# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Amt Product to Measure | Diluent | Rep 1 | 2 | 3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NO PRE | | | | | | | | - | 101 | 211 | 303 |
| | NO POST | | | | | | | | - | | | |
| 2 | NO PRE | | | | | | | | - | 102 | 201 | 312 |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 2.344 mL/mx | 1407.7 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 3 | NO PRE | | | | | | | | - | 103 | 206 | 302 |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 2.344 mL/mx | 1407.7 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 4 | NO PRE | | | | | | | | - | 104 | 208 | 305 |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 0.7812 mL/mx | 1409.2 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 5 | NO PRE | | | | | | | | - | 105 | 203 | 309 |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 0.7812 mL/mx | 1409.2 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 6 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 106 | 202 | 306 |
| | NO POST | | | | | | | | - | | | |
| 7 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 107 | 212 | 308 |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 2.344 mL/mx | 1407.7 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 8 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 108 | 210 | 311 |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 2.344 mL/mx | 1407.7 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 9 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 109 | 205 | 304 |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 0.7812 mL/mx | 1409.2 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 10 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 110 | 207 | 301 |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 0.7812 mL/mx | 1409.2 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 11 | NO PRE | | | | | | | | - | 111 | 204 | 310 |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 2.621 g/mx | 1407.4 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |
| 12 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 112 | 209 | 307 |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 2.621 g/mx | 1407.4 mL | | | |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 50.0 mL/mx | | | | |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | 25.0 mL/mx | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | 15.0 mL/mx | | | | |

Sort Order: Treatment

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Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

REVULIN Q = NICOSULFURON (14.4%) + MESOTRIONE (36.8%)

**NO DATA WAS COLLECTED FROM REP 1 DUE TO SEVERE SOIL WASHING THAT OCCURRED AFTER PLANTING.**

HARVEST DATE: 08/30/22
HARVEST MOISTURE:17.47%
YIELDS ADJUSTED TO 15.5%

***SUMMARY:***

1) PRE APPLICATIONS OF WARRANT WERE NOT EFFECTIVE ON WILD RADISH.

2) IMPACT AND SHIELDEX CAUSED MORE BLEACHING THAN CALLISTO, LAUDIS, OR REVULIN Q.

3) NO DIFFERNCE IN WILD RADISH CONTROL BETWEEN THE HPPD HERBICIDES.

4) ON JUNE 7 (71 DAP) THE FOLLOWING OBSERVATIONS WERE MADE:

A) ALL TREATMENTS PROVIDED EXCELLENT CONTROL (97%+ CONTROL) OF PALMER AMARANTH EXCEPT FOR WARRANT - PRE - 83% CONTROL.

B) CALLISTO + ATRAZINE + PROWL PROVIDED LESS CONTROL OF ANNUAL GRASSES THAN THE OTHER HPPD TREATMENTS.

5) FOR CORN YIELD, THERE WAS NO INTERACTION BETWEEN PRE AND POST TREATMENTS. WHEN AVERAGED OVER POST TREATMENTS, PRE APPLICATIONS OF WARRANT SIGNIFICANTLY INCREASED CORN YIELDS (+4.6%). WHEN AVERAGED OVER PRE TREATMENTS, ALL POST TREATMENTS SIGNIFICANTLY IMPROVED YIELD EXCEPT FOR CALLISTO + ATRAZINE + PROWL.

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Location: PONDER FARM Investigator: Eric P. Prostko

## GENERAL TRIAL INFORMATION

**Study Director:** _____ **Title:** _____
**Affiliation:** _____
**Postal Code:** _____

**Investigator:** Eric P. Prostko **Title:** _____
**Affiliation:** _____
**Postal Code:** _____

## TRIAL LOCATION

**City:** _____ **Trial Status:** E
**State/Prov.:** _____ **Trial Reliability:** _____
**Postal Code:** _____ **Initiation Date:** _____
**Country:** _____ **Planned Completion Date:** _____
**E-Longitude of LL Corner °:** _____ **N-Latitude of LL Corner °:** _____
**Altitude of LL Corner:** _____ **Unit:** _____ **Angle y-axis to North °:** _____
**Directions:**

## COOPERATOR/LANDOWNER

**Cooperator:** _____ **Country:** _____
**Org:** _____ **Phone No:** _____
**Address 1:** _____ **Fax No:** _____
**Address 2:** _____
**City:** _____
**State/Prov:** _____
**Postal Code:** _____

**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N
**Guidelines:** _____ **Guideline Description:** _____

**Objective:**

**Conclusions:**

## CROP AND WEED DESCRIPTION

| Weed | Code | Common Name | Scientific Name |
|---|---|---|---|
| 1. | AMAPA | **PA** | LMER AMARANTH |
| 2. | RAPRA | **WI** | LD RADISH |
| 3. | AGRASS | **TX** | PAN/CRAB/GOOSE/CROW |
| 4. | | | |

**Crop 1:** ZEAMA FIELD CORN **Variety:** P2042VYHR
**Planting Date:** Mar-28-22 **Planting Method:** MONOSEM
**Rate:** 36300 S/A **Depth:** 2 IN **Perennial Age:** ____ _____
**Row Spacing:** 36 IN **Spacing Within Row:** ____ _____ **Seed Bed:** _____
**Soil Temperature:** ____ _ **Soil Moisture:** NORMAL **Emergence Date:** _____

## SITE AND DESIGN

**Plot Width, Unit:** 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
**Site Type:** _____
**Tillage Type:** CONVENTIONAL **Study Design:** FACTOR

**Trial Initiation Comments:**

| | Previous Crops | Previous Pesticides | Year |
|---|---|---|---|
| 1. | PEANUT | | 2022 |

**MAINTENANCE**
**Field Prep./Maintenance:** 1.5 TON/A LIME-PREPLANT
700 LBS/A 5-15-30-PREPLANT
131-0-0-16 SIDEDRESS ON 04/21/22 AND 05/04/22
AXILO BMZ @ 2 LBS/A ON 04/26/22 (HELENA MICRONUTRIENTS)

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Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| No. | Date | Maintenance Treatment Name | Form Conc | Form Unit | Form Type | Rate | Rate Unit |
|---|---|---|---|---|---|---|---|
| 1. | | | | | | | |

**SOIL DESCRIPTION**

| | | | | | |
|---|---|---|---|---|---|
| **% Sand:** | 94 | **% OM:** | 0.64 | **Texture:** | SAND |
| **% Silt:** | 4 | **pH:** | 6.0 | **Soil Name:** | DOTHAN |
| **% Clay:** | 2 | **CEC:** | 2.8 | **Fert. Level:** | GOOD |

**ADDITIONAL MEASURED ELEMENTS**

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

**MOISTURE CONDITIONS**

| | Date | Time | Amount | Unit | Type | Interval | Unit |
|---|---|---|---|---|---|---|---|
| 1. | Mar-29-22 | | 0.4 | IN | SPRINKLER - LATERAL MOVE | | |
| 2. | Mar-31-22 | | 1.6 | IN | RAINFALL | | |
| 3. | Apr-5-22 | | 1.36 | IN | RAINFALL | | |
| 4. | Apr-6-22 | | 0.43 | IN | RAINFALL | | |
| 5. | Apr-17-22 | | 0.16 | IN | RAINFALL | | |
| 6. | Apr-18-22 | | 0.53 | IN | RAINFALL | | |
| 7. | Apr-27-22 | | 0.3 | IN | SPRINKLER - LATERAL MOVE | | |
| 8. | Apr-28-22 | | 0.5 | IN | SPRINKLER - LATERAL MOVE | | |
| 9. | May-2-22 | | 0.5 | IN | SPRINKLER - LATERAL MOVE | | |
| 10. | May-3-22 | | 0.3 | IN | SPRINKLER - LATERAL MOVE | | |
| 11. | May-4-22 | | 0.3 | IN | SPRINKLER - LATERAL MOVE | | |
| 12. | May-6-22 | | 0.45 | IN | RAINFALL | | |
| 13. | May-10-22 | | 0.38 | IN | SPRINKLER - LATERAL MOVE | | |
| 14. | May-12-22 | | 0.4 | IN | SPRINKLER - LATERAL MOVE | | |
| 15. | May-16-22 | | 0.5 | IN | SPRINKLER - LATERAL MOVE | | |
| 16. | May-24-22 | | 0.5 | IN | SPRINKLER - LATERAL MOVE | | |
| 17. | May-24-22 | | 1.8 | IN | RAINFALL | | |
| 18. | Jun-1-22 | | 0.6 | IN | SPRINKLER - LATERAL MOVE | | |
| 19. | Jun-7-22 | | 0.5 | IN | SPRINKLER - LATERAL MOVE | | |

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

**APPLICATION DESCRIPTION**

| | A | B |
|---|---|---|
| **Application Date:** | Mar-28-22 | Apr-21-22 |
| **Time of Day:** | 8:53 AM | 7:27 AM |
| **Application Method:** | BROADCAST | BROADCAST |
| **Application Timing:** | PRE | POST |
| **Applic. Placement:** | SOIL | FOLIAGE |
| **Air Temp., Unit:** | 54 F | 59 F |
| **% Relative Humidity:** | 72 | 87 |
| **Wind Velocity, Unit:** | 2 MPH | 2 MPH |
| **Dew Presence (Y/N):** | Y | Y |
| **Water Hardness:** | -- | -- |
| **Soil Temp., Unit:** | 58 F | 60 F |
| **Soil Moisture:** | OPTIMUM | OPTIMUM |
| **% Cloud Cover:** | 0 | 10 |

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**CROP STAGE AT EACH APPLICATION**

| | A | B |
|---|---|---|
| **Crop 1 Code, Stage:** | ZEAMA, | ZEAMA, |
| **Stage Scale:** | | V4-V5 |
| **Height, Unit:** | | 7, IN |

**WEED STAGE AT EACH APPLICATION**

| | A | B |
|---|---|---|
| **Weed 1 Code, Stage:** | AMAPA, | AMAPA, |
| **Stage Scale:** | | 1-2" |
| **Density, Unit:** | | |
| **Weed 2 Code, Stage:** | RAPRA, | RAPRA, |
| **Stage Scale:** | | 1-3" |
| **Density, Unit:** | | |
| **Weed 3 Code, Stage:** | AGRAS, | AGRAS, |
| **Stage Scale:** | | 1-2" |
| **Density, Unit:** | | |
| **Weed 4 Code, Stage:** | | |
| **Stage Scale:** | | |
| **Density, Unit:** | | |

**APPLICATION EQUIPMENT**

| | A | B |
|---|---|---|
| **Appl. Equipment:** | BACKPACK | BACKPACK |
| **Operating Pressure:** | 35 | 36 |
| **Nozzle Type:** | AIXR | AIXR |
| **Nozzle Size:** | 11002 | 11002 |
| **Nozzle Spacing, Unit:** | 20 IN | 20 IN |
| **Nozzles/Row:** | | |
| **Band Width, Unit:** | | |
| **Boom Length, Unit:** | | |
| **Boom Height, Unit:** | 20 IN | 20 IN |
| **Ground Speed, Unit:** | 3.5 MPH | 3.5 MPH |
| **Incorporation Equip.:** | | |
| **Hours to Incorp.:** | | |
| **Incorp. Depth, Unit:** | | |
| **Carrier:** | WATER | WATER |
| **Spray Volume, Unit:** | 15 GPA | 15 GPA |
| **Spray pH:** | | |
| **Propellant:** | CO2 | CO2 |
| **Tank Mix (Y/N):** | | |

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

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Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weed Code | | | | | | | | | ----- | Amapa | Agrass | Rapra | | |
| Crop Code | | | | | | | | Zeama | Zeama | ----- | ---- | ----- | Zeama | Zeama |
| Part Rated | | | | | | | | | | | | | | |
| Rating Data Type | | | | | | | | Stunting | Stunting | Control | Control | Control | Stunting | Bleaching |
| Rating Unit | | | | | | | | % | % | % | % | % | % | % |
| Rating Date | | | | | | | | Apr-11-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | May-5-22 | May-5-22 |
| TABLE OF R MEANS | | | | | | | | | | | | | | |
| Replicate 1 | | | | | | | | . | . | . | . | . | . | . |
| Replicate 2 | | | | | | | | 0.0 | 0.4 | 49.5 | 44.2 | 0.0 | 4.6 | 7.1 |
| Replicate 3 | | | | | | | | 0.0 | 0.0 | 49.5 | 36.7 | 0.0 | 6.3 | 7.1 |
| TABLE OF A (PRE) MEANS | | | | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 b | 0.0 a | 5.4 a | 6.7 b |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 0.4 a | 99.0 a | 80.8 a | 0.0 a | 5.4 a | 7.5 a |
| LSD P=.10 | | | | | | | | . | 2.15 | . | 38.66 | . | 4.30 | . |
| Standard Deviation | | | | | | | | 0.00 | 1.02 | 0.00 | 18.37 | 0.00 | 2.04 | 0.00 |
| CV | | | | | | | | 0.00 | 489.90 | 0.00 | 45.45 | 0.00 | 37.68 | 0.00 |
| TABLE OF B (POST) MEANS | | | | | | | | | | | | | | |
| 1 | NO POST | | | | | | | 0.0 a | 0.0 a | 49.5 a | 42.5 a | 0.0 a | 2.5 a | 2.5 cd |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 0.0 a | 1.3 a | 49.5 a | 32.5 a | 0.0 a | 6.3 a | 8.8 b |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 0.0 a | 0.0 a | 49.5 a | 40.0 a | 0.0 a | 2.5 a | 0.0 d |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 0.0 a | 0.0 a | 49.5 a | 45.0 a | 0.0 a | 7.5 a | 15.0 a |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 0.0 a | 0.0 a | 49.5 a | 40.0 a | 0.0 a | 11.3 a | 12.5 a |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 0.0 a | 0.0 a | 49.5 a | 42.5 a | 0.0 a | 2.5 a | 3.8 c |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| LSD P=.10 | | | | | | | | . | 1.19 | . | 8.02 | . | 5.72 | 3.19 |
| Standard Deviation | | | | | | | | 0.00 | 1.02 | 0.00 | 6.89 | 0.00 | 4.92 | 2.74 |
| CV | | | | | | | | 0.00 | 489.90 | 0.00 | 17.05 | 0.00 | 90.76 | 38.66 |
| TABLE OF A (PRE) B (POST) MEANS | | | | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 a | 0.0 a | 0.0 a | 0.0 a |
| 1 | NO POST | | | | | | | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 0.0 a | 99.0 a | 85.0 a | 0.0 a | 5.0 a | 5.0 a |
| 1 | NO POST | | | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 a | 0.0 a | 12.5 a | 10.0 a |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |

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.

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NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | Zeama | ----- Zeama | Amapa ----- | Agrass ---- | Rapra ----- | Zeama | Zeama |
| | Crop Code | | | | | | | | | | | | | |
| | Part Rated | | | | | | | | | | | | | |
| | Rating Data Type | | | | | | | Stunting | Stunting | Control | Control | Control | Stunting | Bleaching |
| | Rating Unit | | | | | | | % | % | % | % | % | % | % |
| | Rating Date | | | | | | | Apr-11-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | May-5-22 | May-5-22 |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 2.5 a | 99.0 a | 65.0 a | 0.0 a | 0.0 a | 7.5 a |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 a | 0.0 a | 5.0 a | 0.0 a |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 0.0 a | 99.0 a | 80.0 a | 0.0 a | 0.0 a | 0.0 a |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 a | 0.0 a | 5.0 a | 15.0 a |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 0.0 a | 99.0 a | 90.0 a | 0.0 a | 10.0 a | 15.0 a |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 a | 0.0 a | 10.0 a | 12.5 a |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 0.0 a | 99.0 a | 80.0 a | 0.0 a | 12.5 a | 12.5 a |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 a | 0.0 b | 0.0 a | 0.0 a | 0.0 a | 2.5 a |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | | | | | | | |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 0.0 a | 99.0 a | 85.0 a | 0.0 a | 5.0 a | 5.0 a |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | | | | | | | |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| LSD P=.10 | | | | | | | | . | 1.68 | . | 11.34 | . | 8.50 | 5.82 |
| Standard Deviation | | | | | | | | 0.00 | 1.02 | 0.00 | 6.89 | 0.00 | 5.16 | 3.54 |
| CV | | | | | | | | 0.00 | 489.90 | 0.00 | 17.05 | 0.00 | 95.33 | 49.91 |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Zeama Necrosis % May-5-22 | Amapa Control % May-5-22 | Rapra Control % May-5-22 | Agrass Control % May-5-22 | Zeama Plant, - Stunting % May-17-22 | Amapa Control % May-17-22 | Rapra Control % May-17-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| TABLE OF R MEANS | | | | | | | | | | | | | | |
| Replicate 1 | | | | | | | | . | . | . | . | . | . | . |
| Replicate 2 | | | | | | | | 0.0 | 90.4 | 65.3 | 84.1 | 2.5 | 90.8 | 82.5 |
| Replicate 3 | | | | | | | | 0.0 | 90.8 | 65.3 | 78.0 | 5.8 | 90.4 | 82.5 |
| TABLE OF A (PRE) MEANS | | | | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 82.5 b | 66.2 a | 77.8 a | 4.2 a | 82.5 b | 82.5 a |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 98.7 a | 64.5 a | 84.3 a | 4.2 a | 98.7 a | 82.5 a |
| LSD P=.10 | | | | | | | | . | 1.72 | 37.80 | 17.61 | 8.59 | 1.72 | . |
| Standard Deviation | | | | | | | | 0.00 | 0.82 | 17.96 | 8.37 | 4.08 | 0.82 | 0.00 |
| CV | | | | | | | | 0.00 | 0.90 | 27.49 | 10.33 | 97.98 | 0.90 | 0.00 |
| | | | | | | | | | | | | | | |
| TABLE OF B (POST) MEANS | | | | | | | | | | | | | | |
| 1 | NO POST | | | | | | | 0.0 a | 48.5 b | 0.0 b | 32.5 c | 2.5 a | 48.5 b | 0.0 b |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 0.0 a | 99.0 a | 78.5 a | 73.5 b | 10.0 a | 99.0 a | 99.0 a |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 0.0 a | 99.0 a | 77.5 a | 92.3 a | 2.5 a | 99.0 a | 99.0 a |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 0.0 a | 99.0 a | 80.0 a | 91.0 a | 0.0 a | 99.0 a | 99.0 a |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 0.0 a | 99.0 a | 78.5 a | 98.0 a | 7.5 a | 99.0 a | 99.0 a |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 0.0 a | 99.0 a | 77.5 a | 99.0 a | 2.5 a | 99.0 a | 99.0 a |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| LSD P=.10 | | | | | | | | . | 0.95 | 15.85 | 9.09 | 7.95 | 0.95 | . |
| Standard Deviation | | | | | | | | 0.00 | 0.82 | 13.62 | 7.81 | 6.83 | 0.82 | 0.00 |
| CV | | | | | | | | 0.00 | 0.90 | 20.85 | 9.64 | 163.95 | 0.90 | 0.00 |
| | | | | | | | | | | | | | | |
| TABLE OF A (PRE) B (POST) MEANS | | | | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 0.0 c | 0.0 a | 0.0 d | 0.0 a | 0.0 c | 0.0 b |
| 1 | NO POST | | | | | | | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 97.0 b | 0.0 a | 65.0 c | 5.0 a | 97.0 b | 0.0 b |
| 1 | NO POST | | | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 99.0 a | 82.0 a | 82.0 b | 15.0 a | 99.0 a | 99.0 a |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Zeama Necrosis % May-5-22 | Amapa Control % May-5-22 | Rapra Control % May-5-22 | Agrass Control % May-5-22 | Zeama Plant, - Stunting % May-17-22 | Amapa Control % May-17-22 | Rapra Control % May-17-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | | | | | | | |
| | Crop Code | | | | | | | | | | | | | |
| | Part Rated | | | | | | | | | | | | | |
| | Rating Data Type | | | | | | | | | | | | | |
| | Rating Unit | | | | | | | | | | | | | |
| | Rating Date | | | | | | | | | | | | | |
| | | | | | | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 99.0 a | 75.0 a | 65.0 c | 5.0 a | 99.0 a | 99.0 a |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 99.0 a | 90.0 a | 94.5 a | 0.0 a | 99.0 a | 99.0 a |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 99.0 a | 65.0 a | 90.0 ab | 5.0 a | 99.0 a | 99.0 a |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | | | | | | | |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 99.0 a | 75.0 a | 92.0 ab | 0.0 a | 99.0 a | 99.0 a |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 99.0 a | 85.0 a | 90.0 ab | 0.0 a | 99.0 a | 99.0 a |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 99.0 a | 75.0 a | 99.0 a | 5.0 a | 99.0 a | 99.0 a |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 99.0 a | 82.0 a | 97.0 a | 10.0 a | 99.0 a | 99.0 a |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | | | | | | | |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 a | 99.0 a | 75.0 a | 99.0 a | 5.0 a | 99.0 a | 99.0 a |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | | | | | | | |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 0.0 a | 99.0 a | 80.0 a | 99.0 a | 0.0 a | 99.0 a | 99.0 a |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | | | | | | | |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| LSD P=.10 | | | | | | | | . | 1.34 | 25.55 | 11.09 | 9.96 | 1.34 | . |
| Standard Deviation | | | | | | | | 0.00 | 0.82 | 15.53 | 6.74 | 6.06 | 0.82 | 0.00 |
| CV | | | | | | | | 0.00 | 0.90 | 23.76 | 8.32 | 145.33 | 0.90 | 0.00 |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | Agrass | Amapa | Agrass | ----- | ----- |
| | Crop Code | | | | | | | | | | Zeama | Zeama |
| | Part Rated | | | | | | | | | | | |
| | Rating Data Type | | | | | | | Control | Control | Control | Yield | YIELD |
| | Rating Unit | | | | | | | % | % | % | Lbs/plot | BU/A |
| | Rating Date | | | | | | | May-17-22 | Jun-7-22 | Jun-7-22 | Aug-30-22 | Aug-30-22 |
| | TABLE OF R MEANS Replicate 1 | | | | | | | . | . | . | . | . |
| | Replicate 2 | | | | | | | 82.8 | 89.2 | 74.6 | 43.9 | 222.4 |
| | Replicate 3 | | | | | | | 76.4 | 90.8 | 65.0 | 41.2 | 208.5 |
| | TABLE OF A (PRE) MEANS | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 77.0 a | 83.3 b | 69.6 a | 41.6 b | 210.6 b |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 82.3 a | 96.7 a | 70.0 a | 43.5 a | 220.3 a |
| | LSD P=.10 | | | | | | | 8.16 | 8.59 | 23.63 | 1.29 | 6.53 |
| | Standard Deviation | | | | | | | 3.88 | 4.08 | 11.23 | 0.61 | 3.10 |
| | CV | | | | | | | 4.87 | 4.54 | 16.09 | 1.44 | 1.44 |
| | | | | | | | | | | | | |
| | TABLE OF B (POST) MEANS | | | | | | | | | | | |
| 1 | NO POST | | | | | | | 25.0 c | 41.3 b | 10.0 c | 35.0 d | 177.3 d |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 71.3 b | 100.0 a | 46.3 b | 38.5 cd | 195.0 cd |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 91.0 a | 100.0 a | 86.3 a | 45.0 ab | 227.9 ab |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 95.8 a | 100.0 a | 86.3 a | 48.3 a | 244.4 a |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 95.8 a | 98.8 a | 93.8 a | 42.5 bc | 215.3 bc |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 99.0 a | 100.0 a | 96.3 a | 46.0 ab | 233.0 ab |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| | LSD P=.10 | | | | | | | 11.06 | 3.52 | 10.79 | 5.74 | 29.09 |
| | Standard Deviation | | | | | | | 9.50 | 3.03 | 9.28 | 4.94 | 25.01 |
| | CV | | | | | | | 11.94 | 3.36 | 13.29 | 11.61 | 11.61 |
| | | | | | | | | | | | | |
| | TABLE OF A (PRE) B (POST) MEANS | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 0.0 e | 0.0 c | 0.0 a | 30.0 a | 151.9 a |
| 1 | NO POST | | | | | | | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 50.0 d | 82.5 b | 20.0 a | 40.0 a | 202.6 a |
| 1 | NO POST | | | | | | | | | | | |
| 1 | NO PRE | | | | | | | 70.0 c | 100.0 a | 52.5 a | 36.0 a | 182.3 a |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | | | | | |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Agrass Control % May-17-22 | Amapa Control % Jun-7-22 | Agrass Control % Jun-7-22 | ----- Zeama Yield Lbs/plot Aug-30-22 | ----- Zeama YIELD BU/A Aug-30-22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 15 | 16 | 17 | 18 | 19 |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 72.5 bc | 100.0 a | 40.0 a | 41.0 a | 207.7 a |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | | | | | |
| 2 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 2 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 2 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 1 | NO PRE | | | | | | | 97.0 a | 100.0 a | 92.5 a | 47.5 a | 240.6 a |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | | | | | |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 85.0 ab | 100.0 a | 80.0 a | 42.5 a | 215.3 a |
| 3 | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | | | | | |
| 3 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 3 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 3 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 1 | NO PRE | | | | | | | 97.0 a | 100.0 a | 82.5 a | 49.0 a | 248.2 a |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | | | | | |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 94.5 a | 100.0 a | 90.0 a | 47.5 a | 240.6 a |
| 4 | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | | | | | |
| 4 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 4 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 4 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 1 | NO PRE | | | | | | | 99.0 a | 100.0 a | 95.0 a | 41.5 a | 210.2 a |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | | | | | |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 92.5 a | 97.5 a | 92.5 a | 43.5 a | 220.3 a |
| 5 | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | | | | | |
| 5 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 5 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 5 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 1 | NO PRE | | | | | | | 99.0 a | 100.0 a | 95.0 a | 45.5 a | 230.4 a |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | | | | | |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| 2 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 99.0 a | 100.0 a | 97.5 a | 46.5 a | 235.5 a |
| 6 | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | | | | | |
| 6 | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | | | | | |
| 6 | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | |
| 6 | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | |
| LSD P=.10 | | | | | | | | 14.11 | 4.98 | 31.69 | 6.49 | 32.89 |
| Standard Deviation | | | | | | | | 8.58 | 3.03 | 19.26 | 3.95 | 19.99 |
| CV | | | | | | | | 10.77 | 3.36 | 27.60 | 9.28 | 9.28 |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Zeama Stunting % Apr-11-22 (Data Column 1)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 0.000000 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RA | 1 | 0.000000 | 0.000000 | | | |
| B | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RB | 5 | 0.000000 | 0.000000 | | | |
| AB | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RAB | 5 | 0.000000 | 0.000000 | | | |

COMPLETE FACTORIAL AOV For ----- Zeama Stunting % Apr-18-22 (Data Column 2)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 23.958333 | | | | |
| R | 1 | 1.041667 | 1.041667 | 1.000 | 0.3632 | |
| A | 1 | 1.041667 | 1.041667 | 1.000 | 0.5000 | 2.1 |
| RA | 1 | 1.041667 | 1.041667 | | | |
| B | 5 | 5.208333 | 1.041667 | 1.000 | 0.5000 | 1.2 |
| RB | 5 | 5.208333 | 1.041667 | | | |
| AB | 5 | 5.208333 | 1.041667 | 1.000 | 0.5000 | 1.7 |
| RAB | 5 | 5.208333 | 1.041667 | | | |

COMPLETE FACTORIAL AOV For Amapa ----- Control % Apr-18-22 (Data Column 3)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 58806.000000 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 58806.000000 | 58806.000000 | 0.000 | 1.0000 | . |
| RA | 1 | 0.000000 | 0.000000 | | | |
| B | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RB | 5 | 0.000000 | 0.000000 | | | |
| AB | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RAB | 5 | 0.000000 | 0.000000 | | | |

COMPLETE FACTORIAL AOV For Agrass ---- Control % Apr-18-22 (Data Column 4)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 41095.833333 | | | | |
| R | 1 | 337.500000 | 337.500000 | 7.105 | 0.0446 | |
| A | 1 | 39204.166667 | 39204.166667 | 116.161 | 0.0589 | 38.7 |
| RA | 1 | 337.500000 | 337.500000 | | | |
| B | 5 | 370.833333 | 74.166667 | 1.561 | 0.3184 | 8.0 |
| RB | 5 | 237.500000 | 47.500000 | | | |
| AB | 5 | 370.833333 | 74.166667 | 1.561 | 0.3184 | 11.3 |
| RAB | 5 | 237.500000 | 47.500000 | | | |

COMPLETE FACTORIAL AOV For Rapra ----- Control % Apr-18-22 (Data Column 5)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 0.000000 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RA | 1 | 0.000000 | 0.000000 | | | |
| B | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RB | 5 | 0.000000 | 0.000000 | | | |
| AB | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RAB | 5 | 0.000000 | 0.000000 | | | |

COMPLETE FACTORIAL AOV For Zeama Stunting % May-5-22 (Data Column 6)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 795.833333 | | | | |
| R | 1 | 16.666667 | 16.666667 | 0.625 | 0.4650 | |
| A | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | 4.3 |
| RA | 1 | 4.166667 | 4.166667 | | | |
| B | 5 | 258.333333 | 51.666667 | 2.138 | 0.2120 | 5.7 |
| RB | 5 | 120.833333 | 24.166667 | | | |
| AB | 5 | 262.500000 | 52.500000 | 1.969 | 0.2375 | 8.5 |
| RAB | 5 | 133.333333 | 26.666667 | | | |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Zeama Bleaching % May-5-22 (Data Column 7)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 845.833333 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 4.166667 | 4.166667 | 0.000 | 1.0000 | . |
| RA | 1 | 0.000000 | 0.000000 | | | |
| B | 5 | 708.333333 | 141.666667 | 18.889 | 0.0029 | 3.2 |
| RB | 5 | 37.500000 | 7.500000 | | | |
| AB | 5 | 33.333333 | 6.666667 | 0.533 | 0.7465 | 5.8 |
| RAB | 5 | 62.500000 | 12.500000 | | | |

COMPLETE FACTORIAL AOV For Zeama Necrosis % May-5-22 (Data Column 8)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 0.000000 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RA | 1 | 0.000000 | 0.000000 | | | |
| B | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RB | 5 | 0.000000 | 0.000000 | | | |
| AB | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RAB | 5 | 0.000000 | 0.000000 | | | |

COMPLETE FACTORIAL AOV For Amapa Control % May-5-22 (Data Column 9)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 17917.833333 | | | | |
| R | 1 | 0.666667 | 0.666667 | 1.000 | 0.3632 | |
| A | 1 | 1568.166667 | 1568.166667 | 2352.250 | 0.0131 | 1.7 |
| RA | 1 | 0.666667 | 0.666667 | | | |
| B | 5 | 8500.833333 | 1700.166667 | 2550.250 | 0.0001 | 0.9 |
| RB | 5 | 3.333333 | 0.666667 | | | |
| AB | 5 | 7840.833333 | 1568.166667 | 2352.250 | 0.0001 | 1.3 |
| RAB | 5 | 3.333333 | 0.666667 | | | |

COMPLETE FACTORIAL AOV For Rapra Control % May-5-22 (Data Column 10)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 23809.333333 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 16.666667 | 16.666667 | 0.052 | 0.8577 | 37.8 |
| RA | 1 | 322.666667 | 322.666667 | | | |
| B | 5 | 20505.333333 | 4101.066667 | 22.096 | 0.0020 | 15.8 |
| RB | 5 | 928.000000 | 185.600000 | | | |
| AB | 5 | 831.333333 | 166.266667 | 0.690 | 0.6533 | 25.5 |
| RAB | 5 | 1205.333333 | 241.066667 | | | |

COMPLETE FACTORIAL AOV For Agrass Control % May-5-22 (Data Column 11)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 18358.958333 | | | | |
| R | 1 | 222.041667 | 222.041667 | 4.886 | 0.0781 | |
| A | 1 | 260.041667 | 260.041667 | 3.713 | 0.3048 | 17.6 |
| RA | 1 | 70.041667 | 70.041667 | | | |
| B | 5 | 12992.208333 | 2598.441667 | 42.568 | 0.0004 | 9.1 |
| RB | 5 | 305.208333 | 61.041667 | | | |
| AB | 5 | 4282.208333 | 856.441667 | 18.847 | 0.0029 | 11.1 |
| RAB | 5 | 227.208333 | 45.441667 | | | |

COMPLETE FACTORIAL AOV For Zeama Plant Stunting % May-17-22 (Data Column 12)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 983.333333 | | | | |
| R | 1 | 66.666667 | 66.666667 | 1.818 | 0.2354 | |
| A | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | 8.6 |
| RA | 1 | 16.666667 | 16.666667 | | | |
| B | 5 | 283.333333 | 56.666667 | 1.214 | 0.4182 | 7.9 |
| RB | 5 | 233.333333 | 46.666667 | | | |
| AB | 5 | 200.000000 | 40.000000 | 1.091 | 0.4631 | 10.0 |
| RAB | 5 | 183.333333 | 36.666667 | | | |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For Amapa Control % May-17-22 (Data Column 13)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 17917.833333 | | | | |
| R | 1 | 0.666667 | 0.666667 | 1.000 | 0.3632 | |
| A | 1 | 1568.166667 | 1568.166667 | 2352.250 | 0.0131 | 1.7 |
| RA | 1 | 0.666667 | 0.666667 | | | |
| B | 5 | 8500.833333 | 1700.166667 | 2550.250 | 0.0001 | 0.9 |
| RB | 5 | 3.333333 | 0.666667 | | | |
| AB | 5 | 7840.833333 | 1568.166667 | 2352.250 | 0.0001 | 1.3 |
| RAB | 5 | 3.333333 | 0.666667 | | | |

COMPLETE FACTORIAL AOV For Rapra Control % May-17-22 (Data Column 14)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 32670.000000 | | | | |
| R | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| A | 1 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RA | 1 | 0.000000 | 0.000000 | | | |
| B | 5 | 32670.000000 | 6534.000000 | 0.000 | 1.0000 | . |
| RB | 5 | 0.000000 | 0.000000 | | | |
| AB | 5 | 0.000000 | 0.000000 | 0.000 | 1.0000 | . |
| RAB | 5 | 0.000000 | 0.000000 | | | |

COMPLETE FACTORIAL AOV For Agrass Control % May-17-22 (Data Column 15)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 20095.625000 | | | | |
| R | 1 | 247.041667 | 247.041667 | 3.359 | 0.1263 | |
| A | 1 | 165.375000 | 165.375000 | 10.994 | 0.1865 | 8.2 |
| RA | 1 | 15.041667 | 15.041667 | | | |
| B | 5 | 16315.375000 | 3263.075000 | 36.119 | 0.0006 | 11.1 |
| RB | 5 | 451.708333 | 90.341667 | | | |
| AB | 5 | 2533.375000 | 506.675000 | 6.890 | 0.0270 | 14.1 |
| RAB | 5 | 367.708333 | 73.541667 | | | |

COMPLETE FACTORIAL AOV For Amapa Control % Jun-7-22 (Data Column 16)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 18350.000000 | | | | |
| R | 1 | 16.666667 | 16.666667 | 1.818 | 0.2354 | |
| A | 1 | 1066.666667 | 1066.666667 | 64.000 | 0.0792 | 8.6 |
| RA | 1 | 16.666667 | 16.666667 | | | |
| B | 5 | 11412.500000 | 2282.500000 | 249.000 | 0.0001 | 3.5 |
| RB | 5 | 45.833333 | 9.166667 | | | |
| AB | 5 | 5745.833333 | 1149.166667 | 125.364 | 0.0001 | 5.0 |
| RAB | 5 | 45.833333 | 9.166667 | | | |

COMPLETE FACTORIAL AOV For Agrass Control % Jun-7-22 (Data Column 17)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 27523.958333 | | | | |
| R | 1 | 551.041667 | 551.041667 | 1.485 | 0.2773 | |
| A | 1 | 1.041667 | 1.041667 | 0.008 | 0.9423 | 23.6 |
| RA | 1 | 126.041667 | 126.041667 | | | |
| B | 5 | 23780.208333 | 4756.041667 | 55.276 | 0.0002 | 10.8 |
| RB | 5 | 430.208333 | 86.041667 | | | |
| AB | 5 | 780.208333 | 156.041667 | 0.421 | 0.8182 | 31.7 |
| RAB | 5 | 1855.208333 | 371.041667 | | | |

COMPLETE FACTORIAL AOV For ----- Zeama Yield Lbs/plot Aug-30-22 (Data Column 18)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 897.958333 | | | | |
| R | 1 | 45.375000 | 45.375000 | 2.913 | 0.1486 | |
| A | 1 | 22.041667 | 22.041667 | 58.778 | 0.0826 | 1.3 |
| RA | 1 | 0.375000 | 0.375000 | | | |
| B | 5 | 495.208333 | 99.041667 | 4.063 | 0.0750 | 5.7 |
| RB | 5 | 121.875000 | 24.375000 | | | |
| AB | 5 | 135.208333 | 27.041667 | 1.736 | 0.2798 | 6.5 |
| RAB | 5 | 77.875000 | 15.575000 | | | |

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

COMPLETE FACTORIAL AOV For ----- Zeama YIELD BU/A Aug-30-22 (Data Column 19)

| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | LSD (.10) |
|---|---|---|---|---|---|---|
| Total | 23 | 23034.756617 | | | | |
| R | 1 | 1163.976148 | 1163.976148 | 2.913 | 0.1486 | |
| A | 1 | 565.420920 | 565.420920 | 58.778 | 0.0826 | 6.5 |
| RA | 1 | 9.619638 | 9.619638 | | | |
| B | 5 | 12703.265853 | 2540.653171 | 4.063 | 0.0750 | 29.1 |
| RB | 5 | 3126.382214 | 625.276443 | | | |
| AB | 5 | 3468.413773 | 693.682755 | 1.736 | 0.2798 | 32.9 |
| RAB | 5 | 1997.678071 | 399.535614 | | | |

Part Rated
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Rating Data Type
Yield = YIELD
Rating Unit
% = PERCENT
ARM Action Codes
TY1 = 5.06481657*[18]

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.

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | | Zeama | ----- Zeama | Amapa ----- | Agrass ---- | Rapra ----- | Zeama |
| | Crop Code | | | | | | | | | | | | | |
| | Part Rated | | | | | | | | | | | | | |
| | Rating Data Type | | | | | | | | Stunting | Stunting | Control | Control | Control | Stunting |
| | Rating Unit | | | | | | | | % | % | % | % | % | % |
| | Rating Date | | | | | | | | Apr-11-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | May-5-22 |
| 1 | NO PRE | | | | | | | 101 | . | . | . | . | . | . |
| | NO POST | | | | | | | 211 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 303 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | NO PRE | | | | | | | 102 | . | . | . | . | . | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 201 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 312 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5 |
| 3 | NO PRE | | | | | | | 103 | . | . | . | . | . | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 206 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 302 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| 4 | NO PRE | | | | | | | 104 | . | . | . | . | . | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 208 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 305 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.0 |
| 5 | NO PRE | | | | | | | 105 | . | . | . | . | . | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 203 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 309 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.0 |
| 6 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 106 | . | . | . | . | . | . |
| | NO POST | | | | | | | 202 | 0.0 | 0.0 | 99.0 | 85.0 | 0.0 | 10.0 |
| | | | | | | | | 306 | 0.0 | 0.0 | 99.0 | 85.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 85.0 | 0.0 | 5.0 |
| 7 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 107 | . | . | . | . | . | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 212 | 0.0 | 5.0 | 99.0 | 65.0 | 0.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 308 | 0.0 | 0.0 | 99.0 | 65.0 | 0.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 2.5 | 99.0 | 65.0 | 0.0 | 0.0 |
| 8 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 108 | . | . | . | . | . | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 210 | 0.0 | 0.0 | 99.0 | 95.0 | 0.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 311 | 0.0 | 0.0 | 99.0 | 65.0 | 0.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 80.0 | 0.0 | 0.0 |
| 9 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 109 | . | . | . | . | . | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 205 | 0.0 | 0.0 | 99.0 | 95.0 | 0.0 | 10.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 304 | 0.0 | 0.0 | 99.0 | 85.0 | 0.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 90.0 | 0.0 | 10.0 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | | Zeama | ----- Zeama | Amapa ----- | Agrass ---- | Rapra ----- | Zeama |
| | Crop Code | | | | | | | | | | | | | |
| | Part Rated | | | | | | | | | | | | | |
| | Rating Data Type | | | | | | | | Stunting | Stunting | Control | Control | Control | Stunting |
| | Rating Unit | | | | | | | | % | % | % | % | % | % |
| | Rating Date | | | | | | | | Apr-11-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | Apr-18-22 | May-5-22 |
| 10 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 110 | . | . | . | . | . | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 207 | 0.0 | 0.0 | 99.0 | 95.0 | 0.0 | 5.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 301 | 0.0 | 0.0 | 99.0 | 65.0 | 0.0 | 20.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 80.0 | 0.0 | 12.5 |
| 11 | NO PRE | | | | | | | 111 | . | . | . | . | | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 204 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 310 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 112 | . | . | . | . | . | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 209 | 0.0 | 0.0 | 99.0 | 95.0 | 0.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 307 | 0.0 | 0.0 | 99.0 | 75.0 | 0.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 85.0 | 0.0 | 5.0 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | Zeama Bleaching % May-5-22 (7) | Zeama Necrosis % May-5-22 (8) | Amapa Control % May-5-22 (9) | Rapra Control % May-5-22 (10) | Agrass Control % May-5-22 (11) | Zeama Plant, - Stunting % May-17-22 (12) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NO PRE | | | | | | | 101 | . | . | . | . | . | . |
| | NO POST | | | | | | | 211 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 303 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | NO PRE | | | | | | | 102 | . | . | . | . | . | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 201 | 10.0 | 0.0 | 99.0 | 99.0 | 99.0 | 10.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 312 | 10.0 | 0.0 | 99.0 | 65.0 | 65.0 | 20.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 10.0 | 0.0 | 99.0 | 82.0 | 82.0 | 15.0 |
| 3 | NO PRE | | | | | | | 103 | . | . | . | . | . | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 206 | 0.0 | 0.0 | 99.0 | 85.0 | 99.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 302 | 0.0 | 0.0 | 99.0 | 95.0 | 90.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 90.0 | 94.5 | 0.0 |
| 4 | NO PRE | | | | | | | 104 | . | . | . | . | . | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 208 | 15.0 | 0.0 | 99.0 | 65.0 | 99.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 305 | 15.0 | 0.0 | 99.0 | 85.0 | 85.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 15.0 | 0.0 | 99.0 | 75.0 | 92.0 | 0.0 |
| 5 | NO PRE | | | | | | | 105 | . | . | . | . | . | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 203 | 15.0 | 0.0 | 99.0 | 85.0 | 99.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 309 | 10.0 | 0.0 | 99.0 | 65.0 | 99.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 12.5 | 0.0 | 99.0 | 75.0 | 99.0 | 5.0 |
| 6 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 106 | . | . | . | . | . | . |
| | NO POST | | | | | | | 202 | 10.0 | 0.0 | 95.0 | 0.0 | 65.0 | 10.0 |
| | | | | | | | | 306 | 0.0 | 0.0 | 99.0 | 0.0 | 65.0 | 0.0 |
| | | | | | | | | Mean = | 5.0 | 0.0 | 97.0 | 0.0 | 65.0 | 5.0 |
| 7 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 107 | . | . | . | . | . | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 212 | 5.0 | 0.0 | 99.0 | 85.0 | 65.0 | 10.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 308 | 10.0 | 0.0 | 99.0 | 65.0 | 65.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 7.5 | 0.0 | 99.0 | 75.0 | 65.0 | 5.0 |
| 8 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 108 | . | . | . | . | . | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 210 | 0.0 | 0.0 | 99.0 | 65.0 | 95.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 311 | 0.0 | 0.0 | 99.0 | 65.0 | 85.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 0.0 | 0.0 | 99.0 | 65.0 | 90.0 | 5.0 |
| 9 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 109 | . | . | . | . | . | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 205 | 15.0 | 0.0 | 99.0 | 85.0 | 95.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 304 | 15.0 | 0.0 | 99.0 | 85.0 | 85.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 15.0 | 0.0 | 99.0 | 85.0 | 90.0 | 0.0 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | Zeama Bleaching % May-5-22 (7) | Zeama Necrosis % May-5-22 (8) | Amapa Control % May-5-22 (9) | Rapra Control % May-5-22 (10) | Agrass Control % May-5-22 (11) | Zeama Plant, - Stunting % May-17-22 (12) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 110 | . | . | . | . | . | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 207 | 10.0 | 0.0 | 99.0 | 65.0 | 95.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 301 | 15.0 | 0.0 | 99.0 | 99.0 | 99.0 | 20.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 12.5 | 0.0 | 99.0 | 82.0 | 97.0 | 10.0 |
| 11 | NO PRE | | | | | | | 111 | . | . | . | . | . | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 204 | 0.0 | 0.0 | 99.0 | 85.0 | 99.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 310 | 5.0 | 0.0 | 99.0 | 65.0 | 99.0 | 10.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 2.5 | 0.0 | 99.0 | 75.0 | 99.0 | 5.0 |
| 12 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 112 | . | . | . | . | . | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 209 | 5.0 | 0.0 | 99.0 | 65.0 | 99.0 | 0.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 307 | 5.0 | 0.0 | 99.0 | 95.0 | 99.0 | 0.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 5.0 | 0.0 | 99.0 | 80.0 | 99.0 | 0.0 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | Amapa Control % May-17-22 (13) | Rapra Control % May-17-22 (14) | Agrass Control % May-17-22 (15) | Amapa Control % Jun-7-22 (16) | Agrass Control % Jun-7-22 (17) | ----- Zeama Yield Lbs/plot Aug-30-22 (18) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | NO PRE | | | | | | | 101 | . | . | . | . | . | . |
| | NO POST | | | | | | | 211 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.0 |
| | | | | | | | | 303 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30.0 |
| 2 | NO PRE | | | | | | | 102 | . | . | . | . | . | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 201 | 99.0 | 99.0 | 90.0 | 100.0 | 85.0 | 40.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 312 | 99.0 | 99.0 | 50.0 | 100.0 | 20.0 | 32.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 70.0 | 100.0 | 52.5 | 36.0 |
| 3 | NO PRE | | | | | | | 103 | . | . | . | . | . | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 206 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 48.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 302 | 99.0 | 99.0 | 95.0 | 100.0 | 90.0 | 47.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 97.0 | 100.0 | 92.5 | 47.5 |
| 4 | NO PRE | | | | | | | 104 | . | . | . | . | . | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 208 | 99.0 | 99.0 | 99.0 | 100.0 | 90.0 | 53.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 305 | 99.0 | 99.0 | 95.0 | 100.0 | 75.0 | 45.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 97.0 | 100.0 | 82.5 | 49.0 |
| 5 | NO PRE | | | | | | | 105 | . | . | . | . | . | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 203 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 42.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 309 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 41.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 41.5 |
| 6 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 106 | . | . | . | . | . | . |
| | NO POST | | | | | | | 202 | 99.0 | 0.0 | 50.0 | 75.0 | 20.0 | 39.0 |
| | | | | | | | | 306 | 95.0 | 0.0 | 50.0 | 90.0 | 20.0 | 41.0 |
| | | | | | | | | Mean = | 97.0 | 0.0 | 50.0 | 82.5 | 20.0 | 40.0 |
| 7 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 107 | . | . | . | . | . | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 212 | 99.0 | 99.0 | 75.0 | 100.0 | 30.0 | 38.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 308 | 99.0 | 99.0 | 70.0 | 100.0 | 50.0 | 44.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 72.5 | 100.0 | 40.0 | 41.0 |
| 8 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 108 | . | . | . | . | . | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 210 | 99.0 | 99.0 | 95.0 | 100.0 | 95.0 | 46.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 311 | 99.0 | 99.0 | 75.0 | 100.0 | 65.0 | 39.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 85.0 | 100.0 | 80.0 | 42.5 |
| 9 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 109 | . | . | . | . | . | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 205 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 51.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 304 | 99.0 | 99.0 | 90.0 | 100.0 | 85.0 | 44.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 94.5 | 100.0 | 90.0 | 47.5 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | Amapa Control % May-17-22 (13) | Rapra Control % May-17-22 (14) | Agrass Control % May-17-22 (15) | Amapa Control % Jun-7-22 (16) | Agrass Control % Jun-7-22 (17) | ----- Zeama Yield Lbs/plot Aug-30-22 (18) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 110 | . | . | . | . | . | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 207 | 99.0 | 99.0 | 90.0 | 95.0 | 95.0 | 46.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 301 | 99.0 | 99.0 | 95.0 | 100.0 | 90.0 | 41.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 92.5 | 97.5 | 92.5 | 43.5 |
| 11 | NO PRE | | | | | | | 111 | . | . | . | . | . | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 204 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 49.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 310 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 42.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 45.5 |
| 12 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 112 | . | . | . | . | . | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 209 | 99.0 | 99.0 | 99.0 | 100.0 | 100.0 | 50.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 307 | 99.0 | 99.0 | 99.0 | 100.0 | 95.0 | 43.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | | | | | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | | | | | | |
| | | | | | | | | Mean = | 99.0 | 99.0 | 99.0 | 100.0 | 97.5 | 46.5 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | 19 |
|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | | ----- |
| | Crop Code | | | | | | | | Zeama |
| | Part Rated | | | | | | | | |
| | Rating Data Type | | | | | | | | YIELD |
| | Rating Unit | | | | | | | | BU/A |
| | Rating Date | | | | | | | | Aug-30-22 |
| 1 | NO PRE | | | | | | | 101 | . |
| | NO POST | | | | | | | 211 | 126.6 |
| | | | | | | | | 303 | 177.3 |
| | | | | | | | | Mean = | 151.9 |
| 2 | NO PRE | | | | | | | 102 | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 201 | 202.6 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 312 | 162.1 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 182.3 |
| 3 | NO PRE | | | | | | | 103 | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 206 | 243.1 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 302 | 238.0 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 240.6 |
| 4 | NO PRE | | | | | | | 104 | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 208 | 268.4 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 305 | 227.9 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 248.2 |
| 5 | NO PRE | | | | | | | 105 | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 203 | 212.7 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 309 | 207.7 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 210.2 |
| 6 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 106 | . |
| | NO POST | | | | | | | 202 | 197.5 |
| | | | | | | | | 306 | 207.7 |
| | | | | | | | | Mean = | 202.6 |
| 7 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 107 | . |
| | CALLISTO | 4 | SC | 3.0 | oz/a | POST | B | 212 | 192.5 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 308 | 222.9 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 207.7 |
| 8 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 108 | . |
| | LAUDIS | 3.5 | SC | 3.0 | oz/a | POST | B | 210 | 233.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 311 | 197.5 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 215.3 |
| 9 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 109 | . |
| | IMPACT | 2.8 | SC | 1.0 | oz/a | POST | B | 205 | 258.3 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 304 | 222.9 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 240.6 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1
Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Rate Unit | Grow Stg | Appl Code | Plot | 19 |
|---|---|---|---|---|---|---|---|---|---|
| | Weed Code | | | | | | | | ----- |
| | Crop Code | | | | | | | | Zeama |
| | Part Rated | | | | | | | | |
| | Rating Data Type | | | | | | | | YIELD |
| | Rating Unit | | | | | | | | BU/A |
| | Rating Date | | | | | | | | Aug-30-22 |
| 10 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 110 | . |
| | SHIELDEX | 3.33 | SC | 1.0 | oz/a | POST | B | 207 | 233.0 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 301 | 207.7 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 220.3 |
| 11 | NO PRE | | | | | | | 111 | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 204 | 248.2 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 310 | 212.7 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 230.4 |
| 12 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 112 | . |
| | REVULIN Q | 51.2 | DG | 3.5 | oz/a | POST | B | 209 | 253.2 |
| | ATRAZINE | 4 | L | 64.0 | oz/a | POST | B | 307 | 217.8 |
| | PROWL H20 | 3.8 | SC | 32.0 | oz/a | POST | B | | |
| | AGRIDEX | | | 1.0 | % v/v | POST | B | | |
| | | | | | | | | Mean = | 235.5 |

# University of Georgia

WEED CONTROL IN FIELD CORN WITH HPPD HERBICIDES
NO ROUNDUP OR LIBERTY - TEST 1

Trial ID: CN-01-22 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Rating Data Type
Yield = YIELD
Rating Unit
% = PERCENT
ARM Action Codes
TY1 = 5.06481657*[18]