

University of Georgia

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Reps: 4

Plots: 6 by 25 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

| Trt No. | Treatment              | Form    | Form | Rate      | Appl | Appl | Amt Product to Measure | Diluent     | Rep 1     | 2   | 3   | 4   |     |
|---------|------------------------|---------|------|-----------|------|------|------------------------|-------------|-----------|-----|-----|-----|-----|
|         | Name                   | Conc    | Type | Rate      | Unit | Code | Timing                 |             |           |     |     |     |     |
| 1       | Untreated Check        |         |      |           |      |      |                        | -           | 101       | 207 | 310 | 413 |     |
| 2       | Python 80 WG           | 80 WG   |      | 0.83 oz   | wt/a | A    | PREEM                  | 0.6216 g/mx | 1499.4 mL | 102 | 211 | 314 | 402 |
| 3       | Python 80 WG           | 80 WG   |      | 1 oz      | wt/a | A    | PREEM                  | 0.7489 g/mx | 1499.3 mL | 103 | 202 | 306 | 411 |
| 4       | Python 80 WG           | 80 WG   |      | 1.25 oz   | wt/a | A    | PREEM                  | 0.9361 g/mx | 1499.1 mL | 104 | 213 | 302 | 401 |
| 5       | Python 80 WG           | 80 WG   |      | 1.33 oz   | wt/a | A    | PREEM                  | 0.9961 g/mx | 1499 mL   | 105 | 203 | 305 | 403 |
| 6       | Python 80 WG           | 80 WG   |      | 1.66 oz   | wt/a | A    | PREEM                  | 1.243 g/mx  | 1498.8 mL | 106 | 205 | 308 | 412 |
| 7       | Python 80 WG           | 80 WG   |      | 2 oz      | wt/a | A    | PREEM                  | 1.498 g/mx  | 1498.5 mL | 107 | 212 | 309 | 414 |
| 8       | Python 80 WG           | 80 WG   |      | 2.5 oz    | wt/a | A    | PREEM                  | 1.872 g/mx  | 1498.1 mL | 108 | 204 | 313 | 410 |
| 9       | Python 80 WG           | 80 WG   |      | 2.66 oz   | wt/a | A    | PREEM                  | 1.992 g/mx  | 1498 mL   | 109 | 206 | 307 | 404 |
| 10      | Valor                  | 51 WG   |      | 3 oz/a    |      | A    | PREEM                  | 2.247 g/mx  | 1497.8 mL | 110 | 209 | 301 | 409 |
| 11      | Valor                  | 51 WG   |      | 3 oz/a    |      | A    | PREEM                  | 2.247 g/mx  | 1497 mL   | 111 | 214 | 303 | 406 |
|         | Python 80 WG           | 80 WG   |      | 1 oz      | wt/a | A    | PREEM                  | 0.7489 g/mx |           |     |     |     |     |
| 12      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a |      | A    | PREEM                  | 16.62 mL/mx | 1483.4 mL | 112 | 201 | 311 | 407 |
| 13      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a |      | A    | PREEM                  | 16.62 mL/mx | 1482.6 mL | 113 | 208 | 304 | 405 |
|         | Python 80 WG           | 80 WG   |      | 1 oz      | wt/a | A    | PREEM                  | 0.7489 g/mx |           |     |     |     |     |
| 14      | Valor                  | 51 WG   |      | 3 oz/a    |      | A    | PREEM                  | 2.247 g/mx  | 1480.4 mL | 114 | 210 | 312 | 408 |
|         | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a |      | A    | PREEM                  | 16.62 mL/mx |           |     |     |     |     |
|         | Python 80 WG           | 80 WG   |      | 1 oz      | wt/a | A    | PREEM                  | 0.7489 g/mx |           |     |     |     |     |

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

PROWL H20 @ 32 OZ/A - APRIL 25

CADRE @ 4 OZ/A + COBRA @ 12.5 OZ/A + DUA MAGNUM @ 16 OZ/A - MAY 23

SELECT MAX @ 24 OZ/A + DUAL MAGNUM @ 16OZ/A - JUNE 26

DIGGING DATE: 10/01/24 (160 DAYS)

HARVEST DATE: 10/04/24

HARVEST MOISTURE: 27.7%

YIELDS ADJUSTED TO 10%

2% YIELD DEDUCTION FOR FM

SUMMARY:

1) ALL PRE APPLICATIONS OF PYTHON CAUSED A DELAY IN PEANUT EMERGENCE. 2.66 OZ/A OF PYTHON REDUCED PEANUT EMERGENCE BY 16%

2) GENERALLY, PRE APPLICATIONS OF PYTHON WERE MORE INJURIOUS THAN VALOR (7.5" RAINFALL/IRRIGATION IN FIRST 23 DAP).

3) PRE APPLICATIONS OF PYTHON CAUSED PEANUT HEIGHT AND WIDTH REDUCTIONS ESPECAILY AT RATES > 1.25 OZ/A.

4) DESPITE THE EARLY SEASON INJURY, PEANUT YIELDS WERE NOT SIGNIFICANTLY REDUCED BY ANY TREATMENT (P= 0.5719). AVERAGE PEANUT YIELD FOR THE WHOLE TEST WAS 4909 LBS/A.

General Trial Information

Study Director: Greg Armel, Ph.D.

Investigator:

Title: Product Development Manager, Southe

Title:

| Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y |  |                                                |  |
|---------------------------------------------------------------------|--|------------------------------------------------|--|
| Trial ID: 24HD156USGA09-B                                           |  | Protocol ID: 24HD156US                         |  |
| Project ID: 156                                                     |  | Location: Trial Year: 2024                     |  |
| Study Director: Greg Armel, Ph.D.                                   |  | Sponsor Contact: Greg Armel, Ph.D.             |  |
| Investigator:                                                       |  | Conducted Under GEP: No                        |  |
| Discipline: H                                                       |  | herbicide                                      |  |
| Status: E                                                           |  | established                                    |  |
| ARM Trial Created On: Mar-22-24                                     |  | Meets All Objectives: <input type="checkbox"/> |  |
| Initiation Date: _____                                              |  | Planned Completion Date: _____                 |  |
| Completion Date: _____                                              |  | Interim Data Due: Oct-1-24                     |  |
| Last Possible Tour Visit: _____                                     |  | Reliability: _____                             |  |
| Trial Location                                                      |  |                                                |  |
| City: _____                                                         |  | Country: USA                                   |  |
| State/Prov.: _____                                                  |  | United States                                  |  |
| Postal Code: _____                                                  |  | County: _____                                  |  |
| Climate Zone: _____                                                 |  | Country: _____                                 |  |
| Latitude of LL Corner °: _____                                      |  | Longitude of LL Corner °: _____                |  |
| GPS Accuracy of LL Corner: _____                                    |  | Altitude of LL Corner: _____                   |  |
| Angle y-axis to North °: _____                                      |  | Directions: _____                              |  |
| Keywords: _____                                                     |  |                                                |  |

**Test Facility:** \_\_\_\_\_  
**GEP Accreditation Number:** \_\_\_\_\_  
**GEP Accreditation Link:** \_\_\_\_\_  
**Certificate Expiration:** \_\_\_\_\_  
**Conducted Under GLP:** No **Official Trial ID:** \_\_\_\_\_  
**Conducted Under GEP:** No **Official Protocol ID:** \_\_\_\_\_

[illegible]

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

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

**Objectives:**  
Determine crop selectivity of flumetsulam applied PRE with and without key standards for pigweed control.

\*\*\*Confidential\*\*\*

**- Do not print, publish, or share data, results of study or any content of this protocol.**

**\*\*Researcher whether university or contractor will not claim ownership to any Intellectual Property involving use of sponsor-provided materials.**

**\*\*Use ARM .dat trial file provided for this study - Do not generate .dat files from non-ARM protocol versions (Word or pdf files).**

**1. Establish trial in conventionally tilled area. An incorporated DNA herbicide like Treflan or Prowl should be applied to the entire trial area to help reduce weed competition prior to planting. Plant at least two rows of 3 peanut varieties according to standard practices in the area.**

2. Other maintenance treatments for control of insect or disease pests should be made as needed. Fertilize and make PGR applications as are consistent with local practices.

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## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

3. Crop: **Plant two different peanut varieties.** These varieties should be two popular peanut varieties of interest to the researcher.

4. **Apply herbicides and use handweeding to maintain weed free conditions.** Use a PP or PPI application of Prowl or Trellan to reduce weed competition. Use POST herbicides like Basagran, Paraquat, Butyrac, Assure II, or Storm plus handweeding to eliminate weed competition. Try not to use herbicides that may disrupt visual ratings of injury needed during the 42 days following PRE herbicide applications. Whatever herbicide maintenance program is selected please make sure it is made to the entire study including the checks.

5. Choose nozzles that deliver 15-20 gpa for all applications.

6. Record the following information in Protocol Description tabs/sections:

Application details: Date, time, sprayer type, GPA, PSI, nozzle type and orifice size.

GPS location of the trial

Crop/Weed Information: Crop stage & height at each application.

Environmental Conditions: Air and soil temp, wind speed & direction, humidity, % cloud cover.

Rainfall/Irrigation, especially note rainfall for the 1<sup>st</sup> 4 weeks after each application.

Soil Characteristics: Soil type/texture, pH, CEC, OM, etc.

Deviations: Please describe deviations, errors and variables that may influence crop tolerance or weed control.

7. **Product Samples:** AMVAC will provide samples. The cooperator is asked to provide MSO, COC, NIS, AMS and standards within reason. **A liquid AMS such as N-Pak liquid AMS which provides 3.4 lb/gal of AMS may be used in place of dry product. Do not use AMS alternative water conditioners such as Quest or N-Tense.** Please request this material from your regional AMVAC product development representative.

8. **Record % peanut injury in all treated plots as PHYGEN at 7, 14, 28, and 42 days after each application timing.**

In addition to a general PHYGEN rating, If multiple forms of injury are visible like necrosis (PHYNEC), chlorosis (PHYCHL), and stunting (PHYSTU) then please record multiple phyto assessments for each plot so we can get a good picture of what the total injury looks like in the field

9. Photographs: **Take photos of a representative rep of each treatment at all of the evaluation timings.**

10. **Yield: Required**

11. Provide validated DAT final report by **October 1, 2024.**

**Results:**

**Conclusions:**

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|                                                                     |  |                                    |  |
|---------------------------------------------------------------------|--|------------------------------------|--|
| Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y |  |                                    |  |
| Trial ID: 24HD156USGA09-B                                           |  | Location: Trial Year: 2024         |  |
| Protocol ID: 24HD156US                                              |  | Project ID: 156                    |  |
| Study Director: Greg Armel, Ph.D.                                   |  | Sponsor Contact: Greg Armel, Ph.D. |  |
| Investigator:                                                       |  | Conducted Under GEP: No            |  |
| Trial Origin: P public institution trial                            |  |                                    |  |

|                                     |  |                |  |
|-------------------------------------|--|----------------|--|
| Contacts                            |  |                |  |
| Role: STYDIR                        |  | study director |  |
| Study Director: Greg Armel, Ph.D.   |  |                |  |
| Organization: Amvac                 |  |                |  |
| Address 1: 1508 Jeremy Lane         |  |                |  |
| Address 2:                          |  |                |  |
| Country: USA                        |  | United States  |  |
| City: Rocky Mount                   |  |                |  |
| Role: INVEST                        |  | investigator   |  |
| Investigator:                       |  |                |  |
| Organization:                       |  |                |  |
| Address 1:                          |  |                |  |
| Address 2:                          |  |                |  |
| Country:                            |  |                |  |
| City:                               |  |                |  |
| Role: SPONSR                        |  | sponsor        |  |
| Sponsor: Greg Armel, Ph.D.          |  |                |  |
| Organization: Amvac                 |  |                |  |
| Address 1: 1508 Jeremy Lane         |  |                |  |
| Address 2:                          |  |                |  |
| Country: USA                        |  | United States  |  |
| City: Rocky Mount                   |  |                |  |
| Role: COOPER                        |  | cooperator     |  |
| Cooperator: Eric P Prostko          |  |                |  |
| Organization: University of Georgia |  |                |  |
| Address 1: 4604 Research Way        |  |                |  |
| Address 2:                          |  |                |  |
| Country: USA                        |  | United States  |  |
| City: Tifton                        |  |                |  |
| Role:                               |  |                |  |
| Contact Name 5:                     |  |                |  |
| Organization:                       |  |                |  |
| Address 1:                          |  |                |  |
| Address 2:                          |  |                |  |
| Country:                            |  |                |  |
| City:                               |  |                |  |

|                                         |  |
|-----------------------------------------|--|
| Title: Product Development Manager, S   |  |
| Org. Type:                              |  |
| Phone No.:                              |  |
| Mobil                                   |  |
| E-mail: GregoryA@amvac.com              |  |
| State/Prov: NC                          |  |
| Postal                                  |  |
| Title:                                  |  |
| Org. Type:                              |  |
| Phone No.:                              |  |
| E-mail:                                 |  |
| State/Prov:                             |  |
| Title: Product Development Manager, Sou |  |
| Org. Type:                              |  |
| Phone No.:                              |  |
| Mobile                                  |  |
| E-mail: GregoryA@amvac.com              |  |
| State/Prov: NC                          |  |
| Postal C                                |  |
| Title: Professor and Extension Weed Spe |  |
| Org. Type: University                   |  |
| Phone No.:                              |  |
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| E-mail: eprostko@uga.edu                |  |
| State/Prov: GA                          |  |
| Postal C                                |  |
| Title:                                  |  |
| Org. Type:                              |  |
| Phone No.:                              |  |
| E-mail:                                 |  |
| State/Prov:                             |  |

University of Georgia

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location:

Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Crop Description

Crop 1: C

ARHHY Arachis hypogaea

peanut

Entry Date: Mar-22-24

Variety: GA-12Y

Attributes:

Seed Shape:

Perennial Age:

Nursery Date:

Planting Date: Apr-25-24

Depth: 2 IN

Rows per Plot: 4

Row Spacing: 36 IN

Spacing within Row:

Soil Temperature:

Seed Size:

Perennial Height:

Planting Rate: 3.5 S/FT

Planting Method:

Planting Equipment:

Seed Bed:

Soil Moisture: EXCELL excellent

Emergence Date:

Harvest Date:

Moisture Meter:

% Standard Moisture: 10.0

Weighing Equipment:

Harvest Equipment:

Harvested Width: 6 FT

Harvested Length: 25 FT

Crop 2: C

ARHHY Arachis hypogaea

peanut

Entry Date:

Variety: Popular state variety 2

Attributes:

Seed Shape:

Perennial Age:

Nursery Date:

Planting Date:

Depth:

Rows per Plot:

Row Spacing:

Spacing within Row:

Soil Temperature:

Seed Size:

Perennial Height:

Planting Rate:

Planting Method:

Planting Equipment:

Seed Bed:

Soil Moisture:

Emergence Date:

Harvest Date:

Moisture Meter:

% Standard Moisture:

Weighing Equipment:

Harvest Equipment:

Harvested Width:

Harvested Length:

Pest Description

Pest 1 Type: \_

Code:

Common Name:

Attributes:

Establishment Date:

Establishment Rate:

Concentration:

Establishment Method/Description:

Time:

Stage at Establishment:

Stage at Infestation:

Entry Date:

Stage Scale:

Artificial Population:

Site and Design

[illegible]

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|                                                                     |                                          |                         |
|---------------------------------------------------------------------|------------------------------------------|-------------------------|
| Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y |                                          |                         |
| Trial ID: 24HD156USGA09-B                                           |                                          |                         |
| Protocol ID: 24HD156US                                              | Location:                                | Trial Year: 2024        |
| Project ID: 156                                                     |                                          |                         |
| Study Director: Greg Armel, Ph.D.                                   | Sponsor Contact: Greg Armel, Ph.D.       | Conducted Under GEP: No |
| Investigator:                                                       | Trial Origin: P public institution trial |                         |

**Comment:**  
**RAINFALL/IRRIGATION:**

APRIL 26: 0.3" IRRIGATION  
APRIL 28: 0.2" IRRIGATION  
MAY 2: 0.5" IRRIGATION  
MAY 4: 0.9" RAINFALL  
MAY 9: 0.75" RAINFALL  
MAY 10: 0.75" RAINFALL  
MAY 13: 1.1" RAINFALL  
MAY 17: 0.96" RAINFALL  
MAY 18: 1.35" RAINFALL  
MAY 19: 0.69" RAINFALL  
MAY 25: 0.44" RAINFALL  
MAY 27: 0.62" RAINFALL  
JUNE 4: 0.5" IRRIGATION  
JUNE 11: 0.45" IRRIGATION  
JUNE 17: 0.4" IRRIGATION  
JUNE 27: 0.5" RAINFALL  
JULY 2: 0.5" RAINFALL

|                        |  |
|------------------------|--|
| Greenhouse Information |  |
| No.                    |  |
| 1.                     |  |

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Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B  
Protocol ID: 24HD156US      Location:      Trial Year: 2024  
Project ID: 156  
Study Director: Greg Armel, Ph.D.      Sponsor Contact: Greg Armel, Ph.D.      Conducted Under GEP: No  
Investigator:      Trial Origin: P public institution trial

| Application Description         |           |
|---------------------------------|-----------|
|                                 | A         |
|                                 |           |
| Date                            | Apr-26-24 |
| Start Time                      |           |
| Stop Time                       | 6:50 AM   |
|                                 |           |
| Standard                        |           |
| Method                          | BROADC    |
| Timing                          | PREEM     |
| Placement                       | BROFOL    |
| Mixed/Prepared By               | EP        |
| Applied By                      | NS        |
| Entry Date                      | Oct-7-24  |
| Air Temperature Start, Stop     | , 59 F    |
| % Relative Humidity Start, Stop | 92,       |
| Wind Velocity+Dir. Start        | 0 MPH,    |
| Wind Velocity+Dir. Stop         |           |
| Wind Velocity+Dir. Max          |           |
| Wet Leaves (Y/N)                | N, no     |
| Soil Temperature                | 70 F      |
| Soil Temperature Depth          |           |
| Soil Moisture                   | OPTIMUM   |
|                                 |           |
| Soil Surface Condition          |           |
| % Ground Cover                  |           |
| % Cloud Cover                   |           |
|                                 |           |
| 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

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Evaluation of flumetsulam preemergence for safey in peanut- GA-12Y

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

| Crop Stage At Each Application |             |
|--------------------------------|-------------|
|                                | A           |
| Crop 1 Code, BBCH Scale        | ARHHY, BPNT |
| Days after Emergence           |             |
|                                |             |
| Stage Majority, Percent        |             |
| Stage Minimum, Percent         |             |
| Stage Maximum, Percent         |             |
|                                |             |
| Diameter Average               |             |
| Diameter Minimum, Maximum      |             |
| Height Average                 |             |
| Height Minimum, Maximum        |             |
| Density Average                |             |
| Density Minimum, Maximum       |             |
|                                |             |
| Coverage                       |             |
| Crop 2 Code, BBCH Scale        | ARHHY, BPNT |
| Days after Emergence           |             |
|                                |             |
| Stage Majority, Percent        |             |
| Stage Minimum, Percent         |             |
| Stage Maximum, Percent         |             |
|                                |             |
| Diameter Average               |             |
| Diameter Minimum, Maximum      |             |
| Height Average                 |             |
| Height Minimum, Maximum        |             |
| Density Average                |             |
| Density Minimum, Maximum       |             |
|                                |             |
| Coverage                       |             |

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## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location:

Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

| Pest Stage At Each Application |   |
|--------------------------------|---|
|                                | A |
| Pest 1 Code, Type, Scale       |   |
| 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       |   |

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Protocol ID: 24HD156US      Location:      Trial Year: 2024  
Project ID: 156  
Study Director: Greg Armel, Ph.D.      Sponsor Contact: Greg Armel, Ph.D.      Conducted Under GEP: No  
Investigator:      Trial Origin: P public institution trial

Application Equipment

|                            |           |
|----------------------------|-----------|
|                            | A         |
| Equipment Name             | BOOM      |
| Equipment Type             | BACCAI    |
|                            |           |
| Operation Pressure         | 35 PSI    |
| Nozzle Model               | TEEJET    |
| Nozzle Type                | AIXR      |
| Nozzle TradeName           |           |
| Nozzle Tip Size, Color     | 11002,    |
| Nozzle Spacing             | 20.0 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)             | Y, yes    |

Equipment Comment:

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Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

|                        |    |
|------------------------|----|
| Equipment              |    |
|                        | 1. |
| Equipment Name         |    |
| Platform Type          |    |
| Platform Trade Name    |    |
| Platform Model         |    |
| Sensor Type            |    |
| Sensor Trade Name      |    |
| Sensor Model           |    |
| Resolution             |    |
| Sensor Height          |    |
| Sensor Speed           |    |
| Original Data Location |    |
| Analysis Company       |    |
| Analysis Method        |    |
| Software Version       |    |
| Scale Trade Name       |    |
| Scale Model            |    |

|                          |                               |
|--------------------------|-------------------------------|
| Treatment Appl. Comments |                               |
| Trt No                   | Treatment Application Comment |
|                          |                               |

| Notes |         |           |      |                 |                                                                                                     |
|-------|---------|-----------|------|-----------------|-----------------------------------------------------------------------------------------------------|
| No.   | Context | Date      | Time | By              | Notes                                                                                               |
| 1.    | STATUS  | Mar-20-24 |      | Gregory Armel   | Automatically added by ARM: Trial Status updated to 'S' during trial creation by (XAVARG).          |
| 2.    | STATUS  | Apr-25-24 |      | Eric P. Prostko | Automatically added by ARM: Trial Status updated to 'E' when Planting Date was entered by (EGAPRE). |
| 3.    |         |           |      |                 |                                                                                                     |

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

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## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

### SE Definitions

|                         |      |         |    |
|-------------------------|------|---------|----|
| 1.2 Comments            |      |         | 1. |
| Rating Timing           |      |         |    |
| SE Name                 |      |         |    |
| SE Description          |      |         |    |
| Part Rated              |      |         |    |
| Rating Type             |      |         |    |
| Rating Unit             |      |         |    |
| Rating Min/Max/Interval |      |         |    |
| 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:

\*\*\*Confidential\*\*\*

- Do not print, publish, or share data, results of study or any content of this protocol.

**\*\*Researcher whether university or contractor will not claim ownership to any Intellectual Property involving use of sponsor-provided materials.**

**\*\*Use ARM .dat trial file provided for this study - Do not generate .dat files from non-ARM protocol versions (Word or pdf files).**

**1. Establish trial in conventionally tilled area. An incorporated DNA herbicide like Treflan or Prowl should be applied to the entire trial area to help reduce weed competition prior to planting. Plant at least two rows of 3 peanut varieties according to standard practices in the area.**

2. Other maintenance treatments for control of insect or disease pests should be made as needed. Fertilize and make PGR applications as are consistent with local practices.

3. Crop: **Plant two different peanut varieties.** These varieties should be two popular peanut varieties of interest to the researcher.

4. **Apply herbicides and use handweeding to maintain weed free conditions.** Use a PP or PPI application of Prowl or Treflan to reduce weed competition. Use POST herbicides like Basagran, Paraquat, Butyrac, Assure II, or Storm plus handweeding to eliminate weed competition. Try not to use herbicides that may disrupt visual ratings of injury needed during the 42 days following PRE herbicide applications. Whatever herbicide maintenance program is selected please make sure it is made to the entire study including the checks.

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Location: Trial Year: 2024

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator: Trial Origin: P public institution trial

5. Choose nozzles that deliver 15-20 gpa for all applications.

6. Record the following information in Protocol Description tabs/sections:

Application details: Date, time, sprayer type, GPA, PSI, nozzle type and orifice size.

GPS location of the trial

Crop/Weed Information: Crop stage & height at each application.

Environmental Conditions: Air and soil temp, wind speed & direction, humidity, % cloud cover.

Rainfall/Irrigation, especially note rainfall for the 1<sup>st</sup> 4 weeks after each application.

Soil Characteristics: Soil type/texture, pH, CEC, OM, etc.

Deviations: Please describe deviations, errors and variables that may influence crop tolerance or weed control.

7. **Product Samples:** AMVAC will provide samples. The cooperator is asked to provide MSO, COC, NIS, AMS and standards within reason. **A liquid AMS such as N-Pak liquid AMS which provides 3.4 lb/gal of AMS may be used in place of dry product. Do not use AMS alternative water conditioners such as Quest or N-Tense.** Please request this material from your regional AMVAC product development representative.

8. **Record % peanut injury in all treated plots as PHYGEN at 7, 14, 28, and 42 days after each application timing.**

In addition to a general PHYGEN rating, If multiple forms of injury are visible like necrosis (PHYNEC), chlorosis (PHYCHL), and stunting (PHYSTU) then please record multiple phyto assessments for each plot so we can get a good picture of what the total injury looks like in the field

9. Photographs: **Take photos of a representative rep of each treatment at all of the evaluation timings.**

10. **Yield: Required**

11. Provide validated DAT final report by **October 1, 2024.**

Yield Required: \_

Geographic Area/Environmental Considerations:

Cropping Considerations:

Data to Collect:

Statistical Analysis:

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date             |                        |         |      |                | May-6-24<br>STAND<br>#/5 FT<br>PEANUT | May-6-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | May-6-24<br>CHLOROSIS<br>%<br>PEANUT<br>0, 100, - | May-15-24<br>STAND<br>#/5 FT<br>PEANUT | May-15-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - |
|-------------------------|------------------------|---------|------|----------------|---------------------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------------|---------------------------------------------------|
| Rating Type             |                        |         |      |                |                                       |                                                  |                                                   |                                        |                                                   |
| Rating Unit             |                        |         |      |                |                                       |                                                  |                                                   |                                        |                                                   |
| Crop Name               |                        |         |      |                |                                       |                                                  |                                                   |                                        |                                                   |
| Rating Min/Max/Interval |                        |         |      |                |                                       |                                                  |                                                   |                                        |                                                   |
| Trt                     | Treatment              | Form    | Form | Rate           | Appl                                  | Appl                                             |                                                   |                                        |                                                   |
| No.                     | Name                   | Conc    | Type | Rate Unit      | Code                                  | Timing                                           |                                                   |                                        |                                                   |
| 1                       | Untreated Check        |         |      |                |                                       |                                                  | 1                                                 | 2                                      | 3                                                 |
| 2                       | Python 80 WG           | 80 WG   |      | 0.83 oz wt/a A | PREEM                                 |                                                  | 4                                                 | 5                                      |                                                   |
| 3                       | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 4                       | Python 80 WG           | 80 WG   |      | 1.25 oz wt/a A | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 5                       | Python 80 WG           | 80 WG   |      | 1.33 oz wt/a A | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 6                       | Python 80 WG           | 80 WG   |      | 1.66 oz wt/a A | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 7                       | Python 80 WG           | 80 WG   |      | 2 oz wt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 8                       | Python 80 WG           | 80 WG   |      | 2.5 oz wt/a A  | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 9                       | Python 80 WG           | 80 WG   |      | 2.66 oz wt/a A | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 10                      | Valor                  | 51 WG   |      | 3 oz/a A       | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 11                      | Valor                  | 51 WG   |      | 3 oz/a A       | PREEM                                 |                                                  |                                                   |                                        |                                                   |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 12                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 13                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| 14                      | Valor                  | 51 WG   |      | 3 oz/a A       | PREEM                                 |                                                  |                                                   |                                        |                                                   |
|                         | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM                                 |                                                  |                                                   |                                        |                                                   |
| LSD P=.10               |                        |         |      |                | 3.63                                  | 13.87                                            | 5.17                                              | 2.73                                   | 5.38                                              |
| Standard Deviation      |                        |         |      |                | 3.04                                  | 11.64                                            | 4.34                                              | 2.29                                   | 4.51                                              |
| CV                      |                        |         |      |                | 27.1                                  | 18.57                                            | 24.44                                             | 8.44                                   | 23.62                                             |
| Grand Mean              |                        |         |      |                | 11.23                                 | 62.68                                            | 17.77                                             | 27.14                                  | 19.11                                             |
| Bartlett's X2^          |                        |         |      |                | 6.971                                 | 42.339*                                          | 9.121                                             | 15.178                                 | 27.117*                                           |
| P(Bartlett's X2)        |                        |         |      |                | 0.904                                 | 0.00*                                            | 0.764                                             | 0.296                                  | 0.012*                                            |
| Replicate F             |                        |         |      |                | 0.557                                 | 0.444                                            | 3.244                                             | 1.923                                  | 0.497                                             |
| Replicate Prob(F)       |                        |         |      |                | 0.6465                                | 0.7230                                           | 0.0321                                            | 0.1418                                 | 0.6867                                            |
| Treatment F             |                        |         |      |                | 17.366                                | 26.146                                           | 16.432                                            | 2.167                                  | 12.951                                            |
| Treatment Prob(F)       |                        |         |      |                | 0.0001                                | 0.0001                                           | 0.0001                                            | 0.0314                                 | 0.0001                                            |

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=14,19

^Calculated from residual.

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                           |                                        |                          |  | May-28-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | Jun-11-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | Jun-11-24<br>HEIGHT1<br>INCHES<br>PEANUT | Jun-11-24<br>HEIGHT2<br>INCHES<br>PEANUT | Jun-11-24<br>HEIGHT3<br>INCHES<br>PEANUT |
|-----------------------------------------------------------------------------------|---------------------------|----------------------------------------|--------------------------|--|---------------------------------------------------|---------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| Trt Treatment<br>No. Name                                                         | Form Form<br>Conc Type    | Rate<br>Rate Unit                      | Appl Appl<br>Code Timing |  | 6                                                 | 7                                                 | 8                                        | 9                                        | 10                                       |
| 1 Untreated Check                                                                 |                           |                                        |                          |  | 0.0 g                                             | 0.0 h                                             | 5.3 a                                    | 4.5 ab                                   | 4.5 -                                    |
| 2 Python 80 WG                                                                    | 80 WG                     | 0.83 oz wt/a A                         | PREEM                    |  | 17.5 de                                           | 17.5 f                                            | 4.5 ab                                   | 3.8 bcd                                  | 3.8 -                                    |
| 3 Python 80 WG                                                                    | 80 WG                     | 1 oz wt/a A                            | PREEM                    |  | 17.5 de                                           | 20.0 ef                                           | 4.0 bc                                   | 4.0 a-d                                  | 4.3 -                                    |
| 4 Python 80 WG                                                                    | 80 WG                     | 1.25 oz wt/a A                         | PREEM                    |  | 20.0 bcd                                          | 20.0 ef                                           | 4.3 b                                    | 3.5 cd                                   | 3.3 -                                    |
| 5 Python 80 WG                                                                    | 80 WG                     | 1.33 oz wt/a A                         | PREEM                    |  | 18.8 cde                                          | 28.8 bc                                           | 4.0 bc                                   | 3.8 bcd                                  | 3.8 -                                    |
| 6 Python 80 WG                                                                    | 80 WG                     | 1.66 oz wt/a A                         | PREEM                    |  | 20.0 bcd                                          | 27.5 c                                            | 4.0 bc                                   | 2.5 e                                    | 3.3 -                                    |
| 7 Python 80 WG                                                                    | 80 WG                     | 2 oz wt/a A                            | PREEM                    |  | 25.0 a                                            | 28.8 bc                                           | 3.3 cd                                   | 3.3 de                                   | 3.3 -                                    |
| 8 Python 80 WG                                                                    | 80 WG                     | 2.5 oz wt/a A                          | PREEM                    |  | 25.0 a                                            | 33.8 ab                                           | 3.3 cd                                   | 3.3 de                                   | 3.5 -                                    |
| 9 Python 80 WG                                                                    | 80 WG                     | 2.66 oz wt/a A                         | PREEM                    |  | 25.0 a                                            | 36.3 a                                            | 3.0 d                                    | 3.5 cd                                   | 3.5 -                                    |
| 10 Valor                                                                          | 51 WG                     | 3 oz/a A                               | PREEM                    |  | 15.0 e                                            | 10.0 g                                            | 5.3 a                                    | 4.5 ab                                   | 3.8 -                                    |
| 11 Valor<br>Python 80 WG                                                          | 51 WG<br>80 WG            | 3 oz/a A<br>1 oz wt/a A                | PREEM<br>PREEM           |  | 23.8 ab                                           | 23.8 cde                                          | 4.3 b                                    | 4.0 a-d                                  | 4.5 -                                    |
| 12 Dual II Magnum 7.64 EC                                                         | 7.64 EC                   | 1.33 pt/a A                            | PREEM                    |  | 8.8 f                                             | 6.3 g                                             | 4.8 ab                                   | 4.8 a                                    | 4.5 -                                    |
| 13 Dual II Magnum 7.64 EC<br>Python 80 WG                                         | 7.64 EC<br>80 WG          | 1.33 pt/a A<br>1 oz wt/a A             | PREEM<br>PREEM           |  | 21.3 a-d                                          | 21.3 def                                          | 4.0 bc                                   | 4.3 abc                                  | 4.3 -                                    |
| 14 Valor<br>Dual II Magnum 7.64 EC<br>Python 80 WG                                | 51 WG<br>7.64 EC<br>80 WG | 3 oz/a A<br>1.33 pt/a A<br>1 oz wt/a A | PREEM<br>PREEM<br>PREEM  |  | 22.5 abc                                          | 26.3 cd                                           | 4.0 bc                                   | 3.5 cd                                   | 4.0 -                                    |
| LSD P=.10                                                                         |                           |                                        |                          |  | 4.70                                              | 6.04                                              | 0.80                                     | 0.88                                     | 0.88                                     |
| Standard Deviation                                                                |                           |                                        |                          |  | 3.95                                              | 5.07                                              | 0.67                                     | 0.74                                     | 0.74                                     |
| CV                                                                                |                           |                                        |                          |  | 21.25                                             | 23.67                                             | 16.36                                    | 19.48                                    | 19.09                                    |
| Grand Mean                                                                        |                           |                                        |                          |  | 18.57                                             | 21.43                                             | 4.13                                     | 3.79                                     | 3.86                                     |
| Bartlett's X2^                                                                    |                           |                                        |                          |  | 18.668                                            | 7.57                                              | 10.097                                   | 7.773                                    | 14.107                                   |
| P(Bartlett's X2)                                                                  |                           |                                        |                          |  | 0.134                                             | 0.87                                              | 0.686                                    | 0.858                                    | 0.366                                    |
| Replicate F                                                                       |                           |                                        |                          |  | 0.918                                             | 7.078                                             | 1.816                                    | 0.788                                    | 1.142                                    |
| Replicate Prob(F)                                                                 |                           |                                        |                          |  | 0.4413                                            | 0.0007                                            | 0.1602                                   | 0.5080                                   | 0.3442                                   |
| Treatment F                                                                       |                           |                                        |                          |  | 12.529                                            | 16.548                                            | 4.031                                    | 2.677                                    | 1.682                                    |
| Treatment Prob(F)                                                                 |                           |                                        |                          |  | 0.0001                                            | 0.0001                                            | 0.0004                                   | 0.0088                                   | 0.1042                                   |

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=14,19

^Calculated from residual.

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                           |                                        |                          |  | Jun-11-24<br>HEIGHT4<br>INCHES<br>PEANUT | Jun-11-24<br>HEIGHT5<br>INCHES<br>PEANUT | Jun-11-24<br>HEIGHT-AVG<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH1<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH2<br>INCHES<br>PEANUT |
|-----------------------------------------------------------------------------------|---------------------------|----------------------------------------|--------------------------|--|------------------------------------------|------------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------------|
| Trt Treatment<br>No. Name                                                         | Form Form<br>Conc Type    | Rate<br>Rate Unit                      | Appl Appl<br>Code Timing |  | 11                                       | 12                                       | 13                                          | 14                                      | 15                                      |
| 1 Untreated Check                                                                 |                           |                                        |                          |  | 4.5 abc                                  | 4.8 ab                                   | 4.7 ab                                      | 15.8 a                                  | 14.8 ab                                 |
| 2 Python 80 WG                                                                    | 80 WG                     | 0.83 oz wt/a A                         | PREEM                    |  | 4.5 abc                                  | 4.3 abc                                  | 4.2 abc                                     | 9.5 bc                                  | 9.3 cd                                  |
| 3 Python 80 WG                                                                    | 80 WG                     | 1 oz wt/a A                            | PREEM                    |  | 4.3 abc                                  | 4.3 abc                                  | 4.2 abc                                     | 7.8 cd                                  | 8.8 cd                                  |
| 4 Python 80 WG                                                                    | 80 WG                     | 1.25 oz wt/a A                         | PREEM                    |  | 4.0 bcd                                  | 4.3 abc                                  | 3.9 cd                                      | 7.3 cd                                  | 8.0 cd                                  |
| 5 Python 80 WG                                                                    | 80 WG                     | 1.33 oz wt/a A                         | PREEM                    |  | 3.8 cde                                  | 3.8 cde                                  | 3.8 cde                                     | 7.0 cd                                  | 7.8 cd                                  |
| 6 Python 80 WG                                                                    | 80 WG                     | 1.66 oz wt/a A                         | PREEM                    |  | 3.0 ef                                   | 3.0 e                                    | 3.2 f                                       | 6.0 d                                   | 6.3 d                                   |
| 7 Python 80 WG                                                                    | 80 WG                     | 2 oz wt/a A                            | PREEM                    |  | 3.3 def                                  | 3.3 de                                   | 3.3 def                                     | 7.0 cd                                  | 7.3 cd                                  |
| 8 Python 80 WG                                                                    | 80 WG                     | 2.5 oz wt/a A                          | PREEM                    |  | 3.0 ef                                   | 3.0 e                                    | 3.2 ef                                      | 5.3 d                                   | 5.5 d                                   |
| 9 Python 80 WG                                                                    | 80 WG                     | 2.66 oz wt/a A                         | PREEM                    |  | 2.5 f                                    | 3.5 cde                                  | 3.2 ef                                      | 5.5 d                                   | 5.5 d                                   |
| 10 Valor                                                                          | 51 WG                     | 3 oz/a A                               | PREEM                    |  | 4.3 abc                                  | 5.0 a                                    | 4.6 ab                                      | 9.5 bc                                  | 11.0 bc                                 |
| 11 Valor<br>Python 80 WG                                                          | 51 WG<br>80 WG            | 3 oz/a A<br>1 oz wt/a A                | PREEM<br>PREEM           |  | 3.8 cde                                  | 4.0 bcd                                  | 4.1 bc                                      | 7.5 cd                                  | 8.0 cd                                  |
| 12 Dual II Magnum 7.64 EC                                                         | 7.64 EC                   | 1.33 pt/a A                            | PREEM                    |  | 5.0 a                                    | 4.8 ab                                   | 4.8 a                                       | 12.0 b                                  | 15.0 a                                  |
| 13 Dual II Magnum 7.64 EC<br>Python 80 WG                                         | 7.64 EC<br>80 WG          | 1.33 pt/a A<br>1 oz wt/a A             | PREEM<br>PREEM           |  | 4.8 ab                                   | 4.8 ab                                   | 4.4 abc                                     | 7.5 cd                                  | 7.8 cd                                  |
| 14 Valor<br>Dual II Magnum 7.64 EC<br>Python 80 WG                                | 51 WG<br>7.64 EC<br>80 WG | 3 oz/a A<br>1.33 pt/a A<br>1 oz wt/a A | PREEM<br>PREEM<br>PREEM  |  | 3.8 cde                                  | 3.8 cde                                  | 3.8 cde                                     | 6.5 cd                                  | 6.0 d                                   |
| LSD P=.10                                                                         |                           |                                        |                          |  | 0.99                                     | 0.92                                     | 0.61                                        | 3.12                                    | 3.81                                    |
| Standard Deviation                                                                |                           |                                        |                          |  | 0.84                                     | 0.77                                     | 0.51                                        | 2.62                                    | 3.19                                    |
| CV                                                                                |                           |                                        |                          |  | 21.55                                    | 19.28                                    | 12.93                                       | 32.12                                   | 37.03                                   |
| Grand Mean                                                                        |                           |                                        |                          |  | 3.88                                     | 4.02                                     | 3.93                                        | 8.14                                    | 8.63                                    |
| Bartlett's X2^                                                                    |                           |                                        |                          |  | 20.105                                   | 16.396                                   | 10.856                                      | 36.014*                                 | 26.616*                                 |
| P(Bartlett's X2)                                                                  |                           |                                        |                          |  | 0.093                                    | 0.228                                    | 0.623                                       | 0.001*                                  | 0.014*                                  |
| Replicate F                                                                       |                           |                                        |                          |  | 0.504                                    | 1.299                                    | 0.467                                       | 0.536                                   | 0.501                                   |
| Replicate Prob(F)                                                                 |                           |                                        |                          |  | 0.6820                                   | 0.2884                                   | 0.7072                                      | 0.6605                                  | 0.6837                                  |
| Treatment F                                                                       |                           |                                        |                          |  | 3.075                                    | 2.977                                    | 4.964                                       | 4.653                                   | 3.633                                   |
| Treatment Prob(F)                                                                 |                           |                                        |                          |  | 0.0033                                   | 0.0042                                   | 0.0001                                      | 0.0001                                  | 0.0009                                  |

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=14,19

^Calculated from residual.

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                           |           |                                        |                          | Jun-11-24<br>WIDTH3<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH4<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH5<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH-AVG<br>INCHES<br>PEANUT | Jul-3-24<br>Stunting<br>%<br>Peanut<br>0, 100, - |
|-----------------------------------------------------------------------------------|---------------------------|-----------|----------------------------------------|--------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------------------|
| Trt Treatment<br>No. Name                                                         | Form Conc                 | Form Type | Rate Rate Unit                         | Appl Appl<br>Code Timing | 16                                      | 17                                      | 18                                      | 19                                         | 20                                               |
| 1 Untreated Check                                                                 |                           |           |                                        |                          | 18.0 a                                  | 19.0 a                                  | 15.0 a                                  | 16.5 a                                     | 0.0 g                                            |
| 2 Python 80 WG                                                                    | 80 WG                     |           | 0.83 oz wt/a A                         | PREEM                    | 10.0 cd                                 | 11.3 c                                  | 9.8 bc                                  | 10.0 bc                                    | 7.5 de                                           |
| 3 Python 80 WG                                                                    | 80 WG                     |           | 1 oz wt/a A                            | PREEM                    | 8.5 cde                                 | 8.3 de                                  | 7.5 cd                                  | 8.2 b-e                                    | 10.0 cde                                         |
| 4 Python 80 WG                                                                    | 80 WG                     |           | 1.25 oz wt/a A                         | PREEM                    | 7.8 de                                  | 9.3 cde                                 | 8.8 bcd                                 | 8.2 bcd                                    | 7.5 de                                           |
| 5 Python 80 WG                                                                    | 80 WG                     |           | 1.33 oz wt/a A                         | PREEM                    | 6.8 e                                   | 7.5 ef                                  | 7.5 cd                                  | 7.3 cde                                    | 12.5 c                                           |
| 6 Python 80 WG                                                                    | 80 WG                     |           | 1.66 oz wt/a A                         | PREEM                    | 7.0 e                                   | 8.0 def                                 | 6.8 cd                                  | 6.8 de                                     | 12.5 c                                           |
| 7 Python 80 WG                                                                    | 80 WG                     |           | 2 oz wt/a A                            | PREEM                    | 7.0 e                                   | 7.0 ef                                  | 6.3 d                                   | 6.9 de                                     | 13.8 bc                                          |
| 8 Python 80 WG                                                                    | 80 WG                     |           | 2.5 oz wt/a A                          | PREEM                    | 6.0 e                                   | 7.0 ef                                  | 7.0 cd                                  | 6.2 de                                     | 17.5 b                                           |
| 9 Python 80 WG                                                                    | 80 WG                     |           | 2.66 oz wt/a A                         | PREEM                    | 5.8 e                                   | 5.3 f                                   | 5.5 d                                   | 5.5 e                                      | 22.5 a                                           |
| 10 Valor                                                                          | 51 WG                     |           | 3 oz/a A                               | PREEM                    | 11.0 c                                  | 10.5 cd                                 | 12.0 ab                                 | 10.8 b                                     | 6.3 ef                                           |
| 11 Valor<br>Python 80 WG                                                          | 51 WG<br>80 WG            |           | 3 oz/a A<br>1 oz wt/a A                | PREEM<br>PREEM           | 8.0 de                                  | 8.3 de                                  | 7.8 cd                                  | 7.9 cde                                    | 10.0 cde                                         |
| 12 Dual II Magnum 7.64 EC                                                         | 7.64 EC                   |           | 1.33 pt/a A                            | PREEM                    | 14.5 b                                  | 16.0 b                                  | 15.3 a                                  | 14.6 a                                     | 2.5 fg                                           |
| 13 Dual II Magnum 7.64 EC<br>Python 80 WG                                         | 7.64 EC<br>80 WG          |           | 1.33 pt/a A<br>1 oz wt/a A             | PREEM<br>PREEM           | 8.5 cde                                 | 7.5 ef                                  | 6.3 d                                   | 7.5 cde                                    | 11.3 cd                                          |
| 14 Valor<br>Dual II Magnum 7.64 EC<br>Python 80 WG                                | 51 WG<br>7.64 EC<br>80 WG |           | 3 oz/a A<br>1.33 pt/a A<br>1 oz wt/a A | PREEM<br>PREEM<br>PREEM  | 7.8 de                                  | 7.0 ef                                  | 7.0 cd                                  | 6.9 de                                     | 11.3 cd                                          |
| LSD P=.10                                                                         |                           |           |                                        |                          | 2.98                                    | 2.85                                    | 3.33                                    | 2.67                                       | 4.67                                             |
| Standard Deviation                                                                |                           |           |                                        |                          | 2.51                                    | 2.39                                    | 2.80                                    | 2.24                                       | 3.92                                             |
| CV                                                                                |                           |           |                                        |                          | 27.73                                   | 25.41                                   | 32.04                                   | 25.43                                      | 37.87                                            |
| Grand Mean                                                                        |                           |           |                                        |                          | 9.04                                    | 9.41                                    | 8.73                                    | 8.79                                       | 10.36                                            |
| Bartlett's X2^                                                                    |                           |           |                                        |                          | 29.047*                                 | 30.982*                                 | 36.775*                                 | 33.67*                                     | 22.603*                                          |
| P(Bartlett's X2)                                                                  |                           |           |                                        |                          | 0.006*                                  | 0.003*                                  | 0.00*                                   | 0.001*                                     | 0.047*                                           |
| Replicate F                                                                       |                           |           |                                        |                          | 0.808                                   | 0.686                                   | 0.471                                   | 0.686                                      | 5.417                                            |
| Replicate Prob(F)                                                                 |                           |           |                                        |                          | 0.4971                                  | 0.5660                                  | 0.7043                                  | 0.5663                                     | 0.0033                                           |
| Treatment F                                                                       |                           |           |                                        |                          | 7.524                                   | 10.047                                  | 5.119                                   | 8.151                                      | 8.464                                            |
| Treatment Prob(F)                                                                 |                           |           |                                        |                          | 0.0001                                  | 0.0001                                  | 0.0001                                  | 0.0001                                     | 0.0001                                           |

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=14,19

^Calculated from residual.

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                                                 |                           |           |                                        |                         | Jul-30-24<br>HEIGHT1<br>INCHES<br>PEANUT | Jul-30-24<br>HEIGHT2<br>INCHES<br>PEANUT | Jul-30-24<br>HEIGHT3<br>INCHES<br>PEANUT | Jul-30-24<br>HEIGHT4<br>INCHES<br>PEANUT | Jul-30-24<br>HEIGHT5<br>INCHES<br>PEANUT | Jul-30-24<br>HEIGHT6<br>INCHES<br>PEANUT |          |
|-----------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|-----------|----------------------------------------|-------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------|
| Trt No.                                                                           | Treatment Name                                  | Form Conc                 | Form Type | Rate Rate Unit                         | Appl Code               | Appl Timing                              | 21                                       | 22                                       | 23                                       | 24                                       | 25                                       | 26       |
| 1                                                                                 | Untreated Check                                 |                           |           |                                        |                         |                                          | 17.3 a                                   | 17.5 -                                   | 18.3 a                                   | 18.3 a                                   | 17.3 ab                                  | 16.8 abc |
| 2                                                                                 | Python 80 WG                                    | 80 WG                     |           | 0.83 oz wt/a A                         | PREEM                   |                                          | 16.5 ab                                  | 17.3 -                                   | 18.0 ab                                  | 17.5 abc                                 | 17.5 ab                                  | 17.8 a   |
| 3                                                                                 | Python 80 WG                                    | 80 WG                     |           | 1 oz wt/a A                            | PREEM                   |                                          | 16.3 ab                                  | 17.8 -                                   | 17.3 abc                                 | 16.5 cde                                 | 17.0 ab                                  | 16.8 abc |
| 4                                                                                 | Python 80 WG                                    | 80 WG                     |           | 1.25 oz wt/a A                         | PREEM                   |                                          | 17.3 a                                   | 17.0 -                                   | 17.0 abc                                 | 17.0 a-d                                 | 17.0 ab                                  | 17.0 abc |
| 5                                                                                 | Python 80 WG                                    | 80 WG                     |           | 1.33 oz wt/a A                         | PREEM                   |                                          | 16.5 ab                                  | 16.8 -                                   | 16.8 bc                                  | 16.3 cde                                 | 17.3 ab                                  | 16.5 abc |
| 6                                                                                 | Python 80 WG                                    | 80 WG                     |           | 1.66 oz wt/a A                         | PREEM                   |                                          | 16.3 ab                                  | 16.5 -                                   | 16.5 cd                                  | 15.8 def                                 | 16.8 bc                                  | 16.0 bc  |
| 7                                                                                 | Python 80 WG                                    | 80 WG                     |           | 2 oz wt/a A                            | PREEM                   |                                          | 15.5 bc                                  | 15.8 -                                   | 16.8 bc                                  | 15.5 ef                                  | 15.3 cd                                  | 17.0 abc |
| 8                                                                                 | Python 80 WG                                    | 80 WG                     |           | 2.5 oz wt/a A                          | PREEM                   |                                          | 14.5 c                                   | 15.8 -                                   | 15.3 de                                  | 14.5 f                                   | 15.0 d                                   | 15.5 cd  |
| 9                                                                                 | Python 80 WG                                    | 80 WG                     |           | 2.66 oz wt/a A                         | PREEM                   |                                          | 14.5 c                                   | 15.5 -                                   | 14.8 e                                   | 14.5 f                                   | 14.0 d                                   | 14.3 d   |
| 10                                                                                | Valor                                           | 51 WG                     |           | 3 oz/a A                               | PREEM                   |                                          | 17.0 a                                   | 16.5 -                                   | 17.0 abc                                 | 18.0 ab                                  | 17.8 ab                                  | 17.5 ab  |
| 11                                                                                | Valor<br>Python 80 WG                           | 51 WG<br>80 WG            |           | 3 oz/a A<br>1 oz wt/a A                | PREEM<br>PREEM          |                                          | 16.8 ab                                  | 17.0 -                                   | 17.0 abc                                 | 17.0 a-d                                 | 17.3 ab                                  | 17.3 ab  |
| 12                                                                                | Dual II Magnum 7.64 EC                          | 7.64 EC                   |           | 1.33 pt/a A                            | PREEM                   |                                          | 16.8 ab                                  | 18.5 -                                   | 18.0 ab                                  | 18.3 a                                   | 18.5 a                                   | 17.3 ab  |
| 13                                                                                | Dual II Magnum 7.64 EC<br>Python 80 WG          | 7.64 EC<br>80 WG          |           | 1.33 pt/a A<br>1 oz wt/a A             | PREEM<br>PREEM          |                                          | 16.8 ab                                  | 16.8 -                                   | 17.3 abc                                 | 17.0 a-d                                 | 17.8 ab                                  | 16.5 abc |
| 14                                                                                | Valor<br>Dual II Magnum 7.64 EC<br>Python 80 WG | 51 WG<br>7.64 EC<br>80 WG |           | 3 oz/a A<br>1.33 pt/a A<br>1 oz wt/a A | PREEM<br>PREEM<br>PREEM |                                          | 17.3 a                                   | 17.3 -                                   | 17.3 abc                                 | 16.8 b-e                                 | 18.0 ab                                  | 16.5 abc |
| LSD P=.10                                                                         |                                                 |                           |           |                                        |                         |                                          | 1.47                                     | 1.63                                     | 1.40                                     | 1.45                                     | 1.56                                     | 1.63     |
| Standard Deviation                                                                |                                                 |                           |           |                                        |                         |                                          | 1.23                                     | 1.37                                     | 1.17                                     | 1.22                                     | 1.31                                     | 1.37     |
| CV                                                                                |                                                 |                           |           |                                        |                         |                                          | 7.55                                     | 8.13                                     | 6.93                                     | 7.34                                     | 7.78                                     | 8.26     |
| Grand Mean                                                                        |                                                 |                           |           |                                        |                         |                                          | 16.36                                    | 16.84                                    | 16.93                                    | 16.63                                    | 16.88                                    | 16.61    |
| Bartlett's X2^                                                                    |                                                 |                           |           |                                        |                         |                                          | 15.87                                    | 14.293                                   | 9.979                                    | 16.611                                   | 7.537                                    | 13.506   |
| P(Bartlett's X2)                                                                  |                                                 |                           |           |                                        |                         |                                          | 0.256                                    | 0.354                                    | 0.696                                    | 0.218                                    | 0.872                                    | 0.41     |
| Replicate F                                                                       |                                                 |                           |           |                                        |                         |                                          | 2.094                                    | 3.772                                    | 2.247                                    | 1.482                                    | 0.397                                    | 1.075    |
| Replicate Prob(F)                                                                 |                                                 |                           |           |                                        |                         |                                          | 0.1167                                   | 0.0181                                   | 0.0980                                   | 0.2345                                   | 0.7557                                   | 0.3709   |
| Treatment F                                                                       |                                                 |                           |           |                                        |                         |                                          | 2.214                                    | 1.450                                    | 2.721                                    | 4.045                                    | 3.700                                    | 1.710    |
| Treatment Prob(F)                                                                 |                                                 |                           |           |                                        |                         |                                          | 0.0279                                   | 0.1812                                   | 0.0079                                   | 0.0003                                   | 0.0008                                   | 0.0975   |

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=14,19

^Calculated from residual.

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date             |                        |         |      |                | Jul-30-24  | Oct-4-24    | Oct-4-24    | Oct-4-24 |
|-------------------------|------------------------|---------|------|----------------|------------|-------------|-------------|----------|
| Rating Type             |                        |         |      |                | HEIGHT-AVG | YIELD-DIRTY | YIELD-CLEAN | YIELD    |
| Rating Unit             |                        |         |      |                | INCHES     | LBS/PLOT    | LBS/PLOT    | LBS/A    |
| Crop Name               |                        |         |      |                | PEANUT     | PEANUT      | PEANUT      | PEANUT   |
| Rating Min/Max/Interval |                        |         |      |                |            |             |             |          |
| Trt                     | Treatment              | Form    | Form | Rate           | Appl       | Appl        |             |          |
| No.                     | Name                   | Conc    | Type | Rate Unit      | Code       | Timing      |             |          |
| 1                       | Untreated Check        |         |      |                |            |             |             |          |
| 2                       | Python 80 WG           | 80 WG   |      | 0.83 oz wt/a A | PREEM      |             |             |          |
| 3                       | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM      |             |             |          |
| 4                       | Python 80 WG           | 80 WG   |      | 1.25 oz wt/a A | PREEM      |             |             |          |
| 5                       | Python 80 WG           | 80 WG   |      | 1.33 oz wt/a A | PREEM      |             |             |          |
| 6                       | Python 80 WG           | 80 WG   |      | 1.66 oz wt/a A | PREEM      |             |             |          |
| 7                       | Python 80 WG           | 80 WG   |      | 2 oz wt/a A    | PREEM      |             |             |          |
| 8                       | Python 80 WG           | 80 WG   |      | 2.5 oz wt/a A  | PREEM      |             |             |          |
| 9                       | Python 80 WG           | 80 WG   |      | 2.66 oz wt/a A | PREEM      |             |             |          |
| 10                      | Valor                  | 51 WG   |      | 3 oz/a A       | PREEM      |             |             |          |
| 11                      | Valor                  | 51 WG   |      | 3 oz/a A       | PREEM      |             |             |          |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM      |             |             |          |
| 12                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a A    | PREEM      |             |             |          |
| 13                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a A    | PREEM      |             |             |          |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM      |             |             |          |
| 14                      | Valor                  | 51 WG   |      | 3 oz/a A       | PREEM      |             |             |          |
|                         | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a A    | PREEM      |             |             |          |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a A    | PREEM      |             |             |          |
| LSD P=.10               |                        |         |      |                | 1.03       | 2.050       | 2.01        | 468.59   |
| Standard Deviation      |                        |         |      |                | 0.86       | 1.720       | 1.69        | 393.32   |
| CV                      |                        |         |      |                | 5.17       | 8.01        | 8.01        | 8.01     |
| Grand Mean              |                        |         |      |                | 16.71      | 21.473      | 21.04       | 4909.25  |
| Bartlett's X2^          |                        |         |      |                | 9.167      | 20.592      | 20.592      | 20.592   |
| P(Bartlett's X2)        |                        |         |      |                | 0.76       | 0.081       | 0.081       | 0.081    |
| Replicate F             |                        |         |      |                | 1.900      | 0.545       | 0.545       | 0.545    |
| Replicate Prob(F)       |                        |         |      |                | 0.1455     | 0.6544      | 0.6544      | 0.6544   |
| Treatment F             |                        |         |      |                | 4.679      | 0.888       | 0.888       | 0.888    |
| Treatment Prob(F)       |                        |         |      |                | 0.0001     | 0.5719      | 0.5719      | 0.5719   |

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=14,19

^Calculated from residual.

University of Georgia

|                                                                    |                                          |
|--------------------------------------------------------------------|------------------------------------------|
| Evaluation of flumetsulam preemergence for safey in peanut- GA-12Y |                                          |
| Trial ID: 24HD156USGA09-B                                          |                                          |
| Protocol ID: 24HD156US                                             | Location: Trial Year: 2024               |
| Project ID: 156                                                    |                                          |
| Study Director: Greg Armel, Ph.D.                                  | Sponsor Contact: Greg Armel, Ph.D.       |
| Investigator:                                                      | Conducted Under GEP: No                  |
|                                                                    | Trial Origin: P public institution trial |
| Rating Type                                                        |                                          |
| YIELD = yield                                                      |                                          |
| Rating Unit                                                        |                                          |
| %, 0, 100, = percent                                               |                                          |
| ARM Action Codes                                                   |                                          |
| T1 = ([8]+[9]+[10]+[11]+[12])/5                                    |                                          |
| T2 = ([14]+[15]+[16]+[17]+[18])/5                                  |                                          |
| T3 = ([21]+[22]+[23]+[24]+[25]+[26])/6                             |                                          |
| T4 = [28]*0.98                                                     |                                          |
| TY5 = 233.288*[29]                                                 |                                          |

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date             |                 |           |           |                |           |                  | May-6-24<br>STAND<br>#/5 FT<br>PEANUT | May-6-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | May-6-24<br>CHLOROSIS<br>%<br>PEANUT<br>0, 100, - | May-15-24<br>STAND<br>#/5 FT<br>PEANUT |
|-------------------------|-----------------|-----------|-----------|----------------|-----------|------------------|---------------------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------------|
| Rating Type             |                 |           |           |                |           |                  |                                       |                                                  |                                                   |                                        |
| Rating Unit             |                 |           |           |                |           |                  |                                       |                                                  |                                                   |                                        |
| Crop Name               |                 |           |           |                |           |                  |                                       |                                                  |                                                   |                                        |
| Rating Min/Max/Interval |                 |           |           |                |           |                  |                                       |                                                  |                                                   |                                        |
| Trt No.                 | Treatment Name  | Form Conc | Form Type | Rate Rate Unit | Appl Code | Appl Timing Plot | 1                                     | 2                                                | 3                                                 | 4                                      |
| 1                       | Untreated Check |           |           |                |           | 101              | 24.0                                  | 0.0                                              | 0.0                                               | 29.0                                   |
|                         |                 |           |           |                |           | 207              | 22.0                                  | 0.0                                              | 0.0                                               | 29.0                                   |
|                         |                 |           |           |                |           | 310              | 20.0                                  | 0.0                                              | 0.0                                               | 26.0                                   |
|                         |                 |           |           |                |           | 413              | 20.0                                  | 0.0                                              | 0.0                                               | 27.0                                   |
|                         |                 |           |           |                |           | Mean =           | 21.5                                  | 0.0                                              | 0.0                                               | 27.8                                   |
| 2                       | Python 80 WG    | 80 WG     |           | 0.83 oz wt/a A | PREEM     | 102              | 12.0                                  | 55.0                                             | 20.0                                              | 25.0                                   |
|                         |                 |           |           |                |           | 211              | 11.0                                  | 75.0                                             | 25.0                                              | 29.0                                   |
|                         |                 |           |           |                |           | 314              | 15.0                                  | 70.0                                             | 25.0                                              | 30.0                                   |
|                         |                 |           |           |                |           | 402              | 9.0                                   | 65.0                                             | 20.0                                              | 29.0                                   |
|                         |                 |           |           |                |           | Mean =           | 11.8                                  | 66.3                                             | 22.5                                              | 28.3                                   |
| 3                       | Python 80 WG    | 80 WG     |           | 1 oz wt/a A    | PREEM     | 103              | 13.0                                  | 65.0                                             | 20.0                                              | 28.0                                   |
|                         |                 |           |           |                |           | 202              | 17.0                                  | 50.0                                             | 30.0                                              | 28.0                                   |
|                         |                 |           |           |                |           | 306              | 14.0                                  | 75.0                                             | 20.0                                              | 28.0                                   |
|                         |                 |           |           |                |           | 411              | 14.0                                  | 75.0                                             | 20.0                                              | 28.0                                   |
|                         |                 |           |           |                |           | Mean =           | 14.5                                  | 66.3                                             | 22.5                                              | 28.0                                   |
| 4                       | Python 80 WG    | 80 WG     |           | 1.25 oz wt/a A | PREEM     | 104              | 10.0                                  | 65.0                                             | 25.0                                              | 32.0                                   |
|                         |                 |           |           |                |           | 213              | 4.0                                   | 85.0                                             | 20.0                                              | 29.0                                   |
|                         |                 |           |           |                |           | 302              | 13.0                                  | 65.0                                             | 15.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 401              | 14.0                                  | 10.0                                             | 15.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | Mean =           | 10.3                                  | 56.3                                             | 18.8                                              | 28.3                                   |
| 5                       | Python 80 WG    | 80 WG     |           | 1.33 oz wt/a A | PREEM     | 105              | 10.0                                  | 75.0                                             | 30.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 203              | 4.0                                   | 75.0                                             | 25.0                                              | 33.0                                   |
|                         |                 |           |           |                |           | 305              | 5.0                                   | 75.0                                             | 25.0                                              | 31.0                                   |
|                         |                 |           |           |                |           | 403              | 3.0                                   | 85.0                                             | 20.0                                              | 28.0                                   |
|                         |                 |           |           |                |           | Mean =           | 5.5                                   | 77.5                                             | 25.0                                              | 29.5                                   |
| 6                       | Python 80 WG    | 80 WG     |           | 1.66 oz wt/a A | PREEM     | 106              | 10.0                                  | 75.0                                             | 30.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 205              | 8.0                                   | 75.0                                             | 30.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 308              | 9.0                                   | 75.0                                             | 25.0                                              | 27.0                                   |
|                         |                 |           |           |                |           | 412              | 2.0                                   | 90.0                                             | 20.0                                              | 27.0                                   |
|                         |                 |           |           |                |           | Mean =           | 7.3                                   | 78.8                                             | 26.3                                              | 26.5                                   |
| 7                       | Python 80 WG    | 80 WG     |           | 2 oz wt/a A    | PREEM     | 107              | 6.0                                   | 85.0                                             | 25.0                                              | 24.0                                   |
|                         |                 |           |           |                |           | 212              | 3.0                                   | 95.0                                             | 15.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 309              | 2.0                                   | 95.0                                             | 20.0                                              | 27.0                                   |
|                         |                 |           |           |                |           | 414              | 6.0                                   | 85.0                                             | 20.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | Mean =           | 4.3                                   | 90.0                                             | 20.0                                              | 25.8                                   |
| 8                       | Python 80 WG    | 80 WG     |           | 2.5 oz wt/a A  | PREEM     | 108              | 7.0                                   | 85.0                                             | 25.0                                              | 30.0                                   |
|                         |                 |           |           |                |           | 204              | 0.0                                   | 90.0                                             | 15.0                                              | 27.0                                   |
|                         |                 |           |           |                |           | 313              | 2.0                                   | 95.0                                             | 25.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 410              | 6.0                                   | 90.0                                             | 15.0                                              | 28.0                                   |
|                         |                 |           |           |                |           | Mean =           | 3.8                                   | 90.0                                             | 20.0                                              | 27.8                                   |
| 9                       | Python 80 WG    | 80 WG     |           | 2.66 oz wt/a A | PREEM     | 109              | 3.0                                   | 95.0                                             | 25.0                                              | 20.0                                   |
|                         |                 |           |           |                |           | 206              | 2.0                                   | 90.0                                             | 25.0                                              | 26.0                                   |
|                         |                 |           |           |                |           | 307              | 6.0                                   | 95.0                                             | 20.0                                              | 20.0                                   |
|                         |                 |           |           |                |           | 404              | 3.0                                   | 90.0                                             | 15.0                                              | 27.0                                   |
|                         |                 |           |           |                |           | Mean =           | 3.5                                   | 92.5                                             | 21.3                                              | 23.3                                   |
| 10                      | Valor           | 51 WG     |           | 3 oz/a A       | PREEM     | 110              | 18.0                                  | 35.0                                             | 5.0                                               | 27.0                                   |
|                         |                 |           |           |                |           | 209              | 21.0                                  | 20.0                                             | 0.0                                               | 25.0                                   |
|                         |                 |           |           |                |           | 301              | 19.0                                  | 10.0                                             | 0.0                                               | 28.0                                   |
|                         |                 |           |           |                |           | 409              | 21.0                                  | 20.0                                             | 5.0                                               | 26.0                                   |
|                         |                 |           |           |                |           | Mean =           | 19.8                                  | 21.3                                             | 2.5                                               | 26.5                                   |

University of Georgia

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                                                 |                           |           |                                  |           |                  | May-6-24<br>STAND<br>#/5 FT<br>PEANUT | May-6-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | May-6-24<br>CHLOROSIS<br>%<br>PEANUT<br>0, 100, - | May-15-24<br>STAND<br>#/5 FT<br>PEANUT |
|-----------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|-----------|----------------------------------|-----------|------------------|---------------------------------------|--------------------------------------------------|---------------------------------------------------|----------------------------------------|
| Trt No.                                                                           | Treatment Name                                  | Form Conc                 | Form Type | Rate Rate Unit                   | Appl Code | Appl Timing Plot | 1                                     | 2                                                | 3                                                 | 4                                      |
| 11                                                                                | Valor<br>Python 80 WG                           | 51 WG<br>80 WG            |           | 3 oz/a<br>1 oz wt/a              | A         | PREEM 111        | 13.0                                  | 75.0                                             | 15.0                                              | 28.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | PREEM 214        | 15.0                                  | 65.0                                             | 30.0                                              | 30.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 303              | 9.0                                   | 75.0                                             | 20.0                                              | 27.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 406              | 16.0                                  | 65.0                                             | 15.0                                              | 28.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | Mean =           | 13.3                                  | 70.0                                             | 20.0                                              | 28.3                                   |
| 12                                                                                | Dual II Magnum 7.64 EC<br>Python 80 WG          | 7.64 EC<br>80 WG          |           | 1.33 pt/a                        | A         | PREEM 112        | 24.0                                  | 35.0                                             | 5.0                                               | 30.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 201              | 25.0                                  | 0.0                                              | 0.0                                               | 32.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 311              | 22.0                                  | 5.0                                              | 5.0                                               | 28.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 407              | 16.0                                  | 15.0                                             | 5.0                                               | 26.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | Mean =           | 21.8                                  | 13.8                                             | 3.8                                               | 29.0                                   |
| 13                                                                                | Dual II Magnum 7.64 EC<br>Python 80 WG          | 7.64 EC<br>80 WG          |           | 1.33 pt/a<br>1 oz wt/a           | A         | PREEM 113        | 11.0                                  | 75.0                                             | 30.0                                              | 27.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | PREEM 208        | 14.0                                  | 65.0                                             | 20.0                                              | 29.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 304              | 13.0                                  | 75.0                                             | 20.0                                              | 26.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 405              | 7.0                                   | 75.0                                             | 30.0                                              | 22.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | Mean =           | 11.3                                  | 72.5                                             | 25.0                                              | 26.0                                   |
| 14                                                                                | Valor<br>Dual II Magnum 7.64 EC<br>Python 80 WG | 51 WG<br>7.64 EC<br>80 WG |           | 3 oz/a<br>1.33 pt/a<br>1 oz wt/a | A         | PREEM 114        | 8.0                                   | 85.0                                             | 30.0                                              | 30.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | PREEM 210        | 5.0                                   | 85.0                                             | 20.0                                              | 27.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | PREEM 312        | 9.0                                   | 85.0                                             | 20.0                                              | 22.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | 408              | 14.0                                  | 75.0                                             | 15.0                                              | 22.0                                   |
|                                                                                   |                                                 |                           |           |                                  |           | Mean =           | 9.0                                   | 82.5                                             | 21.3                                              | 25.3                                   |

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date             |                 |       |      |              |      |        | May-15-24 | May-28-24 | Jun-11-24 | Jun-11-24 |
|-------------------------|-----------------|-------|------|--------------|------|--------|-----------|-----------|-----------|-----------|
| Rating Type             |                 |       |      |              |      |        | STUNTING  | STUNTING  | STUNTING  | HEIGHT1   |
| Rating Unit             |                 |       |      |              |      |        | %         | %         | %         | INCHES    |
| Crop Name               |                 |       |      |              |      |        | PEANUT    | PEANUT    | PEANUT    | PEANUT    |
| Rating Min/Max/Interval |                 |       |      |              |      |        | 0, 100, - | 0, 100, - | 0, 100, - |           |
| Trt                     | Treatment       | Form  | Form | Rate         | Appl | Appl   |           |           |           |           |
| No.                     | Name            | Conc  | Type | Rate         | Unit | Code   | Timing    | Plot      |           |           |
| 1                       | Untreated Check |       |      |              |      |        |           |           |           |           |
|                         |                 |       |      |              |      | 101    |           | 0.0       | 0.0       | 0.0       |
|                         |                 |       |      |              |      | 207    |           | 0.0       | 0.0       | 0.0       |
|                         |                 |       |      |              |      | 310    |           | 0.0       | 0.0       | 0.0       |
|                         |                 |       |      |              |      | 413    |           | 0.0       | 0.0       | 0.0       |
|                         |                 |       |      |              |      | Mean = |           | 0.0       | 0.0       | 0.0       |
| 2                       | Python 80 WG    | 80 WG |      | 0.83 oz wt/a | A    | PREEM  | 102       | 15.0      | 15.0      | 20.0      |
|                         |                 |       |      |              |      |        | 211       | 20.0      | 20.0      | 20.0      |
|                         |                 |       |      |              |      |        | 314       | 15.0      | 15.0      | 10.0      |
|                         |                 |       |      |              |      |        | 402       | 15.0      | 20.0      | 20.0      |
|                         |                 |       |      |              |      |        | Mean =    | 16.3      | 17.5      | 17.5      |
| 3                       | Python 80 WG    | 80 WG |      | 1 oz wt/a    | A    | PREEM  | 103       | 20.0      | 15.0      | 25.0      |
|                         |                 |       |      |              |      |        | 202       | 15.0      | 15.0      | 15.0      |
|                         |                 |       |      |              |      |        | 306       | 20.0      | 20.0      | 20.0      |
|                         |                 |       |      |              |      |        | 411       | 20.0      | 20.0      | 20.0      |
|                         |                 |       |      |              |      |        | Mean =    | 18.8      | 17.5      | 20.0      |
| 4                       | Python 80 WG    | 80 WG |      | 1.25 oz wt/a | A    | PREEM  | 104       | 15.0      | 20.0      | 30.0      |
|                         |                 |       |      |              |      |        | 213       | 20.0      | 25.0      | 20.0      |
|                         |                 |       |      |              |      |        | 302       | 20.0      | 20.0      | 15.0      |
|                         |                 |       |      |              |      |        | 401       | 10.0      | 15.0      | 15.0      |
|                         |                 |       |      |              |      |        | Mean =    | 16.3      | 20.0      | 20.0      |
| 5                       | Python 80 WG    | 80 WG |      | 1.33 oz wt/a | A    | PREEM  | 105       | 20.0      | 20.0      | 40.0      |
|                         |                 |       |      |              |      |        | 203       | 20.0      | 20.0      | 25.0      |
|                         |                 |       |      |              |      |        | 305       | 20.0      | 15.0      | 20.0      |
|                         |                 |       |      |              |      |        | 403       | 20.0      | 20.0      | 30.0      |
|                         |                 |       |      |              |      |        | Mean =    | 20.0      | 18.8      | 28.8      |
| 6                       | Python 80 WG    | 80 WG |      | 1.66 oz wt/a | A    | PREEM  | 106       | 20.0      | 15.0      | 35.0      |
|                         |                 |       |      |              |      |        | 205       | 25.0      | 20.0      | 25.0      |
|                         |                 |       |      |              |      |        | 308       | 20.0      | 20.0      | 20.0      |
|                         |                 |       |      |              |      |        | 412       | 25.0      | 25.0      | 30.0      |
|                         |                 |       |      |              |      |        | Mean =    | 22.5      | 20.0      | 27.5      |
| 7                       | Python 80 WG    | 80 WG |      | 2 oz wt/a    | A    | PREEM  | 107       | 20.0      | 20.0      | 40.0      |
|                         |                 |       |      |              |      |        | 212       | 25.0      | 30.0      | 30.0      |
|                         |                 |       |      |              |      |        | 309       | 25.0      | 30.0      | 25.0      |
|                         |                 |       |      |              |      |        | 414       | 15.0      | 20.0      | 20.0      |
|                         |                 |       |      |              |      |        | Mean =    | 21.3      | 25.0      | 28.8      |
| 8                       | Python 80 WG    | 80 WG |      | 2.5 oz wt/a  | A    | PREEM  | 108       | 20.0      | 20.0      | 35.0      |
|                         |                 |       |      |              |      |        | 204       | 25.0      | 25.0      | 30.0      |
|                         |                 |       |      |              |      |        | 313       | 25.0      | 25.0      | 30.0      |
|                         |                 |       |      |              |      |        | 410       | 25.0      | 30.0      | 40.0      |
|                         |                 |       |      |              |      |        | Mean =    | 23.8      | 25.0      | 33.8      |
| 9                       | Python 80 WG    | 80 WG |      | 2.66 oz wt/a | A    | PREEM  | 109       | 25.0      | 25.0      | 35.0      |
|                         |                 |       |      |              |      |        | 206       | 30.0      | 25.0      | 40.0      |
|                         |                 |       |      |              |      |        | 307       | 20.0      | 25.0      | 35.0      |
|                         |                 |       |      |              |      |        | 404       | 20.0      | 25.0      | 35.0      |
|                         |                 |       |      |              |      |        | Mean =    | 23.8      | 25.0      | 36.3      |
| 10                      | Valor           | 51 WG |      | 3 oz/a       | A    | PREEM  | 110       | 15.0      | 15.0      | 15.0      |
|                         |                 |       |      |              |      |        | 209       | 25.0      | 15.0      | 10.0      |
|                         |                 |       |      |              |      |        | 301       | 15.0      | 10.0      | 0.0       |
|                         |                 |       |      |              |      |        | 409       | 25.0      | 20.0      | 15.0      |
|                         |                 |       |      |              |      |        | Mean =    | 20.0      | 15.0      | 10.0      |

### Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                        |         |      |           |      |       |        | May-15-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | May-28-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | Jun-11-24<br>STUNTING<br>%<br>PEANUT<br>0, 100, - | Jun-11-24<br>HEIGHT1<br>INCHES<br>PEANUT |
|-----------------------------------------------------------------------------------|------------------------|---------|------|-----------|------|-------|--------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|------------------------------------------|
| Trt                                                                               | Treatment              | Form    | Form | Rate      | Appl | Appl  | Plot   | 5                                                 | 6                                                 | 7                                                 | 8                                        |
| No.                                                                               | Name                   | Conc    | Type | Rate      | Unit | Code  | Timing |                                                   |                                                   |                                                   |                                          |
| 11                                                                                | Valor                  | 51 WG   |      | 3 oz/a    | A    | PREEM | 111    | 35.0                                              | 30.0                                              | 35.0                                              | 3.0                                      |
|                                                                                   | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A    | PREEM | 214    | 15.0                                              | 20.0                                              | 15.0                                              | 5.0                                      |
|                                                                                   |                        |         |      |           |      |       | 303    | 30.0                                              | 25.0                                              | 20.0                                              | 4.0                                      |
|                                                                                   |                        |         |      |           |      |       | 406    | 35.0                                              | 20.0                                              | 25.0                                              | 5.0                                      |
|                                                                                   |                        |         |      |           |      |       | Mean = | 28.8                                              | 23.8                                              | 23.8                                              | 4.3                                      |
| 12                                                                                | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A    | PREEM | 112    | 5.0                                               | 10.0                                              | 10.0                                              | 5.0                                      |
|                                                                                   |                        |         |      |           |      |       | 201    | 5.0                                               | 0.0                                               | 0.0                                               | 5.0                                      |
|                                                                                   |                        |         |      |           |      |       | 311    | 5.0                                               | 10.0                                              | 5.0                                               | 5.0                                      |
|                                                                                   |                        |         |      |           |      |       | 407    | 15.0                                              | 15.0                                              | 10.0                                              | 4.0                                      |
|                                                                                   |                        |         |      |           |      |       | Mean = | 7.5                                               | 8.8                                               | 6.3                                               | 4.8                                      |
| 13                                                                                | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A    | PREEM | 113    | 15.0                                              | 25.0                                              | 20.0                                              | 5.0                                      |
|                                                                                   | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A    | PREEM | 208    | 15.0                                              | 20.0                                              | 20.0                                              | 3.0                                      |
|                                                                                   |                        |         |      |           |      |       | 304    | 20.0                                              | 15.0                                              | 20.0                                              | 4.0                                      |
|                                                                                   |                        |         |      |           |      |       | 405    | 15.0                                              | 25.0                                              | 25.0                                              | 4.0                                      |
|                                                                                   |                        |         |      |           |      |       | Mean = | 16.3                                              | 21.3                                              | 21.3                                              | 4.0                                      |
| 14                                                                                | Valor                  | 51 WG   |      | 3 oz/a    | A    | PREEM | 114    | 25.0                                              | 20.0                                              | 20.0                                              | 5.0                                      |
|                                                                                   | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A    | PREEM | 210    | 35.0                                              | 25.0                                              | 35.0                                              | 4.0                                      |
|                                                                                   | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A    | PREEM | 312    | 35.0                                              | 20.0                                              | 20.0                                              | 3.0                                      |
|                                                                                   |                        |         |      |           |      |       | 408    | 35.0                                              | 25.0                                              | 30.0                                              | 4.0                                      |
|                                                                                   |                        |         |      |           |      |       | Mean = | 32.5                                              | 22.5                                              | 26.3                                              | 4.0                                      |

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date             |                 |       |      |              |      |       | Jun-11-24 | Jun-11-24 | Jun-11-24 | Jun-11-24 |
|-------------------------|-----------------|-------|------|--------------|------|-------|-----------|-----------|-----------|-----------|
| Rating Type             |                 |       |      |              |      |       | HEIGHT2   | HEIGHT3   | HEIGHT4   | HEIGHT5   |
| Rating Unit             |                 |       |      |              |      |       | INCHES    | INCHES    | INCHES    | INCHES    |
| Crop Name               |                 |       |      |              |      |       | PEANUT    | PEANUT    | PEANUT    | PEANUT    |
| Rating Min/Max/Interval |                 |       |      |              |      |       |           |           |           |           |
| Trt                     | Treatment       | Form  | Form | Rate         | Appl | Appl  |           |           |           |           |
| No.                     | Name            | Conc  | Type | Rate         | Unit | Code  | Timing    | Plot      |           |           |
| 1                       | Untreated Check |       |      |              |      |       |           |           |           |           |
|                         |                 |       |      |              |      |       |           | 101       | 4.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 207       | 5.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 310       | 4.0       | 5.0       |
|                         |                 |       |      |              |      |       |           | 413       | 5.0       | 5.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 4.5       | 4.5       |
| 2                       | Python 80 WG    | 80 WG |      | 0.83 oz wt/a | A    | PREEM |           | 102       | 4.0       | 5.0       |
|                         |                 |       |      |              |      |       |           | 211       | 3.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 314       | 5.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 402       | 3.0       | 5.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 3.8       | 4.5       |
| 3                       | Python 80 WG    | 80 WG |      | 1 oz wt/a    | A    | PREEM |           | 103       | 4.0       | 5.0       |
|                         |                 |       |      |              |      |       |           | 202       | 5.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 306       | 4.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 411       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 4.0       | 4.3       |
| 4                       | Python 80 WG    | 80 WG |      | 1.25 oz wt/a | A    | PREEM |           | 104       | 4.0       | 5.0       |
|                         |                 |       |      |              |      |       |           | 213       | 3.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 302       | 3.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 401       | 4.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 3.5       | 4.0       |
| 5                       | Python 80 WG    | 80 WG |      | 1.33 oz wt/a | A    | PREEM |           | 105       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 203       | 4.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 305       | 5.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 403       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 3.8       | 3.8       |
| 6                       | Python 80 WG    | 80 WG |      | 1.66 oz wt/a | A    | PREEM |           | 106       | 3.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 205       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 308       | 2.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 412       | 2.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 2.5       | 3.0       |
| 7                       | Python 80 WG    | 80 WG |      | 2 oz wt/a    | A    | PREEM |           | 107       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 212       | 3.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 309       | 4.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 414       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 3.3       | 3.3       |
| 8                       | Python 80 WG    | 80 WG |      | 2.5 oz wt/a  | A    | PREEM |           | 108       | 4.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 204       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 313       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 410       | 3.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 3.3       | 3.5       |
| 9                       | Python 80 WG    | 80 WG |      | 2.66 oz wt/a | A    | PREEM |           | 109       | 4.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 206       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 307       | 4.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | 404       | 3.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 3.5       | 2.5       |
| 10                      | Valor           | 51 WG |      | 3 oz/a       | A    | PREEM |           | 110       | 5.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 209       | 5.0       | 4.0       |
|                         |                 |       |      |              |      |       |           | 301       | 4.0       | 6.0       |
|                         |                 |       |      |              |      |       |           | 409       | 4.0       | 3.0       |
|                         |                 |       |      |              |      |       |           | Mean =    | 4.5       | 4.3       |

University of Georgia

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

|                         |                        |         |           |           |       |             |           |           |           |           |
|-------------------------|------------------------|---------|-----------|-----------|-------|-------------|-----------|-----------|-----------|-----------|
| Rating Date             |                        |         |           |           |       |             | Jun-11-24 | Jun-11-24 | Jun-11-24 | Jun-11-24 |
| Rating Type             |                        |         |           |           |       |             | HEIGHT2   | HEIGHT3   | HEIGHT4   | HEIGHT5   |
| Rating Unit             |                        |         |           |           |       |             | INCHES    | INCHES    | INCHES    | INCHES    |
| Crop Name               |                        |         |           |           |       |             | PEANUT    | PEANUT    | PEANUT    | PEANUT    |
| Rating Min/Max/Interval |                        |         |           |           |       |             |           |           |           |           |
| Trt                     | Treatment              | Form    | Form      | Rate      | Appl  | Appl        |           |           |           |           |
| No.                     | Name                   | Conc    | Type      | Rate Unit | Code  | Timing Plot | 9         | 10        | 11        | 12        |
| 11                      | Valor                  | 51 WG   |           | 3 oz/a    | A     | PREEM 111   | 3.0       | 4.0       | 3.0       | 3.0       |
|                         | Python 80 WG           | 80 WG   |           | 1 oz wt/a | A     | PREEM 214   | 4.0       | 5.0       | 5.0       | 5.0       |
|                         |                        |         |           |           |       | 303         | 4.0       | 5.0       | 3.0       | 3.0       |
|                         |                        |         |           |           |       | 406         | 5.0       | 4.0       | 4.0       | 5.0       |
|                         |                        |         |           |           |       | Mean =      | 4.0       | 4.5       | 3.8       | 4.0       |
| 12                      | Dual II Magnum 7.64 EC | 7.64 EC | 1.33 pt/a | A         | PREEM | 112         | 5.0       | 4.0       | 5.0       | 4.0       |
|                         |                        |         |           |           |       | 201         | 5.0       | 6.0       | 5.0       | 5.0       |
|                         |                        |         |           |           |       | 311         | 4.0       | 3.0       | 5.0       | 4.0       |
|                         |                        |         |           |           |       | 407         | 5.0       | 5.0       | 5.0       | 6.0       |
|                         |                        |         |           |           |       | Mean =      | 4.8       | 4.5       | 5.0       | 4.8       |
| 13                      | Dual II Magnum 7.64 EC | 7.64 EC | 1.33 pt/a | A         | PREEM | 113         | 6.0       | 5.0       | 5.0       | 4.0       |
|                         |                        |         |           |           |       | 208         | 4.0       | 5.0       | 4.0       | 5.0       |
|                         |                        |         |           |           |       | 304         | 4.0       | 3.0       | 5.0       | 5.0       |
|                         |                        |         |           |           |       | 405         | 3.0       | 4.0       | 5.0       | 5.0       |
|                         |                        |         |           |           |       | Mean =      | 4.3       | 4.3       | 4.8       | 4.8       |
| 14                      | Valor                  | 51 WG   |           | 3 oz/a    | A     | PREEM 114   | 4.0       | 4.0       | 5.0       | 5.0       |
|                         | Dual II Magnum 7.64 EC | 7.64 EC | 1.33 pt/a | A         | PREEM | 210         | 3.0       | 4.0       | 4.0       | 3.0       |
|                         |                        |         |           |           |       | 312         | 3.0       | 4.0       | 3.0       | 3.0       |
|                         |                        |         |           |           |       | 408         | 4.0       | 4.0       | 3.0       | 4.0       |
|                         |                        |         |           |           |       | Mean =      | 3.5       | 4.0       | 3.8       | 3.8       |

University of Georgia

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location:

Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

| Rating Date             |                 |       |      |              |      |       | Jun-11-24  | Jun-11-24 | Jun-11-24 | Jun-11-24 |
|-------------------------|-----------------|-------|------|--------------|------|-------|------------|-----------|-----------|-----------|
| Rating Type             |                 |       |      |              |      |       | HEIGHT-AVG | WIDTH1    | WIDTH2    | WIDTH3    |
| Rating Unit             |                 |       |      |              |      |       | INCHES     | INCHES    | INCHES    | INCHES    |
| Crop Name               |                 |       |      |              |      |       | PEANUT     | PEANUT    | PEANUT    | PEANUT    |
| Rating Min/Max/Interval |                 |       |      |              |      |       |            |           |           |           |
| Trt                     | Treatment       | Form  | Form | Rate         | Appl | Appl  |            |           |           |           |
| No.                     | Name            | Conc  | Type | Rate         | Unit | Code  | Timing     | Plot      |           |           |
| 1                       | Untreated Check |       |      |              |      |       |            |           |           |           |
|                         |                 |       |      |              |      |       |            | 101       | 4.4       | 24.0      |
|                         |                 |       |      |              |      |       |            | 207       | 4.0       | 10.0      |
|                         |                 |       |      |              |      |       |            | 310       | 4.8       | 10.0      |
|                         |                 |       |      |              |      |       |            | 413       | 5.6       | 19.0      |
|                         |                 |       |      |              |      |       |            | Mean =    | 4.7       | 15.8      |
| 2                       | Python 80 WG    | 80 WG |      | 0.83 oz wt/a | A    | PREEM |            | 102       | 4.6       | 10.0      |
|                         |                 |       |      |              |      |       |            | 211       | 3.2       | 7.0       |
|                         |                 |       |      |              |      |       |            | 314       | 4.8       | 11.0      |
|                         |                 |       |      |              |      |       |            | 402       | 4.0       | 10.0      |
|                         |                 |       |      |              |      |       |            | Mean =    | 4.2       | 9.5       |
| 3                       | Python 80 WG    | 80 WG |      | 1 oz wt/a    | A    | PREEM |            | 103       | 4.2       | 8.0       |
|                         |                 |       |      |              |      |       |            | 202       | 4.8       | 10.0      |
|                         |                 |       |      |              |      |       |            | 306       | 3.6       | 6.0       |
|                         |                 |       |      |              |      |       |            | 411       | 4.0       | 7.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 4.2       | 7.8       |
| 4                       | Python 80 WG    | 80 WG |      | 1.25 oz wt/a | A    | PREEM |            | 104       | 4.6       | 7.0       |
|                         |                 |       |      |              |      |       |            | 213       | 3.4       | 7.0       |
|                         |                 |       |      |              |      |       |            | 302       | 3.6       | 9.0       |
|                         |                 |       |      |              |      |       |            | 401       | 3.8       | 6.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 3.9       | 7.3       |
| 5                       | Python 80 WG    | 80 WG |      | 1.33 oz wt/a | A    | PREEM |            | 105       | 3.8       | 7.0       |
|                         |                 |       |      |              |      |       |            | 203       | 4.2       | 7.0       |
|                         |                 |       |      |              |      |       |            | 305       | 3.8       | 7.0       |
|                         |                 |       |      |              |      |       |            | 403       | 3.4       | 7.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 3.8       | 7.0       |
| 6                       | Python 80 WG    | 80 WG |      | 1.66 oz wt/a | A    | PREEM |            | 106       | 3.2       | 7.0       |
|                         |                 |       |      |              |      |       |            | 205       | 3.8       | 5.0       |
|                         |                 |       |      |              |      |       |            | 308       | 3.0       | 5.0       |
|                         |                 |       |      |              |      |       |            | 412       | 2.6       | 7.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 3.2       | 6.0       |
| 7                       | Python 80 WG    | 80 WG |      | 2 oz wt/a    | A    | PREEM |            | 107       | 3.2       | 7.0       |
|                         |                 |       |      |              |      |       |            | 212       | 3.0       | 6.0       |
|                         |                 |       |      |              |      |       |            | 309       | 3.6       | 7.0       |
|                         |                 |       |      |              |      |       |            | 414       | 3.2       | 8.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 3.3       | 7.0       |
| 8                       | Python 80 WG    | 80 WG |      | 2.5 oz wt/a  | A    | PREEM |            | 108       | 3.4       | 4.0       |
|                         |                 |       |      |              |      |       |            | 204       | 3.4       | 6.0       |
|                         |                 |       |      |              |      |       |            | 313       | 3.2       | 7.0       |
|                         |                 |       |      |              |      |       |            | 410       | 2.8       | 4.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 3.2       | 5.3       |
| 9                       | Python 80 WG    | 80 WG |      | 2.66 oz wt/a | A    | PREEM |            | 109       | 3.4       | 7.0       |
|                         |                 |       |      |              |      |       |            | 206       | 3.0       | 5.0       |
|                         |                 |       |      |              |      |       |            | 307       | 3.0       | 5.0       |
|                         |                 |       |      |              |      |       |            | 404       | 3.4       | 5.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 3.2       | 5.5       |
| 10                      | Valor           | 51 WG |      | 3 oz/a       | A    | PREEM |            | 110       | 4.6       | 10.0      |
|                         |                 |       |      |              |      |       |            | 209       | 4.6       | 10.0      |
|                         |                 |       |      |              |      |       |            | 301       | 5.0       | 11.0      |
|                         |                 |       |      |              |      |       |            | 409       | 4.0       | 7.0       |
|                         |                 |       |      |              |      |       |            | Mean =    | 4.6       | 9.5       |

University of Georgia

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

|                           |           |           |             |           |  |  |  |            |           |           |           |
|---------------------------|-----------|-----------|-------------|-----------|--|--|--|------------|-----------|-----------|-----------|
| Rating Date               |           |           |             |           |  |  |  | Jun-11-24  | Jun-11-24 | Jun-11-24 | Jun-11-24 |
| Rating Type               |           |           |             |           |  |  |  | HEIGHT-AVG | WIDTH1    | WIDTH2    | WIDTH3    |
| Rating Unit               |           |           |             |           |  |  |  | INCHES     | INCHES    | INCHES    | INCHES    |
| Crop Name                 |           |           |             |           |  |  |  | PEANUT     | PEANUT    | PEANUT    | PEANUT    |
| Rating Min/Max/Interval   |           |           |             |           |  |  |  |            |           |           |           |
| Trt Treatment             | Form Form | Rate      | Appl Appl   |           |  |  |  |            |           |           |           |
| No. Name                  | Conc Type | Rate Unit | Code Timing | Plot      |  |  |  | 13         | 14        | 15        | 16        |
| 11 Valor                  | 51 WG     | 3 oz/a    | A           | PREEM 111 |  |  |  | 3.2        | 5.0       | 9.0       | 9.0       |
| Python 80 WG              | 80 WG     | 1 oz wt/a | A           | PREEM 214 |  |  |  | 4.8        | 9.0       | 9.0       | 10.0      |
|                           |           |           |             | 303       |  |  |  | 3.8        | 9.0       | 8.0       | 8.0       |
|                           |           |           |             | 406       |  |  |  | 4.6        | 7.0       | 6.0       | 5.0       |
|                           |           |           |             | Mean =    |  |  |  | 4.1        | 7.5       | 8.0       | 8.0       |
| 12 Dual II Magnum 7.64 EC | 7.64 EC   | 1.33 pt/a | A           | PREEM 112 |  |  |  | 4.6        | 11.0      | 18.0      | 19.0      |
|                           |           |           |             | 201       |  |  |  | 5.2        | 18.0      | 22.0      | 19.0      |
|                           |           |           |             | 311       |  |  |  | 4.2        | 11.0      | 10.0      | 9.0       |
|                           |           |           |             | 407       |  |  |  | 5.0        | 8.0       | 10.0      | 11.0      |
|                           |           |           |             | Mean =    |  |  |  | 4.8        | 12.0      | 15.0      | 14.5      |
| 13 Dual II Magnum 7.64 EC | 7.64 EC   | 1.33 pt/a | A           | PREEM 113 |  |  |  | 5.0        | 8.0       | 6.0       | 8.0       |
| Python 80 WG              | 80 WG     | 1 oz wt/a | A           | PREEM 208 |  |  |  | 4.2        | 7.0       | 7.0       | 7.0       |
|                           |           |           |             | 304       |  |  |  | 4.2        | 9.0       | 11.0      | 9.0       |
|                           |           |           |             | 405       |  |  |  | 4.2        | 6.0       | 7.0       | 10.0      |
|                           |           |           |             | Mean =    |  |  |  | 4.4        | 7.5       | 7.8       | 8.5       |
| 14 Valor                  | 51 WG     | 3 oz/a    | A           | PREEM 114 |  |  |  | 4.6        | 9.0       | 7.0       | 11.0      |
| Dual II Magnum 7.64 EC    | 7.64 EC   | 1.33 pt/a | A           | PREEM 210 |  |  |  | 3.6        | 5.0       | 5.0       | 7.0       |
| Python 80 WG              | 80 WG     | 1 oz wt/a | A           | PREEM 312 |  |  |  | 3.2        | 6.0       | 6.0       | 6.0       |
|                           |           |           |             | 408       |  |  |  | 3.8        | 6.0       | 6.0       | 7.0       |
|                           |           |           |             | Mean =    |  |  |  | 3.8        | 6.5       | 6.0       | 7.8       |

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                 |       |      |              |      |       |        | Jun-11-24<br>WIDTH4<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH5<br>INCHES<br>PEANUT | Jun-11-24<br>WIDTH-AVG<br>INCHES<br>PEANUT | Jul-3-24<br>Stunting<br>%<br>Peanut<br>0, 100, - | Jul-30-24<br>HEIGHT1<br>INCHES<br>PEANUT |
|-----------------------------------------------------------------------------------|-----------------|-------|------|--------------|------|-------|--------|-----------------------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------------------|------------------------------------------|
| Trt                                                                               | Treatment       | Form  | Form | Rate         | Appl | Appl  | Plot   | 17                                      | 18                                      | 19                                         | 20                                               | 21                                       |
| No.                                                                               | Name            | Conc  | Type | Rate         | Unit | Code  | Timing |                                         |                                         |                                            |                                                  |                                          |
| 1                                                                                 | Untreated Check |       |      |              |      |       | 101    | 21.0                                    | 21.0                                    | 21.8                                       | 0.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 207    | 15.0                                    | 11.0                                    | 14.6                                       | 0.0                                              | 18.0                                     |
|                                                                                   |                 |       |      |              |      |       | 310    | 21.0                                    | 10.0                                    | 12.4                                       | 0.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 413    | 19.0                                    | 18.0                                    | 17.2                                       | 0.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 19.0                                    | 15.0                                    | 16.5                                       | 0.0                                              | 17.3                                     |
| 2                                                                                 | Python 80 WG    | 80 WG |      | 0.83 oz wt/a | A    | PREEM | 102    | 11.0                                    | 10.0                                    | 10.6                                       | 5.0                                              | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 211    | 9.0                                     | 8.0                                     | 7.8                                        | 10.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 314    | 16.0                                    | 9.0                                     | 11.8                                       | 5.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 402    | 9.0                                     | 12.0                                    | 9.6                                        | 10.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 11.3                                    | 9.8                                     | 10.0                                       | 7.5                                              | 16.5                                     |
| 3                                                                                 | Python 80 WG    | 80 WG |      | 1 oz wt/a    | A    | PREEM | 103    | 9.0                                     | 8.0                                     | 8.2                                        | 5.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 202    | 8.0                                     | 9.0                                     | 9.6                                        | 10.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 306    | 8.0                                     | 6.0                                     | 6.8                                        | 10.0                                             | 16.0                                     |
|                                                                                   |                 |       |      |              |      |       | 411    | 8.0                                     | 7.0                                     | 8.0                                        | 15.0                                             | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 8.3                                     | 7.5                                     | 8.2                                        | 10.0                                             | 16.3                                     |
| 4                                                                                 | Python 80 WG    | 80 WG |      | 1.25 oz wt/a | A    | PREEM | 104    | 10.0                                    | 9.0                                     | 8.4                                        | 5.0                                              | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 213    | 11.0                                    | 5.0                                     | 7.0                                        | 5.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 302    | 8.0                                     | 10.0                                    | 8.8                                        | 10.0                                             | 18.0                                     |
|                                                                                   |                 |       |      |              |      |       | 401    | 8.0                                     | 11.0                                    | 8.6                                        | 10.0                                             | 19.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 9.3                                     | 8.8                                     | 8.2                                        | 7.5                                              | 17.3                                     |
| 5                                                                                 | Python 80 WG    | 80 WG |      | 1.33 oz wt/a | A    | PREEM | 105    | 7.0                                     | 6.0                                     | 6.6                                        | 10.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 203    | 9.0                                     | 8.0                                     | 7.8                                        | 10.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 305    | 8.0                                     | 8.0                                     | 7.8                                        | 15.0                                             | 16.0                                     |
|                                                                                   |                 |       |      |              |      |       | 403    | 6.0                                     | 8.0                                     | 7.0                                        | 15.0                                             | 16.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 7.5                                     | 7.5                                     | 7.3                                        | 12.5                                             | 16.5                                     |
| 6                                                                                 | Python 80 WG    | 80 WG |      | 1.66 oz wt/a | A    | PREEM | 106    | 10.0                                    | 9.0                                     | 7.8                                        | 10.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 205    | 7.0                                     | 7.0                                     | 6.6                                        | 15.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 308    | 8.0                                     | 5.0                                     | 5.8                                        | 10.0                                             | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 412    | 7.0                                     | 6.0                                     | 7.0                                        | 15.0                                             | 16.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 8.0                                     | 6.8                                     | 6.8                                        | 12.5                                             | 16.3                                     |
| 7                                                                                 | Python 80 WG    | 80 WG |      | 2 oz wt/a    | A    | PREEM | 107    | 4.0                                     | 6.0                                     | 5.6                                        | 15.0                                             | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 212    | 8.0                                     | 7.0                                     | 6.8                                        | 15.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 309    | 7.0                                     | 6.0                                     | .                                          | 15.0                                             | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 414    | 9.0                                     | 6.0                                     | 8.4                                        | 10.0                                             | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 7.0                                     | 6.3                                     | 6.9                                        | 13.8                                             | 15.5                                     |
| 8                                                                                 | Python 80 WG    | 80 WG |      | 2.5 oz wt/a  | A    | PREEM | 108    | 6.0                                     | 7.0                                     | 6.6                                        | 15.0                                             | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 204    | 7.0                                     | 7.0                                     | 5.8                                        | 15.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 313    | 7.0                                     | 8.0                                     | 6.8                                        | 15.0                                             | 14.0                                     |
|                                                                                   |                 |       |      |              |      |       | 410    | 8.0                                     | 6.0                                     | 5.4                                        | 25.0                                             | 12.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 7.0                                     | 7.0                                     | 6.2                                        | 17.5                                             | 14.5                                     |
| 9                                                                                 | Python 80 WG    | 80 WG |      | 2.66 oz wt/a | A    | PREEM | 109    | 6.0                                     | 6.0                                     | 6.0                                        | 15.0                                             | 14.0                                     |
|                                                                                   |                 |       |      |              |      |       | 206    | 7.0                                     | 5.0                                     | 5.6                                        | 25.0                                             | 14.0                                     |
|                                                                                   |                 |       |      |              |      |       | 307    | 3.0                                     | 5.0                                     | 4.6                                        | 25.0                                             | 13.0                                     |
|                                                                                   |                 |       |      |              |      |       | 404    | 5.0                                     | 6.0                                     | 5.8                                        | 25.0                                             | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 5.3                                     | 5.5                                     | 5.5                                        | 22.5                                             | 14.5                                     |
| 10                                                                                | Valor           | 51 WG |      | 3 oz/a       | A    | PREEM | 110    | 12.0                                    | 11.0                                    | 10.2                                       | 5.0                                              | 17.0                                     |
|                                                                                   |                 |       |      |              |      |       | 209    | 10.0                                    | 11.0                                    | 9.6                                        | 5.0                                              | 18.0                                     |
|                                                                                   |                 |       |      |              |      |       | 301    | 11.0                                    | 19.0                                    | 15.6                                       | 5.0                                              | 15.0                                     |
|                                                                                   |                 |       |      |              |      |       | 409    | 9.0                                     | 7.0                                     | 7.8                                        | 10.0                                             | 18.0                                     |
|                                                                                   |                 |       |      |              |      |       | Mean = | 10.5                                    | 12.0                                    | 10.8                                       | 6.3                                              | 17.0                                     |

University of Georgia

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

|                         |                        |         |      |           |           |           |           |           |           |
|-------------------------|------------------------|---------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| Rating Date             |                        |         |      |           | Jun-11-24 | Jun-11-24 | Jun-11-24 | Jul-3-24  | Jul-30-24 |
| Rating Type             |                        |         |      |           | WIDTH4    | WIDTH5    | WIDTH-AVG | Stunting  | HEIGHT1   |
| Rating Unit             |                        |         |      |           | INCHES    | INCHES    | INCHES    | %         | INCHES    |
| Crop Name               |                        |         |      |           | PEANUT    | PEANUT    | PEANUT    | Peanut    | PEANUT    |
| Rating Min/Max/Interval |                        |         |      |           |           |           |           | 0, 100, - |           |
| Trt                     | Treatment              | Form    | Form | Rate      | Appl      | Appl      |           |           |           |
| No.                     | Name                   | Conc    | Type | Rate Unit | Code      | Timing    | Plot      |           |           |
| 11                      | Valor                  | 51 WG   |      | 3 oz/a    | A         | PREEM 111 | 17        | 18        | 19        |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A         | PREEM 214 | 8.0       | 7.0       | 7.6       |
|                         |                        |         |      |           |           | 303       | 9.0       | 9.0       | 9.2       |
|                         |                        |         |      |           |           | 406       | 9.0       | 9.0       | 8.6       |
|                         |                        |         |      |           |           | Mean =    | 7.0       | 6.0       | 6.2       |
|                         |                        |         |      |           |           |           | 8.3       | 7.8       | 7.9       |
| 12                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A         | PREEM 112 | 19.0      | 17.0      | 16.8      |
|                         |                        |         |      |           |           | 201       | 23.0      | 22.0      | 20.8      |
|                         |                        |         |      |           |           | 311       | 13.0      | 10.0      | 10.6      |
|                         |                        |         |      |           |           | 407       | 9.0       | 12.0      | 10.0      |
|                         |                        |         |      |           |           | Mean =    | 16.0      | 15.3      | 14.6      |
| 13                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A         | PREEM 113 | 7.0       | 8.0       | 7.4       |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A         | PREEM 208 | 6.0       | 5.0       | 6.4       |
|                         |                        |         |      |           |           | 304       | 8.0       | 6.0       | 8.6       |
|                         |                        |         |      |           |           | 405       | 9.0       | 6.0       | 7.6       |
|                         |                        |         |      |           |           | Mean =    | 7.5       | 6.3       | 7.5       |
| 14                      | Valor                  | 51 WG   |      | 3 oz/a    | A         | PREEM 114 | 8.0       | 8.0       | 8.6       |
|                         | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A         | PREEM 210 | 5.0       | 5.0       | 5.4       |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A         | PREEM 312 | 7.0       | 8.0       | 6.6       |
|                         |                        |         |      |           |           | 408       | 8.0       | 7.0       | 6.8       |
|                         |                        |         |      |           |           | Mean =    | 7.0       | 7.0       | 6.9       |

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## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date             |                 |       |      |         |      |      |        | Jul-30-24 | Jul-30-24 | Jul-30-24 | Jul-30-24 | Jul-30-24 |      |
|-------------------------|-----------------|-------|------|---------|------|------|--------|-----------|-----------|-----------|-----------|-----------|------|
| Rating Type             |                 |       |      |         |      |      |        | HEIGHT2   | HEIGHT3   | HEIGHT4   | HEIGHT5   | HEIGHT6   |      |
| Rating Unit             |                 |       |      |         |      |      |        | INCHES    | INCHES    | INCHES    | INCHES    | INCHES    |      |
| Crop Name               |                 |       |      |         |      |      |        | PEANUT    | PEANUT    | PEANUT    | PEANUT    | PEANUT    |      |
| Rating Min/Max/Interval |                 |       |      |         |      |      |        |           |           |           |           |           |      |
| Trt                     | Treatment       | Form  | Form | Rate    | Appl | Appl |        |           |           |           |           |           |      |
| No.                     | Name            | Conc  | Type | Rate    | Unit | Code | Timing | Plot      | 22        | 23        | 24        | 25        | 26   |
| 1                       | Untreated Check |       |      |         |      |      |        | 101       | 15.0      | 18.0      | 17.0      | 16.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 207       | 20.0      | 19.0      | 19.0      | 18.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 310       | 18.0      | 17.0      | 18.0      | 17.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 413       | 17.0      | 19.0      | 19.0      | 18.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 17.5      | 18.3      | 18.3      | 17.3      | 16.8 |
| 2                       | Python 80 WG    | 80 WG |      | 0.83 oz | wt/a | A    | PREEM  | 102       | 17.0      | 18.0      | 17.0      | 18.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 211       | 16.0      | 17.0      | 17.0      | 16.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 314       | 18.0      | 19.0      | 17.0      | 19.0      | 19.0 |
|                         |                 |       |      |         |      |      |        | 402       | 18.0      | 18.0      | 19.0      | 17.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 17.3      | 18.0      | 17.5      | 17.5      | 17.8 |
| 3                       | Python 80 WG    | 80 WG |      | 1 oz    | wt/a | A    | PREEM  | 103       | 17.0      | 18.0      | 17.0      | 17.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 202       | 20.0      | 18.0      | 17.0      | 18.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | 306       | 18.0      | 16.0      | 16.0      | 18.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | 411       | 16.0      | 17.0      | 16.0      | 15.0      | 15.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 17.8      | 17.3      | 16.5      | 17.0      | 16.8 |
| 4                       | Python 80 WG    | 80 WG |      | 1.25 oz | wt/a | A    | PREEM  | 104       | 17.0      | 17.0      | 16.0      | 17.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 213       | 18.0      | 17.0      | 16.0      | 16.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 302       | 14.0      | 17.0      | 19.0      | 17.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 401       | 19.0      | 17.0      | 17.0      | 18.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 17.0      | 17.0      | 17.0      | 17.0      | 17.0 |
| 5                       | Python 80 WG    | 80 WG |      | 1.33 oz | wt/a | A    | PREEM  | 105       | 17.0      | 17.0      | 17.0      | 17.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 203       | 18.0      | 17.0      | 16.0      | 18.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 305       | 15.0      | 15.0      | 16.0      | 17.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 403       | 17.0      | 18.0      | 16.0      | 17.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 16.8      | 16.8      | 16.3      | 17.3      | 16.5 |
| 6                       | Python 80 WG    | 80 WG |      | 1.66 oz | wt/a | A    | PREEM  | 106       | 16.0      | 15.0      | 15.0      | 16.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 205       | 18.0      | 17.0      | 16.0      | 16.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | 308       | 16.0      | 16.0      | 15.0      | 16.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | 412       | 16.0      | 18.0      | 17.0      | 19.0      | 14.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 16.5      | 16.5      | 15.8      | 16.8      | 16.0 |
| 7                       | Python 80 WG    | 80 WG |      | 2 oz    | wt/a | A    | PREEM  | 107       | 16.0      | 14.0      | 13.0      | 13.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 212       | 16.0      | 17.0      | 15.0      | 15.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 309       | 15.0      | 17.0      | 16.0      | 15.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | 414       | 16.0      | 19.0      | 18.0      | 18.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 15.8      | 16.8      | 15.5      | 15.3      | 17.0 |
| 8                       | Python 80 WG    | 80 WG |      | 2.5 oz  | wt/a | A    | PREEM  | 108       | 14.0      | 15.0      | 15.0      | 15.0      | 14.0 |
|                         |                 |       |      |         |      |      |        | 204       | 18.0      | 16.0      | 14.0      | 14.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 313       | 16.0      | 15.0      | 15.0      | 17.0      | 19.0 |
|                         |                 |       |      |         |      |      |        | 410       | 15.0      | 15.0      | 14.0      | 14.0      | 12.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 15.8      | 15.3      | 14.5      | 15.0      | 15.5 |
| 9                       | Python 80 WG    | 80 WG |      | 2.66 oz | wt/a | A    | PREEM  | 109       | 15.0      | 15.0      | 15.0      | 13.0      | 14.0 |
|                         |                 |       |      |         |      |      |        | 206       | 17.0      | 16.0      | 14.0      | 15.0      | 14.0 |
|                         |                 |       |      |         |      |      |        | 307       | 14.0      | 13.0      | 12.0      | 13.0      | 13.0 |
|                         |                 |       |      |         |      |      |        | 404       | 16.0      | 15.0      | 17.0      | 15.0      | 16.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 15.5      | 14.8      | 14.5      | 14.0      | 14.3 |
| 10                      | Valor           | 51 WG |      | 3 oz/a  |      | A    | PREEM  | 110       | 17.0      | 15.0      | 18.0      | 17.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 209       | 18.0      | 18.0      | 18.0      | 19.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | 301       | 15.0      | 17.0      | 18.0      | 17.0      | 17.0 |
|                         |                 |       |      |         |      |      |        | 409       | 16.0      | 18.0      | 18.0      | 18.0      | 18.0 |
|                         |                 |       |      |         |      |      |        | Mean =    | 16.5      | 17.0      | 18.0      | 17.8      | 17.5 |

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|                                                                     |  |                                          |  |                         |
|---------------------------------------------------------------------|--|------------------------------------------|--|-------------------------|
| Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y |  |                                          |  |                         |
| Trial ID: 24HD156USGA09-B                                           |  |                                          |  |                         |
| Protocol ID: 24HD156US                                              |  | Location: Trial Year: 2024               |  |                         |
| Project ID: 156                                                     |  |                                          |  |                         |
| Study Director: Greg Armel, Ph.D.                                   |  | Sponsor Contact: Greg Armel, Ph.D.       |  | Conducted Under GEP: No |
| Investigator:                                                       |  | Trial Origin: P public institution trial |  |                         |

|                         |                        |         |      |           |           |           |           |           |           |
|-------------------------|------------------------|---------|------|-----------|-----------|-----------|-----------|-----------|-----------|
| Rating Date             |                        |         |      |           | Jul-30-24 | Jul-30-24 | Jul-30-24 | Jul-30-24 | Jul-30-24 |
| Rating Type             |                        |         |      |           | HEIGHT2   | HEIGHT3   | HEIGHT4   | HEIGHT5   | HEIGHT6   |
| Rating Unit             |                        |         |      |           | INCHES    | INCHES    | INCHES    | INCHES    | INCHES    |
| Crop Name               |                        |         |      |           | PEANUT    | PEANUT    | PEANUT    | PEANUT    | PEANUT    |
| Rating Min/Max/Interval |                        |         |      |           |           |           |           |           |           |
| Trt                     | Treatment              | Form    | Form | Rate      | Appl      | Appl      |           |           |           |
| No.                     | Name                   | Conc    | Type | Rate Unit | Code      | Timing    | Plot      | 22        | 23        |
| 11                      | Valor                  | 51 WG   |      | 3 oz/a    | A         | PREEM     | 111       | 14.0      | 15.0      |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A         | PREEM     | 214       | 19.0      | 17.0      |
|                         |                        |         |      |           |           |           | 303       | 17.0      | 17.0      |
|                         |                        |         |      |           |           |           | 406       | 18.0      | 17.0      |
|                         |                        |         |      |           |           |           | Mean =    | 17.0      | 17.0      |
| 12                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A         | PREEM     | 112       | 19.0      | 20.0      |
|                         |                        |         |      |           |           |           | 201       | 19.0      | 17.0      |
|                         |                        |         |      |           |           |           | 311       | 18.0      | 18.0      |
|                         |                        |         |      |           |           |           | 407       | 18.0      | 17.0      |
|                         |                        |         |      |           |           |           | Mean =    | 18.5      | 18.0      |
| 13                      | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A         | PREEM     | 113       | 19.0      | 17.0      |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A         | PREEM     | 208       | 17.0      | 17.0      |
|                         |                        |         |      |           |           |           | 304       | 15.0      | 18.0      |
|                         |                        |         |      |           |           |           | 405       | 16.0      | 17.0      |
|                         |                        |         |      |           |           |           | Mean =    | 16.8      | 17.3      |
| 14                      | Valor                  | 51 WG   |      | 3 oz/a    | A         | PREEM     | 114       | 17.0      | 16.0      |
|                         | Dual II Magnum 7.64 EC | 7.64 EC |      | 1.33 pt/a | A         | PREEM     | 210       | 16.0      | 16.0      |
|                         | Python 80 WG           | 80 WG   |      | 1 oz wt/a | A         | PREEM     | 312       | 19.0      | 18.0      |
|                         |                        |         |      |           |           |           | 408       | 17.0      | 19.0      |
|                         |                        |         |      |           |           |           | Mean =    | 17.3      | 17.3      |

# University of Georgia

## Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Location: Trial Year: 2024

Project ID: 156

Study Director: Greg Armel, Ph.D. Sponsor Contact: Greg Armel, Ph.D.

Conducted Under GEP: No

Investigator:

Trial Origin: P public institution trial

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                 |           |           |                |           |                                    | Jul-30-24<br>HEIGHT-AVG<br>INCHES<br>PEANUT | Oct-4-24<br>YIELD-DIRTY<br>LBS/PLOT<br>PEANUT | Oct-4-24<br>YIELD-CLEAN<br>LBS/PLOT<br>PEANUT | Oct-4-24<br>YIELD<br>LBS/A<br>PEANUT           |
|-----------------------------------------------------------------------------------|-----------------|-----------|-----------|----------------|-----------|------------------------------------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|
| Trt No.                                                                           | Treatment Name  | Form Conc | Form Type | Rate Rate Unit | Appl Code | Appl Timing Plot                   | 27                                          | 28                                            | 29                                            | 30                                             |
| 1                                                                                 | Untreated Check |           |           |                |           | 101<br>207<br>310<br>413<br>Mean = | 16.7<br>18.5<br>17.2<br>17.8<br>17.5        | 19.20<br>21.20<br>19.80<br>22.30<br>20.63     | 18.8<br>20.8<br>19.4<br>21.9<br>20.2          | 4389.5<br>4846.8<br>4526.7<br>5098.3<br>4715.3 |
| 2                                                                                 | Python 80 WG    | 80 WG     |           | 0.83 oz wt/a A | PREEM     | 102<br>211<br>314<br>402<br>Mean = | 17.0<br>16.7<br>18.2<br>17.8<br>17.4        | 22.40<br>20.40<br>21.50<br>20.40<br>21.18     | 22.0<br>20.0<br>21.1<br>20.0<br>20.8          | 5121.1<br>4663.9<br>4915.4<br>4663.9<br>4841.1 |
| 3                                                                                 | Python 80 WG    | 80 WG     |           | 1 oz wt/a A    | PREEM     | 103<br>202<br>306<br>411<br>Mean = | 17.0<br>18.0<br>17.0<br>15.7<br>16.9        | 23.50<br>19.90<br>26.60<br>20.60<br>22.65     | 23.0<br>19.5<br>26.1<br>20.2<br>22.2          | 5372.6<br>4549.6<br>6081.4<br>4709.6<br>5178.3 |
| 4                                                                                 | Python 80 WG    | 80 WG     |           | 1.25 oz wt/a A | PREEM     | 104<br>213<br>302<br>401<br>Mean = | 16.5<br>16.8<br>16.8<br>18.0<br>17.0        | 22.50<br>21.60<br>20.90<br>22.00<br>21.75     | 22.1<br>21.2<br>20.5<br>21.6<br>21.3          | 5144.0<br>4938.2<br>4778.2<br>5029.7<br>4972.5 |
| 5                                                                                 | Python 80 WG    | 80 WG     |           | 1.33 oz wt/a A | PREEM     | 105<br>203<br>305<br>403<br>Mean = | 16.8<br>17.2<br>15.8<br>16.8<br>16.7        | 21.50<br>22.10<br>20.20<br>19.70<br>20.88     | 21.1<br>21.7<br>19.8<br>19.3<br>20.5          | 4915.4<br>5052.6<br>4618.2<br>4503.9<br>4772.5 |
| 6                                                                                 | Python 80 WG    | 80 WG     |           | 1.66 oz wt/a A | PREEM     | 106<br>205<br>308<br>412<br>Mean = | 15.8<br>17.0<br>15.7<br>16.7<br>16.3        | 24.00<br>21.90<br>20.00<br>22.20<br>22.03     | 23.5<br>21.5<br>19.6<br>21.8<br>21.6          | 5486.9<br>5006.8<br>4572.4<br>5075.4<br>5035.4 |
| 7                                                                                 | Python 80 WG    | 80 WG     |           | 2 oz wt/a A    | PREEM     | 107<br>212<br>309<br>414<br>Mean = | 14.7<br>16.2<br>16.0<br>17.0<br>16.0        | 20.90<br>22.50<br>21.30<br>22.80<br>21.88     | 20.5<br>22.1<br>20.9<br>22.3<br>21.4          | 4778.2<br>5144.0<br>4869.7<br>5212.6<br>5001.1 |
| 8                                                                                 | Python 80 WG    | 80 WG     |           | 2.5 oz wt/a A  | PREEM     | 108<br>204<br>313<br>410<br>Mean = | 14.7<br>16.0<br>16.0<br>13.7<br>15.1        | 21.60<br>22.40<br>20.80<br>21.00<br>21.45     | 21.2<br>22.0<br>20.4<br>20.6<br>21.0          | 4938.2<br>5121.1<br>4755.3<br>4801.1<br>4903.9 |
| 9                                                                                 | Python 80 WG    | 80 WG     |           | 2.66 oz wt/a A | PREEM     | 109<br>206<br>307<br>404<br>Mean = | 14.3<br>15.0<br>13.0<br>16.0<br>14.6        | 21.80<br>21.50<br>17.80<br>21.00<br>20.53     | 21.4<br>21.1<br>17.4<br>20.6<br>20.1          | 4984.0<br>4915.4<br>4069.5<br>4801.1<br>4692.5 |
| 10                                                                                | Valor           | 51 WG     |           | 3 oz/a A       | PREEM     | 110<br>209<br>301<br>409<br>Mean = | 16.8<br>18.2<br>16.5<br>17.7<br>17.3        | 20.60<br>21.90<br>20.10<br>21.80<br>21.10     | 20.2<br>21.5<br>19.7<br>21.4<br>20.7          | 4709.6<br>5006.8<br>4595.3<br>4984.0<br>4823.9 |

University of Georgia

Trial ID: 24HD156USGA09-B

Protocol ID: 24HD156US

Project ID: 156

Study Director: Greg Armel, Ph.D.

Investigator:

Location: Trial Year: 2024

Sponsor Contact: Greg Armel, Ph.D.

Trial Origin: P public institution trial

Conducted Under GEP: No

Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y

| Rating Date<br>Rating Type<br>Rating Unit<br>Crop Name<br>Rating Min/Max/Interval |                                                 |                           |           |                                  |           |           | Jul-30-24<br>HEIGHT-AVG<br>INCHES<br>PEANUT | Oct-4-24<br>YIELD-DIRTY<br>LBS/PLOT<br>PEANUT | Oct-4-24<br>YIELD-CLEAN<br>LBS/PLOT<br>PEANUT | Oct-4-24<br>YIELD<br>LBS/A<br>PEANUT |        |
|-----------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|-----------|----------------------------------|-----------|-----------|---------------------------------------------|-----------------------------------------------|-----------------------------------------------|--------------------------------------|--------|
| Trt No.                                                                           | Treatment Name                                  | Form Conc                 | Form Type | Rate Rate                        | Appl Unit | Appl Code | Appl Timing Plot                            | 27                                            | 28                                            | 29                                   | 30     |
| 11                                                                                | Valor<br>Python 80 WG                           | 51 WG<br>80 WG            |           | 3 oz/a<br>1 oz wt/a              | A         | PREEM     | 111                                         | 15.7                                          | 18.40                                         | 18.0                                 | 4206.6 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 214                                         | 18.0                                          | 24.70                                         | 24.2                                 | 5647.0 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 303                                         | 17.0                                          | 22.50                                         | 22.1                                 | 5144.0 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 406                                         | 17.5                                          | 23.90                                         | 23.4                                 | 5464.1 |
|                                                                                   |                                                 |                           |           |                                  |           |           | Mean =                                      | 17.0                                          | 22.38                                         | 21.9                                 | 5115.4 |
| 12                                                                                | Dual II Magnum 7.64 EC                          | 7.64 EC                   |           | 1.33 pt/a                        | A         | PREEM     | 112                                         | 18.0                                          | 22.10                                         | 21.7                                 | 5052.6 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 201                                         | 17.5                                          | 17.90                                         | 17.5                                 | 4092.3 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 311                                         | 18.7                                          | 19.20                                         | 18.8                                 | 4389.5 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 407                                         | 17.3                                          | 21.10                                         | 20.7                                 | 4823.9 |
|                                                                                   |                                                 |                           |           |                                  |           |           | Mean =                                      | 17.9                                          | 20.08                                         | 19.7                                 | 4589.6 |
| 13                                                                                | Dual II Magnum 7.64 EC<br>Python 80 WG          | 7.64 EC<br>80 WG          |           | 1.33 pt/a<br>1 oz wt/a           | A         | PREEM     | 113                                         | 17.5                                          | 24.00                                         | 23.5                                 | 5486.9 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 208                                         | 17.8                                          | 22.00                                         | 21.6                                 | 5029.7 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 304                                         | 15.7                                          | 24.40                                         | 23.9                                 | 5578.4 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 405                                         | 17.0                                          | 20.60                                         | 20.2                                 | 4709.6 |
|                                                                                   |                                                 |                           |           |                                  |           |           | Mean =                                      | 17.0                                          | 22.75                                         | 22.3                                 | 5201.2 |
| 14                                                                                | Valor<br>Dual II Magnum 7.64 EC<br>Python 80 WG | 51 WG<br>7.64 EC<br>80 WG |           | 3 oz/a<br>1.33 pt/a<br>1 oz wt/a | A         | PREEM     | 114                                         | 17.2                                          | 23.90                                         | 23.4                                 | 5464.1 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 210                                         | 15.7                                          | 21.50                                         | 21.1                                 | 4915.4 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 312                                         | 18.3                                          | 19.80                                         | 19.4                                 | 4526.7 |
|                                                                                   |                                                 |                           |           |                                  |           |           | 408                                         | 17.5                                          | 20.30                                         | 19.9                                 | 4641.0 |
|                                                                                   |                                                 |                           |           |                                  |           |           | Mean =                                      | 17.2                                          | 21.38                                         | 20.9                                 | 4886.8 |

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|                                                                     |                                          |
|---------------------------------------------------------------------|------------------------------------------|
| Evaluation of flumetsulam preemergence for safety in peanut- GA-12Y |                                          |
| Trial ID: 24HD156USGA09-B                                           |                                          |
| Protocol ID: 24HD156US                                              | Location: Trial Year: 2024               |
| Project ID: 156                                                     |                                          |
| Study Director: Greg Armel, Ph.D.                                   | Sponsor Contact: Greg Armel, Ph.D.       |
| Investigator:                                                       | Conducted Under GEP: No                  |
|                                                                     | Trial Origin: P public institution trial |
| Rating Type                                                         |                                          |
| YIELD = yield                                                       |                                          |
| Rating Unit                                                         |                                          |
| %, 0, 100, = percent                                                |                                          |
| ARM Action Codes                                                    |                                          |
| T1 = ([8]+[9]+[10]+[11]+[12])/5                                     |                                          |
| T2 = ([14]+[15]+[16]+[17]+[18])/5                                   |                                          |
| T3 = ([21]+[22]+[23]+[24]+[25]+[26])/6                              |                                          |
| T4 = [28]*0.98                                                      |                                          |
| TY5 = 233.288*[29]                                                  |                                          |