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## FIELD CORN RESPONSE TO HALEX GT AT 1X AND 2X RATES

Trial ID: CN-04-18 Study Dir.: WILSON FAIRCLOTH  
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet  
 Spray vol: 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 Unit | Amt Product to Measure                   | Rep 1 | 2   | 3   | 4   |
|---------|------------------------------------------------------|-------------------|---------------|---------------------------------------|-----------|------------------------------------------|-------|-----|-----|-----|
| 1       | POST1 (V2)<br>HALEX GT<br>ATRAZINE<br>NIS            | 4.39<br>4 L       | SC            | 58.0 oz/a<br>64.0 oz/a<br>0.25 % v/v  |           | 45.31 mL/mx<br>49.99 mL/mx<br>3.75 mL/mx | 101   | 206 | 303 | 401 |
| 2       | POST1 (V2)<br>HALEX GT<br>ATRAZINE<br>NIS            | 4.39<br>4 L       | SC            | 116.0 oz/a<br>64.0 oz/a<br>0.25 % v/v |           | 90.62 mL/mx<br>49.99 mL/mx<br>3.75 mL/mx | 102   | 204 | 301 | 402 |
| 3       | POST1 (V2)<br>ROUNDUP P-MAX<br>ATRAZINE<br>PROWL H20 | 5.5<br>4 L<br>3.8 | SL<br>L<br>SC | 32.0 oz/a<br>64.0 oz/a<br>32.0 oz/a   |           | 25.0 mL/mx<br>49.99 mL/mx<br>25.0 mL/mx  | 103   | 208 | 305 | 404 |
| 4       | POST1 (V2)<br>NTC                                    |                   |               |                                       |           |                                          | 104   | 205 | 308 | 406 |
| 5       | POST2 (V5)<br>HALEX GT<br>ATRAZINE<br>NIS            | 4.39<br>4 L       | SC            | 58.0 oz/a<br>64.0 oz/a<br>0.25 % v/v  |           | 45.31 mL/mx<br>49.99 mL/mx<br>3.75 mL/mx | 105   | 207 | 302 | 408 |
| 6       | POST2 (V5)<br>HALEX GT<br>ATRAZINE<br>NIS            | 4.39<br>4 L       | SC            | 116.0 oz/a<br>64.0 oz/a<br>0.25 % v/v |           | 90.62 mL/mx<br>49.99 mL/mx<br>3.75 mL/mx | 106   | 202 | 304 | 403 |
| 7       | POST2 (V5)<br>ROUNDUP P-MAX<br>ATRAZINE<br>PROWL H20 | 5.5<br>4 L<br>3.8 | SL<br>L<br>SC | 32.0 oz/a<br>64.0 oz/a<br>32.0 oz/a   |           | 25.0 mL/mx<br>49.99 mL/mx<br>25.0 mL/mx  | 107   | 203 | 306 | 407 |
| 8       | POST2 (V5)<br>NTC                                    |                   |               |                                       |           |                                          | 108   | 201 | 307 | 405 |

Sort Order: Treatment

### Trial Comments

HALEX GT = MESOTRIONE (0.209 LBS/GAL) + GLYPHOSATE (2.09 LBS/GAL) + S-METOLACHLOR (2.09 LBS/GAL)

NIS = INDUCE (HELENA)

HARVEST MOISTURE: 17.275%

YIELDS ADJUSTED TO 15.5%

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## Air Temps/Rainfall 7 Days Before and 7 Days After V2 Applications of Halex GT on April 11

| Date   | Max Temperature<br>[°F] | Min Temperature<br>[°F] | Rain<br>(in) |
|--------|-------------------------|-------------------------|--------------|
| Apr 04 | 69.2                    | 46.4                    | 0.03         |
| Apr 05 | 71.8                    | 41.2                    | 0            |
| Apr 06 | 79.5                    | 48.9                    | 0            |
| Apr 07 | 69                      | 58.3                    | 0.36         |
| Apr 08 | 61.6                    | 45.3                    | 0            |
| Apr 09 | 69.3                    | 53.1                    | 0            |
| Apr 10 | 66.6                    | 50                      | 0            |
| Apr 11 | 74.1                    | 46.8                    | 0            |
| Apr 12 | 77.7                    | 47.5                    | 0            |
| Apr 13 | 82.5                    | 55.1                    | 0            |
| Apr 14 | 84.7                    | 60.9                    | 0            |
| Apr 15 | 71.4                    | 50.3                    | 1            |
| Apr 16 | 64.4                    | 40.9                    | 0            |
| Apr 17 | 74.2                    | 40                      | 0            |
| Apr 18 | 84.7                    | 52.1                    | 0            |

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**SUMMARY:**

1) HALEX GT AT 1X (58 OZ/A) AND 2X (116 OZ/A) RATES APPLIED AT V2 STAGE OF GROWTH CAUSED SIGNIFICANT CROP STUNTING AND BUGGING WHIPPING. 2X RATES CAUSED MORE INJURY THAN 1X RATES.

2) HALEX GT AT 1X AND 2X RATES APPLIED AT V5 STAGE OF GROWTH CAUSED CROP STUNTING BUT MINIMAL BUGGY WHIPPING.

3) HIGHER LEVELS OF INJURY CAUSED BY HALEX GT APPLIED AT V2 STAGE OF GROWTH IS LIKELY RELATED TO COLD TEMPERATURES (< 50 F) THAT OCCURRED BEFORE, DURING, AND AFTER THE DATE OF APPLICATION ON APRIL 11. REFER TO TABLE ABOVE FOR AIR TEMPS 7 DAYS BEFORE AND 7 DAYS AFTER APPLICATION. ADDITIONALLY, 3.01 INCHES OF RAINFALL/IRRIGATION OCCURRED FROM APRIL 12 TO APRIL 23 (12 DAYS AFTER APPLICATION).

4) ALTHOUGH HALEX GT AT 1X RATE APPLIED AT V2 STAGE CAUSED SIGNIFICANT STUNTING AND BUGGING WHIPPING, CORN YIELDS WERE NOT REDUCED.

5) HALEX GT APPLIED AT 2X RATE (116 OZ/A) AT V2 STAGE OF GROWTH CAUSED A SIGNIFICANT CORN YIELD REDUCTION (78 BU/A LOSS OR 40% LOSS). NO YIELD LOSS WAS OBSERVED WHEN 2X RATE OF HALEX GT WAS APPLIED AT V5 STAGE.

6) ROUNDUP + ATRAZINE + PROWL H2O APPLIED AT V2 ALSO CAUSED SLIGHT CORN INJURY. BUT, NO INJURY WAS OBSERVED FROM V5 APPLICATIONS. CORN YIELDS WERE NOT REDUCED BY ANY TIMING OF ROUNDUP + ATRAZINE + PROWL H2O.

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## FIELD CORN RESPONSE TO HALEX GT AT 1X AND 2X RATES

Trial ID: CN-04-18 Study Dir.: WILSON FAIRCLOTH  
Location: PONDER FARM Investigator: Eric P. Prostko

### GENERAL TRIAL INFORMATION

Study Director: WILSON FAIRCLOTH Title: \_\_\_\_\_  
Affiliation: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Investigator: Eric P. Prostko Title: \_\_\_\_\_  
Affiliation: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Trial Status: \_\_\_\_\_ 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. \_\_\_\_\_ 2. \_\_\_\_\_

Crop 1: ZEAMA FIELD CORN Variety: PIONEER 1870YHR Planting Date: Mar-27-18  
Planting Method: MONOSEM Rate: 363000 SEED/A Depth: 1.75 IN  
Perennial Age: \_\_\_\_\_ Row Spacing: 36 IN Seed Bed: \_\_\_\_\_  
Soil Temperature: \_\_\_\_\_ Soil Moisture: OPTIMUM Emergence Date: \_\_\_\_\_

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 4  
Site Type: \_\_\_\_\_  
Tillage Type: CONVENTIONAL Study Design: FACTOR  
Trial Initiation Comments: \_\_\_\_\_

Previous: Crops PESTICIDES Year  
1. PEANUT 2017 \_\_\_\_\_

### MAINTENANCE

Field Prep./Maintenance: \_\_\_\_\_

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

### SOIL DESCRIPTION

Texture: SAND % OM: 0.53 % Sand: 94 % Silt: 4 % Clay: 2  
pH: 6.3 CEC: 2.6 Soil Name: FUQUAY Fertility Level: GOOD

### MOISTURE CONDITIONS

| On: Date     | Time  | Amount | Unit | Type                     | Interval | Unit  |
|--------------|-------|--------|------|--------------------------|----------|-------|
| 1. Mar-29-18 | _____ | 0.4    | IN   | SPRINKLER - LATERAL MOVE | _____    | _____ |
| 2. Mar-30-18 | _____ | 1.03   | IN   | RAINFALL                 | _____    | _____ |
| 3. Apr-4-18  | _____ | 0.03   | IN   | RAINFALL                 | _____    | _____ |
| 4. Apr-5-18  | _____ | 0.5    | IN   | SPRINKLER - LATERAL MOVE | _____    | _____ |
| 5. Apr-7-18  | _____ | 0.36   | IN   | RAINFALL                 | _____    | _____ |
| 6. Apr-12-18 | _____ | 0.5    | IN   | SPRINKLER - LATERAL MOVE | _____    | _____ |
| 7. Apr-15-18 | _____ | 1.0    | IN   | RAINFALL                 | _____    | _____ |
| 8. Apr-22-18 | _____ | 0.33   | IN   | RAINFALL                 | _____    | _____ |
| 9. Apr-23-18 | _____ | 1.18   | IN   | RAINFALL                 | _____    | _____ |
| 10. May-4-18 | _____ | 0.5    | IN   | SPRINKLER - LATERAL MOVE | _____    | _____ |
| 11. May-7-18 | _____ | 0.5    | IN   | SPRINKLER - LATERAL MOVE | _____    | _____ |
| 12. May-9-18 | _____ | 0.5    | IN   | SPRINKLER - LATERAL MOVE | _____    | _____ |

Overall Moisture Conditions: \_\_\_\_\_

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_\_

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| APPLICATION DESCRIPTION |           |           |   |   |   |   |   |  |  |
|-------------------------|-----------|-----------|---|---|---|---|---|--|--|
|                         |           | A         | B | C | D | E | F |  |  |
| Application Date:       | Apr-11-18 | Apr-24-18 |   |   |   |   |   |  |  |
| Time of Day:            | 7:30 AM   | 7:04 AM   |   |   |   |   |   |  |  |
| Application Method:     | BROADCAST | BROADCAST |   |   |   |   |   |  |  |
| Application Timing:     | POST1-V2  | POST2-V5  |   |   |   |   |   |  |  |
| Applic. Placement:      | FOLIAGE   | FOLIAGE   |   |   |   |   |   |  |  |
| Air Temp., Unit:        | 47 F      | 58 F      |   |   |   |   |   |  |  |
| % Relative Humidity:    | 93        | 94        |   |   |   |   |   |  |  |
| Wind Velocity, Unit:    | 1 MPH     | 4 MPH     |   |   |   |   |   |  |  |
| Dew Presence (Y/N):     | Y         | Y         |   |   |   |   |   |  |  |
| Water Hardness:         | --        | --        |   |   |   |   |   |  |  |
| Soil Temp., Unit:       | 56 F      | 63 F      |   |   |   |   |   |  |  |
| Soil Moisture:          | OPTIMUM   | OPTIMUM   |   |   |   |   |   |  |  |
| % Cloud Cover:          | 80        | 0         |   |   |   |   |   |  |  |

  

| CROP STAGE AT EACH APPLICATION |              |          |   |   |   |   |   |  |  |
|--------------------------------|--------------|----------|---|---|---|---|---|--|--|
|                                |              | A        | B | C | D | E | F |  |  |
| Crop 1                         | Stage: ZEAMA |          |   |   |   |   |   |  |  |
| Stage Scale:                   | V2:3-4 LF    | V5: 6 LF |   |   |   |   |   |  |  |
| Height, Unit:                  | 2 IN         | 6 IN     |   |   |   |   |   |  |  |

  

| WEED STAGE AT EACH APPLICATION |             |   |   |   |   |   |   |  |  |
|--------------------------------|-------------|---|---|---|---|---|---|--|--|
|                                |             | A | B | C | D | E | F |  |  |
| Weed 1                         | Stage: 0.5" |   |   |   |   |   |   |  |  |
| Stage Scale:                   |             |   |   |   |   |   |   |  |  |
| Density, Unit:                 |             |   |   |   |   |   |   |  |  |
| Weed 2                         | Stage: 0.5" |   |   |   |   |   |   |  |  |
| Stage Scale:                   |             |   |   |   |   |   |   |  |  |
| Density, Unit:                 |             |   |   |   |   |   |   |  |  |

  

| APPLICATION EQUIPMENT |          |          |     |   |   |   |   |  |  |
|-----------------------|----------|----------|-----|---|---|---|---|--|--|
|                       |          | A        | B   | C | D | E | F |  |  |
| Appl. Equipment:      | BACKPACK | BACKPACK |     |   |   |   |   |  |  |
| Operating Pressure:   | 40       | 40       |     |   |   |   |   |  |  |
| Nozzle Type:          | AIXR     | AIXR     |     |   |   |   |   |  |  |
| Nozzle Size:          | 11002    | 11002    |     |   |   |   |   |  |  |
| Nozzle Spacing, Unit: | 20       | IN 20    | IN  |   |   |   |   |  |  |
| Nozzles/Row:          |          |          |     |   |   |   |   |  |  |
| Band Width, Unit:     |          |          |     |   |   |   |   |  |  |
| Boom Length, Unit:    | 60       | IN 60    | IN  |   |   |   |   |  |  |
| 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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| FIELD CORN RESPONSE TO HALEX GT AT 1X AND 2X RATES |  |                               |           |           |           |           |          |          |           |         |
|----------------------------------------------------|--|-------------------------------|-----------|-----------|-----------|-----------|----------|----------|-----------|---------|
| Trial ID: CN-04-18                                 |  | Study Dir.: WILSON FAIRCLOTH  |           |           |           |           |          |          |           |         |
| Location: PONDER FARM                              |  | Investigator: Eric P. Prostko |           |           |           |           |          |          |           |         |
| Weed Code                                          |  |                               | -----     | -----     | -----     | -----     | -----    | -----    | -----     |         |
| Crop Code                                          |  |                               | ZEAMA     | ZEAMA     | ZEAMA     | ZEAMA     | ZEAMA    | ZEAMA    | ZEAMA     |         |
| Part Rated                                         |  |                               | CROP -    | CROP -    | CROP -    | BUGGY C   | CROP -   | BUGGY C  | CROP -    |         |
| Rating Data Type                                   |  |                               | STUNTING  | CHLOROSI  | STUNTING  | WHIPPING  | STUNTING | WHIPPING | STUNTING  |         |
| Rating Unit                                        |  |                               | PERCENT   | PERCENT   | PERCENT   | PERCENT   | PERCENT  | PERCENT  | PERCENT   |         |
| Rating Date                                        |  |                               | Apr-18-18 | Apr-18-18 | Apr-23-18 | Apr-23-18 | May-2-18 | May-2-18 | May-16-18 |         |
| PRM Data Type                                      |  |                               |           |           |           |           |          |          |           |         |
| # Subsamples, Dec.                                 |  |                               |           |           |           |           |          |          |           |         |
| Trt Treatment                                      |  | Form Form                     | Rate      |           |           |           |          |          |           |         |
| No. Name                                           |  | Conc Type Rate                | Unit      | 1         | 2         | 3         | 4        | 5        | 6         | 7       |
| TABLE OF R MEANS                                   |  |                               |           |           |           |           |          |          |           |         |
| Replicate 1                                        |  |                               |           | 1.3       | 5.0       | 6.3       | 11.9     | 12.5     | 14.4      | 10.0    |
| Replicate 2                                        |  |                               |           | 2.5       | 6.3       | 5.6       | 13.1     | 10.0     | 17.5      | 6.9     |
| Replicate 3                                        |  |                               |           | 2.5       | 6.3       | 8.1       | 12.5     | 15.0     | 15.0      | 12.5    |
| Replicate 4                                        |  |                               |           | 3.8       | 3.8       | 6.3       | 11.3     | 11.3     | 14.4      | 16.3    |
| TABLE OF A (TIMING) MEANS                          |  |                               |           |           |           |           |          |          |           |         |
| 1 POST1 (V2)                                       |  |                               |           | 5.0 a     | 10.6 a    | 13.1 a    | 24.4 a   | 21.9 a   | 29.7 a    | 16.6 a  |
| 2 POST2 (V5)                                       |  |                               |           | 0.0 b     | 0.0 b     | 0.0 b     | 0.0 b    | 2.5 b    | 0.9 b     | 6.3 b   |
| Tukey's HSD P=.10                                  |  |                               |           | 2.40      | 2.82      | 2.55      | 1.90     | 1.47     | 3.18      | 3.87    |
| Standard Deviation                                 |  |                               |           | 2.89      | 3.39      | 3.06      | 2.28     | 1.77     | 3.82      | 4.65    |
| CV                                                 |  |                               |           | 115.47    | 63.72     | 46.66     | 18.73    | 14.50    | 24.94     | 40.76   |
| TABLE OF B (RATE) MEANS                            |  |                               |           |           |           |           |          |          |           |         |
| 1 HALEX GT 4.39 SC 58.0 oz/a                       |  |                               |           | 2.5 a     | 5.0 ab    | 3.8 bc    | 3.8 b    | 10.6 b   | 12.5 b    | 11.3 b  |
| 1 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 1 NIS 0.25 % v/v                                   |  |                               |           |           |           |           |          |          |           |         |
| 2 HALEX GT 4.39 SC 116.0 oz/a                      |  |                               |           | 3.8 a     | 8.8 a     | 18.1 a    | 45.0 a   | 33.8 a   | 48.1 a    | 30.0 a  |
| 2 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 2 NIS 0.25 % v/v                                   |  |                               |           |           |           |           |          |          |           |         |
| 3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a                   |  |                               |           | 3.8 a     | 7.5 a     | 4.4 b     | 0.0 c    | 4.4 c    | 0.6 c     | 4.4 b   |
| 3 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 3 PROWL H20 3.8 SC 32.0 oz/a                       |  |                               |           |           |           |           |          |          |           |         |
| 4 NTC                                              |  |                               |           | 0.0 a     | 0.0 b     | 0.0 c     | 0.0 c    | 0.0 c    | 0.0 c     | 0.0 b   |
| Tukey's HSD P=.10                                  |  |                               |           | 6.27      | 5.49      | 3.92      | 3.04     | 5.37     | 5.71      | 13.26   |
| Standard Deviation                                 |  |                               |           | 4.71      | 4.12      | 2.95      | 2.28     | 4.04     | 4.29      | 9.97    |
| CV                                                 |  |                               |           | 188.56    | 77.64     | 44.90     | 18.73    | 33.15    | 28.02     | 87.40   |
| TABLE OF A (TIMING) B (RATE) MEANS                 |  |                               |           |           |           |           |          |          |           |         |
| 1 POST1 (V2)                                       |  |                               |           | 5.0 a     | 10.0 a    | 7.5 b     | 7.5 b    | 13.8 b   | 23.8 b    | 11.3 bc |
| 1 HALEX GT 4.39 SC 58.0 oz/a                       |  |                               |           |           |           |           |          |          |           |         |
| 1 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 1 NIS 0.25 % v/v                                   |  |                               |           |           |           |           |          |          |           |         |
| 2 POST2 (V5)                                       |  |                               |           | 0.0 a     | 0.0 b     | 0.0 c     | 0.0 c    | 7.5 bc   | 1.3 c     | 11.3 bc |
| 1 HALEX GT 4.39 SC 58.0 oz/a                       |  |                               |           |           |           |           |          |          |           |         |
| 1 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 1 NIS 0.25 % v/v                                   |  |                               |           |           |           |           |          |          |           |         |
| 1 POST1 (V2)                                       |  |                               |           | 7.5 a     | 17.5 a    | 36.3 a    | 90.0 a   | 65.0 a   | 95.0 a    | 46.3 a  |
| 2 HALEX GT 4.39 SC 116.0 oz/a                      |  |                               |           |           |           |           |          |          |           |         |
| 2 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 2 NIS 0.25 % v/v                                   |  |                               |           |           |           |           |          |          |           |         |
| 2 POST2 (V5)                                       |  |                               |           | 0.0 a     | 0.0 b     | 0.0 c     | 0.0 c    | 2.5 cd   | 1.3 c     | 13.8 b  |
| 2 HALEX GT 4.39 SC 116.0 oz/a                      |  |                               |           |           |           |           |          |          |           |         |
| 2 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 2 NIS 0.25 % v/v                                   |  |                               |           |           |           |           |          |          |           |         |
| 1 POST1 (V2)                                       |  |                               |           | 7.5 a     | 15.0 a    | 8.8 b     | 0.0 c    | 8.8 bc   | 0.0 c     | 8.8 bc  |
| 3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a                   |  |                               |           |           |           |           |          |          |           |         |
| 3 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 3 PROWL H20 3.8 SC 32.0 oz/a                       |  |                               |           |           |           |           |          |          |           |         |
| 2 POST2 (V5)                                       |  |                               |           | 0.0 a     | 0.0 b     | 0.0 c     | 0.0 c    | 0.0 d    | 1.3 c     | 0.0 c   |
| 3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a                   |  |                               |           |           |           |           |          |          |           |         |
| 3 ATRAZINE 4 L 64.0 oz/a                           |  |                               |           |           |           |           |          |          |           |         |
| 3 PROWL H20 3.8 SC 32.0 oz/a                       |  |                               |           |           |           |           |          |          |           |         |
| 1 POST1 (V2)                                       |  |                               |           | 0.0 a     | 0.0 b     | 0.0 c     | 0.0 c    | 0.0 d    | 0.0 c     | 0.0 c   |
| 4 NTC                                              |  |                               |           |           |           |           |          |          |           |         |
| 2 POST2 (V5)                                       |  |                               |           | 0.0 a     | 0.0 b     | 0.0 c     | 0.0 c    | 0.0 d    | 0.0 c     | 0.0 c   |
| 4 NTC                                              |  |                               |           |           |           |           |          |          |           |         |

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

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|                    |                     |                     |                     |                     |                     |                     |                     |
|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Weed Code          | -----               | -----               | -----               | -----               | -----               | -----               | -----               |
| Crop Code          | ZEAMA               | ZEAMA               | ZEAMA               | ZEAMA               | ZEAMA               | ZEAMA               | ZEAMA               |
| Part Rated         | CROP -              | CROP -              | CROP -              | BUGGY C             | CROP -              | BUGGY C             | CROP -              |
| Rating Data Type   | STUNTING            | CHLOROSI            | STUNTING            | WHIPPING            | STUNTING            | WHIPPING            | STUNTING            |
| Rating Unit        | PERCENT             | PERCENT             | PERCENT             | PERCENT             | PERCENT             | PERCENT             | PERCENT             |
| Rating Date        | Apr-18-18           | Apr-18-18           | Apr-23-18           | Apr-23-18           | May-2-18            | May-2-18            | May-16-18           |
| PRM Data Type      |                     |                     |                     |                     |                     |                     |                     |
| # Subsamples, Dec. |                     |                     |                     |                     |                     |                     |                     |
| Trt Treatment      | Form Form           | Form Form           | Form Form           | Form Form           | Form Form           | Form Form           | Form Form           |
| No. Name           | Conc Type Rate Unit | Conc Type Rate Unit | Conc Type Rate Unit | Conc Type Rate Unit | Conc Type Rate Unit | Conc Type Rate Unit | Conc Type Rate Unit |
|                    | 1                   | 2                   | 3                   | 4                   | 5                   | 6                   | 7                   |
| Tukey's HSD P=.10  | 11.13               | 9.74                | 6.95                | 5.39                | 6.67                | 11.47               | 12.62               |
| Standard Deviation | 4.71                | 4.12                | 2.95                | 2.28                | 2.83                | 4.86                | 5.34                |
| CV                 | 188.56              | 77.64               | 44.90               | 18.73               | 23.19               | 31.73               | 46.85               |

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|                                    |                     |            |           |          |          |            |
|------------------------------------|---------------------|------------|-----------|----------|----------|------------|
| Weed Code                          |                     |            |           |          |          |            |
| Crop Code                          |                     |            |           |          |          |            |
| Part Rated                         |                     |            |           |          |          |            |
| Rating Data Type                   |                     |            |           |          |          |            |
| Rating Unit                        |                     |            |           |          |          |            |
| Rating Date                        |                     |            |           |          |          |            |
| PRM Data Type                      |                     |            |           |          |          |            |
| # Subsamples, Dec.                 |                     |            |           |          |          |            |
|                                    |                     | -----      | -----     | -----    | -----    |            |
|                                    |                     | ZEAMA      | ZEAMA     | ZEAMA    | ZEAMA    |            |
|                                    |                     | BUGGY C    | CROP -    | PLOT -   | PLOT -   |            |
|                                    |                     | WHIPPING   | STUNTING  | YIELD    | YIELD    |            |
|                                    |                     | PERCENT    | PERCENT   | LBS/PLOT | BU/A     |            |
|                                    |                     | May-16-18  | Jun-12-18 | Sep-1-18 | Sep-1-18 |            |
|                                    |                     |            |           |          | TY1      |            |
|                                    |                     |            |           |          | - 0      |            |
| Trt Treatment                      | Form Form           |            |           |          |          |            |
| No. Name                           | Conc Type Rate Unit | 8          | 9         | 10       | 11       |            |
| TABLE OF R MEANS                   |                     |            |           |          |          |            |
| Replicate 1                        |                     | 12.9       | 5.0       | 37.5     | 190      |            |
| Replicate 2                        |                     | 13.1       | 1.3       | 38.8     | 197      |            |
| Replicate 3                        |                     | 12.5       | 5.0       | 38.3     | 194      |            |
| Replicate 4                        |                     | 11.9       | 3.8       | 39.0     | 198      |            |
| TABLE OF A (TIMING) MEANS          |                     |            |           |          |          |            |
| 1 POST1 (V2)                       |                     | 24.9 a     | 6.9 a     | 36.1 b   | 183 b    |            |
| 2 POST2 (V5)                       |                     | 0.3 b      | 0.6 b     | 40.6 a   | 206 a    |            |
| Tukey's HSD P=.10                  |                     | 2.67       | 3.80      | 3.36     | 17.1     |            |
| Standard Deviation                 |                     | 3.21       | 4.56      | 4.04     | 20.5     |            |
| CV                                 |                     | 25.46      | 121.72    | 10.53    | 10.5     |            |
| TABLE OF B (RATE) MEANS            |                     |            |           |          |          |            |
| 1 HALEX GT                         | 4.39 SC             | 58.0 oz/a  | 6.0 b     | 1.3 b    | 41.1 a   |            |
| 1 ATRAZINE                         | 4 L                 | 64.0 oz/a  |           |          |          |            |
| 1 NIS                              |                     | 0.25 % v/v |           |          |          |            |
| 2 HALEX GT                         | 4.39 SC             | 116.0 oz/a | 44.4 a    | 13.8 a   | 32.3 b   |            |
| 2 ATRAZINE                         | 4 L                 | 64.0 oz/a  |           |          |          |            |
| 2 NIS                              |                     | 0.25 % v/v |           |          |          |            |
| 3 ROUNDUP P-MAX                    | 5.5 SL              | 32.0 oz/a  | 0.0 c     | 0.0 b    | 40.8 a   |            |
| 3 ATRAZINE                         | 4 L                 | 64.0 oz/a  |           |          |          |            |
| 3 PROWL H20                        | 3.8 SC              | 32.0 oz/a  |           |          |          |            |
| 4 NTC                              |                     | 0.0 c      | 0.0 b     | 39.4 a   | 200 a    |            |
| Tukey's HSD P=.10                  |                     | 5.54       | 6.27      | 5.70     | 28.9     |            |
| Standard Deviation                 |                     | 4.17       | 4.71      | 4.28     | 21.8     |            |
| CV                                 |                     | 33.09      | 125.71    | 11.17    | 11.2     |            |
| TABLE OF A (TIMING) B (RATE) MEANS |                     |            |           |          |          |            |
| 1 POST1 (V2)                       |                     | 10.8 b     | 0.0 b     | 43.8 a   | 222 a    |            |
| 1 HALEX GT                         | 4.39 SC             |            |           |          |          | 58.0 oz/a  |
| 1 ATRAZINE                         | 4 L                 |            |           |          |          | 64.0 oz/a  |
| 1 NIS                              |                     |            |           |          |          | 0.25 % v/v |
| 2 POST2 (V5)                       |                     | 1.3 b      | 2.5 b     | 38.5 a   | 195 a    |            |
| 1 HALEX GT                         | 4.39 SC             |            |           |          |          | 58.0 oz/a  |
| 1 ATRAZINE                         | 4 L                 |            |           |          |          | 64.0 oz/a  |
| 1 NIS                              |                     |            |           |          |          | 0.25 % v/v |
| 1 POST1 (V2)                       |                     | 88.8 a     | 27.5 a    | 23.0 b   | 117 b    |            |
| 2 HALEX GT                         | 4.39 SC             |            |           |          |          | 116.0 oz/a |
| 2 ATRAZINE                         | 4 L                 |            |           |          |          | 64.0 oz/a  |
| 2 NIS                              |                     |            |           |          |          | 0.25 % v/v |
| 2 POST2 (V5)                       |                     | 0.0 b      | 0.0 b     | 41.5 a   | 211 a    |            |
| 2 HALEX GT                         | 4.39 SC             |            |           |          |          | 116.0 oz/a |
| 2 ATRAZINE                         | 4 L                 |            |           |          |          | 64.0 oz/a  |
| 2 NIS                              |                     |            |           |          |          | 0.25 % v/v |
| 1 POST1 (V2)                       |                     | 0.0 b      | 0.0 b     | 39.3 a   | 199 a    |            |
| 3 ROUNDUP P-MAX                    | 5.5 SL              |            |           |          |          | 32.0 oz/a  |
| 3 ATRAZINE                         | 4 L                 |            |           |          |          | 64.0 oz/a  |
| 3 PROWL H20                        | 3.8 SC              |            |           |          |          | 32.0 oz/a  |
| 2 POST2 (V5)                       |                     | 0.0 b      | 0.0 b     | 42.3 a   | 214 a    |            |
| 3 ROUNDUP P-MAX                    | 5.5 SL              |            |           |          |          | 32.0 oz/a  |
| 3 ATRAZINE                         | 4 L                 |            |           |          |          | 64.0 oz/a  |
| 3 PROWL H20                        | 3.8 SC              |            |           |          |          | 32.0 oz/a  |
| 1 POST1 (V2)                       |                     | 0.0 b      | 0.0 b     | 38.5 a   | 195 a    |            |
| 4 NTC                              |                     |            |           |          |          |            |
| 2 POST2 (V5)                       |                     | 0.0 b      | 0.0 b     | 40.3 a   | 204 a    |            |
| 4 NTC                              |                     |            |           |          |          |            |

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

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|                    |                     |           |          |          |
|--------------------|---------------------|-----------|----------|----------|
| Weed Code          | -----               | -----     | -----    | -----    |
| Crop Code          | ZEAMA               | ZEAMA     | ZEAMA    | ZEAMA    |
| Part Rated         | BUGGY C             | CROP -    | PLOT -   | PLOT -   |
| Rating Data Type   | WHIPPING            | STUNTING  | YIELD    | YIELD    |
| Rating Unit        | PERCENT             | PERCENT   | LBS/PLOT | BU/A     |
| Rating Date        | May-16-18           | Jun-12-18 | Sep-1-18 | Sep-1-18 |
| PRM Data Type      |                     |           |          | TY1      |
| # Subsamples, Dec. |                     |           |          | - 0      |
| Trt Treatment      | Form Form           | Rate      |          |          |
| No. Name           | Conc Type Rate Unit |           |          |          |
|                    | 8                   | 9         | 10       | 11       |
| Tukey's HSD P=.10  | 10.85               | 11.47     | 11.11    | 56.4     |
| Standard Deviation | 4.60                | 4.86      | 4.71     | 23.9     |
| CV                 | 36.49               | 129.58    | 12.26    | 12.3     |

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| COMPLETE FACTORIAL AOV For ----- ZEAMA CROP STUNTING PERCENT Apr-18-18 (Data Column 1) |    |                |             |        |         |           |      |
|----------------------------------------------------------------------------------------|----|----------------|-------------|--------|---------|-----------|------|
| Source                                                                                 | DF | Sum of Squares | Mean Square | F      | Prob(F) | HSD (.10) |      |
| Total                                                                                  | 31 | 800.000000     |             |        |         |           |      |
| R                                                                                      | 3  | 25.000000      | 8.333333    | 0.375  | 0.7733  |           |      |
| A                                                                                      | 1  | 200.000000     | 200.000000  | 24.000 | 0.0163  |           | 2.4  |
| RA                                                                                     | 3  | 25.000000      | 8.333333    |        |         |           |      |
| B                                                                                      | 3  | 75.000000      | 25.000000   | 1.125  | 0.3895  |           | 6.3  |
| RB                                                                                     | 9  | 200.000000     | 22.222222   |        |         |           |      |
| AB                                                                                     | 3  | 75.000000      | 25.000000   | 1.125  | 0.3895  |           | 11.1 |
| RAB                                                                                    | 9  | 200.000000     | 22.222222   |        |         |           |      |

  

| COMPLETE FACTORIAL AOV For ----- ZEAMA CROP CHLOROSI PERCENT Apr-18-18 (Data Column 2) |    |                |             |        |         |           |     |
|----------------------------------------------------------------------------------------|----|----------------|-------------|--------|---------|-----------|-----|
| Source                                                                                 | DF | Sum of Squares | Mean Square | F      | Prob(F) | HSD (.10) |     |
| Total                                                                                  | 31 | 1996.875000    |             |        |         |           |     |
| R                                                                                      | 3  | 34.375000      | 11.458333   | 0.673  | 0.5896  |           |     |
| A                                                                                      | 1  | 903.125000     | 903.125000  | 78.818 | 0.0030  |           | 2.8 |
| RA                                                                                     | 3  | 34.375000      | 11.458333   |        |         |           |     |
| B                                                                                      | 3  | 359.375000     | 119.791667  | 7.041  | 0.0098  |           | 5.5 |
| RB                                                                                     | 9  | 153.125000     | 17.013889   |        |         |           |     |
| AB                                                                                     | 3  | 359.375000     | 119.791667  | 7.041  | 0.0098  |           | 9.7 |
| RAB                                                                                    | 9  | 153.125000     | 17.013889   |        |         |           |     |

  

| COMPLETE FACTORIAL AOV For ----- ZEAMA CROP STUNTING PERCENT Apr-23-18 (Data Column 3) |    |                |             |         |         |           |     |
|----------------------------------------------------------------------------------------|----|----------------|-------------|---------|---------|-----------|-----|
| Source                                                                                 | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |     |
| Total                                                                                  | 31 | 4621.875000    |             |         |         |           |     |
| R                                                                                      | 3  | 28.125000      | 9.375000    | 1.080   | 0.4056  |           |     |
| A                                                                                      | 1  | 1378.125000    | 1378.125000 | 147.000 | 0.0012  |           | 2.5 |
| RA                                                                                     | 3  | 28.125000      | 9.375000    |         |         |           |     |
| B                                                                                      | 3  | 1515.625000    | 505.208333  | 58.200  | 0.0001  |           | 3.9 |
| RB                                                                                     | 9  | 78.125000      | 8.680556    |         |         |           |     |
| AB                                                                                     | 3  | 1515.625000    | 505.208333  | 58.200  | 0.0001  |           | 7.0 |
| RAB                                                                                    | 9  | 78.125000      | 8.680556    |         |         |           |     |

  

| COMPLETE FACTORIAL AOV For ----- ZEAMA BUGGY C WHIPPING PERCENT Apr-23-18 (Data Column 4) |    |                |             |         |         |           |     |
|-------------------------------------------------------------------------------------------|----|----------------|-------------|---------|---------|-----------|-----|
| Source                                                                                    | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |     |
| Total                                                                                     | 31 | 27996.875000   |             |         |         |           |     |
| R                                                                                         | 3  | 15.625000      | 5.208333    | 1.000   | 0.4363  |           |     |
| A                                                                                         | 1  | 4753.125000    | 4753.125000 | 912.600 | 0.0001  |           | 1.9 |
| RA                                                                                        | 3  | 15.625000      | 5.208333    |         |         |           |     |
| B                                                                                         | 3  | 11559.375000   | 3853.125000 | 739.800 | 0.0001  |           | 3.0 |
| RB                                                                                        | 9  | 46.875000      | 5.208333    |         |         |           |     |
| AB                                                                                        | 3  | 11559.375000   | 3853.125000 | 739.800 | 0.0001  |           | 5.4 |
| RAB                                                                                       | 9  | 46.875000      | 5.208333    |         |         |           |     |

  

| COMPLETE FACTORIAL AOV For ----- ZEAMA CROP STUNTING PERCENT May-2-18 (Data Column 5) |    |                |             |         |         |           |     |
|---------------------------------------------------------------------------------------|----|----------------|-------------|---------|---------|-----------|-----|
| Source                                                                                | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |     |
| Total                                                                                 | 31 | 13796.875000   |             |         |         |           |     |
| R                                                                                     | 3  | 109.375000     | 36.458333   | 4.565   | 0.0331  |           |     |
| A                                                                                     | 1  | 3003.125000    | 3003.125000 | 961.000 | 0.0001  |           | 1.5 |
| RA                                                                                    | 3  | 9.375000       | 3.125000    |         |         |           |     |
| B                                                                                     | 3  | 5415.625000    | 1805.208333 | 110.617 | 0.0001  |           | 5.4 |
| RB                                                                                    | 9  | 146.875000     | 16.319444   |         |         |           |     |
| AB                                                                                    | 3  | 5040.625000    | 1680.208333 | 210.391 | 0.0001  |           | 6.7 |
| RAB                                                                                   | 9  | 71.875000      | 7.986111    |         |         |           |     |

  

| COMPLETE FACTORIAL AOV For ----- ZEAMA BUGGY C WHIPPING PERCENT May-2-18 (Data Column 6) |    |                |             |         |         |           |      |
|------------------------------------------------------------------------------------------|----|----------------|-------------|---------|---------|-----------|------|
| Source                                                                                   | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |      |
| Total                                                                                    | 31 | 31346.875000   |             |         |         |           |      |
| R                                                                                        | 3  | 53.125000      | 17.708333   | 0.750   | 0.5493  |           |      |
| A                                                                                        | 1  | 6612.500000    | 6612.500000 | 453.429 | 0.0002  |           | 3.2  |
| RA                                                                                       | 3  | 43.750000      | 14.583333   |         |         |           |      |
| B                                                                                        | 3  | 12278.125000   | 4092.708333 | 222.396 | 0.0001  |           | 5.7  |
| RB                                                                                       | 9  | 165.625000     | 18.402778   |         |         |           |      |
| AB                                                                                       | 3  | 11981.250000   | 3993.750000 | 169.147 | 0.0001  |           | 11.5 |
| RAB                                                                                      | 9  | 212.500000     | 23.611111   |         |         |           |      |

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)

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| COMPLETE FACTORIAL AOV For ----- ZEAMA CROP STUNTING PERCENT May-16-18 (Data Column 7)    |    |                |             |         |         |           |  |
|-------------------------------------------------------------------------------------------|----|----------------|-------------|---------|---------|-----------|--|
| Source                                                                                    | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |  |
| Total                                                                                     | 31 | 8061.718750    |             |         |         |           |  |
| R                                                                                         | 3  | 377.343750     | 125.781250  | 4.404   | 0.0362  |           |  |
| A                                                                                         | 1  | 850.781250     | 850.781250  | 39.361  | 0.0082  | 3.9       |  |
| RA                                                                                        | 3  | 64.843750      | 21.614583   |         |         |           |  |
| B                                                                                         | 3  | 4202.343750    | 1400.781250 | 14.093  | 0.0010  | 13.3      |  |
| RB                                                                                        | 9  | 894.531250     | 99.392361   |         |         |           |  |
| AB                                                                                        | 3  | 1414.843750    | 471.614583  | 16.514  | 0.0005  | 12.6      |  |
| RAB                                                                                       | 9  | 257.031250     | 28.559028   |         |         |           |  |
| COMPLETE FACTORIAL AOV For ----- ZEAMA BUGGY C WHIPPING PERCENT May-16-18 (Data Column 8) |    |                |             |         |         |           |  |
| Source                                                                                    | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |  |
| Total                                                                                     | 31 | 27283.718750   |             |         |         |           |  |
| R                                                                                         | 3  | 7.093750       | 2.364583    | 0.112   | 0.9509  |           |  |
| A                                                                                         | 1  | 4826.531250    | 4826.531250 | 469.450 | 0.0002  | 2.7       |  |
| RA                                                                                        | 3  | 30.843750      | 10.281250   |         |         |           |  |
| B                                                                                         | 3  | 10965.843750   | 3655.281250 | 210.502 | 0.0001  | 5.5       |  |
| RB                                                                                        | 9  | 156.281250     | 17.364583   |         |         |           |  |
| AB                                                                                        | 3  | 11107.093750   | 3702.364583 | 175.346 | 0.0001  | 10.8      |  |
| RAB                                                                                       | 9  | 190.031250     | 21.114583   |         |         |           |  |
| COMPLETE FACTORIAL AOV For ----- ZEAMA CROP STUNTING PERCENT Jun-12-18 (Data Column 9)    |    |                |             |         |         |           |  |
| Source                                                                                    | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |  |
| Total                                                                                     | 31 | 3150.000000    |             |         |         |           |  |
| R                                                                                         | 3  | 75.000000      | 25.000000   | 1.059   | 0.4135  |           |  |
| A                                                                                         | 1  | 312.500000     | 312.500000  | 15.000  | 0.0305  | 3.8       |  |
| RA                                                                                        | 3  | 62.500000      | 20.833333   |         |         |           |  |
| B                                                                                         | 3  | 1075.000000    | 358.333333  | 16.125  | 0.0006  | 6.3       |  |
| RB                                                                                        | 9  | 200.000000     | 22.222222   |         |         |           |  |
| AB                                                                                        | 3  | 1212.500000    | 404.166667  | 17.118  | 0.0005  | 11.5      |  |
| RAB                                                                                       | 9  | 212.500000     | 23.611111   |         |         |           |  |
| COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD LBS/PLOT Sep-1-18 (Data Column 10)      |    |                |             |         |         |           |  |
| Source                                                                                    | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |  |
| Total                                                                                     | 31 | 1601.500000    |             |         |         |           |  |
| R                                                                                         | 3  | 10.500000      | 3.500000    | 0.158   | 0.9218  |           |  |
| A                                                                                         | 1  | 162.000000     | 162.000000  | 9.918   | 0.0513  | 3.4       |  |
| RA                                                                                        | 3  | 49.000000      | 16.333333   |         |         |           |  |
| B                                                                                         | 3  | 413.750000     | 137.916667  | 7.511   | 0.0080  | 5.7       |  |
| RB                                                                                        | 9  | 165.250000     | 18.361111   |         |         |           |  |
| AB                                                                                        | 3  | 601.750000     | 200.583333  | 9.060   | 0.0044  | 11.1      |  |
| RAB                                                                                       | 9  | 199.250000     | 22.138889   |         |         |           |  |
| COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD BU/A Sep-1-18 TY1 0 (Data Column 11)    |    |                |             |         |         |           |  |
| Source                                                                                    | DF | Sum of Squares | Mean Square | F       | Prob(F) | HSD (.10) |  |
| Total                                                                                     | 31 | 41276.637856   |             |         |         |           |  |
| R                                                                                         | 3  | 270.624226     | 90.208075   | 0.158   | 0.9218  |           |  |
| A                                                                                         | 1  | 4175.345197    | 4175.345197 | 9.918   | 0.0513  | 17        |  |
| RA                                                                                        | 3  | 1262.913053    | 420.971018  |         |         |           |  |
| B                                                                                         | 3  | 10663.883180   | 3554.627727 | 7.511   | 0.0080  | 29        |  |
| RB                                                                                        | 9  | 4259.109838    | 473.234426  |         |         |           |  |
| AB                                                                                        | 3  | 15509.345507   | 5169.781836 | 9.060   | 0.0044  | 56        |  |
| RAB                                                                                       | 9  | 5135.416855    | 570.601873  |         |         |           |  |
| C = Crop is Part Rated                                                                    |    |                |             |         |         |           |  |
| PRM Data Type                                                                             |    |                |             |         |         |           |  |
| TY1 = 5.076784*[C10]                                                                      |    |                |             |         |         |           |  |

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| FIELD CORN RESPONSE TO HALEX GT AT 1X AND 2X RATES |               |                               |      |       |           |           |           |           |          |          |           |       |      |
|----------------------------------------------------|---------------|-------------------------------|------|-------|-----------|-----------|-----------|-----------|----------|----------|-----------|-------|------|
| Trial ID: CN-04-18                                 |               | Study Dir.: WILSON FAIRCLOTH  |      |       |           |           |           |           |          |          |           |       |      |
| Location: PONDER FARM                              |               | Investigator: Eric P. Prostko |      |       |           |           |           |           |          |          |           |       |      |
| Weed Code                                          |               |                               |      |       | -----     | -----     | -----     | -----     | -----    | -----    | -----     |       |      |
| Crop Code                                          |               |                               |      |       | ZEAMA     | ZEAMA     | ZEAMA     | ZEAMA     | ZEAMA    | ZEAMA    | ZEAMA     |       |      |
| Part Rated                                         |               |                               |      |       | CROP -    | CROP -    | CROP -    | BUGGY C   | CROP -   | BUGGY C  | CROP -    |       |      |
| Rating Data Type                                   |               |                               |      |       | STUNTING  | CHLOROSI  | STUNTING  | WHIPPING  | STUNTING | WHIPPING | STUNTING  |       |      |
| Rating Unit                                        |               |                               |      |       | PERCENT   | PERCENT   | PERCENT   | PERCENT   | PERCENT  | PERCENT  | PERCENT   |       |      |
| Rating Date                                        |               |                               |      |       | Apr-18-18 | Apr-18-18 | Apr-23-18 | Apr-23-18 | May-2-18 | May-2-18 | May-16-18 |       |      |
| PRM Data Type                                      |               |                               |      |       |           |           |           |           |          |          |           |       |      |
| # Subsamples, Dec.                                 |               |                               |      |       |           |           |           |           |          |          |           |       |      |
| Trt                                                | Treatment     | Form                          | Form | Rate  |           |           |           |           |          |          |           |       |      |
| No.                                                | Name          | Conc                          | Type | Rate  | Unit      | Plot      | 1         | 2         | 3        | 4        | 5         | 6     | 7    |
| 1                                                  | POST1 (V2)    |                               |      |       |           | 101       | 0.0       | 10.0      | 10.0     | 5.0      | 15.0      | 15.0  | 10.0 |
|                                                    | HALEX GT      | 4.39                          | SC   | 58.0  | oz/a      | 206       | 10.0      | 10.0      | 10.0     | 15.0     | 10.0      | 40.0  | 10.0 |
|                                                    | ATRAZINE      | 4                             | L    | 64.0  | oz/a      | 303       | 10.0      | 20.0      | 10.0     | 5.0      | 20.0      | 20.0  | 15.0 |
|                                                    | NIS           |                               |      | 0.25  | % v/v     | 401       | 0.0       | 0.0       | 0.0      | 5.0      | 10.0      | 20.0  | 10.0 |
|                                                    |               |                               |      |       |           | Mean =    | 5.0       | 10.0      | 7.5      | 7.5      | 13.8      | 23.8  | 11.3 |
| 2                                                  | POST1 (V2)    |                               |      |       |           | 102       | 10.0      | 20.0      | 35.0     | 90.0     | 70.0      | 100.0 | 50.0 |
|                                                    | HALEX GT      | 4.39                          | SC   | 116.0 | oz/a      | 204       | 10.0      | 20.0      | 30.0     | 90.0     | 60.0      | 95.0  | 35.0 |
|                                                    | ATRAZINE      | 4                             | L    | 64.0  | oz/a      | 301       | 0.0       | 20.0      | 40.0     | 95.0     | 70.0      | 95.0  | 40.0 |
|                                                    | NIS           |                               |      | 0.25  | % v/v     | 402       | 10.0      | 10.0      | 40.0     | 85.0     | 60.0      | 90.0  | 60.0 |
|                                                    |               |                               |      |       |           | Mean =    | 7.5       | 17.5      | 36.3     | 90.0     | 65.0      | 95.0  | 46.3 |
| 3                                                  | POST1 (V2)    |                               |      |       |           | 103       | 0.0       | 10.0      | 5.0      | 0.0      | 5.0       | 0.0   | 10.0 |
|                                                    | ROUNDUP P-MAX | 5.5                           | SL   | 32.0  | oz/a      | 208       | 0.0       | 20.0      | 5.0      | 0.0      | 10.0      | 0.0   | 0.0  |
|                                                    | ATRAZINE      | 4                             | L    | 64.0  | oz/a      | 305       | 10.0      | 10.0      | 15.0     | 0.0      | 10.0      | 0.0   | 15.0 |
|                                                    | PROWL H20     | 3.8                           | SC   | 32.0  | oz/a      | 404       | 20.0      | 20.0      | 10.0     | 0.0      | 10.0      | 0.0   | 10.0 |
|                                                    |               |                               |      |       |           | Mean =    | 7.5       | 15.0      | 8.8      | 0.0      | 8.8       | 0.0   | 8.8  |
| 4                                                  | POST1 (V2)    |                               |      |       |           | 104       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    | NTC           |                               |      |       |           | 205       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    |               |                               |      |       |           | 308       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    |               |                               |      |       |           | 406       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    |               |                               |      |       |           | Mean =    | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
| 5                                                  | POST2 (V5)    |                               |      |       |           | 105       | 0.0       | 0.0       | 0.0      | 0.0      | 10.0      | 0.0   | 10.0 |
|                                                    | HALEX GT      | 4.39                          | SC   | 58.0  | oz/a      | 207       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 10.0 |
|                                                    | ATRAZINE      | 4                             | L    | 64.0  | oz/a      | 302       | 0.0       | 0.0       | 0.0      | 0.0      | 10.0      | 0.0   | 15.0 |
|                                                    | NIS           |                               |      | 0.25  | % v/v     | 408       | 0.0       | 0.0       | 0.0      | 0.0      | 10.0      | 5.0   | 10.0 |
|                                                    |               |                               |      |       |           | Mean =    | 0.0       | 0.0       | 0.0      | 0.0      | 7.5       | 1.3   | 11.3 |
| 6                                                  | POST2 (V5)    |                               |      |       |           | 106       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    | HALEX GT      | 4.39                          | SC   | 116.0 | oz/a      | 202       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    | ATRAZINE      | 4                             | L    | 64.0  | oz/a      | 304       | 0.0       | 0.0       | 0.0      | 0.0      | 10.0      | 5.0   | 15.0 |
|                                                    | NIS           |                               |      | 0.25  | % v/v     | 403       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 40.0 |
|                                                    |               |                               |      |       |           | Mean =    | 0.0       | 0.0       | 0.0      | 0.0      | 2.5       | 1.3   | 13.8 |
| 7                                                  | POST2 (V5)    |                               |      |       |           | 107       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    | ROUNDUP P-MAX | 5.5                           | SL   | 32.0  | oz/a      | 203       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 5.0   | 0.0  |
|                                                    | ATRAZINE      | 4                             | L    | 64.0  | oz/a      | 306       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    | PROWL H20     | 3.8                           | SC   | 32.0  | oz/a      | 407       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    |               |                               |      |       |           | Mean =    | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 1.3   | 0.0  |
| 8                                                  | POST2 (V5)    |                               |      |       |           | 108       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    | NTC           |                               |      |       |           | 201       | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |
|                                                    |               |                               |      |       |           | 307       | 0.0       | 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   | 0.0  |
|                                                    |               |                               |      |       |           | Mean =    | 0.0       | 0.0       | 0.0      | 0.0      | 0.0       | 0.0   | 0.0  |

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|                    |               |      |      |       |       |           |           |          |          |     |
|--------------------|---------------|------|------|-------|-------|-----------|-----------|----------|----------|-----|
| Weed Code          |               |      |      |       |       | -----     | -----     | -----    | -----    |     |
| Crop Code          |               |      |      |       |       | ZEAMA     | ZEAMA     | ZEAMA    | ZEAMA    |     |
| Part Rated         |               |      |      |       |       | BUGGY C   | CROP -    | PLOT -   | PLOT -   |     |
| Rating Data Type   |               |      |      |       |       | WHIPPING  | STUNTING  | YIELD    | YIELD    |     |
| Rating Unit        |               |      |      |       |       | PERCENT   | PERCENT   | LBS/PLOT | BU/A     |     |
| Rating Date        |               |      |      |       |       | May-16-18 | Jun-12-18 | Sep-1-18 | Sep-1-18 |     |
| PRM Data Type      |               |      |      |       |       |           |           |          | TY1      |     |
| # Subsamples, Dec. |               |      |      |       |       |           |           |          | - 0      |     |
| Trt                | Treatment     | Form | Form | Rate  |       |           |           |          |          |     |
| No.                | Name          | Conc | Type | Rate  | Unit  | Plot      | 8         | 9        | 10       | 11  |
| 1                  | POST1 (V2)    |      |      |       |       | 101       | 3.0       | 0.0      | 48.0     | 244 |
|                    | HALEX GT      | 4.39 | SC   | 58.0  | oz/a  | 206       | 20.0      | 0.0      | 36.0     | 183 |
|                    | ATRAZINE      | 4    | L    | 64.0  | oz/a  | 303       | 15.0      | 0.0      | 43.0     | 218 |
|                    | NIS           |      |      | 0.25  | % v/v | 401       | 5.0       | 0.0      | 48.0     | 244 |
|                    |               |      |      |       |       | Mean =    | 10.8      | 0.0      | 43.8     | 222 |
| 2                  | POST1 (V2)    |      |      |       |       | 102       | 100.0     | 40.0     | 16.0     | 81  |
|                    | HALEX GT      | 4.39 | SC   | 116.0 | oz/a  | 204       | 85.0      | 10.0     | 28.0     | 142 |
|                    | ATRAZINE      | 4    | L    | 64.0  | oz/a  | 301       | 85.0      | 30.0     | 25.0     | 127 |
|                    | NIS           |      |      | 0.25  | % v/v | 402       | 85.0      | 30.0     | 23.0     | 117 |
|                    |               |      |      |       |       | Mean =    | 88.8      | 27.5     | 23.0     | 117 |
| 3                  | POST1 (V2)    |      |      |       |       | 103       | 0.0       | 0.0      | 45.0     | 228 |
|                    | ROUNDUP P-MAX | 5.5  | SL   | 32.0  | oz/a  | 208       | 0.0       | 0.0      | 40.0     | 203 |
|                    | ATRAZINE      | 4    | L    | 64.0  | oz/a  | 305       | 0.0       | 0.0      | 34.0     | 173 |
|                    | PROWL H20     | 3.8  | SC   | 32.0  | oz/a  | 404       | 0.0       | 0.0      | 38.0     | 193 |
|                    |               |      |      |       |       | Mean =    | 0.0       | 0.0      | 39.3     | 199 |
| 4                  | POST1 (V2)    |      |      |       |       | 104       | 0.0       | 0.0      | 40.0     | 203 |
|                    | NTC           |      |      |       |       | 205       | 0.0       | 0.0      | 37.0     | 188 |
|                    |               |      |      |       |       | 308       | 0.0       | 0.0      | 39.0     | 198 |
|                    |               |      |      |       |       | 406       | 0.0       | 0.0      | 38.0     | 193 |
|                    |               |      |      |       |       | Mean =    | 0.0       | 0.0      | 38.5     | 195 |
| 5                  | POST2 (V5)    |      |      |       |       | 105       | 0.0       | 0.0      | 33.0     | 168 |
|                    | HALEX GT      | 4.39 | SC   | 58.0  | oz/a  | 207       | 0.0       | 0.0      | 38.0     | 193 |
|                    | ATRAZINE      | 4    | L    | 64.0  | oz/a  | 302       | 0.0       | 10.0     | 43.0     | 218 |
|                    | NIS           |      |      | 0.25  | % v/v | 408       | 5.0       | 0.0      | 40.0     | 203 |
|                    |               |      |      |       |       | Mean =    | 1.3       | 2.5      | 38.5     | 195 |
| 6                  | POST2 (V5)    |      |      |       |       | 106       | 0.0       | 0.0      | 40.0     | 203 |
|                    | HALEX GT      | 4.39 | SC   | 116.0 | oz/a  | 202       | 0.0       | 0.0      | 41.0     | 208 |
|                    | ATRAZINE      | 4    | L    | 64.0  | oz/a  | 304       | 0.0       | 0.0      | 39.0     | 198 |
|                    | NIS           |      |      | 0.25  | % v/v | 403       | 0.0       | 0.0      | 46.0     | 234 |
|                    |               |      |      |       |       | Mean =    | 0.0       | 0.0      | 41.5     | 211 |
| 7                  | POST2 (V5)    |      |      |       |       | 107       | 0.0       | 0.0      | 38.0     | 193 |
|                    | ROUNDUP P-MAX | 5.5  | SL   | 32.0  | oz/a  | 203       | 0.0       | 0.0      | 45.0     | 228 |
|                    | ATRAZINE      | 4    | L    | 64.0  | oz/a  | 306       | 0.0       | 0.0      | 41.0     | 208 |
|                    | PROWL H20     | 3.8  | SC   | 32.0  | oz/a  | 407       | 0.0       | 0.0      | 45.0     | 228 |
|                    |               |      |      |       |       | Mean =    | 0.0       | 0.0      | 42.3     | 214 |
| 8                  | POST2 (V5)    |      |      |       |       | 108       | 0.0       | 0.0      | 40.0     | 203 |
|                    | NTC           |      |      |       |       | 201       | 0.0       | 0.0      | 45.0     | 228 |
|                    |               |      |      |       |       | 307       | 0.0       | 0.0      | 42.0     | 213 |
|                    |               |      |      |       |       | 405       | 0.0       | 0.0      | 34.0     | 173 |
|                    |               |      |      |       |       | Mean =    | 0.0       | 0.0      | 40.3     | 204 |

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|                                                    |             |               |                  |
|----------------------------------------------------|-------------|---------------|------------------|
| FIELD CORN RESPONSE TO HALEX GT AT 1X AND 2X RATES |             |               |                  |
| Trial ID:                                          | CN-04-18    | Study Dir.:   | WILSON FAIRCLOTH |
| Location:                                          | PONDER FARM | Investigator: | Eric P. Prostko  |
| C = Crop is Part Rated                             |             |               |                  |
| PRM Data Type                                      |             |               |                  |
| TY1 = 5.076784*[C10]                               |             |               |                  |