | | |

Randomized Complete Block (RCB) AOV For May-22-23 Control % 0 100 15 DA-A 34 DP-1 Agrass (Data Column 8)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|--------|---------|
| Total | 35 | 28818.972222 | | | |
| Replicate | 3 | 273.861111 | 91.287037 | 1.147 | 0.3505 |
| Treatment | 8 | 26634.222222 | 3329.277778 | 41.814 | 0.0001 |
| Error | 24 | 1910.888889 | 79.620370 | | |

Randomized Complete Block (RCB) AOV For May-30-23 Stunting % 0 100 Glyma 23 DA-A 42 DP-1 (Data Column 9)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|-------|---------|
| Total | 35 | 157.638889 | | | |
| Replicate | 3 | 7.638889 | 2.546296 | 1.000 | 0.4098 |
| Treatment | 8 | 88.888889 | 11.111111 | 4.364 | 0.0023 |
| Error | 24 | 61.111111 | 2.546296 | | |

Randomized Complete Block (RCB) AOV For May-30-23 Necrosis % 0 100 Glyma 23 DA-A 42 DP-1 (Data Column 10)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|----------------|-------|---------|
| Total | 35 | 0.000000000000 | | | |
| Replicate | 3 | 0.000000000000 | 0.000000000000 | 0.000 | 1.0000 |
| Treatment | 8 | 0.000000000000 | 0.000000000000 | 0.000 | 1.0000 |
| Error | 24 | 0.000000000000 | 0.000000000000 | | |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

Randomized Complete Block (RCB) AOV For May-30-23 Control % 0 100 23 DA-A 42 DP-1 Amapa (Data Column 11)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|---------|---------|
| Total | 35 | 26447.222222 | | | |
| Replicate | 3 | 52.777778 | 17.592593 | 1.310 | 0.2940 |
| Treatment | 8 | 26072.222222 | 3259.027778 | 242.741 | 0.0001 |
| Error | 24 | 322.222222 | 13.425926 | | |

Randomized Complete Block (RCB) AOV For May-30-23 Control % 0 100 23 DA-A 42 DP-1 Agrass (Data Column 12)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) |
|-----------|----|----------------|-------------|--------|---------|
| Total | 34 | 27935.638889 | | | |
| Replicate | 3 | 340.972222 | 113.657407 | 2.046 | 0.1354 |
| Treatment | 8 | 26316.888889 | 3289.611111 | 59.213 | 0.0001 |
| Error | 23 | 1277.777778 | 55.555556 | | |

Part Rated

PLANT = plant
 C = Crop is Part Rated
Rating Unit/Min/Max
 %, 0, 100 = percent
Crop Type Code
 C = EPPO species (Bayer) codes
 GLXMA, BSOY, Glycine max, Soybean = US
 , , , Glyma = US
Plant-Eval Interval
 27 DP-1 = 1 GLXMA Apr-18-23
 34 DP-1 = 1 GLXMA Apr-18-23
 42 DP-1 = 1 GLXMA Apr-18-23

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| Rating Date | Part Rated | Rating Type | Rating Unit/Min/Max | Crop Type, Code | BBCH Scale | Crop Scientific Name | Crop Name | Trt-Eval Interval | Plant-Eval Interval | Pest Name | May-15-23 PLANT, C Stunting %, 0, 100 C, GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 | May-15-23 PLANT, C Chlorosis %, 0, 100 C, GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 | May-15-23 Necrosis %, 0, 100 C, GLXMA BSOY Glycine max Soybean 8 DA-A 27 DP-1 | May-15-23 Control %, 0, 100 | May-15-23 Control %, 0, 100 | May-22-23 Necrosis %, 0, 100 | May-22-23 Control %, 0, 100 |
|-------------|--|---------------------------------------|---------------------|-------------------|---|----------------------|-----------|--------------------------|--------------------------|--------------------|---|--|---|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| Trt No. | Treatment Name | Form Conc | Form Type | Description | Rate | Unit | Appl Code | Appl Timing | Appl Plot | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | Assure II 0.88 EC COC | .88 EC 100 SL | | Ammonium s COC | 7.17 fl oz/a 1 % v/v | A A | EPOST | 101 204 307 401 | 101 204 307 401 | 0 0 0 0 | 0 0 0 0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 | 95.0 99.0 95.0 99.0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 | |
| | | | | | | | | Mean = | | 0 | 0 | 0.0 | 0.0 | 97.0 | 0.0 | 0.0 | |
| 2 | Liberty 280 SL AMS | 280 SL 100 D | | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST | 102 205 303 408 | 102 205 303 408 | 10 10 5 5 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 99.0 99.0 99.0 99.0 | 95.0 95.0 95.0 95.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 65.0 65.0 | |
| | | | | | | | | Mean = | | 8 | 5 | 0.0 | 99.0 | 95.0 | 0.0 | 65.0 | |
| 3 | Cheetah 2.34 SL AMS | 2.34 SL 100 D | | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST | 103 209 302 403 | 103 209 302 403 | 0 10 0 5 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 95.0 99.0 95.0 90.0 | 65.0 99.0 85.0 75.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 65.0 62.0 | |
| | | | | | | | | Mean = | | 4 | 5 | 0.0 | 94.8 | 81.0 | 0.0 | 64.3 | |
| 4 | Interline 2.34 SL AMS | 2.34 SL 100 D | | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST | 104 201 306 407 | 104 201 306 407 | 0 5 0 0 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 95.0 95.0 90.0 99.0 | 75.0 85.0 65.0 65.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 65.0 70.0 | |
| | | | | | | | | Mean = | | 1 | 5 | 0.0 | 94.8 | 72.5 | 0.0 | 66.3 | |
| 5 | Liberty 280 SL Assure II 0.88 EC COC AMS | 280 SL 0.88 EC 100 SL 100 D | | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST | 105 202 309 405 | 105 202 309 405 | 5 10 0 5 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 99.0 99.0 99.0 99.0 | 99.0 99.0 99.0 99.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 60.0 65.0 | |
| | | | | | | | | Mean = | | 5 | 5 | 0.0 | 99.0 | 99.0 | 0.0 | 63.8 | |
| 6 | Cheetah 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST | 106 208 304 402 | 106 208 304 402 | 5 5 5 5 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 95.0 95.0 95.0 95.0 | 95.0 95.0 95.0 99.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 65.0 65.0 | |
| | | | | | | | | Mean = | | 5 | 5 | 0.0 | 95.0 | 96.0 | 0.0 | 65.0 | |
| 7 | Interline 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST | 107 206 301 409 | 107 206 301 409 | 5 0 10 5 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 95.0 99.0 95.0 99.0 | 95.0 99.0 99.0 99.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 50.0 75.0 | |
| | | | | | | | | Mean = | | 5 | 5 | 0.0 | 97.0 | 98.0 | 0.0 | 63.8 | |
| 8 | AMV5233D COC AMS | 2.57 SL 100 SL 100 D | | COC Ammonium s | 29 fl oz/a 1 % v/v 3 lb/a | A A A | EPOST | 108 207 308 406 | 108 207 308 406 | 0 0 5 5 | 5 5 5 5 | 0.0 0.0 0.0 0.0 | 95.0 95.0 99.0 99.0 | 95.0 95.0 95.0 95.0 | 0.0 0.0 0.0 0.0 | 65.0 65.0 65.0 65.0 | |
| | | | | | | | | Mean = | | 3 | 5 | 0.0 | 97.0 | 95.0 | 0.0 | 65.0 | |
| 9 | NTC | | | | | | | | 109 203 305 404 | 0 0 0 0 | 0 0 0 0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 | |
| | | | | | | | | Mean = | | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
 Protocol ID: 23HD108US Location: Trial Year: 2023
 Project ID: 108 Project ID 2: Project ID 3:
 Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
 Investigator:

| | | | | | | | May-22-23 | May-30-23 | May-30-23 | May-30-23 | May-30-23 | | |
|---------|--|---------------------------------------|-----------|-------------------|---|------------------|----------------------------------|------------------------------------|--------------------------------------|----------------------------------|---------------------------------|--------------------------------------|--------------------------------------|
| | | | | | | | Control %, 0, 100 | Stunting %, 0, 100 | Necrosis %, 0, 100 | Control %, 0, 100 | Control %, 0, 100 | | |
| | | | | | | | 15 DA-A 34 DP-1 Agrass | Glyma 23 DA-A 42 DP-1 | Glyma 23 DA-A 42 DP-1 | 23 DA-A 42 DP-1 Amapa | 23 DA-A 42 DP-1 Agrass | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Description | Rate Unit | Appl Code | Appl Timing | Appl Plot | 8 | 9 | 10 | 11 | 12 |
| 1 | Assure II 0.88 EC COC | .88 EC 100 SL | | Ammonium s COC | 7.17 fl oz/a 1 % v/v | A A | EPOST EPOST | 101 204 307 401 Mean = | 99.0 95.0 95.0 99.0 97.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 99.0 99.0 99.0 99.0 99.0 |
| 2 | Liberty 280 SL AMS | 280 SL 100 D | | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST EPOST | 102 205 303 408 Mean = | 50.0 80.0 70.0 60.0 65.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 65.0 60.0 65.0 65.0 63.8 | 75.0 85.0 65.0 60.0 71.3 |
| 3 | Cheetah 2.34 SL AMS | 2.34 SL 100 D | | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST EPOST | 103 209 302 403 Mean = | 50.0 75.0 50.0 65.0 60.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 65.0 70.0 65.0 65.0 66.3 | 65.0 75.0 70.0 65.0 68.8 |
| 4 | Interline 2.34 SL AMS | 2.34 SL 100 D | | Ammonium s | 29 fl oz/a 3 lb/a | A A | EPOST EPOST | 104 201 306 407 Mean = | 60.0 65.0 65.0 60.0 62.5 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 65.0 75.0 60.0 70.0 67.5 | 60.0 90.0 65.0 60.0 68.8 |
| 5 | Liberty 280 SL Assure II 0.88 EC COC AMS | 280 SL 0.88 EC 100 SL 100 D | | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST EPOST EPOST EPOST | 105 202 309 405 Mean = | 85.0 65.0 95.0 90.0 83.8 | 5.0 5.0 10.0 0.0 5.0 | 0.0 0.0 0.0 0.0 0.0 | 65.0 60.0 60.0 65.0 62.5 | 85.0 85.0 85.0 90.0 86.3 |
| 6 | Cheetah 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST EPOST EPOST EPOST | 106 208 304 402 Mean = | 75.0 85.0 90.0 60.0 77.5 | 5.0 0.0 0.0 0.0 1.3 | 0.0 0.0 0.0 0.0 0.0 | 65.0 60.0 65.0 65.0 63.8 | 65.0 . . 95.0 80.0 80.0 |
| 7 | Interline 2.34 SL Assure II 0.88 EC COC AMS | 2.34 SL 0.88 EC 100 SL 100 D | | Ammonium s COC | 29 fl oz/a 7.17 fl oz/a 1 % v/v 3 lb/a | A A A A | EPOST EPOST EPOST EPOST | 107 206 301 409 Mean = | 85.0 95.0 85.0 85.0 87.5 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 60.0 60.0 65.0 75.0 65.0 | 85.0 95.0 85.0 85.0 87.5 |
| 8 | AMV5233D COC AMS | 2.57 SL 100 SL 100 D | | COC Ammonium s | 29 fl oz/a 1 % v/v 3 lb/a | A A A | EPOST EPOST EPOST | 108 207 308 406 Mean = | 85.0 85.0 95.0 85.0 87.5 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 65.0 65.0 60.0 65.0 63.8 | 85.0 80.0 85.0 85.0 83.8 |
| 9 | NTC | | | | | | | 109 203 305 404 Mean = | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 |

University of Georgia

AMV5233D (ZALO) vs. Liberty and generic glufosinate + Assure II.

Trial ID: SB-06-23
Protocol ID: 23HD108US Location: Trial Year: 2023
Project ID: 108 Project ID 2: Project ID 3:
Study Director: Rich Zollinger Sponsor Contact: Greg Armel, Ph.D.
Investigator:

Part Rated

PLANT = plant

C = Crop is Part Rated

Rating Unit/Min/Max

%, 0, 100 = percent

Crop Type, Code

C = EPPO species (Bayer) codes

GLXMA, BSOY, Glycine max, Soybean = US

, , , Glyma = US

Plant-Eval Interval

27 DP-1 = 1 GLXMA Apr-18-23

34 DP-1 = 1 GLXMA Apr-18-23

42 DP-1 = 1 GLXMA Apr-18-23