

University of Georgia

RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate | Grow Unit | Appl Stg | Appl Code | Amt Product to Measure | Diluent | Rep | | | |
|---------|----------------|-----------|-----------|-----------|-----------|----------|-----------|------------------------|-----------|-----|-----|-----|-----|
| | | | | | | | | | | 1 | 2 | 3 | 4 |
| 1 | NTC | | | | | | | | - | 101 | 210 | 312 | 405 |
| 2 | CALLISTO | 4 | SC | 3.0 | oz/a | PRE | A | 2.343 mL/mx | 1497.7 mL | 102 | 206 | 303 | 401 |
| 3 | IMPACT | 2.8 | L | 1.0 | oz/a | PRE | A | 0.7812 mL/mx | 1499.2 mL | 103 | 212 | 311 | 412 |
| 4 | IMPACT Z | 4.26 | L | 8.0 | oz/a | PRE | A | 6.249 mL/mx | 1493.8 mL | 104 | 201 | 304 | 407 |
| 5 | IMPACT Z | 4.26 | L | 10.7 | oz/a | PRE | A | 8.358 mL/mx | 1491.6 mL | 105 | 203 | 305 | 406 |
| 6 | LAUDIS | 3.5 | SL | 3.0 | oz/a | PRE | A | 2.343 mL/mx | 1497.7 mL | 106 | 208 | 309 | 410 |
| 7 | PROWL H2O | 3.8 | AS | 32.0 | oz/a | PRE | A | 25.0 mL/mx | 1475 mL | 107 | 211 | 306 | 404 |
| 8 | DUAL II MAGNUM | 7.64 | EC | 16.0 | oz/a | PRE | A | 12.5 mL/mx | 1487.5 mL | 108 | 209 | 307 | 408 |
| 9 | ZIDUA | 4.17 | SC | 2.45 | oz/a | PRE | A | 1.914 mL/mx | 1498.1 mL | 109 | 207 | 301 | 403 |
| 10 | WARRANT | 3 | ME | 48.0 | oz/a | PRE | A | 37.5 mL/mx | 1462.5 mL | 110 | 202 | 308 | 411 |
| 11 | ATRAZINE | 4 | L | 32.0 | oz/a | PRE | A | 25.0 mL/mx | 1475 mL | 111 | 204 | 302 | 409 |
| 12 | NTC | | | | | | | | - | 112 | 205 | 310 | 402 |

Sort Order: Treatment

Trial Comments

CALLISTO = MESOTRIONE
 IMPACT = TOPRAMEZONE
 LAUDIS = TEMBOTRIONE
 IMPACT Z = TOPRAMEZONE (0.26 LBS/GAL) + ATRAZINE (4 LB/GAL)

LAST TILLAGE ON APRIL 8.

ANNUAL GRASS: A NON-UNIFORM MIXTURE OF ANNUAL GRASSES INCLUDING TEXAS PANICUM, CRABGRASS, GOOSEGRASS, CROWFOOTGRASS.

SUMMARY:

1) AT 50 DAT, THE FOLLOWING OBSERVATIONS WERE MADE:

A) ALL TREATMENTS PROVIDED 90%+ CONTROL OF PALMER AMARANTH EXCEPT THE FOLLOWING:

LAUDIS (88% CONTROL)
 PROWL H2O (75% CONTROL)
 ATRAZINE (86% CONTROL)

B) ALL TREATMENTS PROVIDED 89%+ CONTROL OF WILD RADISH EXCEPT THE FOLLOWING:

DUAL II MAGNUM (81% CONTROL)
 WARRANT (87% CONTROL)

C) THE ONLY TREATMENTS THAT PROVIDED 95%+ CONTROL OF ANNUAL GRASSES WERE PROWL H2O, DUAL II MAGNUM, AND ZIDUA. IMPACT AND LAUDIS PROVIDED 83-90% CONTROL OF ANNUAL GRASSES.

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 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 Status: E **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS TX PANIC/CROW/CRAB/GOOSE
Weed 3. RAPRA WILD RADISH **4.** _____

Crop 1: _____ **BAREGROUND Variety:** _____ **Planting Date:** _____
Planting Method: _____ **Rate:** _____ **Depth:** _____
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** _____ **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: _____

| Previous: Crops | Pesticides | Year |
|-----------------|------------|-------|
| 1. PEANUT | 2018 | _____ |

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.91 **% Sand:** 94 **% Silt:** 0 **% Clay:** 6
pH: 6.0 **CEC:** 3.6 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

| On: | Date | Time | Amount | Unit | Type | Interval | Unit |
|-----|-----------|-------|--------|-----------------------------|-------|----------|-------|
| 1. | Apr-9-19 | _____ | 0.16 | IN RAIN | _____ | _____ | _____ |
| 2. | Apr-11-19 | _____ | 0.50 | IN SPRINKLER - LATERAL MOVE | _____ | _____ | _____ |
| 3. | Apr-14-19 | _____ | 0.83 | IN RAINFALL | _____ | _____ | _____ |
| 4. | Apr-19-19 | _____ | 1.43 | IN RAINFALL | _____ | _____ | _____ |
| 5. | Apr-25-19 | _____ | 0.05 | IN RAINFALL | _____ | _____ | _____ |
| 6. | Apr-26-19 | _____ | 0.03 | IN RAINFALL | _____ | _____ | _____ |
| 7. | Apr-29-19 | _____ | 0.5 | IN SPRINKLER - LATERAL MOVE | _____ | _____ | _____ |
| 8. | May-6-19 | _____ | 0.75 | IN SPRINKLER - LATERAL MOVE | _____ | _____ | _____ |
| 9. | May-9-19 | _____ | 0.195 | IN RAINFALL | _____ | _____ | _____ |
| 10. | May-10-19 | _____ | 0.11 | IN RAINFALL | _____ | _____ | _____ |
| 11. | May-11-19 | _____ | 0.65 | IN RAINFALL | _____ | _____ | _____ |
| 12. | May-12-19 | _____ | 0.27 | IN RAINFALL | _____ | _____ | _____ |
| 13. | May-17-19 | _____ | 0.62 | IN RAINFALL | _____ | _____ | _____ |

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

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| | | | |
|--|-------------|---------------|-----------------|
| RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES | | | |
| BARE-GROUND/NON-CROP | | | |
| Trial ID: | CN-02-19 | Study Dir.: | |
| Location: | PONDER FARM | Investigator: | Eric P. Prostko |

| | | APPLICATION DESCRIPTION | | | | | |
|----------------------|-----------|-------------------------|-------|-------|-------|-------|-------|
| | | A | B | C | D | E | F |
| Application Date: | Apr-10-19 | _____ | _____ | _____ | _____ | _____ | _____ |
| Time of Day: | 7:55 AM | _____ | _____ | _____ | _____ | _____ | _____ |
| Application Method: | BROADCAST | _____ | _____ | _____ | _____ | _____ | _____ |
| Application Timing: | PRE | _____ | _____ | _____ | _____ | _____ | _____ |
| Applic. Placement: | SOIL | _____ | _____ | _____ | _____ | _____ | _____ |
| Air Temp., Unit: | 62 F | _____ | _____ | _____ | _____ | _____ | _____ |
| % Relative Humidity: | 96 | _____ | _____ | _____ | _____ | _____ | _____ |
| Wind Velocity, Unit: | 2 MPH | _____ | _____ | _____ | _____ | _____ | _____ |
| Dew Presence (Y/N): | N | _____ | _____ | _____ | _____ | _____ | _____ |
| Water Hardness: | -- | _____ | _____ | _____ | _____ | _____ | _____ |
| Soil Temp., Unit: | 66 F | _____ | _____ | _____ | _____ | _____ | _____ |
| Soil Moisture: | OPTIMUM | _____ | _____ | _____ | _____ | _____ | _____ |
| % Cloud Cover: | 0 | _____ | _____ | _____ | _____ | _____ | _____ |

| | | CROP STAGE AT EACH APPLICATION | | | | | |
|--------|---------------------|--------------------------------|-------|-------|-------|-------|-------|
| | | A | B | C | D | E | F |
| Crop 1 | Stage: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| | Stage Scale: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| | Height, Unit: _____ | _____ | _____ | _____ | _____ | _____ | _____ |

| | | WEED STAGE AT EACH APPLICATION | | | | | |
|--------|----------------------|--------------------------------|-------|-------|-------|-------|-------|
| | | A | B | C | D | E | F |
| Weed 1 | Stage: AMAPA | _____ | _____ | _____ | _____ | _____ | _____ |
| | Stage Scale: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| | Density, Unit: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Weed 2 | Stage: AGRASS | _____ | _____ | _____ | _____ | _____ | _____ |
| | Stage Scale: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| | Density, Unit: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Weed 3 | Stage: RAPRA | _____ | _____ | _____ | _____ | _____ | _____ |
| | Stage Scale: _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| | Density, Unit: _____ | _____ | _____ | _____ | _____ | _____ | _____ |

| | | APPLICATION EQUIPMENT | | | | | |
|-----------------------|----------|-----------------------|-------|-------|-------|-------|-------|
| | | A | B | C | D | E | F |
| Appl. Equipment: | BACKPACK | _____ | _____ | _____ | _____ | _____ | _____ |
| Operating Pressure: | 28 | _____ | _____ | _____ | _____ | _____ | _____ |
| Nozzle Type: | AIXR | _____ | _____ | _____ | _____ | _____ | _____ |
| Nozzle Size: | 11002 | _____ | _____ | _____ | _____ | _____ | _____ |
| Nozzle Spacing, Unit: | 15 | IN | _____ | _____ | _____ | _____ | _____ |
| Nozzles/Row: | 2 | _____ | _____ | _____ | _____ | _____ | _____ |
| Band Width, Unit: | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Boom Length, Unit: | 60 | IN | _____ | _____ | _____ | _____ | _____ |
| Boom Height, Unit: | 20 | IN | _____ | _____ | _____ | _____ | _____ |
| Ground Speed, Unit: | 3.5 | MPH | _____ | _____ | _____ | _____ | _____ |
| Incorporation Equip.: | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Hours to Incorp.: | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Incorp. Depth, Unit: | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Carrier: | WATER | _____ | _____ | _____ | _____ | _____ | _____ |
| Spray Volume, Unit: | 15 | GPA | _____ | _____ | _____ | _____ | _____ |
| Spray pH: | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Propellant: | CO2 | _____ | _____ | _____ | _____ | _____ | _____ |
| Tank Mix (Y/N): | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

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

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| RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES | | | | | | | | | | | | | |
|---|----------------|------------------|-------------|---------------|-------------------|--|--|---|---|--|--|--------|----------|
| BARE-GROUND/NON-CROP | | | | | | | | | | | | | |
| Trial ID: | | CN-02-19 | | Study Dir.: | | | | | | | | | |
| Location: | | PONDER FARM | | Investigator: | | Eric P. Prostko | | | | | | | |
| Weed Code | Crop Code | Rating Data Type | Rating Unit | Rating Date | Trt-Eval Interval | AMAPA ----- Control Percent Apr-23-19 13 DA-A | RAPRA ----- Control Percent Apr-23-19 13 DA-A | AMAPA ----- Control Percent May-2-19 22 DA-A | RAPRA ----- Control Percent May-2-19 22 DA-A | AGRASS ----- Control Percent May-2-19 22 DA-A | AMAPA ----- Control Percent May-10-19 30 DA-A | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Appl Stg | Code | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | NTC | | | | | | | 0.0 b | 0.0 c | 0.0 c | 0.0 c | 0.0 c | 0.0 f |
| 2 | CALLISTO | 4 | SC | 3.0 oz/a | PRE | A | | 99.0 a | 98.0 a | 99.0 a | 86.8 ab | 93.5 a | 90.0 de |
| 3 | IMPACT | 2.8 | L | 1.0 oz/a | PRE | A | | 99.0 a | 95.5 a | 98.0 a | 90.5 ab | 93.5 a | 92.5 cd |
| 4 | IMPACT Z | 4.26 | L | 8.0 oz/a | PRE | A | | 99.0 a | 99.0 a | 99.0 a | 99.0 a | 96.8 a | 97.0 abc |
| 5 | IMPACT Z | 4.26 | L | 10.7 oz/a | PRE | A | | 99.0 a | 99.0 a | 98.0 a | 95.8 a | 98.0 a | 99.0 a |
| 6 | LAUDIS | 3.5 | SL | 3.0 oz/a | PRE | A | | 99.0 a | 98.0 a | 97.0 a | 98.0 a | 98.0 a | 93.8 bcd |
| 7 | PROWL H20 | 3.8 | AS | 32.0 oz/a | PRE | A | | 99.0 a | 95.8 a | 94.5 b | 78.3 b | 98.0 a | 86.0 e |
| 8 | DUAL II MAGNUM | 7.64 | EC | 16.0 oz/a | PRE | A | | 99.0 a | 74.3 b | 99.0 a | 85.8 ab | 99.0 a | 98.0 ab |
| 9 | ZIDUA | 4.17 | SC | 2.45 oz/a | PRE | A | | 99.0 a | 99.0 a | 99.0 a | 99.0 a | 99.0 a | 99.0 a |
| 10 | WARRANT | 3 | ME | 48.0 oz/a | PRE | A | | 99.0 a | 93.3 a | 99.0 a | 87.0 ab | 95.5 a | 98.0 ab |
| 11 | ATRAZINE | 4 | L | 32.0 oz/a | PRE | A | | 99.0 a | 99.0 a | 99.0 a | 99.0 a | 83.5 b | 91.0 d |
| 12 | NTC | | | | | | | 0.0 b | 0.0 c | 0.0 c | 0.0 c | 0.0 c | 0.0 f |
| LSD P=.10 | | | | | | | | . | 16.93 | 2.23 | 15.21 | 6.27 | 4.83 |
| Standard Deviation | | | | | | | | 0.00 | 14.15 | 1.86 | 12.71 | 5.24 | 4.03 |
| CV | | | | | | | | 0.0 | 17.86 | 2.27 | 16.6 | 6.58 | 5.13 |
| Grand Mean | | | | | | | | 82.50 | 79.23 | 81.79 | 76.58 | 79.56 | 78.69 |
| Bartlett's X2 | | | | | | | | 0.00 | 43.033 | 4.352 | 17.065 | 18.746 | 15.206 |
| P(Bartlett's X2) | | | | | | | | . | 0.001* | 0.226 | 0.009* | 0.009* | 0.033* |

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.

Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

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| RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES | | | | | | | |
|---|----------------|---------------|-----------------|-----------|-----------|-----------|--------|
| BARE-GROUND/NON-CROP | | | | | | | |
| Trial ID: | CN-02-19 | Study Dir.: | | | | | |
| Location: | PONDER FARM | Investigator: | Eric P. Prostko | | | | |
| Weed Code | RAPRA | AGRASS | AMAPA | RAPRA | AGRASS | AMAPA | |
| Crop Code | ----- | ----- | ----- | ----- | ----- | ----- | |
| Rating Data Type | Control | Control | Control | Control | Control | Control | |
| Rating Unit | Percent | Percent | Percent | Percent | Percent | Percent | |
| Rating Date | May-10-19 | May-10-19 | May-16-19 | May-16-19 | May-16-19 | May-30-19 | |
| Trt-Eval Interval | 30 DA-A | 30 DA-A | 36 DA-A | 36 DA-A | 36 DA-A | 50 DA-A | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Appl Stg | Code |
| 7 | 8 | 9 | 10 | 11 | 12 | | |
| 1 | NTC | | | | | | |
| 2 | CALLISTO | 4 SC | | 3.0 oz/a | PRE | A | |
| 3 | IMPACT | 2.8 L | | 1.0 oz/a | PRE | A | |
| 4 | IMPACT Z | 4.26 L | | 8.0 oz/a | PRE | A | |
| 5 | IMPACT Z | 4.26 L | | 10.7 oz/a | PRE | A | |
| 6 | LAUDIS | 3.5 SL | | 3.0 oz/a | PRE | A | |
| 7 | PROWL H20 | 3.8 AS | | 32.0 oz/a | PRE | A | |
| 8 | DUAL II MAGNUM | 7.64 EC | | 16.0 oz/a | PRE | A | |
| 9 | ZIDUA | 4.17 SC | | 2.45 oz/a | PRE | A | |
| 10 | WARRANT | 3 ME | | 48.0 oz/a | PRE | A | |
| 11 | ATRAZINE | 4 L | | 32.0 oz/a | PRE | A | |
| 12 | NTC | | | | | | |
| LSD | P=.10 | 14.17 | 16.95 | 5.32 | 13.38 | 9.15 | 6.57 |
| Standard Deviation | | 11.84 | 14.16 | 4.45 | 11.18 | 7.64 | 5.49 |
| CV | | 15.46 | 19.37 | 5.68 | 14.33 | 10.26 | 7.17 |
| Grand Mean | | 76.63 | 73.13 | 78.35 | 77.98 | 74.50 | 76.58 |
| Bartlett's X2 | | 32.999 | 32.911 | 16.145 | 33.272 | 15.854 | 22.816 |
| P(Bartlett's X2) | | 0.001* | 0.001* | 0.024* | 0.001* | 0.026* | 0.004* |

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.

Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

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| RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES | | | | | | | | |
|---|----------------|---------------|-----------|-----------|-----------|-----------|-----------------|--|
| BARE-GROUND/NON-CROP | | | | | | | | |
| Trial ID: | CN-02-19 | Study Dir.: | | | | | | |
| Location: | PONDER FARM | Investigator: | | | | | Eric P. Prostko | |
| Weed Code | | | | | | RAPRA | AGRASS | |
| Crop Code | | | | | | ----- | ----- | |
| Rating Data Type | | | | | | Control | Control | |
| Rating Unit | | | | | | Percent | Percent | |
| Rating Date | | | | | | May-30-19 | May-30-19 | |
| Trt-Eval Interval | | | | | | 50 DA-A | 50 DA-A | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Appl Stg | Code | |
| 1 | NTC | | | | | | | |
| 2 | CALLISTO | 4 | SC | 3.0 oz/a | PRE | A | 13 | |
| 3 | IMPACT | 2.8 | L | 1.0 oz/a | PRE | A | 14 | |
| 4 | IMPACT Z | 4.26 | L | 8.0 oz/a | PRE | A | | |
| 5 | IMPACT Z | 4.26 | L | 10.7 oz/a | PRE | A | | |
| 6 | LAUDIS | 3.5 | SL | 3.0 oz/a | PRE | A | | |
| 7 | PROWL H20 | 3.8 | AS | 32.0 oz/a | PRE | A | | |
| 8 | DUAL II MAGNUM | 7.64 | EC | 16.0 oz/a | PRE | A | | |
| 9 | ZIDUA | 4.17 | SC | 2.45 oz/a | PRE | A | | |
| 10 | WARRANT | 3 | ME | 48.0 oz/a | PRE | A | | |
| 11 | ATRAZINE | 4 | L | 32.0 oz/a | PRE | A | | |
| 12 | NTC | | | | | | | |
| LSD P=.10 | | | | | | | 14.01 | |
| Standard Deviation | | | | | | | 11.71 | |
| CV | | | | | | | 15.27 | |
| Grand Mean | | | | | | | 76.67 | |
| Bartlett's X2 | | | | | | | 30.785 | |
| P(Bartlett's X2) | | | | | | | 0.001* | |
| | | | | | | | 15.93 | |
| | | | | | | | 13.31 | |
| | | | | | | | 19.62 | |
| | | | | | | | 67.85 | |
| | | | | | | | 18.977 | |
| | | | | | | | 0.015* | |

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.

Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

University of Georgia

| RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP | | | | | | |
|--|-------------|----------------|-----------------|----------|---------|--|
| Trial ID: | CN-02-19 | Study Dir.: | | | | |
| Location: | PONDER FARM | Investigator: | Eric P. Prostko | | | |
| Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Apr-23-19 13 DA-A (Data Column 1) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 65340.000000 | | | | |
| Replicate | 3 | 0.000000 | 0.000000 | 0.000 | 1.0000 | |
| Treatment | 11 | 65340.000000 | 5940.000000 | 0.000 | 1.0000 | |
| Error | 33 | 0.000000 | 0.000000 | | | |
| Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent Apr-23-19 13 DA-A (Data Column 2) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 70048.479167 | | | | |
| Replicate | 3 | 1114.229167 | 371.409722 | 1.855 | 0.1565 | |
| Treatment | 11 | 62327.229167 | 5666.111742 | 28.300 | 0.0001 | |
| Error | 33 | 6607.020833 | 200.212753 | | | |
| Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-2-19 22 DA-A (Data Column 3) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 64419.916667 | | | | |
| Replicate | 3 | 6.750000 | 2.250000 | 0.650 | 0.5887 | |
| Treatment | 11 | 64298.916667 | 5845.356061 | 1688.374 | 0.0001 | |
| Error | 33 | 114.250000 | 3.462121 | | | |
| Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-2-19 22 DA-A (Data Column 4) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 65283.666667 | | | | |
| Replicate | 3 | 1725.500000 | 575.166667 | 3.558 | 0.0246 | |
| Treatment | 11 | 58223.666667 | 5293.060606 | 32.744 | 0.0001 | |
| Error | 33 | 5334.500000 | 161.651515 | | | |
| Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-2-19 22 DA-A (Data Column 5) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 62601.812500 | | | | |
| Replicate | 3 | 139.562500 | 46.520833 | 1.696 | 0.1869 | |
| Treatment | 11 | 61557.062500 | 5596.096591 | 204.014 | 0.0001 | |
| Error | 33 | 905.187500 | 27.429924 | | | |
| Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-10-19 30 DA-A (Data Column 6) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 60740.312500 | | | | |
| Replicate | 3 | 40.562500 | 13.520833 | 0.831 | 0.4866 | |
| Treatment | 11 | 60162.562500 | 5469.323864 | 335.986 | 0.0001 | |
| Error | 33 | 537.187500 | 16.278409 | | | |
| Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-10-19 30 DA-A (Data Column 7) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 63875.250000 | | | | |
| Replicate | 3 | 1715.083333 | 571.694444 | 4.075 | 0.0144 | |
| Treatment | 11 | 57530.750000 | 5230.068182 | 37.282 | 0.0001 | |
| Error | 33 | 4629.416667 | 140.285354 | | | |
| Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-10-19 30 DA-A (Data Column 8) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 65321.250000 | | | | |
| Replicate | 3 | 93.750000 | 31.250000 | 0.156 | 0.9252 | |
| Treatment | 11 | 58609.250000 | 5328.113636 | 26.567 | 0.0001 | |
| Error | 33 | 6618.250000 | 200.553030 | | | |
| Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-16-19 36 DA-A (Data Column 9) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 60778.979167 | | | | |
| Replicate | 3 | 76.229167 | 25.409722 | 1.284 | 0.2960 | |
| Treatment | 11 | 60049.729167 | 5459.066288 | 275.871 | 0.0001 | |
| Error | 33 | 653.020833 | 19.788510 | | | |
| Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-16-19 36 DA-A (Data Column 10) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 64600.979167 | | | | |
| Replicate | 3 | 1014.562500 | 338.187500 | 2.707 | 0.0611 | |
| Treatment | 11 | 59463.729167 | 5405.793561 | 43.271 | 0.0001 | |
| Error | 33 | 4122.687500 | 124.929924 | | | |

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| RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES BARE-GROUND/NON-CROP | | | | | | |
|---|-------------|----------------|-----------------|---------|---------|--|
| Trial ID: | CN-02-19 | Study Dir.: | | | | |
| Location: | PONDER FARM | Investigator: | Eric P. Prostko | | | |
| Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-16-19 36 DA-A (Data Column 11) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 59902.000000 | | | | |
| Replicate | 3 | 61.166667 | 20.388889 | 0.349 | 0.7901 | |
| Treatment | 11 | 57913.000000 | 5264.818182 | 90.121 | 0.0001 | |
| Error | 33 | 1927.833333 | 58.419192 | | | |
| Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-30-19 50 DA-A (Data Column 12) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 59443.666667 | | | | |
| Replicate | 3 | 73.166667 | 24.388889 | 0.809 | 0.4982 | |
| Treatment | 11 | 58375.166667 | 5306.833333 | 175.947 | 0.0001 | |
| Error | 33 | 995.333333 | 30.161616 | | | |
| Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-30-19 50 DA-A (Data Column 13) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 64216.666667 | | | | |
| Replicate | 3 | 2238.166667 | 746.055556 | 5.442 | 0.0037 | |
| Treatment | 11 | 57454.166667 | 5223.106061 | 38.097 | 0.0001 | |
| Error | 33 | 4524.333333 | 137.101010 | | | |
| Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-30-19 50 DA-A (Data Column 14) | | | | | | |
| Source | DF | Sum of Squares | Mean Square | F | Prob(F) | |
| Total | 47 | 63481.979167 | | | | |
| Replicate | 3 | 416.062500 | 138.687500 | 0.783 | 0.5122 | |
| Treatment | 11 | 57218.229167 | 5201.657197 | 29.354 | 0.0001 | |
| Error | 33 | 5847.687500 | 177.202652 | | | |
| <u>Weed Code</u> | | | | | | |
| AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. | | | | | | |
| RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L. | | | | | | |

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

| Weed Code | AMAPA | RAPRA | AMAPA | RAPRA | AGRASS | AMAPA | | | | | | | | |
|-------------------|----------------|-----------|-----------|-----------|-----------|-----------|------|--------|------|------|------|------|------|------|
| Crop Code | ----- | ----- | ----- | ----- | ----- | ----- | | | | | | | | |
| Rating Data Type | Control | Control | Control | Control | Control | Control | | | | | | | | |
| Rating Unit | Percent | Percent | Percent | Percent | Percent | Percent | | | | | | | | |
| Rating Date | Apr-23-19 | Apr-23-19 | May-2-19 | May-2-19 | May-2-19 | May-10-19 | | | | | | | | |
| Trt-Eval Interval | 13 DA-A | 13 DA-A | 22 DA-A | 22 DA-A | 22 DA-A | 30 DA-A | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Appl Stg | Code | Plot | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | NTC | | | | | | | 101 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 210 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 312 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 405 | 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 | CALLISTO | 4 SC | | 3.0 oz/a | PRE | A | | 102 | 99.0 | 95.0 | 99.0 | 50.0 | 95.0 | 95.0 |
| | | | | | | | | 206 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 303 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 | 85.0 |
| | | | | | | | | 401 | 99.0 | 99.0 | 99.0 | 99.0 | 85.0 | 85.0 |
| | | | | | | | | Mean = | 99.0 | 98.0 | 99.0 | 86.8 | 93.5 | 90.0 |
| 3 | IMPACT | 2.8 L | | 1.0 oz/a | PRE | A | | 103 | 99.0 | 85.0 | 99.0 | 65.0 | 99.0 | 95.0 |
| | | | | | | | | 212 | 99.0 | 99.0 | 95.0 | 99.0 | 85.0 | 90.0 |
| | | | | | | | | 311 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | 412 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 | 90.0 |
| | | | | | | | | Mean = | 99.0 | 95.5 | 98.0 | 90.5 | 93.5 | 92.5 |
| 4 | IMPACT Z | 4.26 L | | 8.0 oz/a | PRE | A | | 104 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 201 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 304 | 99.0 | 99.0 | 99.0 | 99.0 | 90.0 | 99.0 |
| | | | | | | | | 407 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 99.0 | 99.0 | 99.0 | 96.8 | 97.0 |
| 5 | IMPACT Z | 4.26 L | | 10.7 oz/a | PRE | A | | 105 | 99.0 | 99.0 | 95.0 | 90.0 | 99.0 | 99.0 |
| | | | | | | | | 203 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 305 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 406 | 99.0 | 99.0 | 99.0 | 95.0 | 95.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 99.0 | 98.0 | 95.8 | 98.0 | 99.0 |
| 6 | LAUDIS | 3.5 SL | | 3.0 oz/a | PRE | A | | 106 | 99.0 | 95.0 | 99.0 | 95.0 | 99.0 | 90.0 |
| | | | | | | | | 208 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 309 | 99.0 | 99.0 | 95.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 410 | 99.0 | 99.0 | 95.0 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | Mean = | 99.0 | 98.0 | 97.0 | 98.0 | 98.0 | 93.8 |
| 7 | PROWL H20 | 3.8 AS | | 32.0 oz/a | PRE | A | | 107 | 99.0 | 90.0 | 90.0 | 65.0 | 99.0 | 85.0 |
| | | | | | | | | 211 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 85.0 |
| | | | | | | | | 306 | 99.0 | 95.0 | 99.0 | 50.0 | 99.0 | 99.0 |
| | | | | | | | | 404 | 99.0 | 99.0 | 90.0 | 99.0 | 95.0 | 75.0 |
| | | | | | | | | Mean = | 99.0 | 95.8 | 94.5 | 78.3 | 98.0 | 86.0 |
| 8 | DUAL II MAGNUM | 7.64 EC | | 16.0 oz/a | PRE | A | | 108 | 99.0 | 0.0 | 99.0 | 50.0 | 99.0 | 99.0 |
| | | | | | | | | 209 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 307 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 408 | 99.0 | 99.0 | 99.0 | 95.0 | 99.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 74.3 | 99.0 | 85.8 | 99.0 | 98.0 |
| 9 | ZIDUA | 4.17 SC | | 2.45 oz/a | PRE | A | | 109 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 207 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 301 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 403 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| 10 | WARRANT | 3 ME | | 48.0 oz/a | PRE | A | | 110 | 99.0 | 90.0 | 99.0 | 85.0 | 99.0 | 95.0 |
| | | | | | | | | 202 | 99.0 | 85.0 | 99.0 | 65.0 | 99.0 | 99.0 |
| | | | | | | | | 308 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 411 | 99.0 | 99.0 | 99.0 | 99.0 | 85.0 | 99.0 |
| | | | | | | | | Mean = | 99.0 | 93.3 | 99.0 | 87.0 | 95.5 | 98.0 |
| 11 | ATRAZINE | 4 L | | 32.0 oz/a | PRE | A | | 111 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 85.0 |
| | | | | | | | | 204 | 99.0 | 99.0 | 99.0 | 99.0 | 65.0 | 99.0 |
| | | | | | | | | 302 | 99.0 | 99.0 | 99.0 | 99.0 | 85.0 | 90.0 |
| | | | | | | | | 409 | 99.0 | 99.0 | 99.0 | 99.0 | 85.0 | 90.0 |
| | | | | | | | | Mean = | 99.0 | 99.0 | 99.0 | 99.0 | 83.5 | 91.0 |

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

| Weed Code | AMAPA | RAPRA | AMAPA | RAPRA | AGRASS | AMAPA | | | | |
|-------------------|-----------|-----------|----------|----------|----------|-----------|-----|-----|-----|-----|
| Crop Code | ----- | ----- | ----- | ----- | ----- | ----- | | | | |
| Rating Data Type | Control | Control | Control | Control | Control | Control | | | | |
| Rating Unit | Percent | Percent | Percent | Percent | Percent | Percent | | | | |
| Rating Date | Apr-23-19 | Apr-23-19 | May-2-19 | May-2-19 | May-2-19 | May-10-19 | | | | |
| Trt-Eval Interval | 13 DA-A | 13 DA-A | 22 DA-A | 22 DA-A | 22 DA-A | 30 DA-A | | | | |
| Trt Treatment | Form Form | Rate Grow | Appl | | | | | | | |
| No. Name | Conc Type | Rate Unit | Stg Code | Plot | 1 | 2 | 3 | 4 | 5 | 6 |
| 12 NTC | | | | 112 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | 205 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | 310 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | 402 | 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 |

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

| Weed Code | RAPRA | AGRASS | AMAPA | RAPRA | AGRASS | | | | | | | | |
|-------------------|----------------|-----------|-----------|-----------|-----------|----------|------|--------|------|------|------|------|------|
| Crop Code | ---- | ---- | ---- | ---- | ---- | | | | | | | | |
| Rating Data Type | Control | Control | Control | Control | Control | | | | | | | | |
| Rating Unit | Percent | Percent | Percent | Percent | Percent | | | | | | | | |
| Rating Date | May-10-19 | May-10-19 | May-16-19 | May-16-19 | May-16-19 | | | | | | | | |
| Trt-Eval Interval | 30 DA-A | 30 DA-A | 36 DA-A | 36 DA-A | 36 DA-A | | | | | | | | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate | Grow Unit | Appl Stg | Code | Plot | 7 | 8 | 9 | 10 | 11 |
| 1 | NTC | | | | | | | 101 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 210 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 312 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | 405 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | Mean = | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 | CALLISTO | 4 SC | | 3.0 oz/a | PRE | A | | 102 | 65.0 | 0.0 | 90.0 | 85.0 | 50.0 |
| | | | | | | | | 206 | 99.0 | 95.0 | 95.0 | 99.0 | 95.0 |
| | | | | | | | | 303 | 99.0 | 75.0 | 85.0 | 99.0 | 70.0 |
| | | | | | | | | 401 | 99.0 | 70.0 | 70.0 | 99.0 | 65.0 |
| | | | | | | | | Mean = | 90.5 | 60.0 | 85.0 | 95.5 | 70.0 |
| 3 | IMPACT | 2.8 L | | 1.0 oz/a | PRE | A | | 103 | 65.0 | 95.0 | 95.0 | 75.0 | 99.0 |
| | | | | | | | | 212 | 99.0 | 65.0 | 90.0 | 99.0 | 80.0 |
| | | | | | | | | 311 | 99.0 | 95.0 | 95.0 | 99.0 | 95.0 |
| | | | | | | | | 412 | 99.0 | 90.0 | 95.0 | 99.0 | 95.0 |
| | | | | | | | | Mean = | 90.5 | 86.3 | 93.8 | 93.0 | 92.3 |
| 4 | IMPACT Z | 4.26 L | | 8.0 oz/a | PRE | A | | 104 | 95.0 | 95.0 | 99.0 | 95.0 | 95.0 |
| | | | | | | | | 201 | 99.0 | 95.0 | 99.0 | 95.0 | 90.0 |
| | | | | | | | | 304 | 99.0 | 85.0 | 95.0 | 99.0 | 85.0 |
| | | | | | | | | 407 | 99.0 | 95.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | Mean = | 98.0 | 92.5 | 98.0 | 97.0 | 92.3 |
| 5 | IMPACT Z | 4.26 L | | 10.7 oz/a | PRE | A | | 105 | 85.0 | 99.0 | 99.0 | 90.0 | 99.0 |
| | | | | | | | | 203 | 99.0 | 99.0 | 99.0 | 99.0 | 95.0 |
| | | | | | | | | 305 | 99.0 | 85.0 | 99.0 | 99.0 | 90.0 |
| | | | | | | | | 406 | 95.0 | 90.0 | 99.0 | 99.0 | 90.0 |
| | | | | | | | | Mean = | 94.5 | 93.3 | 99.0 | 96.8 | 93.5 |
| 6 | LAUDIS | 3.5 SL | | 3.0 oz/a | PRE | A | | 106 | 85.0 | 99.0 | 90.0 | 90.0 | 99.0 |
| | | | | | | | | 208 | 99.0 | 95.0 | 95.0 | 99.0 | 95.0 |
| | | | | | | | | 309 | 99.0 | 95.0 | 90.0 | 99.0 | 99.0 |
| | | | | | | | | 410 | 99.0 | 90.0 | 99.0 | 99.0 | 90.0 |
| | | | | | | | | Mean = | 95.5 | 94.8 | 93.5 | 96.8 | 95.8 |
| 7 | PROWL H20 | 3.8 AS | | 32.0 oz/a | PRE | A | | 107 | 75.0 | 99.0 | 85.0 | 80.0 | 99.0 |
| | | | | | | | | 211 | 99.0 | 99.0 | 90.0 | 99.0 | 95.0 |
| | | | | | | | | 306 | 65.0 | 95.0 | 85.0 | 90.0 | 95.0 |
| | | | | | | | | 404 | 99.0 | 99.0 | 75.0 | 95.0 | 95.0 |
| | | | | | | | | Mean = | 84.5 | 98.0 | 83.8 | 91.0 | 96.0 |
| 8 | DUAL II MAGNUM | 7.64 EC | | 16.0 oz/a | PRE | A | | 108 | 50.0 | 99.0 | 99.0 | 50.0 | 99.0 |
| | | | | | | | | 209 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 307 | 99.0 | 99.0 | 95.0 | 99.0 | 99.0 |
| | | | | | | | | 408 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | Mean = | 86.8 | 99.0 | 98.0 | 86.8 | 99.0 |
| 9 | ZIDUA | 4.17 SC | | 2.45 oz/a | PRE | A | | 109 | 95.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 207 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 301 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | 403 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| | | | | | | | | Mean = | 98.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| 10 | WARRANT | 3 ME | | 48.0 oz/a | PRE | A | | 110 | 85.0 | 99.0 | 95.0 | 90.0 | 95.0 |
| | | | | | | | | 202 | 50.0 | 95.0 | 99.0 | 40.0 | 85.0 |
| | | | | | | | | 308 | 99.0 | 95.0 | 95.0 | 99.0 | 95.0 |
| | | | | | | | | 411 | 99.0 | 75.0 | 99.0 | 99.0 | 80.0 |
| | | | | | | | | Mean = | 83.3 | 91.0 | 97.0 | 82.0 | 88.8 |
| 11 | ATRAZINE | 4 L | | 32.0 oz/a | PRE | A | | 111 | 99.0 | 65.0 | 90.0 | 95.0 | 80.0 |
| | | | | | | | | 204 | 95.0 | 50.0 | 99.0 | 99.0 | 55.0 |
| | | | | | | | | 302 | 99.0 | 65.0 | 85.0 | 99.0 | 70.0 |
| | | | | | | | | 409 | 99.0 | 75.0 | 99.0 | 99.0 | 65.0 |
| | | | | | | | | Mean = | 98.0 | 63.8 | 93.3 | 98.0 | 67.5 |

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

| Weed Code | RAPRA | AGRASS | AMAPA | RAPRA | AGRASS |
|-------------------|-------------------------|----------------|-----------|-----------|-----------|
| Crop Code | ---- | ---- | ---- | ---- | ---- |
| Rating Data Type | Control | Control | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent | Percent | Percent |
| Rating Date | May-10-19 | May-10-19 | May-16-19 | May-16-19 | May-16-19 |
| Trt-Eval Interval | 30 DA-A | 30 DA-A | 36 DA-A | 36 DA-A | 36 DA-A |
| Trt Treatment | Form Form | Rate Grow Appl | | | |
| No. Name | Conc Type Rate Unit Stg | Code Plot | 7 | 8 | 9 |
| 12 NTC | | 112 | 0.0 | 0.0 | 0.0 |
| | | 205 | 0.0 | 0.0 | 0.0 |
| | | 310 | 0.0 | 0.0 | 0.0 |
| | | 402 | 0.0 | 0.0 | 0.0 |
| | | Mean = | 0.0 | 0.0 | 0.0 |

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RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

| Weed Code | AMAPA | RAPRA | AGRASS |
|-------------------|-----------------------------------|----------------|-----------|
| Crop Code | ---- | ----- | ----- |
| Rating Data Type | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent |
| Rating Date | May-30-19 | May-30-19 | May-30-19 |
| Trt-Eval Interval | 50 DA-A | 50 DA-A | 50 DA-A |
| Trt Treatment | Form Form | Rate Grow Appl | |
| No. Name | Conc Type Rate Unit Stg Code Plot | | |
| | | | |
| 1 NTC | 101 | 0.0 | 0.0 |
| | 210 | 0.0 | 0.0 |
| | 312 | 0.0 | 0.0 |
| | 405 | 0.0 | 0.0 |
| | Mean = | 0.0 | 0.0 |
| 2 CALLISTO | 4 SC 3.0 oz/a PRE A 102 | 85.0 | 65.0 |
| | 206 | 90.0 | 99.0 |
| | 303 | 95.0 | 95.0 |
| | 401 | 95.0 | 99.0 |
| | Mean = | 91.3 | 89.5 |
| 3 IMPACT | 2.8 L 1.0 oz/a PRE A 103 | 85.0 | 65.0 |
| | 212 | 90.0 | 99.0 |
| | 311 | 90.0 | 99.0 |
| | 412 | 95.0 | 99.0 |
| | Mean = | 90.0 | 90.5 |
| 4 IMPACT Z | 4.26 L 8.0 oz/a PRE A 104 | 95.0 | 95.0 |
| | 201 | 95.0 | 95.0 |
| | 304 | 99.0 | 99.0 |
| | 407 | 99.0 | 99.0 |
| | Mean = | 97.0 | 97.0 |
| 5 IMPACT Z | 4.26 L 10.7 oz/a PRE A 105 | 95.0 | 75.0 |
| | 203 | 99.0 | 99.0 |
| | 305 | 95.0 | 99.0 |
| | 406 | 99.0 | 99.0 |
| | Mean = | 97.0 | 93.0 |
| 6 LAUDIS | 3.5 SL 3.0 oz/a PRE A 106 | 95.0 | 85.0 |
| | 208 | 85.0 | 99.0 |
| | 309 | 85.0 | 99.0 |
| | 410 | 85.0 | 99.0 |
| | Mean = | 87.5 | 95.5 |
| 7 PROWL H20 | 3.8 AS 32.0 oz/a PRE A 107 | 75.0 | 85.0 |
| | 211 | 65.0 | 99.0 |
| | 306 | 95.0 | 99.0 |
| | 404 | 65.0 | 85.0 |
| | Mean = | 75.0 | 92.0 |
| 8 DUAL II MAGNUM | 7.64 EC 16.0 oz/a PRE A 108 | 99.0 | 30.0 |
| | 209 | 99.0 | 99.0 |
| | 307 | 99.0 | 99.0 |
| | 408 | 99.0 | 95.0 |
| | Mean = | 99.0 | 80.8 |
| 9 ZIDUA | 4.17 SC 2.45 oz/a PRE A 109 | 99.0 | 99.0 |
| | 207 | 99.0 | 99.0 |
| | 301 | 95.0 | 90.0 |
| | 403 | 99.0 | 99.0 |
| | Mean = | 98.0 | 96.8 |
| 10 WARRANT | 3 ME 48.0 oz/a PRE A 110 | 99.0 | 85.0 |
| | 202 | 95.0 | 65.0 |
| | 308 | 99.0 | 99.0 |
| | 411 | 99.0 | 99.0 |
| | Mean = | 98.0 | 87.0 |
| 11 ATRAZINE | 4 L 32.0 oz/a PRE A 111 | 75.0 | 95.0 |
| | 204 | 90.0 | 99.0 |
| | 302 | 85.0 | 99.0 |
| | 409 | 95.0 | 99.0 |
| | Mean = | 86.3 | 98.0 |

University of Georgia

RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES
 BARE-GROUND/NON-CROP
 Trial ID: CN-02-19 Study Dir.:
 Location: PONDER FARM Investigator: Eric P. Prostko

| Weed Code | AMAPA | RAPRA | AGRASS |
|-------------------|-----------------------------------|----------------|-----------|
| Crop Code | ----- | ----- | ----- |
| Rating Data Type | Control | Control | Control |
| Rating Unit | Percent | Percent | Percent |
| Rating Date | May-30-19 | May-30-19 | May-30-19 |
| Trt-Eval Interval | 50 DA-A | 50 DA-A | 50 DA-A |
| Trt Treatment | Form Form | Rate Grow Appl | |
| No. Name | Conc Type Rate Unit Stg Code Plot | 12 | 13 |
| 12 NTC | 112 | 0.0 | 0.0 |
| | 205 | 0.0 | 0.0 |
| | 310 | 0.0 | 0.0 |
| | 402 | 0.0 | 0.0 |
| | Mean = | 0.0 | 0.0 |

University of Georgia

RESIDUAL WEED CONTROL WITH FIELD CORN HPPD HERBICIDES

BARE-GROUND/NON-CROP

Trial ID: CN-02-19 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.