# University of Georgia

**TO DETERMINE THE EFFICACY & SELECTIVITY OF CHA-2745 (PETHOXAMID) WHEN APPLIED PRE ALONE AND IN TANK MIX TO SOYBEAN IN 2015**

Trial ID: SB-03-15 Location: PONDER FARM Trial Year: 2015
Protocol ID: HGLXMAPET1502 Investigator: Eric P. Prostko
Project ID: HGLXAMPET1502 Study Director: BRENT JACOBSON
Sponsor Contact: ANDY KENDIG

Reps: 4 Plots: 5 by 25 feet
Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .74952)

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Amt Product to Measure | Rep 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 20.0 ml/mx | 101 | 209 | 307 | 412 |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 25.0 ml/mx | 102 | 212 | 309 | 406 |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 30.0 ml/mx | 103 | 206 | 303 | 408 |
| 4 | CHA-2745<br>DAWN | 5<br>2 | EC<br>AS | 1.25<br>0.30 | lb ai/a<br>lb ai/a | PREMCR<br>PREMCR | A<br>A | 25.0 ml/mx<br>15.0 ml/mx | 104 | 201 | 306 | 401 |
| 5 | CHA-2745<br>CHA-060 | 5<br>25 | EC<br>WG | 1.25<br>0.026 | lb ai/a<br>lb ai/a | PREMCR<br>PREMCR | A<br>A | 25.0 ml/mx<br>1.246 g/mx | 105 | 207 | 312 | 404 |
| 6 | CHA-2745<br>SPARTAN | 5<br>4 | EC<br>F | 1.25<br>0.14 | lb ai/a<br>lb ai/a | PREMCR<br>PREMCR | A<br>A | 25.0 ml/mx<br>3.5 ml/mx | 106 | 205 | 301 | 411 |
| 7 | CHA-2745<br>CHA-060<br>DAWN | 5<br>25<br>2 | EC<br>WG<br>AS | 1.0<br>0.023<br>0.28 | lb ai/a<br>lb ai/a<br>lb ai/a | PREMCR<br>PREMCR<br>PREMCR | A<br>A<br>A | 20.0 ml/mx<br>1.102 g/mx<br>14.0 ml/mx | 107 | 204 | 308 | 403 |
| 8 | CHA-2745<br>CHA-060<br>SPARTAN | 5<br>25<br>4 | EC<br>WG<br>F | 1.0<br>0.02<br>0.16 | lb ai/a<br>lb ai/a<br>lb ai/a | PREMCR<br>PREMCR<br>PREMCR | A<br>A<br>A | 20.0 ml/mx<br>0.9586 g/mx<br>4.0 ml/mx | 108 | 211 | 302 | 407 |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 13.12 ml/mx | 109 | 202 | 305 | 409 |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 3.5 ml/mx | 110 | 208 | 310 | 405 |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 19.57 ml/mx | 111 | 210 | 311 | 410 |
| 12 | UNTREATED | | | | | | | | 112 | 203 | 304 | 402 |

Sort Order: Treatment

Trial Comments

CHA-2745 = PETHOXAMID (VLCFA)
CHA-060 = CHLORIMURON
AUTHORITY ELITE = SULFENTRAZONE + S-METOLACHLOR

ANNUAL GRASS = TEXAS PANICUM + CRABGRASS

***SUMMARY:***

1) SLIGHT SOYBEAN STUNTING WAS OBSERVED FROM THE TANK MIX OF DAWN + CHA-2745 @ 1.25 LB AI/A (7.5% STUNTING AT 12 DAT).

2) AT 21 DAT, ALL TREATMENTS PROVIDED > 90% CONTROL OF PALMER AMARANTH.

3) AT 27 DAT, ALL TREATMENTS PROVIDED > 90% CONTROL OF PALMER AMARANTH EXCEPT THE FOLLOWING:

CHA-2745 @ 1 LB AI/A = 59% CONTROL
CHA-2745 @ 1.25 LB AI/A = 83% CONTROL
DUAL MAGNUM @ 1 LB AI/A = 87% CONTROL

4) AT 53 DAT, ALL TREATMENTS PROVIDED > 90% CONTROL OF PALMER AMARANTH EXCEPT THE FOLLOWING:

CHA-2745 @ 1 LB AI/A = 64% CONTROL
CHA-2745 @ 1.25 LB AI/A = 78% CONTROL
CHA-2745 @ 1.5 LB AI/A = 78% CONTROL
DUAL MAGNUM @ 1 LB AI/A = 80% CONTROL
SPARTAN @ 0.14 LB AI/A = 84% CONTROL

5) AT 21 DAT, ALL TREATMENTS PROVIDED 99% CONTROL OF CARPETWEED.

6) AT 21 DAT, ALL TREATMENTS PROVIDED AT LEAST 90% CONTROL OF ANNUAL GRASSES.

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7) AT 27 DAT, ALL TREATMENTS PROVIDED AT LEAST 90% CONTROL OF ANNUAL GRASSES EXCEPT THE FOLLOWING:

CHA-2745 @ 1 -1.25 LB AI/A = 85-86% CONTROL
SPARTAN @ 0.14 LB AI/A = 81% CONTROL
AUTHORITY ELITE @ 1.37 LB AI/A = 87% CONTROL

8) AT 53 DAT, ONLY 3 TREATMENTS PROVIDED > 90% CONTROL OF ANNUAL GRASSES:

CHA-2745 @ 1.25 LB AI/A +DAWN @ 0.30 LB AI/A = 94% CONTROL
CHA-2745 @ 1 LB AI/A + CHA-060 @ 0.02 LB AI/A + SPARTAN @ 0.16 LB AI/A = 93% CONTROL
DUAL MAGNUM @ 1 LB AI/A = 93% CONTROL

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Trial ID: SB-03-15 Location: PONDER FARM Trial Year: 2015
Protocol ID: HGLXMAPET1502 Investigator: Eric P. Prostko
Project ID: HGLXAMPET1502 Study Director: BRENT JACOBSON
Sponsor Contact: ANDY KENDIG

## General Trial Information

**Study Director:** BRENT JACOBSON **Title:** _____
**Investigator:** Eric P. Prostko **Title:** PROFESSOR/EXTENSION WEED SPECIALIST

**Discipline:** ___
**Trial Status:** _ **Trial Reliability:** _____
**Initiation Date:** _____ **Planned Completion Date:** _____
**Completion Date:** _____

**Trial Location**
**City:** _____ **Country:** ___
**State/Prov.:** _____
**Postal Code:** _____ **Climate Zone:** _____

**Latitude of LL Corner °:** _____ _
**Longitude of LL Corner °:** _____ _
**Altitude of LL Corner, Unit:** _____ _____
**Angle y-axis to North °:** _____
**Directions:**

**Conducted Under GLP:** No **Official Trial ID:** _____
**Conducted Under GEP:** No **Other Trial ID:** _____
**Study Rules:** _____

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

**Keywords:** CHA-2745 5EC, PETHOXAMID, DAWN, FOMESAFEN, DUAL MAGNUM, S-METOLACHLOR, CHA-060, CHLORIMURON, SULFENTRAZONE, SOYBEAN, PRE, SELECTIVITY, EFFICACY

**Objectives:**

DETERMINE SAFETY OF CHA-2745 TO SOYBEAN APPLIED PRE
DETERMINE WEED SPECTRUM OF CHA-2745 APPLIED PRE
DETERMINE IF EITHER DAWN , CHLORIMURON, OR SULFENTRAZONE WILL BROADEN WEED SPECTRUM

**Conclusions:**

## Contacts

**Study Director:** BRENT JACOBSON **Title:** _____
**Organization:** _____
**Address:** _____ **Phone No.:** _____
**City+State/Prov:** _____ **Mobile No.:** _____
**Postal Code:** _____ **E-mail:** _____
**Country:** ___

**Investigator:** Eric P. Prostko **Title:** PROFESSOR/EXTENSION WEED SPECIALIST
**Organization:** THE UNIVERSITY OF GEORGIA
**Address:** 104 RESEARCH WAY **Phone No.:** 2293921034
**City+State/Prov:** TIFTON, GA **Mobile No.:** _____
**Postal Code:** 31794 **E-mail:** EPROSTKO@UGA.EDU
**Country:** USA United States

**Cooperator/Landowner**
**Cooperator:** _____ **Role:** _____
**Organization:** _____ **Org. Type:** _____
**Address 1:** _____ **Address 2:** _____
**City:** _____ **Phone No.:** _____
**State/Prov:** _____ **Fax No.:** _____
**Postal Code:** _____ **Mobile No.:** _____
**Country:** ___ **E-mail:** _____

**Other Contacts**

| Name | Role | Other |
|---|---|---|
| | | |

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## Crop Description

**Crop 1:** GLXMA Glycine max Soybean
**Variety:** ASGROW AG 5935 **BBCH Scale:** BSOY
**Description:** _____
**Seed Size, Unit:** _____ _____
**Seed Shape:** _____
**Planting Rate, Unit:** 10 SEED/FT
**Depth, Unit:** 1.5 IN
**Row Spacing, Unit:** 30 IN
**Spacing Within Row, Unit:** _____
**Planting Density, Unit:** _____ _____
**Soil Temperature, Unit:** _____
**Soil Moisture:** _____
**Seed Bed:** _____
**Perennial Age, Unit:** _____
**Nursery Date:** _____
**Planting Date:** May-6-15
**Planting Method:** _____
**Planting Equipment:** _____
**Emergence Date:** _____
**Harvest Date:** _____
**Harvested Width, Unit:** _____ _____
**Harvested Length, Unit:** _____ _____
**Harvest Equipment:** _____
**% Standard Moisture:** _____
**Moisture Meter:** _____
**Weighing Equipment:** _____

## Pest Description

**Pest 1 Type:** W **Code:** AMAPA Amaranthus palmeri
**Common Name:** Palmer amaranth
**Description:** _____
**Artificial Population:** _ **Establishment Date:** _____
**Establishment Rate, Unit:** _____ _____
**Concentration, Unit:** _____ _____
**Establishment Method/Description:** _____

**Pest 2 Type:** W **Code:** MOLVE Mollugo verticillata
**Common Name:** Carpetweed
**Description:** _____
**Artificial Population:** _ **Establishment Date:** _____
**Establishment Rate, Unit:** _____ _____
**Concentration, Unit:** _____ _____
**Establishment Method/Description:** _____

**Pest 3 Type:** W **Code:** AGRASS TEXAS PANICUM + CRABGRASS
**Common Name:** _____
**Description:** _____
**Artificial Population:** _ **Establishment Date:** _____
**Establishment Rate, Unit:** _____ _____
**Concentration, Unit:** _____ _____
**Establishment Method/Description:** _____

## Site and Design

**Treated Plot Width:** 5 FT
**Treated Plot Length:** 25 FT
**Treated Plot Area:** 125 FT2 **Treatments:** 12
**Replications:** 4
**% Slope:** _____
**Site Type:** _____
**Experimental Unit:** _____ _____
**Tillage Type:** _____
**Study Design:** RACOBL Randomized Complete Block (RCB)

**Trial Initiation Comments:**

| No. | Previous Crop | Previous Pesticides | Year |
|---|---|---|---|
| 1. | | | |

## Maintenance

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

**Comment:**

**Field Prep./Maintenance:**

## Soil Description

**Description Name:** _____
**% Sand:** 94 **% OM:** 0.58 **Texture:** SAND
**% Silt:** 2 **pH:** 6.2 **Soil Name:** FUQUAY
**% Clay:** 4 **CEC:** 2.4 **Fert. Level:** G good
**Soil Drainage:** G good

**Analyzed By:**

### Additional Measured Elements

| Date | Element | Quantity | Unit |
|---|---|---|---|
| | | | |

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## Moisture and Weather Conditions

**Overall Moisture Conditions: _____**
**Closest Weather Station: _____ Distance, Unit: _____ __**

| No. | Date | Time | Amount | Unit | Type | Type Description | Interval | Unit | Min Temp | Max Temp | Temp Unit | Relative Humidity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | May-8-15 | | 0.5 | IN | SPLAMO | sprinkler - lateral move | | | | | | |
| 2. | May-13-15 | | 0.5 | IN | SPLAMO | sprinkler - lateral move | | | | | | |
| 3. | May-18-15 | | 0.5 | IN | SPLAMO | sprinkler - lateral move | | | | | | |
| 4. | Jun-2-15 | | 0.5 | IN | SPLAMO | sprinkler - lateral move | | | | | | |

**Comment:**

## Application Description

| | A |
|---|---|
| **Application Date:** | May-7-15 |
| **Appl. Start Time:** | |
| **Appl. Stop Time:** | 8:50 AM |
| **Application Method:** | BROADCAST |
| **Application Timing:** | PRE |
| **Application Placement:** | SOIL |
| **Applied By:** | CH |
| **Air Temperature, Unit:** | 71 F |
| **% Relative Humidity:** | 70 |
| **Wind Velocity, Unit:** | 0 MPH |
| **Wind Direction:** | |
| **Dew Presence (Y/N):** | N no |
| **Soil Temperature, Unit:** | 71 F |
| **Soil Moisture:** | OPTIMUM |
| **% Cloud Cover:** | 0 |
| **Next Moisture Occurred On:** | |
| **Time to Next Moisture, Unit:** | |

## Crop Stage At Each Application

| | A |
|---|---|
| **Crop 1 Code, BBCH Scale:** | GLXMA BSOY |
| **Stage Scale Used:** | |
| **Stage Majority, Percent:** | |
| **Stage Minimum, Percent:** | |
| **Stage Maximum, Percent:** | |
| **Diameter, Unit:** | |
| **Height, Unit:** | |
| **Height Minimum, Maximum:** | |
| | |
| **Crop coverage (%):** | |

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## Pest Stage At Each Application

| | A |
|---|---|
| Pest 1 Code, Type, Scale: | AMAPA W |
| Stage Majority, Percent: | |
| Stage Minimum, Percent: | |
| Stage Maximum, Percent: | |
| Diameter, Unit: | |
| Height, Unit: | |
| Height Minimum, Maximum: | |
| Density, Unit: | |
| Coverage, Unit: | |
| Pest 2 Code, Type, Scale: | MOLVE W |
| Stage Majority, Percent: | |
| Stage Minimum, Percent: | |
| Stage Maximum, Percent: | |
| Diameter, Unit: | |
| Height, Unit: | |
| Height Minimum, Maximum: | |
| Density, Unit: | |
| Coverage, Unit: | |
| Pest 3 Code, Type, Scale: | AGRASS W |
| Stage Majority, Percent: | |
| Stage Minimum, Percent: | |
| Stage Maximum, Percent: | |
| Diameter, Unit: | |
| Height, Unit: | |
| Height Minimum, Maximum: | |
| Density, Unit: | |
| Coverage, Unit: | |

## Application Equipment

| | A |
|---|---|
| Appl. Equipment: | BACKPACK |
| Equipment Type: | |
| Operation Pressure, Unit: | 28 PSI |
| Nozzle Type: | AIXR |
| Nozzle Size: | 11002 |
| Nozzle Spacing, Unit: | 20 IN |
| Nozzles/Row: | |
| | |
| Band Width, Unit: | |
| % Coverage: | |
| | |
| Boom ID: | |
| Boom Length, Unit: | 60 IN |
| Boom Height, Unit: | 20 IN |
| Ground Speed, Unit: | 3.0 |
| | |
| Carrier: | WATER |
| Water Hardness (ppm CaCO3): | |
| Spray Volume, Unit: | 15 GAL/AC |
| Mix Size, Unit: | 1.5 liters |
| Spray pH: | |
| Propellant: | CO2 |
| Tank Mix (Y/N): | |

Equipment Comment:

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| Trt No | Treatment Application Comment |
|---|---|
| ___ | |

| Date | By | Notes |
|---|---|---|
| _____ | _____ | |

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

Reasons:

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Protocol ID: HGLXMAPET1502 Investigator: Eric P. Prostko
Project ID: HGLXAMPET1502 Study Director: BRENT JACOBSON
Sponsor Contact: ANDY KENDIG

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | W Weed | W Weed | W Weed | W Weed |
| | Pest Code | | | | | | | GLYMA | AMAPA | GLYMA | AMAPA |
| | Pest Scientific Name | | | | | | | Glyceria maxima | Amaranthus pal> | Glyceria maxima | Amaranthus pal> |
| | Pest Name | | | | | | | Great water gr> | Palmer amaranth | Great water gr> | Palmer amaranth |
| | Description | | | | | | | STUNTING | CONTROL | STUNTING | CONTROL |
| | Rating Date | | | | | | | May-19-15 | May-19-15 | May-28-15 | May-28-15 |
| | Rating Unit | | | | | | | PERCENT | PERCENT | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | 1 | 1 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | 12 12 | 12 12 | 21 21 | 21 21 |
| | Trt-Eval Interval | | | | | | | 12 DA-A | 12 DA-A | 21 DA-A | 21 DA-A |
| | Plant-Eval Interval | | | | | | | 13 DP-1 | 13 DP-1 | 22 DP-1 | 22 DP-1 |
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 0.0 b | 99.0 a | 0.0 a | 91.0 b |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 0.0 b | 99.0 a | 0.0 a | 97.0 a |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 0.0 b | 99.0 a | 0.0 a | 98.0 a |
| 4 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 7.5 a | 99.0 a | 0.0 a | 99.0 a |
| | DAWN | 2 | AS | 0.30 | lb ai/a | PREMCR | A | | | | |
| 5 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 2.5 b | 99.0 a | 0.0 a | 98.0 a |
| | CHA-060 | 25 | WG | 0.026 | lb ai/a | PREMCR | A | | | | |
| 6 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 2.5 b | 99.0 a | 0.0 a | 99.0 a |
| | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | | | | |
| 7 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 2.5 b | 99.0 a | 0.0 a | 99.0 a |
| | CHA-060 | 25 | WG | 0.023 | lb ai/a | PREMCR | A | | | | |
| | DAWN | 2 | AS | 0.28 | lb ai/a | PREMCR | A | | | | |
| 8 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 2.5 b | 99.0 a | 0.0 a | 99.0 a |
| | CHA-060 | 25 | WG | 0.02 | lb ai/a | PREMCR | A | | | | |
| | SPARTAN | 4 | F | 0.16 | lb ai/a | PREMCR | A | | | | |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 0.0 b | 99.0 a | 0.0 a | 96.0 a |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 0.0 b | 98.0 b | 0.0 a | 95.8 a |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 0.0 b | 99.0 a | 0.0 a | 99.0 a |
| 12 | UNTREATED | | | | | | | 0.0 b | 0.0 c | 0.0 a | 0.0 c |
| | LSD P=.10 | | | | | | | 3.72 | 0.69 | . | 3.25 |
| | Standard Deviation | | | | | | | 3.11 | 0.58 | 0.00 | 2.71 |
| | CV | | | | | | | 213.11 | 0.64 | 0.0 | 3.04 |
| | Grand Mean | | | | | | | 1.46 | 90.67 | 0.00 | 89.23 |
| | Bartlett's X2 | | | | | | | 0.0 | 0.0 | 0.0 | 11.688 |
| | P(Bartlett's X2) | | | | | | | . | . | . | 0.039* |
| | Replicate F | | | | | | | 1.941 | 1.000 | 0.000 | 2.975 |
| | Replicate Prob(F) | | | | | | | 0.1421 | 0.4051 | 1.0000 | 0.0457 |
| | Treatment F | | | | | | | 2.098 | 9784.001 | 0.000 | 431.812 |
| | Treatment Prob(F) | | | | | | | 0.0495 | 0.0001 | 1.0000 | 0.0001 |

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 3,5 because error mean square = 0.

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| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | W Weed | | W Weed | W Weed | |
| | Pest Code | | | | | | | MOLVE | ANNUAL | GLYMA | AMAPA | A.GRASS |
| | Pest Scientific Name | | | | | | | Mollugo vertic> | GRASS | Glyceria maxima | Amaranthus pal> | Pante |
| | Pest Name | | | | | | | Carpetweed | | Great water gr> | Palmer amaranth | Crab |
| | Description | | | | | | | CONTROL | CONTROL | STUNTING | CONTROL | CONTROL |
| | Rating Date | | | | | | | May-28-15 | May-28-15 | Jun-3-15 | Jun-3-15 | Jun-3-15 |
| | Rating Unit | | | | | | | PERCENT | PERCENT | PERCENT | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | 1 | 1 | 1 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | 21 21 | 21 21 | 27 27 | 27 27 | 27 27 |
| | Trt-Eval Interval | | | | | | | 21 DA-A | 21 DA-A | 27 DA-A | 27 DA-A | 27 DA-A |
| | Plant-Eval Interval | | | | | | | 22 DP-1 | 22 DP-1 | 28 DP-1 | 28 DP-1 | 28 DP-1 |
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 99.0 a | 96.8 a | 0.0 a | 58.8 d | 85.0 ab |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 99.0 a | 98.0 a | 0.0 a | 83.3 c | 86.0 ab |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 99.0 a | 94.8 ab | 0.0 a | 91.0 abc | 91.0 ab |
| 4 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 99.0 a | 96.8 a | 0.0 a | 99.0 a | 96.0 a |
| | DAWN | 2 | AS | 0.30 | lb ai/a | PREMCR | A | | | | | |
| 5 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 99.0 a | 99.0 a | 2.5 a | 96.8 ab | 94.5 ab |
| | CHA-060 | 25 | WG | 0.026 | lb ai/a | PREMCR | A | | | | | |
| 6 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 99.0 a | 93.5 ab | 0.0 a | 98.0 ab | 87.0 ab |
| | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | | | | | |
| 7 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 99.0 a | 99.0 a | 0.0 a | 99.0 a | 97.0 a |
| | CHA-060 | 25 | WG | 0.023 | lb ai/a | PREMCR | A | | | | | |
| | DAWN | 2 | AS | 0.28 | lb ai/a | PREMCR | A | | | | | |
| 8 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 99.0 a | 98.0 a | 0.0 a | 98.0 ab | 97.0 a |
| | CHA-060 | 25 | WG | 0.02 | lb ai/a | PREMCR | A | | | | | |
| | SPARTAN | 4 | F | 0.16 | lb ai/a | PREMCR | A | | | | | |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 99.0 a | 96.8 a | 0.0 a | 87.0 bc | 89.5 ab |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 99.0 a | 90.0 b | 2.5 a | 93.3 abc | 81.3 b |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 99.0 a | 93.0 ab | 0.0 a | 99.0 a | 86.8 ab |
| 12 | UNTREATED | | | | | | | 0.0 b | 0.0 c | 0.0 a | 0.0 e | 0.0 c |
| | LSD P=.10 | | | | | | | . | 5.12 | 2.33 | 10.26 | 12.57 |
| | Standard Deviation | | | | | | | 0.00 | 4.28 | 1.95 | 8.58 | 10.51 |
| | CV | | | | | | | 0.0 | 4.86 | 467.1 | 10.26 | 12.72 |
| | Grand Mean | | | | | | | 90.75 | 87.96 | 0.42 | 83.58 | 82.58 |
| | Bartlett's X2 | | | | | | | 0.0 | 14.225 | 0.0 | 21.56 | 28.126 |
| | P(Bartlett's X2) | | | | | | | . | 0.076 | . | 0.003* | 0.002* |
| | Replicate F | | | | | | | 0.000 | 4.219 | 2.200 | 0.696 | 4.177 |
| | Replicate Prob(F) | | | | | | | 1.0000 | 0.0125 | 0.1066 | 0.5609 | 0.0130 |
| | Treatment F | | | | | | | 0.000 | 169.211 | 1.000 | 44.815 | 25.476 |
| | Treatment Prob(F) | | | | | | | 1.0000 | 0.0001 | 0.4671 | 0.0001 | 0.0001 |

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| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | W Weed | |
| | Pest Code | | | | | | | AMAPA | ANNUAL |
| | Pest Scientific Name | | | | | | | Amaranthus pal> | GRASS |
| | Pest Name | | | | | | | Palmer amaranth | |
| | Description | | | | | | | CONTROL | CONTROL |
| | Rating Date | | | | | | | Jun-29-15 | Jun-29-15 |
| | Rating Unit | | | | | | | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | 53 53 | 53 53 |
| | Trt-Eval Interval | | | | | | | 53 DA-A | 53 DA-A |
| | Plant-Eval Interval | | | | | | | 54 DP-1 | 54 DP-1 |
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 63.8 c | 76.3 a |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 77.5 b | 68.8 a |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 77.5 b | 71.3 a |
| 4 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 96.0 a | 93.5 a |
| | DAWN | 2 | AS | 0.30 | lb ai/a | PREMCR | A | | |
| 5 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 92.5 a | 86.3 a |
| | CHA-060 | 25 | WG | 0.026 | lb ai/a | PREMCR | A | | |
| 6 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 92.5 a | 86.3 a |
| | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | | |
| 7 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 96.0 a | 71.0 a |
| | CHA-060 | 25 | WG | 0.023 | lb ai/a | PREMCR | A | | |
| | DAWN | 2 | AS | 0.28 | lb ai/a | PREMCR | A | | |
| 8 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 94.8 a | 92.5 a |
| | CHA-060 | 25 | WG | 0.02 | lb ai/a | PREMCR | A | | |
| | SPARTAN | 4 | F | 0.16 | lb ai/a | PREMCR | A | | |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 80.0 b | 92.5 a |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 83.8 ab | 73.8 a |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 96.0 a | 87.3 a |
| 12 | UNTREATED | | | | | | | 0.0 d | 0.0 b |
| | LSD P=.10 | | | | | | | 11.01 | 20.99 |
| | Standard Deviation | | | | | | | 9.20 | 17.54 |
| | CV | | | | | | | 11.62 | 23.4 |
| | Grand Mean | | | | | | | 79.19 | 74.94 |
| | Bartlett's X2 | | | | | | | 36.432 | 26.576 |
| | P(Bartlett's X2) | | | | | | | 0.001* | 0.003* |
| | Replicate F | | | | | | | 2.828 | 0.144 |
| | Replicate Prob(F) | | | | | | | 0.0536 | 0.9330 |
| | Treatment F | | | | | | | 34.258 | 8.341 |
| | Treatment Prob(F) | | | | | | | 0.0001 | 0.0001 |

# University of Georgia

**TO DETERMINE THE EFFICACY & SELECTIVITY OF CHA-2745 (PETHOXAMID) WHEN APPLIED PRE ALONE AND IN TANK MIX TO SOYBEAN IN 2015**

Trial ID: SB-03-15 Location: PONDER FARM Trial Year: 2015
Protocol ID: HGLXMAPET1502 Investigator: Eric P. Prostko
Project ID: HGLXAMPET1502 Study Director: BRENT JACOBSON
Sponsor Contact: ANDY KENDIG

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
GLYMA, Glyceria maxima, = US
AMAPA, Amaranthus palmeri, = US
MOLVE, Mollugo verticillata, = US
Rating Unit
PERCENT = percent
Plant-Eval Interval
13 DP-1 = 1 GLXMA May-6-15
22 DP-1 = 1 GLXMA May-6-15
28 DP-1 = 1 GLXMA May-6-15
54 DP-1 = 1 GLXMA May-6-15

# University of Georgia

**TO DETERMINE THE EFFICACY & SELECTIVITY OF CHA-2745 (PETHOXAMID) WHEN APPLIED PRE ALONE AND IN TANK MIX TO SOYBEAN IN 2015**

Trial ID: SB-03-15 Location: PONDER FARM Trial Year: 2015
Protocol ID: HGLXMAPET1502 Investigator: Eric P. Prostko
Project ID: HGLXAMPET1502 Study Director: BRENT JACOBSON
Sponsor Contact: ANDY KENDIG

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Plot | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | | W Weed | W Weed | W Weed | W Weed |
| | Pest Code | | | | | | | | GLYMA | AMAPA | GLYMA | AMAPA |
| | Pest Scientific Name | | | | | | | | Glyceria maxima | Amaranthus pal> | Glyceria maxima | Amaranthus pal> |
| | Pest Name | | | | | | | | Great water gr> | Palmer amaranth | Great water gr> | Palmer amaranth |
| | Description | | | | | | | | STUNTING | CONTROL | STUNTING | CONTROL |
| | Rating Date | | | | | | | | May-19-15 | May-19-15 | May-28-15 | May-28-15 |
| | Rating Unit | | | | | | | | PERCENT | PERCENT | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | | 1 | 1 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | | 12 12 | 12 12 | 21 21 | 21 21 |
| | Trt-Eval Interval | | | | | | | | 12 DA-A | 12 DA-A | 21 DA-A | 21 DA-A |
| | Plant-Eval Interval | | | | | | | | 13 DP-1 | 13 DP-1 | 22 DP-1 | 22 DP-1 |
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 101 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | 209 | 0.0 | 99.0 | 0.0 | 80.0 |
| | | | | | | | | 307 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 412 | 0.0 | 99.0 | 0.0 | 90.0 |
| | | | | | | | | Mean = | 0.0 | 99.0 | 0.0 | 91.0 |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 102 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | 212 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | 309 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 406 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 0.0 | 99.0 | 0.0 | 97.0 |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 103 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 206 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | 303 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 408 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 0.0 | 99.0 | 0.0 | 98.0 |
| 4 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 104 | 0.0 | 99.0 | 0.0 | 99.0 |
| | DAWN | 2 | AS | 0.30 | lb ai/a | PREMCR | A | 201 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 306 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 401 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 7.5 | 99.0 | 0.0 | 99.0 |
| 5 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 105 | 0.0 | 99.0 | 0.0 | 99.0 |
| | CHA-060 | 25 | WG | 0.026 | lb ai/a | PREMCR | A | 207 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 312 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 404 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | Mean = | 2.5 | 99.0 | 0.0 | 98.0 |
| 6 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 106 | 0.0 | 99.0 | 0.0 | 99.0 |
| | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 205 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 301 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 411 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 2.5 | 99.0 | 0.0 | 99.0 |
| 7 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 107 | 0.0 | 99.0 | 0.0 | 99.0 |
| | CHA-060 | 25 | WG | 0.023 | lb ai/a | PREMCR | A | 204 | 0.0 | 99.0 | 0.0 | 99.0 |
| | DAWN | 2 | AS | 0.28 | lb ai/a | PREMCR | A | 308 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 403 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 2.5 | 99.0 | 0.0 | 99.0 |
| 8 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 108 | 0.0 | 99.0 | 0.0 | 99.0 |
| | CHA-060 | 25 | WG | 0.02 | lb ai/a | PREMCR | A | 211 | 0.0 | 99.0 | 0.0 | 99.0 |
| | SPARTAN | 4 | F | 0.16 | lb ai/a | PREMCR | A | 302 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 407 | 10.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 2.5 | 99.0 | 0.0 | 99.0 |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 109 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 202 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | 305 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | 409 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | Mean = | 0.0 | 99.0 | 0.0 | 96.0 |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 110 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 208 | 0.0 | 95.0 | 0.0 | 90.0 |
| | | | | | | | | 310 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 405 | 0.0 | 99.0 | 0.0 | 95.0 |
| | | | | | | | | Mean = | 0.0 | 98.0 | 0.0 | 95.8 |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Pest Type | | | | | | | W Weed | W Weed | W Weed | W Weed |
| Pest Code | | | | | | | GLYMA | AMAPA | GLYMA | AMAPA |
| Pest Scientific Name | | | | | | | Glyceria maxima | Amaranthus pal> | Glyceria maxima | Amaranthus pal> |
| Pest Name | | | | | | | Great water gr> | Palmer amaranth | Great water gr> | Palmer amaranth |
| Description | | | | | | | STUNTING | CONTROL | STUNTING | CONTROL |
| Rating Date | | | | | | | May-19-15 | May-19-15 | May-28-15 | May-28-15 |
| Rating Unit | | | | | | | PERCENT | PERCENT | PERCENT | PERCENT |
| Number of Subsamples | | | | | | | 1 | 1 | 1 | 1 |
| Days After First/Last Applic. | | | | | | | 12 12 | 12 12 | 21 21 | 21 21 |
| Trt-Eval Interval | | | | | | | 12 DA-A | 12 DA-A | 21 DA-A | 21 DA-A |
| Plant-Eval Interval | | | | | | | 13 DP-1 | 13 DP-1 | 22 DP-1 | 22 DP-1 |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Plot | 1 | 2 | 3 | 4 |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 111 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 210 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 311 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 410 | 0.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 0.0 | 99.0 | 0.0 | 99.0 |
| 12 | UNTREATED | | | | | | | 112 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 203 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 304 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 402 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 |

# University of Georgia

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Plot | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | | W Weed | | W Weed | W Weed |
| | Pest Code | | | | | | | | MOLVE | ANNUAL | GLYMA | AMAPA |
| | Pest Scientific Name | | | | | | | | Mollugo vertic> | GRASS | Glyceria maxima | Amaranthus pal> |
| | Pest Name | | | | | | | | Carpetweed | | Great water gr> | Palmer amaranth |
| | Description | | | | | | | | CONTROL | CONTROL | STUNTING | CONTROL |
| | Rating Date | | | | | | | | May-28-15 | May-28-15 | Jun-3-15 | Jun-3-15 |
| | Rating Unit | | | | | | | | PERCENT | PERCENT | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | | 1 | 1 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | | 21 21 | 21 21 | 27 27 | 27 27 |
| | Trt-Eval Interval | | | | | | | | 21 DA-A | 21 DA-A | 27 DA-A | 27 DA-A |
| | Plant-Eval Interval | | | | | | | | 22 DP-1 | 22 DP-1 | 28 DP-1 | 28 DP-1 |
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 101 | 99.0 | 99.0 | 0.0 | 70.0 |
| | | | | | | | | 209 | 99.0 | 90.0 | 0.0 | 50.0 |
| | | | | | | | | 307 | 99.0 | 99.0 | 0.0 | 65.0 |
| | | | | | | | | 412 | 99.0 | 99.0 | 0.0 | 50.0 |
| | | | | | | | | Mean = | 99.0 | 96.8 | 0.0 | 58.8 |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 102 | 99.0 | 99.0 | 0.0 | 75.0 |
| | | | | | | | | 212 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 309 | 99.0 | 99.0 | 0.0 | 60.0 |
| | | | | | | | | 406 | 99.0 | 95.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 98.0 | 0.0 | 83.3 |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 103 | 99.0 | 95.0 | 0.0 | 95.0 |
| | | | | | | | | 206 | 99.0 | 90.0 | 0.0 | 99.0 |
| | | | | | | | | 303 | 99.0 | 95.0 | 0.0 | 85.0 |
| | | | | | | | | 408 | 99.0 | 99.0 | 0.0 | 85.0 |
| | | | | | | | | Mean = | 99.0 | 94.8 | 0.0 | 91.0 |
| 4 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 104 | 99.0 | 99.0 | 0.0 | 99.0 |
| | DAWN | 2 | AS | 0.30 | lb ai/a | PREMCR | A | 201 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 306 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 401 | 99.0 | 90.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 96.8 | 0.0 | 99.0 |
| 5 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 105 | 99.0 | 99.0 | 10.0 | 99.0 |
| | CHA-060 | 25 | WG | 0.026 | lb ai/a | PREMCR | A | 207 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 312 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 404 | 99.0 | 99.0 | 0.0 | 90.0 |
| | | | | | | | | Mean = | 99.0 | 99.0 | 2.5 | 96.8 |
| 6 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 106 | 99.0 | 95.0 | 0.0 | 99.0 |
| | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 205 | 99.0 | 85.0 | 0.0 | 99.0 |
| | | | | | | | | 301 | 99.0 | 95.0 | 0.0 | 95.0 |
| | | | | | | | | 411 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 93.5 | 0.0 | 98.0 |
| 7 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 107 | 99.0 | 99.0 | 0.0 | 99.0 |
| | CHA-060 | 25 | WG | 0.023 | lb ai/a | PREMCR | A | 204 | 99.0 | 99.0 | 0.0 | 99.0 |
| | DAWN | 2 | AS | 0.28 | lb ai/a | PREMCR | A | 308 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 403 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 99.0 | 0.0 | 99.0 |
| 8 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 108 | 99.0 | 99.0 | 0.0 | 99.0 |
| | CHA-060 | 25 | WG | 0.02 | lb ai/a | PREMCR | A | 211 | 99.0 | 99.0 | 0.0 | 99.0 |
| | SPARTAN | 4 | F | 0.16 | lb ai/a | PREMCR | A | 302 | 99.0 | 95.0 | 0.0 | 95.0 |
| | | | | | | | | 407 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 98.0 | 0.0 | 98.0 |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 109 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 202 | 99.0 | 90.0 | 0.0 | 85.0 |
| | | | | | | | | 305 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 409 | 99.0 | 99.0 | 0.0 | 65.0 |
| | | | | | | | | Mean = | 99.0 | 96.8 | 0.0 | 87.0 |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 110 | 99.0 | 90.0 | 10.0 | 99.0 |
| | | | | | | | | 208 | 99.0 | 85.0 | 0.0 | 85.0 |
| | | | | | | | | 310 | 99.0 | 95.0 | 0.0 | 99.0 |
| | | | | | | | | 405 | 99.0 | 90.0 | 0.0 | 90.0 |
| | | | | | | | | Mean = | 99.0 | 90.0 | 2.5 | 93.3 |

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| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Plot | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | | W Weed | | W Weed | W Weed |
| | Pest Code | | | | | | | | MOLVE | ANNUAL | GLYMA | AMAPA |
| | Pest Scientific Name | | | | | | | | Mollugo vertic> | GRASS | Glyceria maxima | Amaranthus pal> |
| | Pest Name | | | | | | | | Carpetweed | | Great water gr> | Palmer amaranth |
| | Description | | | | | | | | CONTROL | CONTROL | STUNTING | CONTROL |
| | Rating Date | | | | | | | | May-28-15 | May-28-15 | Jun-3-15 | Jun-3-15 |
| | Rating Unit | | | | | | | | PERCENT | PERCENT | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | | 1 | 1 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | | 21 21 | 21 21 | 27 27 | 27 27 |
| | Trt-Eval Interval | | | | | | | | 21 DA-A | 21 DA-A | 27 DA-A | 27 DA-A |
| | Plant-Eval Interval | | | | | | | | 22 DP-1 | 22 DP-1 | 28 DP-1 | 28 DP-1 |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 111 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 210 | 99.0 | 75.0 | 0.0 | 99.0 |
| | | | | | | | | 311 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | 410 | 99.0 | 99.0 | 0.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 93.0 | 0.0 | 99.0 |
| 12 | UNTREATED | | | | | | | 112 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 203 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 304 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 402 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 |

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| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Plot | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | | A.GRASS | W Weed | |
| | Pest Code | | | | | | | | Pante | AMAPA | ANNUAL GRASS |
| | Pest Scientific Name | | | | | | | | Crab | Amaranthus pal> | |
| | Pest Name | | | | | | | | CONTROL | Palmer amaranth | |
| | Description | | | | | | | | Jun-3-15 | CONTROL | CONTROL |
| | Rating Date | | | | | | | | PERCENT | Jun-29-15 | Jun-29-15 |
| | Rating Unit | | | | | | | | 1 | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | | 27 27 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | | 27 DA-A | 53 53 | 53 53 |
| | Trt-Eval Interval | | | | | | | | 28 DP-1 | 53 DA-A | 53 DA-A |
| | Plant-Eval Interval | | | | | | | | | 54 DP-1 | 54 DP-1 |
| 1 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 101 | 65.0 | 85.0 | 65.0 |
| | | | | | | | | 209 | 85.0 | 60.0 | 80.0 |
| | | | | | | | | 307 | 95.0 | 60.0 | 85.0 |
| | | | | | | | | 412 | 95.0 | 50.0 | 75.0 |
| | | | | | | | | Mean = | 85.0 | 63.8 | 76.3 |
| 2 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 102 | 75.0 | 85.0 | 65.0 |
| | | | | | | | | 212 | 85.0 | 70.0 | 65.0 |
| | | | | | | | | 309 | 99.0 | 60.0 | 85.0 |
| | | | | | | | | 406 | 85.0 | 95.0 | 60.0 |
| | | | | | | | | Mean = | 86.0 | 77.5 | 68.8 |
| 3 | CHA-2745 | 5 | EC | 1.5 | lb ai/a | PREMCR | A | 103 | 90.0 | 90.0 | 85.0 |
| | | | | | | | | 206 | 80.0 | 85.0 | 65.0 |
| | | | | | | | | 303 | 99.0 | 75.0 | 85.0 |
| | | | | | | | | 408 | 95.0 | 60.0 | 50.0 |
| | | | | | | | | Mean = | 91.0 | 77.5 | 71.3 |
| 4 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 104 | 95.0 | 95.0 | 95.0 |
| | DAWN | 2 | AS | 0.30 | lb ai/a | PREMCR | A | 201 | 95.0 | 95.0 | 95.0 |
| | | | | | | | | 306 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 401 | 95.0 | 95.0 | 85.0 |
| | | | | | | | | Mean = | 96.0 | 96.0 | 93.5 |
| 5 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 105 | 85.0 | 95.0 | 65.0 |
| | CHA-060 | 25 | WG | 0.026 | lb ai/a | PREMCR | A | 207 | 99.0 | 90.0 | 90.0 |
| | | | | | | | | 312 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | 404 | 95.0 | 90.0 | 95.0 |
| | | | | | | | | Mean = | 94.5 | 92.5 | 86.3 |
| 6 | CHA-2745 | 5 | EC | 1.25 | lb ai/a | PREMCR | A | 106 | 85.0 | 95.0 | 90.0 |
| | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 205 | 65.0 | 95.0 | 75.0 |
| | | | | | | | | 301 | 99.0 | 90.0 | 95.0 |
| | | | | | | | | 411 | 99.0 | 90.0 | 85.0 |
| | | | | | | | | Mean = | 87.0 | 92.5 | 86.3 |
| 7 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 107 | 95.0 | 95.0 | 85.0 |
| | CHA-060 | 25 | WG | 0.023 | lb ai/a | PREMCR | A | 204 | 99.0 | 99.0 | 99.0 |
| | DAWN | 2 | AS | 0.28 | lb ai/a | PREMCR | A | 308 | 99.0 | 95.0 | 5.0 |
| | | | | | | | | 403 | 95.0 | 95.0 | 95.0 |
| | | | | | | | | Mean = | 97.0 | 96.0 | 71.0 |
| 8 | CHA-2745 | 5 | EC | 1.0 | lb ai/a | PREMCR | A | 108 | 95.0 | 95.0 | 95.0 |
| | CHA-060 | 25 | WG | 0.02 | lb ai/a | PREMCR | A | 211 | 95.0 | 99.0 | 95.0 |
| | SPARTAN | 4 | F | 0.16 | lb ai/a | PREMCR | A | 302 | 99.0 | 90.0 | 95.0 |
| | | | | | | | | 407 | 99.0 | 95.0 | 85.0 |
| | | | | | | | | Mean = | 97.0 | 94.8 | 92.5 |
| 9 | DUAL MAGNUM | 7.62 | EC | 1.0 | lb ai/a | PREMCR | A | 109 | 95.0 | 95.0 | 95.0 |
| | | | | | | | | 202 | 65.0 | 70.0 | 85.0 |
| | | | | | | | | 305 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | 409 | 99.0 | 60.0 | 95.0 |
| | | | | | | | | Mean = | 89.5 | 80.0 | 92.5 |
| 10 | SPARTAN | 4 | F | 0.14 | lb ai/a | PREMCR | A | 110 | 85.0 | 95.0 | 85.0 |
| | | | | | | | | 208 | 85.0 | 90.0 | 85.0 |
| | | | | | | | | 310 | 90.0 | 85.0 | 75.0 |
| | | | | | | | | 405 | 65.0 | 65.0 | 50.0 |
| | | | | | | | | Mean = | 81.3 | 83.8 | 73.8 |

# University of Georgia

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Growth Stage | Appl Code | Plot | 9 | 10 | 11 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pest Type | | | | | | | | A.GRASS | W Weed | |
| | Pest Code | | | | | | | | Pante | AMAPA | ANNUAL |
| | Pest Scientific Name | | | | | | | | Crab | Amaranthus pal> | GRASS |
| | Pest Name | | | | | | | | CONTROL | Palmer amaranth | |
| | Description | | | | | | | | Jun-3-15 | CONTROL | CONTROL |
| | Rating Date | | | | | | | | PERCENT | Jun-29-15 | Jun-29-15 |
| | Rating Unit | | | | | | | | 1 | PERCENT | PERCENT |
| | Number of Subsamples | | | | | | | | 27 27 | 1 | 1 |
| | Days After First/Last Applic. | | | | | | | | 27 DA-A | 53 53 | 53 53 |
| | Trt-Eval Interval | | | | | | | | 28 DP-1 | 53 DA-A | 53 DA-A |
| | Plant-Eval Interval | | | | | | | | | 54 DP-1 | 54 DP-1 |
| 11 | AUTHORITY ELITE | 7 | L | 1.37 | lb ai/a | PREMCR | A | 111 | 99.0 | 95.0 | 99.0 |
| | | | | | | | | 210 | 50.0 | 99.0 | 60.0 |
| | | | | | | | | 311 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | 410 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | Mean = | 86.8 | 96.0 | 87.3 |
| 12 | UNTREATED | | | | | | | 112 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 203 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 304 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 402 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 |

# University of Georgia

**TO DETERMINE THE EFFICACY & SELECTIVITY OF CHA-2745 (PETHOXAMID) WHEN APPLIED PRE ALONE AND IN TANK MIX TO SOYBEAN IN 2015**

Trial ID: SB-03-15 Location: PONDER FARM Trial Year: 2015
Protocol ID: HGLXMAPET1502 Investigator: Eric P. Prostko
Project ID: HGLXAMPET1502 Study Director: BRENT JACOBSON
Sponsor Contact: ANDY KENDIG

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
GLYMA, Glyceria maxima, = US
AMAPA, Amaranthus palmeri, = US
MOLVE, Mollugo verticillata, = US
Rating Unit
PERCENT = percent
Plant-Eval Interval
13 DP-1 = 1 GLXMA May-6-15
22 DP-1 = 1 GLXMA May-6-15
28 DP-1 = 1 GLXMA May-6-15
54 DP-1 = 1 GLXMA May-6-15